

July 22, 2024

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

RE: Notice of Exempt Modification for Verizon Wireless: 5000246277
Crown Site ID# 806378
126 Pioneer Heights, Somers, CT 06071
Latitude: 41° 56' 56.35 / Longitude: -72° 29' 31.31"

Dear Ms. Bachman:

Verizon Wireless currently maintains fifteen (15) antennas at the 159-foot mount on the existing 160-foot self-support tower located at 126 Pioneer Heights, Somers, CT. The property and tower are owned by Crown Castle. Verizon now intends to replace nine (9) antennas, and ancillary antenna equipment at the 159 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:

Install New:

- (6) CommScope NHH-65B-R2B Antennas
- (3) Samsung-MT6413-77A Antennas
- (3) Samsung- B2/B66A RRH
- (3) Samsung- RF4461D-13A Radios
- (1) Raycap RVZDC-6627-PF-48
- (1) Commscope 12x24 Hybrid Cables
- Mount Modification

Remove:

- (3) Commscope – LNX-6514DS-A1M - Antennas
- (6) Andrew – HBXX-6517DS-A2M - Antennas
- (2) Antel – LPA-80063-4CF Antenna
- (2) Antel – LPA-80063-4CFX5 Antenna
- (2) RFS/Celwave – ALP866513-42T6 Antenna
- (3) Nokia UHID B4 RRH Radios
- (1) Raycap – RRFDC-3315-PF-48 - 6 OVP
- (6) 1-5/8" Coaxial Cable
- (1) 6x12 Hybrid Cable

Ground:

Install New:

- (19) Quad
- (1) Raycap – RVZDC
- (1) ABB-1099142980 Power Plant
- (1) ABB-1099157434 Power Plant
- (8) ABB-1099163473 Power Plant
- (1) ABB-1600390862A Power Plant
- (1) ABB-8488177635 Power Plant
- (1) ABB-848822321 Power Plant
- (1) Commscope – RS485
- (6) Commscope – PS-1600-73-VZ
- (6) Commscope – PS-Bypass
- (1) Commscope – PS-R-1600-VZ
- (1) Commscope – Pulsar-Edge-CNTRL
- (4) ABB-109142881 Power Plant
- (6) ABBINC-001 -109142881 Power Plant

Remove:

- (3) NOKIA – UHBA B13 RRH

The facility was approved by the Connecticut Siting Council Dock No. 58 on July 11, 1986.

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 Tim Keeney, First Selectman, Town of Somers and Jennifer Roy, ZEO, Town of Somers. Crown Castle is the property and tower owner.

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.

Melanie A. Bachman

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For the foregoing reasons, Verizon Wireless 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
Permitting Specialist
1800 W. Park Drive
Westborough, MA 01581
(781) 970-0053
Jeff.Barbadora@crowncastle.com

Attachments

cc:

Tim Keeney, First Selectman
Town of Somers
600 Main Street
Somers, CT 06071
860-763-8200

Jennifer Roy, ZEO
Town of Somers
600 Main Street
Somers, CT 06071
860-763-8200

Crown Castle, Tower and Property Owner

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Tuesday, July 23, 2024 10:08 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777545808263: 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 Tue, 07/23/2024 at
10:00am.



Delivered to 600 MAIN ST, SOMERS, CT 06071
Received by A.HANVEY

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	777545808263
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Somers Tim Keeney, First Selectman 600 Main Street SOMERS, CT, US, 06071
REFERENCE	799001 7680
SHIPPER REFERENCE	799001 7680
SHIP DATE	Mon 7/22/2024 06:05 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	SOMERS, CT, US, 06071
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Tuesday, July 23, 2024 10:08 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 777545853277: 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 Tue, 07/23/2024 at
10:00am.



Delivered to 600 MAIN ST, SOMERS, CT 06071
Received by A.HANVEY

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	777545853277
FROM	Crown Castle 1800 W Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Somers Jennifer Roy, ZEO 600 Main Street SOMERS, CT, US, 06071
REFERENCE	7990017680
SHIPPER REFERENCE	7990017680
SHIP DATE	Mon 7/22/2024 06:05 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	SOMERS, CT, US, 06071
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Standard Overnight

DOCKET NO. 58

AN APPLICATION OF HARTFORD CELLULAR
COPANY FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC
NEED FOR THE CONSTRUCTION, MAINTENANCE,
AND OPERATION OF FACILITIES TO PROVIDE
CELLULAR SERVICE IN HARTFORD, TOLLAND AND
MIDDLESEX COUNTIES.

CONNECTICUT SITING
COUNCIL

July 11, 1986.

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Connecticut Siting Council (Council) hereby directs that a Certificate of Environmental Compatibility and Public Need as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to the Hartford Cellular Company for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Glastonbury, Haddam, Hartford, Portland, Rocky Hill, Somers, Vernon, Windsor, and Willington subject to the conditions below.

- 1) The proposed Bloomfield and Middlefield sites are rejected without prejudice.
- 2) The antennas on the Glastonbury tower shall be mounted no higher than the 180' level of this existing tower.
- 3) The Portland and Rocky Hill towers shall be monopoles.
- 4) The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed total heights, including antennas, of
 - a) 193' at the Haddam site;
 - b) 173' at the Portland site;

- c) 153' at the Rocky Hill site;
- d) 173' at the Somers site;
- e) 173' at the Vernon site;
- f) 153' at the Willington site;
- g) 173' at the Windsor site.

5) The Hartford site receive antennas shall be mounted below the top of the high point of the building to preclude visibility.

6) Any future actions requiring the removal of the existing Glastonbury tower to be shared by the certificate holder shall also apply to the equipment mounted on that tower by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.

7) The certificate holder shall submit a development and management (D&M) plan for the Haddam, Portland, Rocky Hill, Somers, Vernon and Windsor sites pursuant to Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA), except that irrelevant items in Section 16-50j-76 need only be identified as such. In addition to the requirements of Section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Haddam, Somers, Vernon, and Windsor sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. The D&M plan must be approved prior to facility construction. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.

8) All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the

site plan required by order number 7.

9) The certificate holder shall comply with any future radiofrequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted in this decision shall continue to be in compliance with such standards.

10) The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with Section 16-50j-73 of the RSA, the certificate holder shall notify the Council of the addition of any equipment to any approved tower.

11) A fence not lower than 8' shall surround each tower and associated equipment.

12) Unless necessary to comply with order 13, no lights shall be installed on any of these towers.

13) The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to Section 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.

14) Construction activities shall take place during daylight working hours.

15) This decision and order shall be void and the towers and associate equipment shall be dismantled and removed, or reapplication for any new use shall be made to the Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.

16) This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, Middletown Press, Manchester Journal Inquirer, and the Willimantic Chronicle.

The parties to the proceeding are:

Metro Mobile (applicant)
5 Eversley Avenue
Norwalk, Connecticut 06855
ATTN: Armand Mascioli
General Manager

Howard L. Slater, Esq. (its attorneys)
Scott A. Gursky, Esq.
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
111 Pearl Street
Hartford, Connecticut 06103

Richard Rubin, Esq.
Fleischman and Walsh, P.C.
1725 N Street, N.W.
Washington, D. C. 20036

Mr. William Wamester
1225 Randolph Road
Middletown, Connecticut 06457

The Southern New England Telephone Company
227 Church Street
New Haven, Connecticut 06506
ATTN: Peter J. Tyrrell, Esq.

Mr. James W. Tilney

represented by:
Patricia A. Ayars
Samuel Baily, Jr.
Robinson & Cole
One Commercial Plaza
Hartford, CT. 06103-3597

Mr. Samuel DuBosar, Chairman
Bessie Bennett, Esq.
Town Plan & Zoning Commission
P.O. Box 337
Bloomfield, Connecticut 06002

Town of Somers

represented by:

Mr. Robert F. Peters
Town Counsel
Tatoian, Devline, Peters
& Davis
11 South Road
P.O. Box 415
Somers, CT. 06071

Town of Haddam
represented by:

Lucy R. Petrella
Chairperson
Town Office Building
Route 9A
P.O. Box 87
Haddam, CT. 06438

Midstate Regional Planning Agency

represented by:

Thomas M. Gilligan
Regional Planner
P.O. Box 139
Middletown, CT. 06457

Dr. Donald P. LaSalle
Director
Talcott Mountain Science Center
Montevideo Road
Avon, Connecticut 06001

Barnard Tilson (service waived)
Secretary
Avon Planning and Zoning
60 West Main Street
Avon, Connecticut 06001

Alden Giddings
33 Privelege Road
Bloomfield, Connecticut 06002

Town of Bloomfield

represented by:

Joseph M. Suggs, Jr.
Deputy Mayor
Town Hall
880 Bloomfield Avenue
P.O. Box 337
Bloomfield, CT. 06002
(service waived)

Town of Middlefield

represented by:

David Silverstone, Esq.
Silverstone & Koontz
37 Lewis Street
Hartford, CT. 06103

with a copy to:

Geoffrey Colegrove
Midstate Regional Planning Agency
100 DeKoven Drive
Middletown, CT. 06457

Zoning Commission
Town of Somers

represented by:

Joseph A. Paradis
Chairman
Town Hall
600 Main Street
P.O. Box 803
Somers, CT. 06071

Barbara Sirwilo, Secretary (service waived)
Planning & Zoning Commission
Town of Rocky Hill
600 Old Main Street
P.O. Box 657
Rocky Hill, Connecticut 06067

H. Robert Goodrich (service waived)
Goodrich Lane
Portland, Connecticut 06480

The Honorable Richard P. Antonetti
State Representative (service waived)
5 Sachem Circle
Meriden, Connecticut 06450

John Hevrin
R.D. #1 - Plains Road
Haddam, Connecticut 06438

Norman and Darlene Manning (represented by)

Elizabeth Allen, Esq.
P.O. Box 467
Higganum, CT. 06441
(service waived)

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 11th day of July, 1986.

<u>Council Members</u>	<u>Vote Cast</u>
_____) Gloria Dibble Pond Chairperson	Absent
<i>Patricia J. Shea</i> _____) Commissioner John Downey Designee: Patricia Shea	Yes
<i>Stanley Pac</i> _____) Commissioner Stanley Pac Designee: Christopher Cooper	Yes
<i>Owen L. Clark</i> _____) Owen L. Clark	Yes
<i>Mortimer A. Geiston</i> _____) Mortimer A. Geiston	Yes
<i>James G. Horsfall</i> _____) James G. Horsfall	Yes
_____) Pamela B. Katz	Absent
<i>William H. Smith</i> _____) William H. Smith	Yes
<i>Colin C. Tait</i> _____) Colin C. Tait	Yes


STATE OF CONNECTICUT
COUNTY OF HARTFORD

)
:
)

ss. New Britain, July 11, 1986

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



Christopher S. Wood, Executive Director
Connecticut Siting Council

126 PIONEER HEIGHTS

Location 126 PIONEER HEIGHTS

Mblu 01/ 13/ A/ /

Acct# 00228200

Owner GATELY RACHAEL E

Assessment \$312,700

Appraisal \$446,600

PID 1814

Building Count 1

Dev Lot

Dev Map

Exempt Code

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$111,600	\$335,000	\$446,600
Assessment			
Valuation Year	Improvements	Land	Total
2020	\$78,200	\$234,500	\$312,700

Owner of Record

Owner GATELY RACHAEL E
Co-Owner GATELY ERIN C
Address PMB 353 4017 WASHINGTON R
 MCMURRAY, PA 15317

Sale Price \$1
Certificate
Book & Page 382/571
Sale Date 04/03/2023
Instrument 25

Ownership History

Ownership History						
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date	
GATELY RACHAEL E	\$1		382/571	25	04/03/2023	
GATELY FAYE F & C/O CROWN ATLANTIC CO LLC	\$0		382/570	36	04/03/2023	
FARNHAM LENA G & FAYE F GATELY	\$0		0280/0125		08/21/2008	
FARNHAM CLARENCE D JR ET AL	\$0		0255/0671		11/28/2005	

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent Good:
Replacement Cost
Less Depreciation: \$0

Building Attributes	
Field	Description
Style:	Outbuildings
Model:	
Grade:	
Stories:	
Occupancy:	
Exterior Wall 1:	
Exterior Wall 2:	

Building Photo



(<https://images.vgsi.com/photos/SomersCTPhotos/000007646.jpg>)

Building Layout

Roof Cover:

No Data for Building Sub-Areas

Interior Wall 1:

Interior Wall 2:

Interior Flr 1:

Interior Flr 2

Heat Fuel:

Heat Type:

AC Type:

Total Bedrooms

Total Full Baths

Total Half Baths

Total Xtra Fixtrs:

Total Rooms

Bath Style:

Kitchen Style:

Num Kitchens

Fireplace, Plain

Basement garage

Extra Kitchens

Fin Bsmt Area

Fin Bsmt Quality

Num Park

Fireplaces

Whirlpool Tub

Foundation

Fndin Cndtn

Basement

Extra Features

Extra Features

Legend

No Data for Extra Features

Land

Land Use

Use Code 299
 Description Vac Comm Lnd
 Zone A-1
 Neighborhood C
 Alt Land Appr No
 Category

Land Line Valuation

Size (Acres) 0.50
 Frontage
 Depth
 Assessed Value \$234,500
 Appraised Value \$335,000

Outbuildings

Outbuildings

Legend

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN1	Fence, Chain	8	8 ft	400.00 LF	\$5,500	1
CB1	PreCast Cell Shed	CB		315.00 SF	\$47,300	1
CB1	PreCast Cell Shed	CB		192.00 SF	\$28,800	1
TWR	Tower			160.00 LF	\$0	1
CB1	PreCast Cell Shed	CB		200.00 SF	\$30,000	1

Valuation History

Appraisal

Valuation Year	Improvements	Land	Total
2022	\$111,600	\$335,000	\$446,600

2019

\$111,600

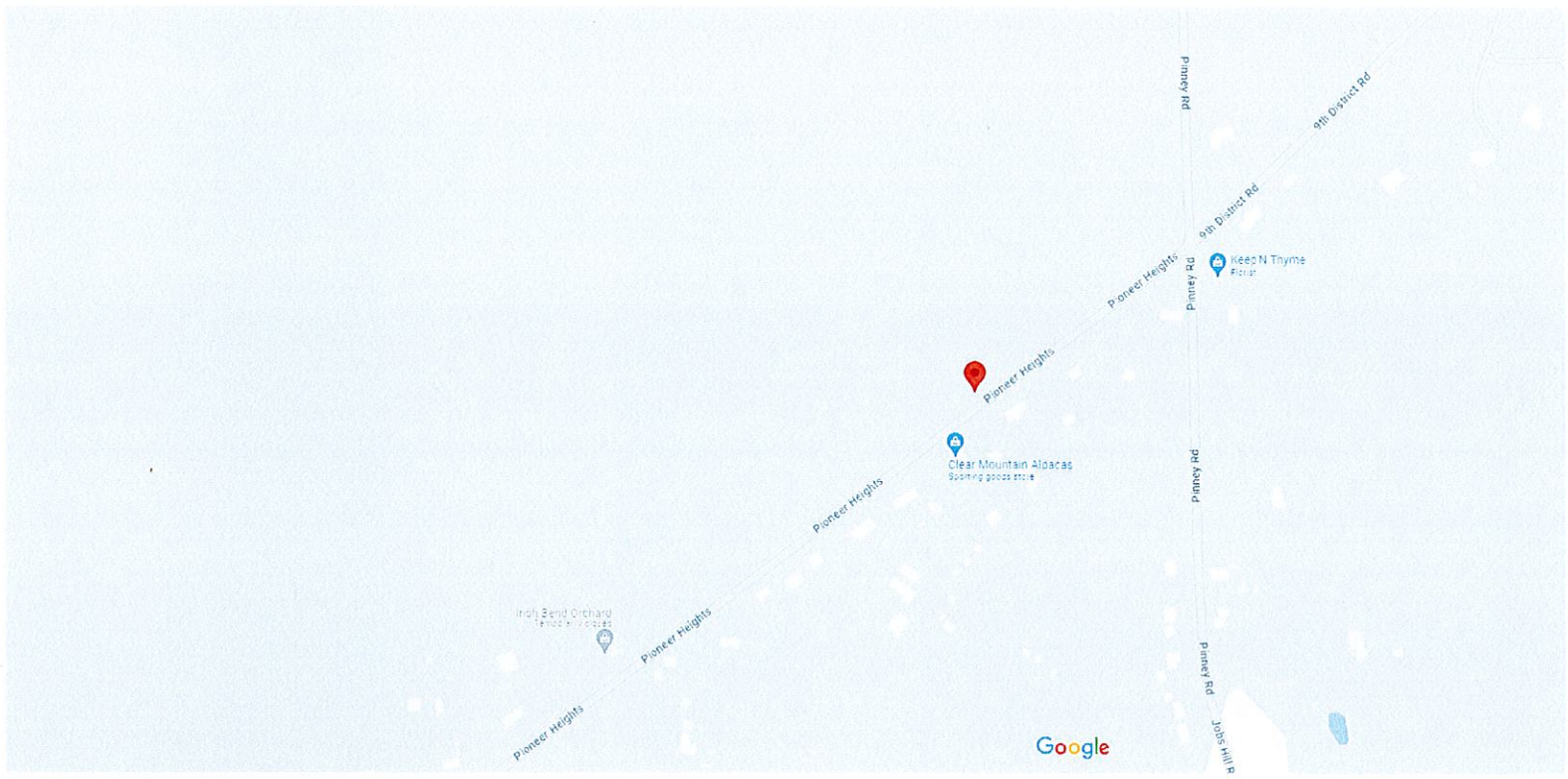
\$330,000

\$441,600

Assessment

Valuation Year	Improvements	Land	Total
2022	\$78,200	\$234,500	\$312,700
2020	\$78,200	\$234,500	\$312,700
2019	\$78,200	\$231,000	\$309,200

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Map data ©2024 Google 200 ft



126 Pioneer Heights

-  Directions
-  Save
-  Nearby
-  Send to phone
-  Share

 126 Pioneer Heights, Somers, CT 06071

 XG27+HW Somers, Connecticut

Photos



MTS Engineering, P.L.L.C.
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 (918) 587-4630

Date: **May 20, 2024**

Subject: **Structural Analysis Report**

Carrier Designation: **Verizon Wireless Co-Locate**
Site Number: 5000246277
Site Name: SOMERS CT

Crown Castle Designation: **BU Number:** 806378
Site Name: HRT 086 943248
JDE Job Number: 2114097
Work Order Number: 2301935
Order Number: 669070 Rev. 0

Engineering Firm Designation: **Project Number:** 136290.009.01.0001

Site Data: **126 Pioneer Heights RD, Somers, Tolland County, CT**
Latitude 41° 56' 55.98", Longitude -72° 29' 31.55"
160 Foot - Self Support Tower

We are 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:

LC5: Proposed Equipment Configuration

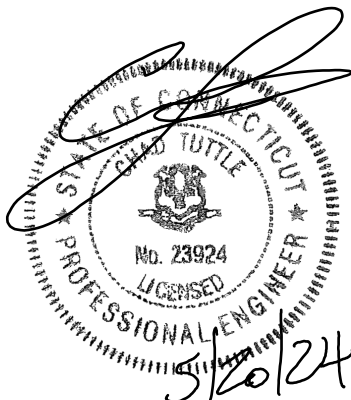
Sufficient Capacity

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: John Landon

Respectfully submitted by: MTS Engineering, P.L.L.C.

COA: PEC.0001564; Expires: 02/01/2025



Chad E. Tuttle, P.E.

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1) INTRODUCTION

This tower is a 160 ft Self Support tower designed by Rohn. The tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 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)
156.0	159.0	1	Commscope	NHH-65B-R2B	8	1-5/8
		2	Commscope	NHH-65B-R2B		
		3	Commscope	NHH-65B-R2B		
		1	Raycap	RVZDC-6627-PF-48_CCIV2		
		3	Samsung Telecomm.	MT6413-77A		
		3	Samsung Telecomm.	RF4439D-25A		
	3	Samsung Telecomm.	RF4461D-13A			
	156.0	1	--	Sector Mount [SM 505-3]		
57.0	60.0	1	Gps	GPS_A	1	1/2
	57.0	1	--	Side Arm Mount [SO 202-1]		

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)
150.0	150.0	1	Raycap	RDIDC-9181-PF-48	1	1-1/2
145.0	148.0	3	Fujitsu	TA08025-B604	--	--
		3	Fujitsu	TA08025-B605		
	146.0	2	Jma Wireless	MX08FRO665-21		
	145.0	1	Jma Wireless	MX08FRO665-21		
1		--	Sabre C10837002C-32788 (3)			
139.0	139.0	1	Raycap	DC6-48-60-18-8F	2	3/4
		1	--	Pipe Mount [PM 601-1]	1	3/8
135.0	138.0	3	Kaelus	DBC0061F1V51-2_CCIV2	12	1-1/4
	137.0	2	Ericsson	RRUS 11 B12		
		1	Ericsson	RRUS 32 B30		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	Ericsson	RRUS 4415 B25_CCIV2		
		1	Ericsson	RRUS 4426 B66		
		6	Powerwave Tech.	7020.00		
		1	Powerwave Tech.	7770.00		
		1	Powerwave Tech.	RA21.7770.00		
		1	Powerwave Tech.	TT19-08BP111-001		
	136.0	1	Ericsson	RRUS 11 B12		
		1	Ericsson	RRUS 32 B30		
		1	Ericsson	RRUS 4426 B66		
		1	Powerwave Tech.	RA21.7770.00		
		2	Powerwave Tech.	TT19-08BP111-001		
	135.0	2	Cci Antennas	HPA-65R-BUU-H8		
		1	Cci Antennas	TPA-65R-LCUUUU-H8		
		1	Ericsson	RRUS 32 B30		
		1	Ericsson	RRUS 4426 B66		
1		--	Sector Mount [SM 506-3]			
134.0	1	Cci Antennas	HPA-65R-BUU-H8			
	2	Cci Antennas	TPA-65R-LCUUUU-H8			
125.0	128.0	3	Alcatel Lucent	TD-RRH8X20-25	3 1	1-1/4 5/8
	127.0	3	Alcatel Lucent	RRH4X45-19		
		1	Rfs Celwave	APXV9ERR18-C-A20		
		2	Rfs Celwave	APXVSP18-C-A20		
	126.0	3	Rfs Celwave	APXVTM14-C-120		
	125.0	1	--	Sector Mount [SM 402-3]		
122.0	3	Alcatel Lucent	800MHz 2X50W RRH W/FILTER			
114.0	117.0	3	Ericsson	AIR 6419 B41_TMO	4	1-5/8
	116.0	3	Commscope	VV-65A-R1_TMO		
		3	Ericsson	RADIO 4460 B2/B25 B66_TMO		
	115.0	3	Ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	Rfs Celwave	APXVAALL24_43-U-NA20_TMO		
114.0	1	--	Sector Mount [SM 503-3]			
48.0	48.0	1	--	Side Arm Mount [SO 202-1]	--	--

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	7175605	CCI Sites
Tower Modification Drawing	866858	CCI Sites
Tower Modification Drawing/PMI	1278690	CCI Sites
Tower Modification Drawing	2961397	CCI Sites
Post Modification Inspection	2961404	CCI Sites
Tower Modification Drawing	3265393	CCI Sites
Post Modification Inspection	3684249	CCI Sites
Tower Modification Drawing	5615504	CCI Sites
Post Modification Inspection	5852475	CCI Sites
Tower Modification Drawing	7498454	CCI Sites
Post Modification Inspection	8011021	CCI Sites
Tower Modification Drawing	5264915	CCI Sites
Foundation Drawing	262063	CCI Sites
Geotech Report	1275233	CCI Sites
Crown CAD Package	Date: 05/15/2024	CCI Sites

3.1) Analysis Method

tnxTower (version 8.2.4.3), 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 reinforced leg sections. These calculations are presented in Appendix C.

3.2) Assumptions

- 1) The 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. We 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	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	160 - 140	Leg	ROHN 2 STD	1	-16.384	38.684	42.4	Pass
T2	140 - 135	Leg	ROHN 2.5 EH	37	-21.349	78.149	27.3	Pass
T3	135 - 130	Leg	ROHN 2.5 EH	49	-29.970	78.149	38.3	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T4	130 - 125	Leg	ROHN 2.5 EH	58	-37.505	78.149	48.0	Pass
T5	125 - 120	Leg	ROHN 2.5 EH	67	-46.458	78.149	59.4	Pass
T6	120 - 113.333	Leg	ROHN 3 EH	76	-57.815	99.059	58.4	Pass
T7	113.333 - 106.667	Leg	ROHN 3 EH	87	-69.535	99.059	70.2	Pass
T8	106.667 - 100	Leg	ROHN 3 EH	96	-82.361	129.331	63.7	Pass
T9	100 - 93.3333	Leg	ROHN 3.5 EH	108	-94.364	132.012	71.5	Pass
T10	93.3333 - 86.6667	Leg	ROHN 3.5 EH	117	-106.143	132.011	80.4	Pass
T11	86.6667 - 80	Leg	ROHN 3.5 EH	126	-117.066	161.634	72.4	Pass
T12	80 - 73.3333	Leg	ROHN 4 X-STR	138	-128.561	167.898	76.6	Pass
T13	73.3333 - 66.6667	Leg	ROHN 4 X-STR	147	-138.791	196.788	70.5	Pass
T14	66.6667 - 60	Leg	ROHN 4 X-STR	159	-149.582	196.814	76.0	Pass
T15	60 - 50	Leg	ROHN. 5 EH	171	-162.976	211.314	77.1	Pass
T16	50 - 40	Leg	ROHN. 5 EH	180	-178.418	265.798	67.1	Pass
T17	40 - 30	Leg	ROHN 5 X-STR	192	-194.118	265.818	73.0	Pass
T18	30 - 20	Leg	ROHN 5 X-STR	204	-209.293	283.206	73.9	Pass
T19	20 - 0	Leg	B+T_BU 806378 - 6.625"x0.34" pipe w/ 2" SR	246	-240.471	306.709	78.4	Pass
T1	160 - 140	Diagonal	L1 3/4x1 3/4x3/16	12	-2.971	11.646	25.5	Pass
T2	140 - 135	Diagonal	L1 3/4x1 3/4x3/16	47	-3.082	8.949	34.4	Pass
T3	135 - 130	Diagonal	L1 3/4x1 3/4x3/16	56	-4.049	8.112	49.9	Pass
T4	130 - 125	Diagonal	L1 3/4x1 3/4x3/16	65	-4.144	7.371	56.2	Pass
T5	125 - 120	Diagonal	L2x2x3/16	74	-4.672	10.175	45.9	Pass
T6	120 - 113.333	Diagonal	L2 1/2x2 1/2x1/4	83	-5.357	19.771	27.1	Pass
T7	113.333 - 106.667	Diagonal	L2 1/2x2 1/2x1/4	92	-6.614	17.939	36.9	Pass
T8	106.667 - 100	Diagonal	L2 1/2x2 1/2x1/4	98	-6.633	15.768	42.1	Pass
T9	100 - 93.3333	Diagonal	L2 1/2x2 1/2x3/16	110	-6.539	12.495	52.3	Pass
T10	93.3333 - 86.6667	Diagonal	L2 1/2x2 1/2x1/4	119	-6.661	15.132	44.0	Pass
T11	86.6667 - 80	Diagonal	2L2 1/2x2 1/2x3/16x1/4	128	-7.210	40.633	17.7	Pass
T12	80 - 73.3333	Diagonal	L 3x3x3/16	140	-6.742	16.573	40.7	Pass
T13	73.3333 - 66.6667	Diagonal	L 3x3x3/16	149	-7.584	13.948	54.4	Pass
T14	66.6667 - 60	Diagonal	L 3x3x3/16	161	-7.424	12.860	57.7	Pass
T15	60 - 50	Diagonal	2L3x3x3/16x1/4	173	-8.568	42.956	19.9	Pass
T16	50 - 40	Diagonal	2L3x3x3/16x1/4	182	-9.500	39.189	24.2	Pass
T17	40 - 30	Diagonal	2L3x3x1/4x1/4	194	-9.680	49.411	19.6	Pass
T18	30 - 20	Diagonal	2L3x3x1/4x1/4	209	-10.460	72.440	14.4	Pass
T19	20 - 0	Diagonal	2L3 1/2x3 1/2x1/4x1/4	248	-10.706	63.041	17.0	Pass
T18	30 - 20	Horizontal	L3x3x3/16	219	-3.630	6.453	56.3	Pass
T8	106.667 - 100	Secondary Horizontal	L1 3/4x1 3/4x1/4	105	-1.429	7.913	18.1	Pass
T11	86.6667 - 80	Secondary Horizontal	L2x2x3/16	134	-2.031	6.440	31.5	Pass
T13	73.3333 - 66.6667	Secondary Horizontal	L1 3/4x1 3/4x1/4	155	-2.408	4.441	54.2	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T14	66.6667 - 60	Secondary Horizontal	L2x2x3/16	167	-2.595	4.702	55.2	Pass
T16	50 - 40	Secondary Horizontal	L2 1/2x2 1/2x3/16	188	-3.095	7.398	41.8	Pass
T17	40 - 30	Secondary Horizontal	L3x3x1/4	200	-3.368	14.905	22.6	Pass
T1	160 - 140	Top Girt	L2x2x1/8	5	-0.463	4.273	10.8	Pass
T2	140 - 135	Top Girt	L2x2x1/8	42	-0.511	4.273	12.0	Pass
T18	30 - 20	Redund Horz 1 Bracing	L2x2x3/16	217	-3.630	13.765	26.4	Pass
T18	30 - 20	Redund Diag 1 Bracing	L2x2x3/16	237	-2.113	9.970	21.2	Pass
							Summary	
							Leg (T10)	80.4 Pass
							Diagonal (T14)	57.7 Pass
							Horizontal (T18)	56.3 Pass
							Secondary Horizontal (T14)	55.2 Pass
							Top Girt (T2)	12.0 Pass
							Redund Horz 1 Bracing (T18)	26.4 Pass
							Redund Diag 1 Bracing (T18)	21.2 Pass
							Bolt Checks	82.8 Pass
							Rating =	82.8 Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	61.1	Pass
1,2	Base Foundation (Structure)	Base	38.0	Pass
1,2	Base Foundation (Soil Interaction)	Base	67.0	Pass

Structure Rating (max from all components) =	82.8%
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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

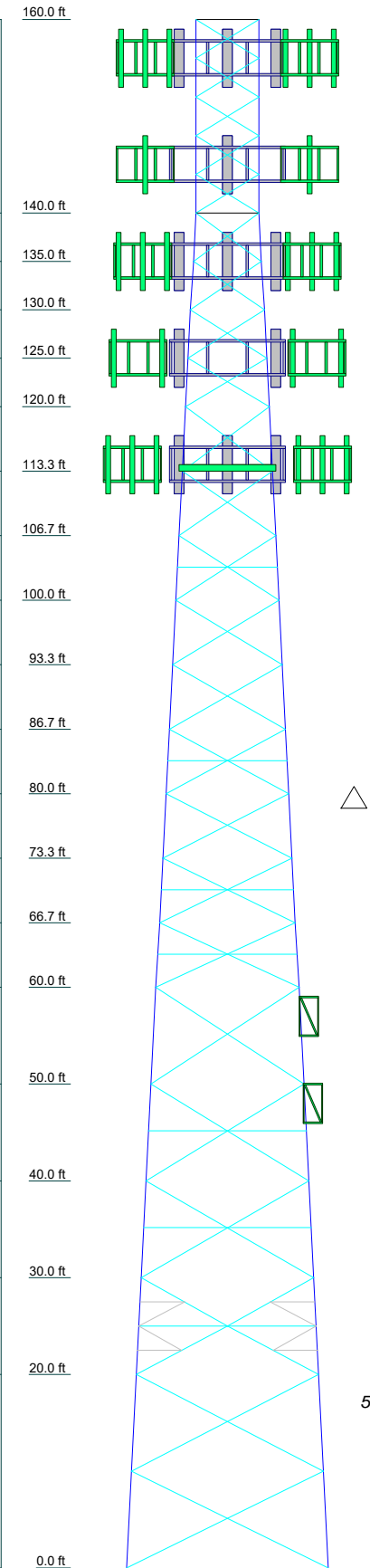
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	
Legs	A	ROHN 5 X-STR	ROHN 5 EH	ROHN 4 X-STR	A572-50	ROHN 3.5 EH	ROHN 3.5 EH	ROHN 3 EH	ROHN 2.5 EH	ROHN 2.5 EH	ROHN 2 STD									
Leg Grade																				
Diagonals	2L3 1/2x3 1/2x1/4x1/4	2L3x3x1/4x1/4	2L3x3x3/16x1/4	L 3x3x3/16	A572-50	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	L 3x3x3/16	
Diagonal Grade	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50
Top Girts																				
Horizontals	N.A.	L3x3x3/16	L3x3x1/4	C	N.A.	L2x2x3/16	F	N.A.	L2x2x3/16	N.A.	N.A.	F	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Sec. Horizontals	N.A.	N.A.	N.A.	C	N.A.	L2x2x3/16	F	N.A.	L2x2x3/16	N.A.	N.A.	F	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Red. Horizontals	N.A.	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	
Red. Diagonals	N.A.	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	
Face Width (ft)	20.8646	18.8542	17.8125	16.7708	15.7708	14.7708	14.0729	13.375	12.6771	11.9974	11.3151	10.6354	9.95833	9.28125	8.604176	7.928125	7.252083	6.576042	5.900000	5.223958
# Panels @ (ft)	2 @ 10	2 @ 5	3 @ 10	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667
Weight (K)	20.9	5.3	2.2	1.7	1.5	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	B+T_BU 806378 - 6.625"x0.34" pipe w/ 2" SR	D	L2 1/2x2 1/2x1/4
B	L2x2x3/16	E	2L2 1/2x2 1/2x3/16x1/4
C	L2 1/2x2 1/2x3/16	F	L1 3/4x1 3/4x1/4

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

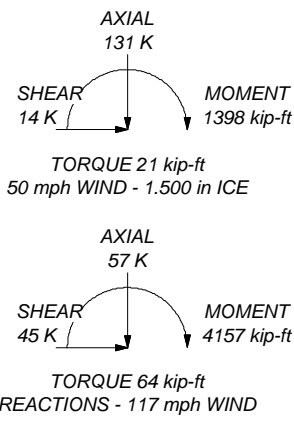
- ### TOWER DESIGN NOTES
1. Tower is located in Tolland County, Connecticut.
 2. Tower designed for Exposure C to the TIA-222-H Standard.
 3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
 4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is 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'
 8. TIA-222-H Annex S
 9. TOWER RATING: 82.8%


ALL REACTIONS
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 248 K
SHEAR: 28 K

UPLIFT: -210 K
SHEAR: 24 K



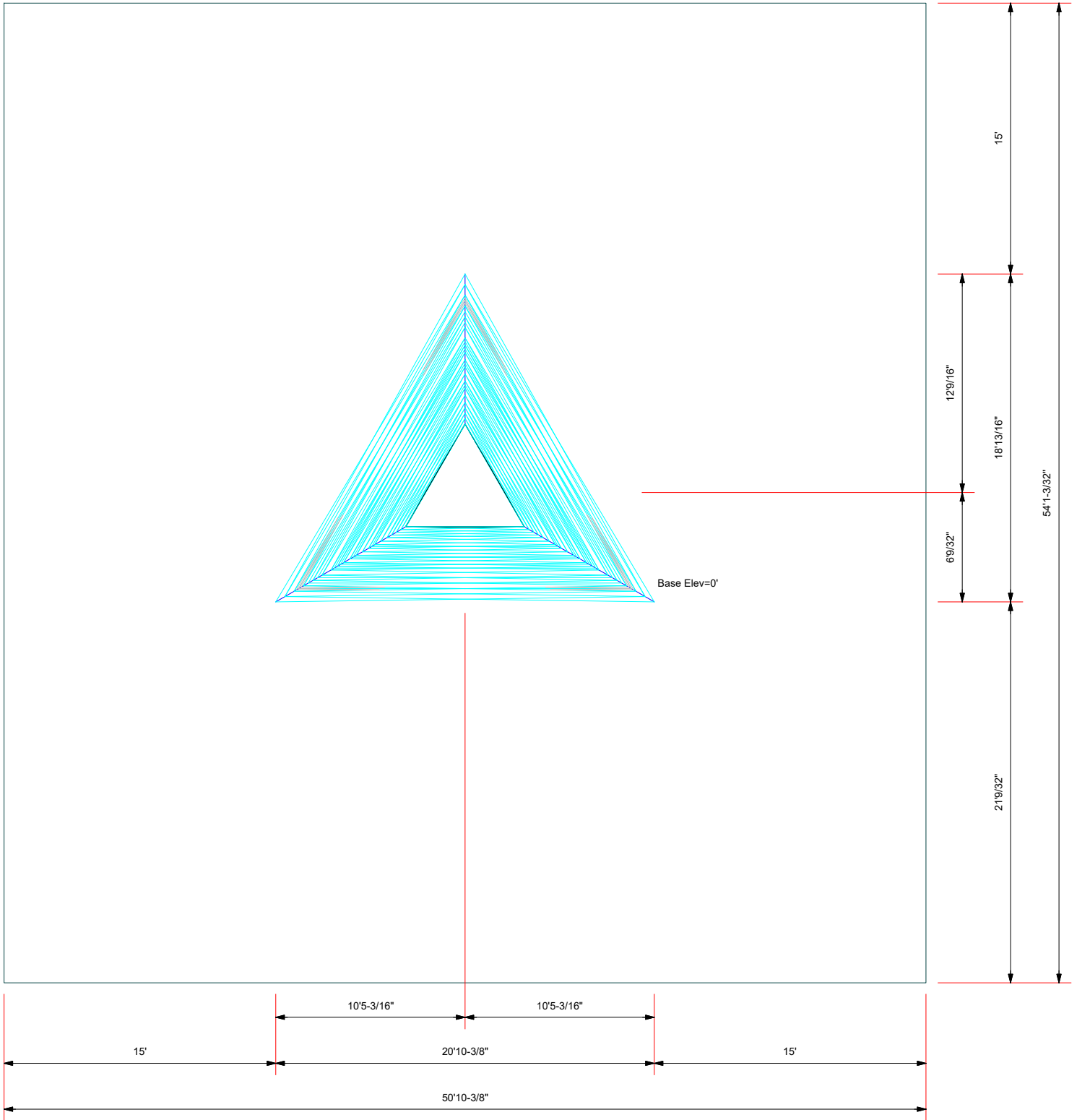



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FAX: (918) 295-0265

Job: **136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)**

Project:		Client: Crown Castle		Drawn by: Shashank.S.Rao	App'd:
Code: TIA-222-H	Date: 05/17/24	Scale: NTS		Path:	
Dwg No: E-1					

Plot Plan
Total Area - 0.06 Acres

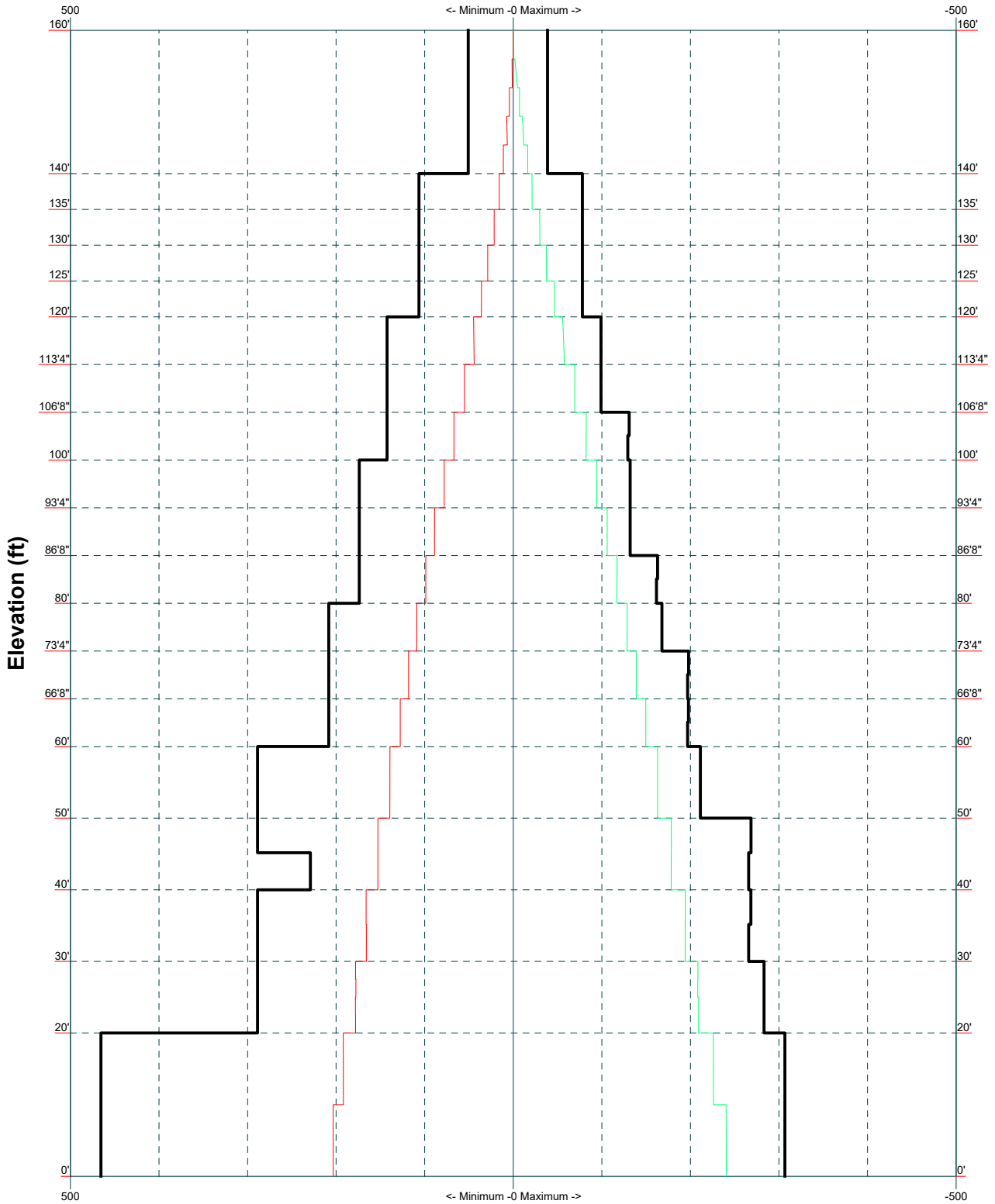



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	Project:				
	Client: Crown Castle		Drawn by: Shashank.S.Rao	App'd:	
	Code: TIA-222-H		Date: 05/17/24	Scale: NTS	
	Path:			Dwg No. E-2	

TIA-222-H - 117 mph/50 mph 1.500 in Ice Exposure C

Leg Capacity ———

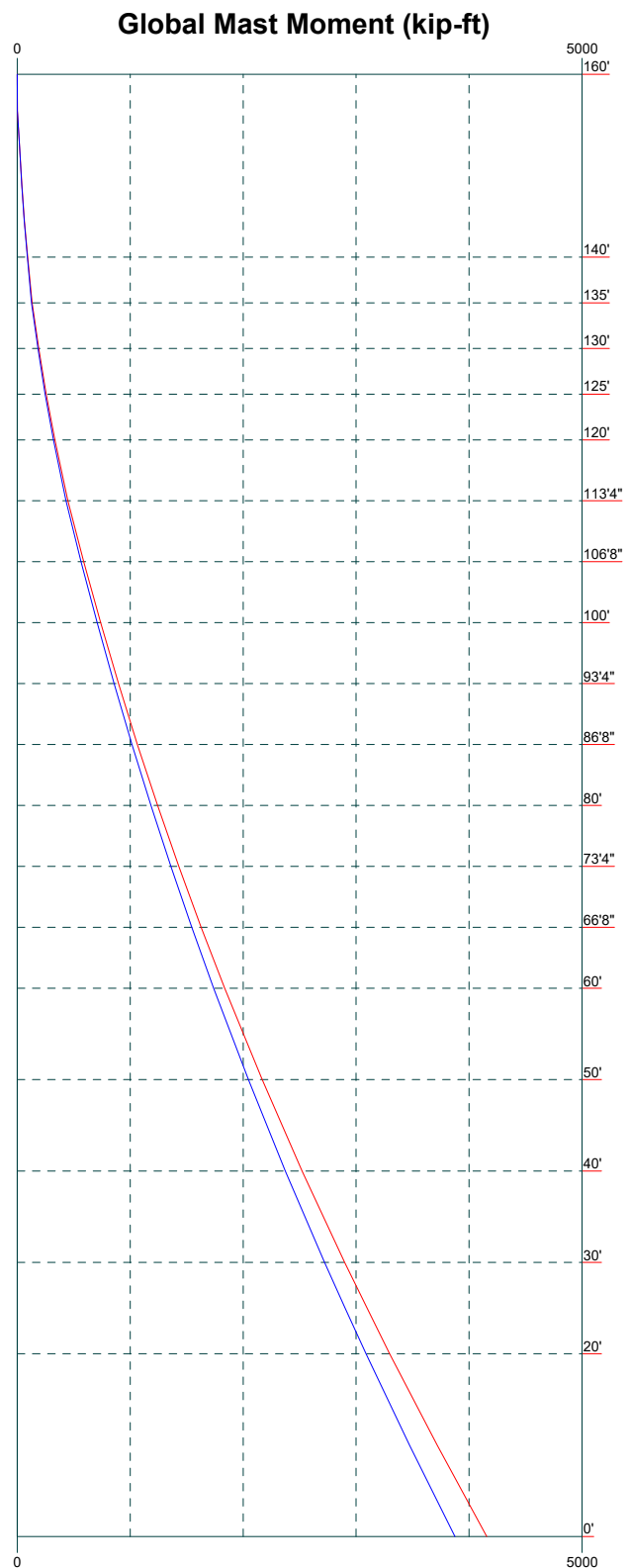
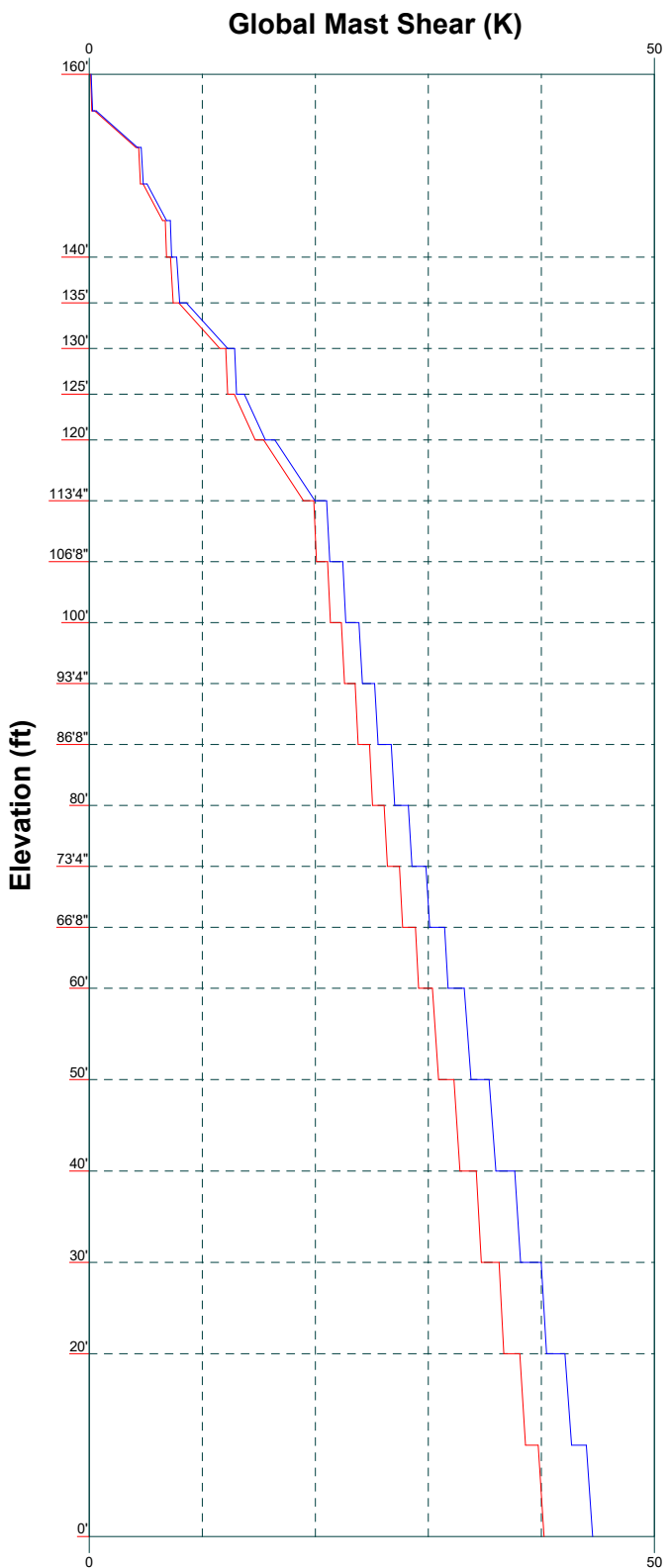
Leg Compression (K)




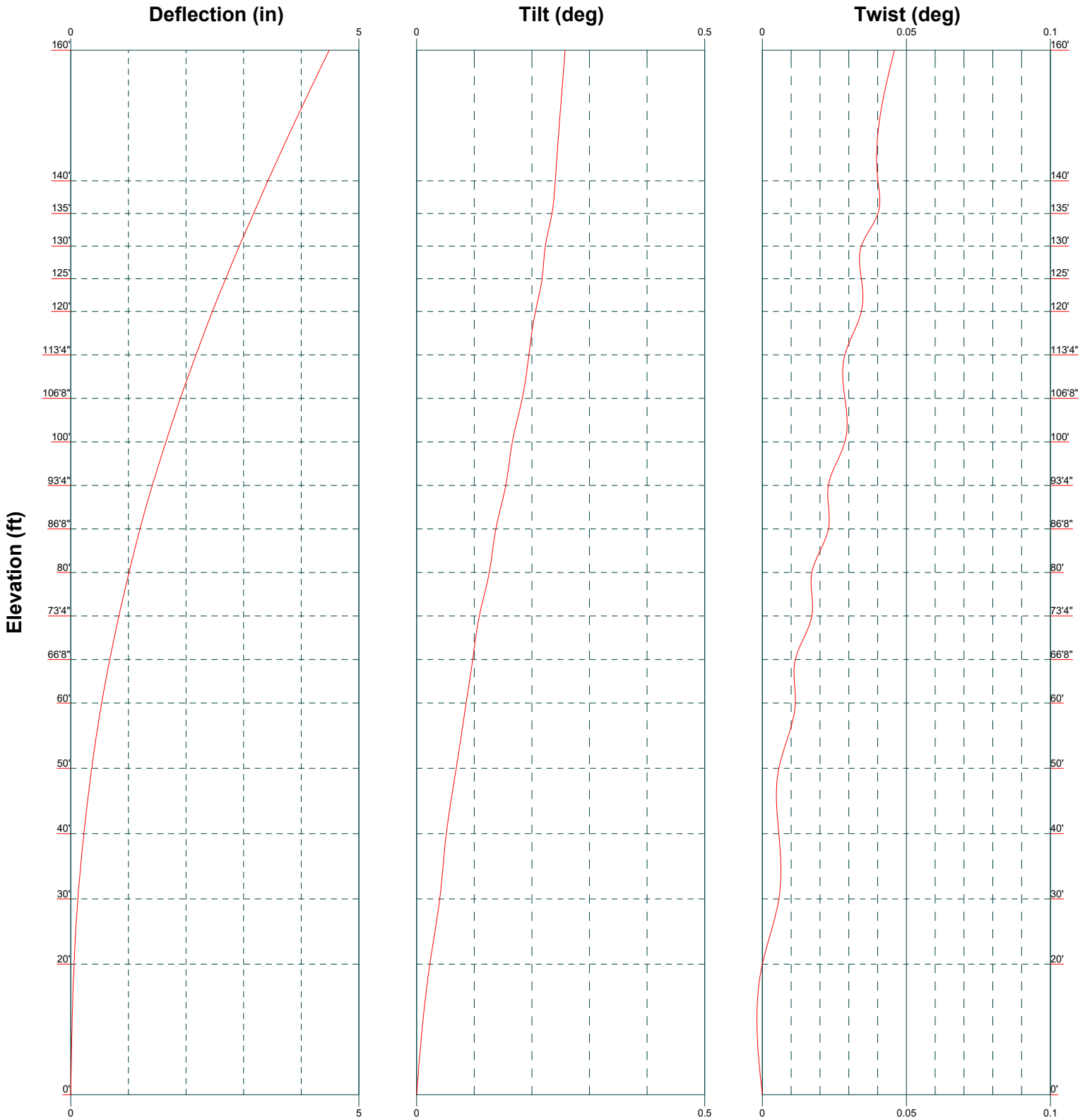
 MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job: 136290.009.01.0001 - HRT 086 943248, CT (BU# 80637)		
	Project:		
	Client: Crown Castle	Drawn by: Shashank.S.Rao	App'd:
	Code: TIA-222-H	Date: 05/17/24	Scale: NTS
	Path:	Dwg No: E-3	

Vx Vz

Mx Mz



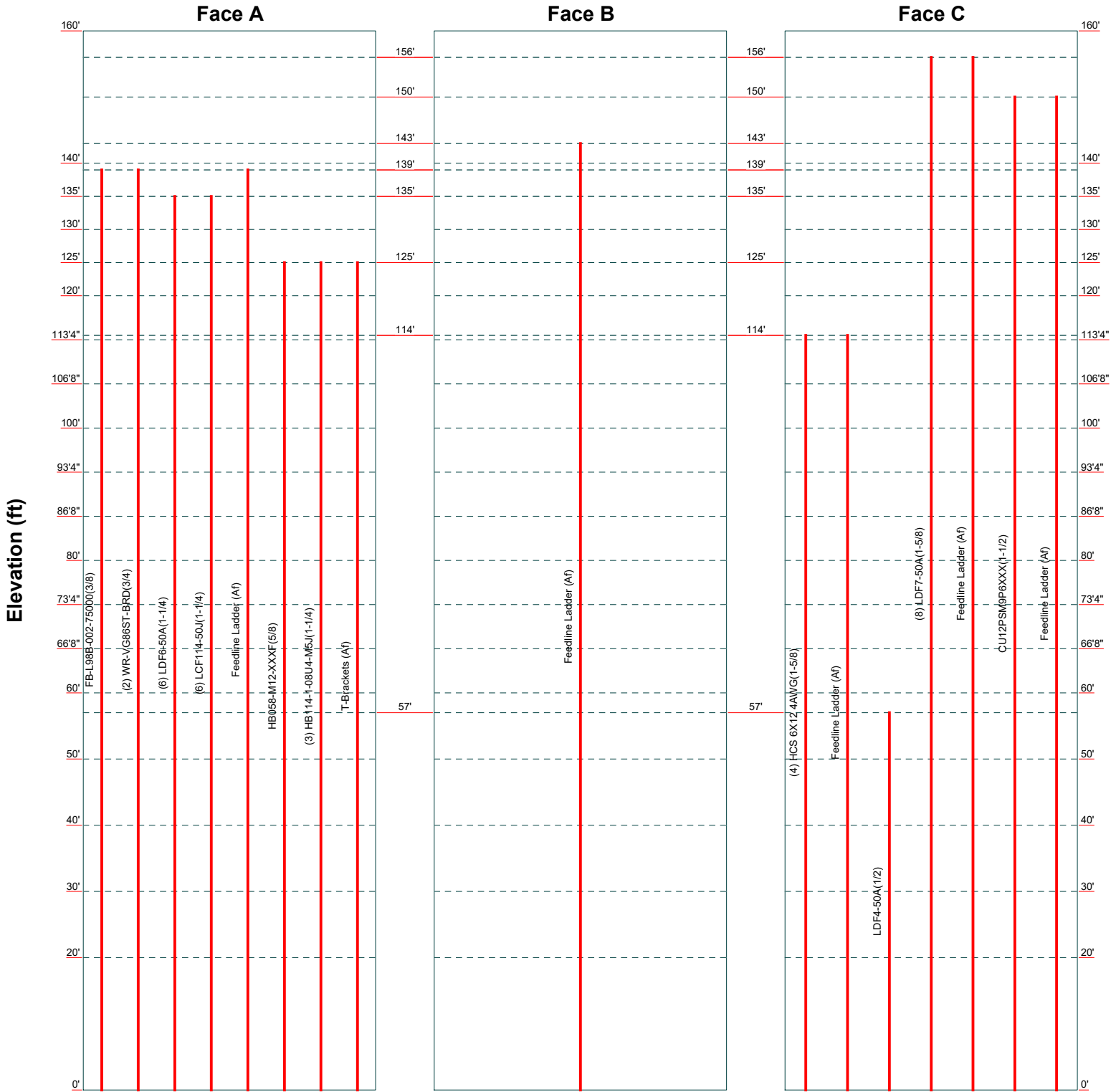
 MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job: 136290.009.01.0001 - HRT 086 943248, CT (BU# 80637)		
	Project:	Client: Crown Castle	Drawn by: Shashank.S.Rao
Code: TIA-222-H	Date: 05/17/24	Scale: NTS	
Path:	Dwg No. E-4		




Feed Line Distribution Chart

0' - 160'

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



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	Project:		
	Client: Crown Castle	Drawn by: Shashank.S.Rao	App'd:
	Code: TIA-222-H	Date: 05/17/24	Scale: NTS
	Path:	Dwg No. E-7	

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)	Page 1 of 52
	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 160' above the ground line.

The base of the tower is set at an elevation of 0' above the ground line.

The face width of the tower is 6'6-1/4" at the top and 20'10-3/8" at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in Tolland County, Connecticut.

Tower base elevation above sea level: 402'.

Basic wind speed of 117 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0'.

Nominal ice thickness of 1.500 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

TIA-222-H Annex S.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.

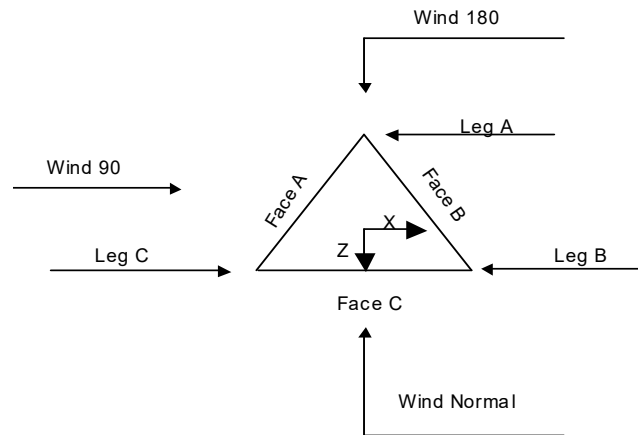
Maximum demand-capacity ratio is: 1.05.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 Appurtenances √ Alternative Appurt. EPA Calculation 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 | <ul style="list-style-type: none"> √ 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 <li style="text-align: center;">Poles 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 |
|---|---|---|

tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)	Page 2 of 52
	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	160'-140'			6'-1/4"	1	20'
T2	140'-135'			6'-3/4"	1	5'
T3	135'-130'			7'-7/8"	1	5'
T4	130'-125'			7'-7"	1	5'
T5	125'-120'			8'-1-1/8"	1	5'
T6	120'-113'4"			8'-7-1/4"	1	6'8"
T7	113'4"-106'8"			9'3-3/8"	1	6'8"
T8	106'8"-100'			9'11-1/2"	1	6'8"
T9	100'-93'4"			10'7-5/8"	1	6'8"
T10	93'4"-86'8"			11'3-25/32"	1	6'8"
T11	86'8"-80'			11'11-31/32"	1	6'8"
T12	80'-73'4"			12'8-1/8"	1	6'8"
T13	73'4"-66'8"			13'4-1/2"	1	6'8"
T14	66'8"-60'			14'7/8"	1	6'8"
T15	60'-50'			14'9-1/4"	1	10'
T16	50'-40'			15'9-1/4"	1	10'
T17	40'-30'			16'9-1/4"	1	10'
T18	30'-20'			17'9-3/4"	1	10'
T19	20'-0'			18'10-1/4"	1	20'

Tower Section Geometry (cont'd)

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)	Page 3 of 52
	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	160'-140'	4'	X Brace	No	No	0.000	0.000
T2	140'-135'	5'	X Brace	No	No	0.000	0.000
T3	135'-130'	5'	X Brace	No	No	0.000	0.000
T4	130'-125'	5'	X Brace	No	No	0.000	0.000
T5	125'-120'	5'	X Brace	No	No	0.000	0.000
T6	120'-113'4"	6'8"	X Brace	No	No	0.000	0.000
T7	113'4"-106'8"	6'8"	X Brace	No	No	0.000	0.000
T8	106'8"-100'	6'8"	X Brace	No	Yes	0.000	0.000
T9	100'-93'4"	6'8"	X Brace	No	No	0.000	0.000
T10	93'4"-86'8"	6'8"	X Brace	No	No	0.000	0.000
T11	86'8"-80'	6'8"	X Brace	No	Yes	0.000	0.000
T12	80'-73'4"	6'8"	X Brace	No	No	0.000	0.000
T13	73'4"-66'8"	6'8"	X Brace	No	Yes	0.000	0.000
T14	66'8"-60'	6'8"	X Brace	No	Yes	0.000	0.000
T15	60'-50'	10'	X Brace	No	No	0.000	0.000
T16	50'-40'	10'	X Brace	No	Yes	0.000	0.000
T17	40'-30'	10'	X Brace	No	Yes	0.000	0.000
T18	30'-20'	5'	Double K1	No	Yes	0.000	0.000
T19	20'-0'	10'	X Brace	No	No	0.000	0.000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 160'-140'	Pipe	ROHN 2 STD	A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T2 140'-135'	Pipe	ROHN 2.5 EH	A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T3 135'-130'	Pipe	ROHN 2.5 EH	A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T4 130'-125'	Pipe	ROHN 2.5 EH	A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T5 125'-120'	Pipe	ROHN 2.5 EH	A572-50 (50 ksi)	Single Angle	L2x2x3/16	A36 (36 ksi)
T6 120'-113'4"	Pipe	ROHN 3 EH	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)
T7 113'4"-106'8"	Pipe	ROHN 3 EH	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)
T8 106'8"-100'	Pipe	ROHN 3 EH	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)
T9 100'-93'4"	Pipe	ROHN 3.5 EH	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T10 93'4"-86'8"	Pipe	ROHN 3.5 EH	A572-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)
T11 86'8"-80'	Pipe	ROHN 3.5 EH	A572-50 (50 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x1/4	A36 (36 ksi)
T12 80'-73'4"	Pipe	ROHN 4 X-STR	A572-50 (50 ksi)	Single Angle	L 3x3x3/16	A36 (36 ksi)
T13 73'4"-66'8"	Pipe	ROHN 4 X-STR	A572-50 (50 ksi)	Single Angle	L 3x3x3/16	A36 (36 ksi)
T14 66'8"-60'	Pipe	ROHN 4 X-STR	A572-50 (50 ksi)	Single Angle	L 3x3x3/16	A36 (36 ksi)
T15 60'-50'	Pipe	ROHN. 5 EH	A572-50 (50 ksi)	Double Angle	2L3x3x3/16x1/4	A36 (36 ksi)
T16 50'-40'	Pipe	ROHN. 5 EH	A572-50 (50 ksi)	Double Angle	2L3x3x3/16x1/4	A36 (36 ksi)

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Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T17 40'-30'	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Double Angle	2L3x3x1/4x1/4	A572-50 (50 ksi)
T18 30'-20'	Pipe	ROHN 5 X-STR	A572-50 (50 ksi)	Double Angle	2L3x3x1/4x1/4	A572-50 (50 ksi)
T19 20'-0'	Arbitrary Shape	B+T_BU 806378 - 6.625"x0.34" pipe w/ 2" SR	A572-50 (50 ksi)	Double Angle	2L3 1/2x3 1/2x1/4x1/4	A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 160'-140'	Equal Angle	L2x2x1/8	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T2 140'-135'	Equal Angle	L2x2x1/8	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T18 30'-20'	None	Single Angle		A36 (36 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T8 106'8"-100'	Equal Angle	L1 3/4x1 3/4x1/4	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T11 86'8"-80'	Equal Angle	L2x2x3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T13 73'4"-66'8"	Equal Angle	L1 3/4x1 3/4x1/4	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T14 66'8"-60'	Equal Angle	L2x2x3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T16 50'-40'	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T17 40'-30'	Equal Angle	L3x3x1/4	A36 (36 ksi)	Single Angle		A36 (36 ksi)

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Tower Section Geometry (cont'd)

Tower Elevation	Redundant Bracing Grade	Redundant Type	Redundant Size	K Factor
<i>ft</i>				
T18 30'-20'	A36 (36 ksi)	Horizontal (1)	Equal Angle	1
	A36 (36 ksi)	Diagonal (1)	Equal Angle	1

Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	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
<i>ft</i>	<i>ft²</i>	<i>in</i>							
T1 160'-140'	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T2 140'-135'	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T3 135'-130'	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T4 130'-125'	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T5 125'-120'	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T6 120'-113'4"	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T7 113'4"-106'8"	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T8 106'8"-100'	0.000	0.188	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T9 100'-93'4"	0.000	0.500	A572-50 (50 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T10 93'4"-86'8"	0.000	0.500	A572-50 (50 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T11 86'8"-80'	0.000	0.500	A572-50 (50 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T12 80'-73'4"	0.000	0.500	A572-50 (50 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T13 73'4"-66'8"	0.000	0.500	A572-50 (50 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T14 66'8"-60'	0.000	0.500	A572-50 (50 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T15 60'-50'	0.000	0.250	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T16 50'-40'	0.000	0.250	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T17 40'-30'	0.000	0.250	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T18 30'-20'	0.000	0.250	A36 (36 ksi)	1.03	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T19 20'-0'	0.000	0.250	A36 (36 ksi)	1.1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T2 140'-135'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 135'-130'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 130'-125'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 125'-120'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 120'-113'4"	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 113'4"-106'8"	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 106'8"-100'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 100'-93'4"	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 93'4"-86'8"	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T11 86'8"-80'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T12 80'-73'4"	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T13 73'4"-66'8"	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T14 66'8"-60'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T15 60'-50'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T16 50'-40'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T17 40'-30'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T18 30'-20'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T19 20'-0'	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 160'-140'	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T2 140'-135'	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T3 135'-130'	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T4 130'-125'	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)

tnxTower

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T5 125'-120'	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T6 120'-113'4"	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T7 113'4"-106'8"	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T8 106'8"-100'	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T9 100'-93'4"	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T10 93'4"-86'8"	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T11 86'8"-80'	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T12 80'-73'4"	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T13 73'4"-66'8"	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T14 66'8"-60'	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T15 60'-50'	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T16 50'-40'	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T17 40'-30'	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T18 30'-20'	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)</p>	<p>Page 10 of 52</p>
	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T19 20'-0'	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 160'-140'	Flange	0.625 A325N	4	0.500 A325N	1	0.500 A325N	1	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T2 140'-135'	Flange	0.750 A325N	0	0.500 A325N	1	0.500 A325N	1	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T3 135'-130'	Flange	0.750 A325N	0	0.500 A325N	1	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T4 130'-125'	Flange	0.750 A325N	0	0.500 A325N	1	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T5 125'-120'	Flange	0.750 A325N	4	0.500 A325N	1	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T6 120'-113'4"	Flange	0.875 A325N	0	0.500 A325X	1	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T7 113'4"-106'8"	Flange	0.875 A325N	0	0.500 A325X	1	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T8 106'8"-100'	Flange	0.875 A325N	4	0.500 A325X	1	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	1
T9 100'-93'4"	Flange	0.875 A325N	0	0.500 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T10 93'4"-86'8"	Flange	0.875 A325N	0	0.500 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	0
T11 86'8"-80'	Flange	0.875 A325N	4	0.500 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0	0.625 A325N	0	0.625 A325N	1

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	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T12 80'-73'4"	Flange	1.000	0	0.500	0	0.625	0	0.000	0	0.625	0	0.625	0	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T13 73'4"-66'8"	Flange	1.000	0	0.500	0	0.625	0	0.000	0	0.625	0	0.625	0	0.625	1
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T14 66'8"-60'	Flange	1.000	4	0.500	0	0.625	0	0.000	0	0.625	0	0.625	0	0.625	1
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T15 60'-50'	Flange	1.000	0	0.625	1	0.625	0	0.000	0	0.625	0	0.625	0	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T16 50'-40'	Flange	1.000	4	0.625	1	0.625	0	0.000	0	0.625	0	0.625	0	0.625	1
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T17 40'-30'	Flange	1.000	0	0.625	1	0.625	0	0.000	0	0.625	0	0.625	0	0.625	1
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T18 30'-20'	Flange	1.000	6	0.625	1	0.625	0	0.000	0	0.625	0	0.625	1	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T19 20'-0'	Flange	1.000	0	0.625	1	0.625	0	0.000	0	0.625	0	0.625	0	0.625	0
		A449		A325N		A325N		A325N		A325N		A325N		A325N	

Tower Section Geometry (cont'd)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 160'-140'	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
T2 140'-135'	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
T3 135'-130'	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
T4 130'-125'	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T5 125'-120'	0.625	0 (4)	0.625	0 (4)							0.625	0 (4)	0.625	0 (4)
	A325N		A325N								A325N		A325N	
	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
T6 120'-113'4"	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
	A325N		A325N								A325N		A325N	
	0.625	0 (4)	0.625	0 (4)							0.625	0 (4)	0.625	0 (4)
	A325N		A325N								A325N		A325N	
T7 113'4"-106'8"	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
T8 106'8"-100'	A325N		A325N								A325N		A325N	
	0.625	0 (4)	0.625	0 (4)							0.625	0 (4)	0.625	0 (4)
	A325N		A325N								A325N		A325N	
	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T9 100'-93'4"	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
	A325N		A325N								A325N		A325N	
	0.625	0 (4)	0.625	0 (4)							0.625	0 (4)	0.625	0 (4)
T10 93'4"-86'8"	A325N		A325N								A325N		A325N	
	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
T11 86'8"-80'	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
	A325N		A325N								A325N		A325N	
	0.625	0 (4)	0.625	0 (4)							0.625	0 (4)	0.625	0 (4)
	A325N		A325N								A325N		A325N	
	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
T11 86'8"-80'	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)
	A325N		A325N								A325N		A325N	
	0.625	0 (3)	0.625	0 (3)							0.625	0 (3)	0.625	0 (3)
	A325N		A325N								A325N		A325N	
T11 86'8"-80'	0.625	0 (4)	0.625	0 (4)							0.625	0 (4)	0.625	0 (4)
	A325N		A325N								A325N		A325N	
	0.625	0 (1)	0.625	0 (1)	0.625	0	0.625	0	0.625	0	0.625	0 (1)	0.625	0 (1)
	A325N		A325N		A325N		A325N		A325N		A325N		A325N	
	0.625	0 (2)	0.625	0 (2)							0.625	0 (2)	0.625	0 (2)

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	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

0.625 A325N	0 (2)	0.625 A325N	0 (2)			0.625 A325N	0 (2)	0.625 A325N	0 (2)
0.625 A325N	0 (3)	0.625 A325N	0 (3)			0.625 A325N	0 (3)	0.625 A325N	0 (3)
0.625 A325N	0 (4)	0.625 A325N	0 (4)			0.625 A325N	0 (4)	0.625 A325N	0 (4)

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
HCS 6X12 4AWG(1-5/8)	C	No	No	Ar (CaAa)	114' - 0'	0.000	-0.35	4	4	0.850	1.660		0.002
Feedline Ladder (Af)	C	No	No	Af (CaAa)	114' - 0'	0.000	-0.37	1	1	3.000	3.000		0.008
* LDF4-50A(1/2)	C	No	No	Ar (CaAa)	57' - 0'	0.000	0.39	1	1	0.500	0.630		0.000
LDF7-50A(1-5/8)	C	No	No	Ar (CaAa)	156' - 0'	0.000	0.35	8	6	0.850	1.980		0.001
Feedline Ladder (Af)	C	No	No	Af (CaAa)	156' - 0'	0.000	0.37	1	1	3.000	3.000		0.008
* FB-L98B-002-75000(3/8)	A	No	No	Ar (CaAa)	139' - 0'	0.000	-0.4	1	1	0.500	0.394		0.000
WR-VG86ST-BRD(3/4)	A	No	No	Ar (CaAa)	139' - 0'	0.000	-0.4	2	2	0.850	0.795		0.001
LDF6-50A(1-1/4)	A	No	No	Ar (CaAa)	135' - 0'	0.000	-0.42	6	3	0.850	1.550		0.001
LCF114-50J(1-1/4)	A	No	No	Ar (CaAa)	135' - 0'	0.000	-0.37	6	3	0.850	1.580		0.001
Feedline Ladder (Af)	A	No	No	Af (CaAa)	139' - 0'	0.000	-0.385	1	1	3.000	3.000		0.008
* HB058-M12-XXXXF(5/8)	A	No	No	Ar (CaAa)	125' - 0'	0.000	-0.32	1	1	0.500	0.840		0.000
HB114-1-08U 4-M5J(1-1/4)	A	No	No	Ar (CaAa)	125' - 0'	0.000	-0.32	3	3	0.850	1.540		0.001
T-Brackets (Af)	A	No	No	Af (CaAa)	125' - 0'	0.000	-0.32	1	1	1.000	1.000		0.008
* CU12PSM9P6 XXX(1-1/2)	C	No	No	Ar (CaAa)	150' - 0'	0.000	0.25	1	1	0.850	1.600		0.002
Feedline Ladder (Af)	C	No	No	Af (CaAa)	150' - 0'	0.000	0.25	1	1	3.000	3.000		0.008
* Feedline Ladder (Af)	B	No	No	Af (CaAa)	143' - 0'	0.000	0.4	1	1	3.000	3.000		0.008

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	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao

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 klf
*								

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
T1	160'-140'	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	1.500	0.000	0.025
		C	0.000	0.000	39.944	0.000	0.347
T2	140'-135'	A	0.000	0.000	2.793	0.000	0.039
		B	0.000	0.000	2.500	0.000	0.042
		C	0.000	0.000	13.720	0.000	0.129
T3	135'-130'	A	0.000	0.000	12.882	0.000	0.087
		B	0.000	0.000	2.500	0.000	0.042
		C	0.000	0.000	13.720	0.000	0.129
T4	130'-125'	A	0.000	0.000	12.882	0.000	0.087
		B	0.000	0.000	2.500	0.000	0.042
		C	0.000	0.000	13.720	0.000	0.129
T5	125'-120'	A	0.000	0.000	16.445	0.000	0.147
		B	0.000	0.000	2.500	0.000	0.042
		C	0.000	0.000	13.720	0.000	0.129
T6	120'-113'4"	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	19.069	0.000	0.183
T7	113'4"-106'8"	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T8	106'8"-100'	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T9	100'-93'4"	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T10	93'4"-86'8"	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T11	86'8"-80'	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T12	80'-73'4"	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T13	73'4"-66'8"	A	0.000	0.000	21.927	0.000	0.195
		B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
T14	66'8"-60'	A	0.000	0.000	21.927	0.000	0.195

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)</p>	<p>Page 16 of 52</p>
	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

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
T15	60'-50'	B	0.000	0.000	3.333	0.000	0.056
		C	0.000	0.000	26.053	0.000	0.291
		A	0.000	0.000	32.890	0.000	0.293
T16	50'-40'	B	0.000	0.000	5.000	0.000	0.084
		C	0.000	0.000	39.521	0.000	0.438
		A	0.000	0.000	32.890	0.000	0.293
T17	40'-30'	B	0.000	0.000	5.000	0.000	0.084
		C	0.000	0.000	39.710	0.000	0.439
		A	0.000	0.000	32.890	0.000	0.293
T18	30'-20'	B	0.000	0.000	5.000	0.000	0.084
		C	0.000	0.000	39.710	0.000	0.439
		A	0.000	0.000	32.890	0.000	0.293
T19	20'-0'	B	0.000	0.000	5.000	0.000	0.084
		C	0.000	0.000	39.710	0.000	0.439
		A	0.000	0.000	65.781	0.000	0.586
		B	0.000	0.000	10.000	0.000	0.168
		C	0.000	0.000	79.420	0.000	0.877

Feed Line/Linear Appurtenances Section Areas - With Ice

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
T1	160'-140'	A	1.483	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	2.390	0.000	0.056
		C		0.000	0.000	66.445	0.000	1.191
T2	140'-135'	A	1.471	0.000	0.000	7.786	0.000	0.117
		B		0.000	0.000	3.971	0.000	0.092
		C		0.000	0.000	23.055	0.000	0.419
T3	135'-130'	A	1.465	0.000	0.000	24.146	0.000	0.370
		B		0.000	0.000	3.965	0.000	0.092
		C		0.000	0.000	23.030	0.000	0.418
T4	130'-125'	A	1.460	0.000	0.000	24.106	0.000	0.369
		B		0.000	0.000	3.960	0.000	0.092
		C		0.000	0.000	23.004	0.000	0.417
T5	125'-120'	A	1.454	0.000	0.000	34.626	0.000	0.535
		B		0.000	0.000	3.954	0.000	0.091
		C		0.000	0.000	22.977	0.000	0.416
T6	120'-113'4"	A	1.447	0.000	0.000	46.065	0.000	0.711
		B		0.000	0.000	5.262	0.000	0.122
		C		0.000	0.000	32.194	0.000	0.582
T7	113'4"-106'8"	A	1.438	0.000	0.000	45.942	0.000	0.707
		B		0.000	0.000	5.251	0.000	0.121
		C		0.000	0.000	46.533	0.000	0.843
T8	106'8"-100'	A	1.429	0.000	0.000	45.812	0.000	0.704
		B		0.000	0.000	5.239	0.000	0.121
		C		0.000	0.000	46.446	0.000	0.839
T9	100'-93'4"	A	1.420	0.000	0.000	45.674	0.000	0.700
		B		0.000	0.000	5.226	0.000	0.120
		C		0.000	0.000	46.355	0.000	0.835
T10	93'4"-86'8"	A	1.410	0.000	0.000	45.527	0.000	0.696
		B		0.000	0.000	5.213	0.000	0.119
		C		0.000	0.000	46.257	0.000	0.831
T11	86'8"-80'	A	1.399	0.000	0.000	45.370	0.000	0.692
		B		0.000	0.000	5.198	0.000	0.119
		C		0.000	0.000	46.153	0.000	0.827
T12	80'-73'4"	A	1.387	0.000	0.000	45.201	0.000	0.687
		B		0.000	0.000	5.183	0.000	0.118

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	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao

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
T13	73'4"-66'8"	C	1.375	0.000	0.000	46.041	0.000	0.822
		A		0.000	0.000	45.019	0.000	0.682
		B		0.000	0.000	5.166	0.000	0.117
T14	66'8"-60'	C	1.361	0.000	0.000	45.920	0.000	0.817
		A		0.000	0.000	44.820	0.000	0.677
		B		0.000	0.000	5.148	0.000	0.117
T15	60'-50'	C	1.342	0.000	0.000	45.788	0.000	0.811
		A		0.000	0.000	66.815	0.000	1.004
		B		0.000	0.000	7.684	0.000	0.173
T16	50'-40'	C	1.315	0.000	0.000	70.726	0.000	1.229
		A		0.000	0.000	66.234	0.000	0.989
		B		0.000	0.000	7.630	0.000	0.171
T17	40'-30'	C	1.283	0.000	0.000	71.282	0.000	1.222
		A		0.000	0.000	65.523	0.000	0.970
		B		0.000	0.000	7.565	0.000	0.168
T18	30'-20'	C	1.240	0.000	0.000	70.745	0.000	1.201
		A		0.000	0.000	64.600	0.000	0.946
		B		0.000	0.000	7.480	0.000	0.165
T19	20'-0'	C	1.132	0.000	0.000	70.048	0.000	1.174
		A		0.000	0.000	124.479	0.000	1.773
		B		0.000	0.000	14.526	0.000	0.311
		C		0.000	0.000	136.532	0.000	2.214

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
T1	160'-140'	-8.115	5.796	-8.068	6.108
T2	140'-135'	-9.089	8.129	-10.062	9.105
T3	135'-130'	-15.237	11.057	-15.942	11.630
T4	130'-125'	-15.995	11.617	-16.750	12.219
T5	125'-120'	-17.584	11.815	-19.446	12.632
T6	120'-113'4"	-17.365	12.187	-19.752	13.523
T7	113'4"-106'8"	-13.315	14.026	-14.479	15.632
T8	106'8"-100'	-12.954	13.676	-14.290	15.400
T9	100'-93'4"	-14.486	15.242	-15.854	17.107
T10	93'4"-86'8"	-15.093	15.890	-16.554	17.867
T11	86'8"-80'	-14.212	15.001	-15.919	17.155
T12	80'-73'4"	-15.216	16.027	-17.262	18.657
T13	73'4"-66'8"	-14.432	15.236	-16.574	17.876
T14	66'8"-60'	-14.648	15.475	-16.957	18.301
T15	60'-50'	-18.594	19.445	-20.943	22.394
T16	50'-40'	-17.542	18.378	-20.394	21.728
T17	40'-30'	-17.795	18.659	-20.912	22.316
T18	30'-20'	-15.802	16.628	-18.988	20.232
T19	20'-0'	-20.034	20.884	-22.889	24.443

Shielding Factor Ka

tnxTower

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Job
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Project
Date
20:22:55 05/17/24

Client
Crown Castle
Designed by
Shashank.S.Rao

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	7	LDF7-50A(1-5/8)	140.00 - 156.00	0.6000	0.6000
T1	9	Feedline Ladder (Af)	140.00 - 156.00	0.6000	0.6000
T1	23	CU12PSM9P6XXX(1-1/2)	140.00 - 150.00	0.6000	0.6000
T1	24	Feedline Ladder (Af)	140.00 - 150.00	0.6000	0.6000
T1	28	Feedline Ladder (Af)	140.00 - 143.00	0.6000	0.6000
T2	7	LDF7-50A(1-5/8)	135.00 - 140.00	0.6000	0.6000
T2	9	Feedline Ladder (Af)	135.00 - 140.00	0.6000	0.6000
T2	13	FB-L98B-002-75000(3/8)	135.00 - 139.00	0.6000	0.6000
T2	14	WR-VG86ST-BRD(3/4)	135.00 - 139.00	0.6000	0.6000
T2	17	Feedline Ladder (Af)	135.00 - 139.00	0.6000	0.6000
T2	23	CU12PSM9P6XXX(1-1/2)	135.00 - 140.00	0.6000	0.6000
T2	24	Feedline Ladder (Af)	135.00 - 140.00	0.6000	0.6000
T2	28	Feedline Ladder (Af)	135.00 - 140.00	0.6000	0.6000
T3	7	LDF7-50A(1-5/8)	130.00 - 135.00	0.6000	0.6000
T3	9	Feedline Ladder (Af)	130.00 - 135.00	0.6000	0.6000
T3	13	FB-L98B-002-75000(3/8)	130.00 - 135.00	0.6000	0.6000
T3	14	WR-VG86ST-BRD(3/4)	130.00 - 135.00	0.6000	0.6000
T3	15	LDF6-50A(1-1/4)	130.00 - 135.00	0.6000	0.6000
T3	16	LCF114-50J(1-1/4)	130.00 - 135.00	0.6000	0.6000
T3	17	Feedline Ladder (Af)	130.00 - 135.00	0.6000	0.6000
T3	23	CU12PSM9P6XXX(1-1/2)	130.00 - 135.00	0.6000	0.6000
T3	24	Feedline Ladder (Af)	130.00 - 135.00	0.6000	0.6000
T3	28	Feedline Ladder (Af)	130.00 - 135.00	0.6000	0.6000
T4	7	LDF7-50A(1-5/8)	125.00 - 130.00	0.6000	0.6000
T4	9	Feedline Ladder (Af)	125.00 - 130.00	0.6000	0.6000
T4	13	FB-L98B-002-75000(3/8)	125.00 - 130.00	0.6000	0.6000
T4	14	WR-VG86ST-BRD(3/4)	125.00 - 130.00	0.6000	0.6000
T4	15	LDF6-50A(1-1/4)	125.00 - 130.00	0.6000	0.6000
T4	16	LCF114-50J(1-1/4)	125.00 - 130.00	0.6000	0.6000
T4	17	Feedline Ladder (Af)	125.00 - 130.00	0.6000	0.6000
T4	23	CU12PSM9P6XXX(1-1/2)	125.00 - 130.00	0.6000	0.6000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)</p>	<p>Page 19 of 52</p>
	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T4	24	Feedline Ladder (Af)	125.00 - 130.00	0.6000	0.6000
T4	28	Feedline Ladder (Af)	125.00 - 130.00	0.6000	0.6000
T5	7	LDF7-50A(1-5/8)	120.00 - 125.00	0.6000	0.6000
T5	9	Feedline Ladder (Af)	120.00 - 125.00	0.6000	0.6000
T5	13	FB-L98B-002-75000(3/8)	120.00 - 125.00	0.6000	0.6000
T5	14	WR-VG86ST-BRD(3/4)	120.00 - 125.00	0.6000	0.6000
T5	15	LDF6-50A(1-1/4)	120.00 - 125.00	0.6000	0.6000
T5	16	LCF114-50J(1-1/4)	120.00 - 125.00	0.6000	0.6000
T5	17	Feedline Ladder (Af)	120.00 - 125.00	0.6000	0.6000
T5	19	HB058-M12-XXXF(5/8)	120.00 - 125.00	0.6000	0.6000
T5	20	HB114-1-08U4-M5J(1-1/4)	120.00 - 125.00	0.6000	0.6000
T5	21	T-Brackets (Af)	120.00 - 125.00	0.6000	0.6000
T5	23	CU12PSM9P6XXX(1-1/2)	120.00 - 125.00	0.6000	0.6000
T5	24	Feedline Ladder (Af)	120.00 - 125.00	0.6000	0.6000
T5	28	Feedline Ladder (Af)	120.00 - 125.00	0.6000	0.6000
T6	1	HCS 6X12 4AWG(1-5/8)	113.33 - 114.00	0.6000	0.6000
T6	3	Feedline Ladder (Af)	113.33 - 114.00	0.6000	0.6000
T6	7	LDF7-50A(1-5/8)	113.33 - 120.00	0.6000	0.6000
T6	9	Feedline Ladder (Af)	113.33 - 120.00	0.6000	0.6000
T6	13	FB-L98B-002-75000(3/8)	113.33 - 120.00	0.6000	0.6000
T6	14	WR-VG86ST-BRD(3/4)	113.33 - 120.00	0.6000	0.6000
T6	15	LDF6-50A(1-1/4)	113.33 - 120.00	0.6000	0.6000
T6	16	LCF114-50J(1-1/4)	113.33 - 120.00	0.6000	0.6000
T6	17	Feedline Ladder (Af)	113.33 - 120.00	0.6000	0.6000
T6	19	HB058-M12-XXXF(5/8)	113.33 - 120.00	0.6000	0.6000
T6	20	HB114-1-08U4-M5J(1-1/4)	113.33 - 120.00	0.6000	0.6000
T6	21	T-Brackets (Af)	113.33 - 120.00	0.6000	0.6000
T6	23	CU12PSM9P6XXX(1-1/2)	113.33 - 120.00	0.6000	0.6000
T6	24	Feedline Ladder (Af)	113.33 - 120.00	0.6000	0.6000
T6	28	Feedline Ladder (Af)	113.33 - 120.00	0.6000	0.6000
T7	1	HCS 6X12 4AWG(1-5/8)	106.67 - 113.33	0.6000	0.6000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)</p>	<p>Page 20 of 52</p>
	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T7	3	Feedline Ladder (Af)	106.67 - 113.33	0.6000	0.6000
T7	7	LDF7-50A(1-5/8)	106.67 - 113.33	0.6000	0.6000
T7	9	Feedline Ladder (Af)	106.67 - 113.33	0.6000	0.6000
T7	13	FB-L98B-002-75000(3/8)	106.67 - 113.33	0.6000	0.6000
T7	14	WR-VG86ST-BRD(3/4)	106.67 - 113.33	0.6000	0.6000
T7	15	LDF6-50A(1-1/4)	106.67 - 113.33	0.6000	0.6000
T7	16	LCF114-50J(1-1/4)	106.67 - 113.33	0.6000	0.6000
T7	17	Feedline Ladder (Af)	106.67 - 113.33	0.6000	0.6000
T7	19	HB058-M12-XXXF(5/8)	106.67 - 113.33	0.6000	0.6000
T7	20	HB114-1-08U4-M5J(1-1/4)	106.67 - 113.33	0.6000	0.6000
T7	21	T-Brackets (Af)	106.67 - 113.33	0.6000	0.6000
T7	23	CU12PSM9P6XXX(1-1/2)	106.67 - 113.33	0.6000	0.6000
T7	24	Feedline Ladder (Af)	106.67 - 113.33	0.6000	0.6000
T7	28	Feedline Ladder (Af)	106.67 - 113.33	0.6000	0.6000
T8	1	HCS 6X12 4AWG(1-5/8)	100.00 - 106.67	0.6000	0.6000
T8	3	Feedline Ladder (Af)	100.00 - 106.67	0.6000	0.6000
T8	7	LDF7-50A(1-5/8)	100.00 - 106.67	0.6000	0.6000
T8	9	Feedline Ladder (Af)	100.00 - 106.67	0.6000	0.6000
T8	13	FB-L98B-002-75000(3/8)	100.00 - 106.67	0.6000	0.6000
T8	14	WR-VG86ST-BRD(3/4)	100.00 - 106.67	0.6000	0.6000
T8	15	LDF6-50A(1-1/4)	100.00 - 106.67	0.6000	0.6000
T8	16	LCF114-50J(1-1/4)	100.00 - 106.67	0.6000	0.6000
T8	17	Feedline Ladder (Af)	100.00 - 106.67	0.6000	0.6000
T8	19	HB058-M12-XXXF(5/8)	100.00 - 106.67	0.6000	0.6000
T8	20	HB114-1-08U4-M5J(1-1/4)	100.00 - 106.67	0.6000	0.6000
T8	21	T-Brackets (Af)	100.00 - 106.67	0.6000	0.6000
T8	23	CU12PSM9P6XXX(1-1/2)	100.00 - 106.67	0.6000	0.6000
T8	24	Feedline Ladder (Af)	100.00 - 106.67	0.6000	0.6000
T8	28	Feedline Ladder (Af)	100.00 - 106.67	0.6000	0.6000
T9	1	HCS 6X12 4AWG(1-5/8)	93.33 - 100.00	0.6000	0.6000
T9	3	Feedline Ladder (Af)	93.33 - 100.00	0.6000	0.6000
T9	7	LDF7-50A(1-5/8)	93.33 - 100.00	0.6000	0.6000
T9	9	Feedline Ladder (Af)	93.33 - 100.00	0.6000	0.6000

tnxTower

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Job

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Project

Date

20:22:55 05/17/24

Client

Crown Castle

Designed by

Shashank.S.Rao

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	13	FB-L98B-002-75000(3/8)	93.33 - 100.00	0.6000	0.6000
T9	14	WR-VG86ST-BRD(3/4)	93.33 - 100.00	0.6000	0.6000
T9	15	LDF6-50A(1-1/4)	93.33 - 100.00	0.6000	0.6000
T9	16	LCF114-50J(1-1/4)	93.33 - 100.00	0.6000	0.6000
T9	17	Feedline Ladder (Af)	93.33 - 100.00	0.6000	0.6000
T9	19	HB058-M12-XXXF(5/8)	93.33 - 100.00	0.6000	0.6000
T9	20	HB114-1-08U4-M5J(1-1/4)	93.33 - 100.00	0.6000	0.6000
T9	21	T-Brackets (Af)	93.33 - 100.00	0.6000	0.6000
T9	23	CU12PSM9P6XXX(1-1/2)	93.33 - 100.00	0.6000	0.6000
T9	24	Feedline Ladder (Af)	93.33 - 100.00	0.6000	0.6000
T9	28	Feedline Ladder (Af)	93.33 - 100.00	0.6000	0.6000
T10	1	HCS 6X12 4AWG(1-5/8)	86.67 - 93.33	0.6000	0.6000
T10	3	Feedline Ladder (Af)	86.67 - 93.33	0.6000	0.6000
T10	7	LDF7-50A(1-5/8)	86.67 - 93.33	0.6000	0.6000
T10	9	Feedline Ladder (Af)	86.67 - 93.33	0.6000	0.6000
T10	13	FB-L98B-002-75000(3/8)	86.67 - 93.33	0.6000	0.6000
T10	14	WR-VG86ST-BRD(3/4)	86.67 - 93.33	0.6000	0.6000
T10	15	LDF6-50A(1-1/4)	86.67 - 93.33	0.6000	0.6000
T10	16	LCF114-50J(1-1/4)	86.67 - 93.33	0.6000	0.6000
T10	17	Feedline Ladder (Af)	86.67 - 93.33	0.6000	0.6000
T10	19	HB058-M12-XXXF(5/8)	86.67 - 93.33	0.6000	0.6000
T10	20	HB114-1-08U4-M5J(1-1/4)	86.67 - 93.33	0.6000	0.6000
T10	21	T-Brackets (Af)	86.67 - 93.33	0.6000	0.6000
T10	23	CU12PSM9P6XXX(1-1/2)	86.67 - 93.33	0.6000	0.6000
T10	24	Feedline Ladder (Af)	86.67 - 93.33	0.6000	0.6000
T10	28	Feedline Ladder (Af)	86.67 - 93.33	0.6000	0.6000
T11	1	HCS 6X12 4AWG(1-5/8)	80.00 - 86.67	0.6000	0.6000
T11	3	Feedline Ladder (Af)	80.00 - 86.67	0.6000	0.6000
T11	7	LDF7-50A(1-5/8)	80.00 - 86.67	0.6000	0.6000
T11	9	Feedline Ladder (Af)	80.00 - 86.67	0.6000	0.6000
T11	13	FB-L98B-002-75000(3/8)	80.00 - 86.67	0.6000	0.6000
T11	14	WR-VG86ST-BRD(3/4)	80.00 - 86.67	0.6000	0.6000
T11	15	LDF6-50A(1-1/4)	80.00 - 86.67	0.6000	0.6000
T11	16	LCF114-50J(1-1/4)	80.00 - 86.67	0.6000	0.6000
T11	17	Feedline Ladder (Af)	80.00 - 86.67	0.6000	0.6000
T11	19	HB058-M12-XXXF(5/8)	80.00 - 86.67	0.6000	0.6000
T11	20	HB114-1-08U4-M5J(1-1/4)	80.00 - 86.67	0.6000	0.6000
T11	21	T-Brackets (Af)	80.00 - 86.67	0.6000	0.6000
T11	23	CU12PSM9P6XXX(1-1/2)	80.00 - 86.67	0.6000	0.6000
T11	24	Feedline Ladder (Af)	80.00 - 86.67	0.6000	0.6000
T11	28	Feedline Ladder (Af)	80.00 - 86.67	0.6000	0.6000
T12	1	HCS 6X12 4AWG(1-5/8)	73.33 - 80.00	0.6000	0.6000
T12	3	Feedline Ladder (Af)	73.33 - 80.00	0.6000	0.6000
T12	7	LDF7-50A(1-5/8)	73.33 - 80.00	0.6000	0.6000
T12	9	Feedline Ladder (Af)	73.33 - 80.00	0.6000	0.6000
T12	13	FB-L98B-002-75000(3/8)	73.33 - 80.00	0.6000	0.6000
T12	14	WR-VG86ST-BRD(3/4)	73.33 - 80.00	0.6000	0.6000
T12	15	LDF6-50A(1-1/4)	73.33 - 80.00	0.6000	0.6000
T12	16	LCF114-50J(1-1/4)	73.33 - 80.00	0.6000	0.6000
T12	17	Feedline Ladder (Af)	73.33 - 80.00	0.6000	0.6000
T12	19	HB058-M12-XXXF(5/8)	73.33 - 80.00	0.6000	0.6000
T12	20	HB114-1-08U4-M5J(1-1/4)	73.33 - 80.00	0.6000	0.6000
T12	21	T-Brackets (Af)	73.33 - 80.00	0.6000	0.6000
T12	23	CU12PSM9P6XXX(1-1/2)	73.33 - 80.00	0.6000	0.6000
T12	24	Feedline Ladder (Af)	73.33 - 80.00	0.6000	0.6000
T12	28	Feedline Ladder (Af)	73.33 - 80.00	0.6000	0.6000
T13	1	HCS 6X12 4AWG(1-5/8)	66.67 - 73.33	0.6000	0.6000
T13	3	Feedline Ladder (Af)	66.67 - 73.33	0.6000	0.6000
T13	7	LDF7-50A(1-5/8)	66.67 - 73.33	0.6000	0.6000
T13	9	Feedline Ladder (Af)	66.67 - 73.33	0.6000	0.6000
T13	13	FB-L98B-002-75000(3/8)	66.67 - 73.33	0.6000	0.6000
T13	14	WR-VG86ST-BRD(3/4)	66.67 - 73.33	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T13	15	LDF6-50A(1-1/4)	66.67 - 73.33	0.6000	0.6000
T13	16	LCF114-50J(1-1/4)	66.67 - 73.33	0.6000	0.6000
T13	17	Feedline Ladder (Af)	66.67 - 73.33	0.6000	0.6000
T13	19	HB058-M12-XXXF(5/8)	66.67 - 73.33	0.6000	0.6000
T13	20	HB114-1-08U4-M5J(1-1/4)	66.67 - 73.33	0.6000	0.6000
T13	21	T-Brackets (Af)	66.67 - 73.33	0.6000	0.6000
T13	23	CU12PSM9P6XXX(1-1/2)	66.67 - 73.33	0.6000	0.6000
T13	24	Feedline Ladder (Af)	66.67 - 73.33	0.6000	0.6000
T13	28	Feedline Ladder (Af)	66.67 - 73.33	0.6000	0.6000
T14	1	HCS 6X12 4AWG(1-5/8)	60.00 - 66.67	0.6000	0.6000
T14	3	Feedline Ladder (Af)	60.00 - 66.67	0.6000	0.6000
T14	7	LDF7-50A(1-5/8)	60.00 - 66.67	0.6000	0.6000
T14	9	Feedline Ladder (Af)	60.00 - 66.67	0.6000	0.6000
T14	13	FB-L98B-002-75000(3/8)	60.00 - 66.67	0.6000	0.6000
T14	14	WR-VG86ST-BRD(3/4)	60.00 - 66.67	0.6000	0.6000
T14	15	LDF6-50A(1-1/4)	60.00 - 66.67	0.6000	0.6000
T14	16	LCF114-50J(1-1/4)	60.00 - 66.67	0.6000	0.6000
T14	17	Feedline Ladder (Af)	60.00 - 66.67	0.6000	0.6000
T14	19	HB058-M12-XXXF(5/8)	60.00 - 66.67	0.6000	0.6000
T14	20	HB114-1-08U4-M5J(1-1/4)	60.00 - 66.67	0.6000	0.6000
T14	21	T-Brackets (Af)	60.00 - 66.67	0.6000	0.6000
T14	23	CU12PSM9P6XXX(1-1/2)	60.00 - 66.67	0.6000	0.6000
T14	24	Feedline Ladder (Af)	60.00 - 66.67	0.6000	0.6000
T14	28	Feedline Ladder (Af)	60.00 - 66.67	0.6000	0.6000
T15	1	HCS 6X12 4AWG(1-5/8)	50.00 - 60.00	0.6000	0.6000
T15	3	Feedline Ladder (Af)	50.00 - 60.00	0.6000	0.6000
T15	5	LDF4-50A(1/2)	50.00 - 57.00	0.6000	0.6000
T15	7	LDF7-50A(1-5/8)	50.00 - 60.00	0.6000	0.6000
T15	9	Feedline Ladder (Af)	50.00 - 60.00	0.6000	0.6000
T15	13	FB-L98B-002-75000(3/8)	50.00 - 60.00	0.6000	0.6000
T15	14	WR-VG86ST-BRD(3/4)	50.00 - 60.00	0.6000	0.6000
T15	15	LDF6-50A(1-1/4)	50.00 - 60.00	0.6000	0.6000
T15	16	LCF114-50J(1-1/4)	50.00 - 60.00	0.6000	0.6000
T15	17	Feedline Ladder (Af)	50.00 - 60.00	0.6000	0.6000
T15	19	HB058-M12-XXXF(5/8)	50.00 - 60.00	0.6000	0.6000
T15	20	HB114-1-08U4-M5J(1-1/4)	50.00 - 60.00	0.6000	0.6000
T15	21	T-Brackets (Af)	50.00 - 60.00	0.6000	0.6000
T15	23	CU12PSM9P6XXX(1-1/2)	50.00 - 60.00	0.6000	0.6000
T15	24	Feedline Ladder (Af)	50.00 - 60.00	0.6000	0.6000
T15	28	Feedline Ladder (Af)	50.00 - 60.00	0.6000	0.6000
T16	1	HCS 6X12 4AWG(1-5/8)	40.00 - 50.00	0.6000	0.6000
T16	3	Feedline Ladder (Af)	40.00 - 50.00	0.6000	0.6000
T16	5	LDF4-50A(1/2)	40.00 - 50.00	0.6000	0.6000
T16	7	LDF7-50A(1-5/8)	40.00 - 50.00	0.6000	0.6000
T16	9	Feedline Ladder (Af)	40.00 - 50.00	0.6000	0.6000
T16	13	FB-L98B-002-75000(3/8)	40.00 - 50.00	0.6000	0.6000
T16	14	WR-VG86ST-BRD(3/4)	40.00 - 50.00	0.6000	0.6000
T16	15	LDF6-50A(1-1/4)	40.00 - 50.00	0.6000	0.6000
T16	16	LCF114-50J(1-1/4)	40.00 - 50.00	0.6000	0.6000
T16	17	Feedline Ladder (Af)	40.00 - 50.00	0.6000	0.6000
T16	19	HB058-M12-XXXF(5/8)	40.00 - 50.00	0.6000	0.6000
T16	20	HB114-1-08U4-M5J(1-1/4)	40.00 - 50.00	0.6000	0.6000
T16	21	T-Brackets (Af)	40.00 - 50.00	0.6000	0.6000
T16	23	CU12PSM9P6XXX(1-1/2)	40.00 - 50.00	0.6000	0.6000
T16	24	Feedline Ladder (Af)	40.00 - 50.00	0.6000	0.6000
T16	28	Feedline Ladder (Af)	40.00 - 50.00	0.6000	0.6000
T17	1	HCS 6X12 4AWG(1-5/8)	30.00 - 40.00	0.6000	0.6000
T17	3	Feedline Ladder (Af)	30.00 - 40.00	0.6000	0.6000
T17	5	LDF4-50A(1/2)	30.00 - 40.00	0.6000	0.6000
T17	7	LDF7-50A(1-5/8)	30.00 - 40.00	0.6000	0.6000
T17	9	Feedline Ladder (Af)	30.00 - 40.00	0.6000	0.6000
T17	13	FB-L98B-002-75000(3/8)	30.00 - 40.00	0.6000	0.6000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job</p> <p>136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)</p>	<p>Page</p> <p>23 of 52</p>
	<p>Project</p>	<p>Date</p> <p>20:22:55 05/17/24</p>
	<p>Client</p> <p>Crown Castle</p>	<p>Designed by</p> <p>Shashank.S.Rao</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T17	14	WR-VG86ST-BRD(3/4)	30.00 - 40.00	0.6000	0.6000
T17	15	LDF6-50A(1-1/4)	30.00 - 40.00	0.6000	0.6000
T17	16	LCF114-50J(1-1/4)	30.00 - 40.00	0.6000	0.6000
T17	17	Feedline Ladder (Af)	30.00 - 40.00	0.6000	0.6000
T17	19	HB058-M12-XXXF(5/8)	30.00 - 40.00	0.6000	0.6000
T17	20	HB114-1-08U4-M5J(1-1/4)	30.00 - 40.00	0.6000	0.6000
T17	21	T-Brackets (Af)	30.00 - 40.00	0.6000	0.6000
T17	23	CU12PSM9P6XXX(1-1/2)	30.00 - 40.00	0.6000	0.6000
T17	24	Feedline Ladder (Af)	30.00 - 40.00	0.6000	0.6000
T17	28	Feedline Ladder (Af)	30.00 - 40.00	0.6000	0.6000
T18	1	HCS 6X12 4AWG(1-5/8)	20.00 - 30.00	0.6000	0.6000
T18	3	Feedline Ladder (Af)	20.00 - 30.00	0.6000	0.6000
T18	5	LDF4-50A(1/2)	20.00 - 30.00	0.6000	0.6000
T18	7	LDF7-50A(1-5/8)	20.00 - 30.00	0.6000	0.6000
T18	9	Feedline Ladder (Af)	20.00 - 30.00	0.6000	0.6000
T18	13	FB-L98B-002-75000(3/8)	20.00 - 30.00	0.6000	0.6000
T18	14	WR-VG86ST-BRD(3/4)	20.00 - 30.00	0.6000	0.6000
T18	15	LDF6-50A(1-1/4)	20.00 - 30.00	0.6000	0.6000
T18	16	LCF114-50J(1-1/4)	20.00 - 30.00	0.6000	0.6000
T18	17	Feedline Ladder (Af)	20.00 - 30.00	0.6000	0.6000
T18	19	HB058-M12-XXXF(5/8)	20.00 - 30.00	0.6000	0.6000
T18	20	HB114-1-08U4-M5J(1-1/4)	20.00 - 30.00	0.6000	0.6000
T18	21	T-Brackets (Af)	20.00 - 30.00	0.6000	0.6000
T18	23	CU12PSM9P6XXX(1-1/2)	20.00 - 30.00	0.6000	0.6000
T18	24	Feedline Ladder (Af)	20.00 - 30.00	0.6000	0.6000
T18	28	Feedline Ladder (Af)	20.00 - 30.00	0.6000	0.6000
T19	1	HCS 6X12 4AWG(1-5/8)	0.00 - 20.00	0.6000	0.6000
T19	3	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T19	5	LDF4-50A(1/2)	0.00 - 20.00	0.6000	0.6000
T19	7	LDF7-50A(1-5/8)	0.00 - 20.00	0.6000	0.6000
T19	9	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T19	13	FB-L98B-002-75000(3/8)	0.00 - 20.00	0.6000	0.6000
T19	14	WR-VG86ST-BRD(3/4)	0.00 - 20.00	0.6000	0.6000
T19	15	LDF6-50A(1-1/4)	0.00 - 20.00	0.6000	0.6000
T19	16	LCF114-50J(1-1/4)	0.00 - 20.00	0.6000	0.6000
T19	17	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T19	19	HB058-M12-XXXF(5/8)	0.00 - 20.00	0.6000	0.6000
T19	20	HB114-1-08U4-M5J(1-1/4)	0.00 - 20.00	0.6000	0.6000
T19	21	T-Brackets (Af)	0.00 - 20.00	0.6000	0.6000
T19	23	CU12PSM9P6XXX(1-1/2)	0.00 - 20.00	0.6000	0.6000
T19	24	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T19	28	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K
* NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.000 0'	0.000	156'	No Ice 1/2" Ice	4.095 3.295 3.672	0.069 0.132

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job		136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)		Page		25 of 52	
	Project				Date		20:22:55 05/17/24	
	Client		Crown Castle		Designed by		Shashank.S.Rao	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA}		Weight
			Horz	Lateral			Front	Side	
			ft	ft	°	ft	ft ²	ft ²	K
RVZDC-6627-PF-48_CCIV2	C	From Leg	4.000	0.000	156'	2" Ice	2.589	1.866	0.165
			0'			No Ice	4.056	3.098	0.032
			3'			1/2" Ice	4.316	3.335	0.068
						1" Ice	4.582	3.580	0.109
(4) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	156'	2" Ice	5.138	4.092	0.203
			0'			No Ice	1.900	1.900	0.029
			0'			1/2" Ice	2.728	2.728	0.044
						1" Ice	3.401	3.401	0.063
(4) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	156'	2" Ice	4.396	4.396	0.119
			0'			No Ice	1.900	1.900	0.029
			0'			1/2" Ice	2.728	2.728	0.044
						1" Ice	3.401	3.401	0.063
(4) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	156'	2" Ice	4.396	4.396	0.119
			0'			No Ice	1.900	1.900	0.029
			0'			1/2" Ice	2.728	2.728	0.044
						1" Ice	3.401	3.401	0.063
Side Arm Mount [SO 102-3]	C	None		0.000	156'	2" Ice	4.396	4.396	0.119
						No Ice	3.600	3.600	0.075
						1/2" Ice	4.180	4.180	0.105
						1" Ice	4.750	4.750	0.135
Sector Mount [SM 505-3]	C	None		0.000	156'	2" Ice	5.900	5.900	0.195
						No Ice	46.100	41.300	1.725
						1/2" Ice	65.100	60.500	2.356
						1" Ice	82.600	76.900	3.189
						2" Ice	117.600	109.700	5.447
* RDIDC-9181-PF-48	A	From Leg	0.500	0.000	150'	No Ice	2.012	1.168	0.022
			0'			1/2" Ice	2.189	1.311	0.040
			0'			1" Ice	2.373	1.461	0.060
						2" Ice	2.763	1.784	0.110
* MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000	0.000	145'	No Ice	8.009	4.233	0.108
			0'			1/2" Ice	8.518	4.689	0.194
			0'			1" Ice	9.038	5.156	0.292
						2" Ice	10.109	6.122	0.522
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000	0.000	145'	No Ice	8.009	4.233	0.108
			0'			1/2" Ice	8.518	4.689	0.194
			1'			1" Ice	9.038	5.156	0.292
						2" Ice	10.109	6.122	0.522
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000	0.000	145'	No Ice	8.009	4.233	0.108
			0'			1/2" Ice	8.518	4.689	0.194
			1'			1" Ice	9.038	5.156	0.292
						2" Ice	10.109	6.122	0.522
TA08025-B604	A	From Leg	4.000	0.000	145'	No Ice	1.964	0.981	0.064
			0'			1/2" Ice	2.138	1.112	0.081
			3'			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B604	B	From Leg	4.000	0.000	145'	No Ice	1.964	0.981	0.064
			0'			1/2" Ice	2.138	1.112	0.081
			3'			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B604	C	From Leg	4.000	0.000	145'	No Ice	1.964	0.981	0.064
			0'			1/2" Ice	2.138	1.112	0.081
			3'			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B605	A	From Leg	4.000	0.000	145'	No Ice	1.964	1.129	0.075
			0'			1/2" Ice	2.138	1.267	0.093

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job		136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)		Page		27 of 52	
	Project				Date		20:22:55 05/17/24	
	Client		Crown Castle		Designed by		Shashank.S.Rao	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA}		Weight K
			Horz Lateral ft	Vert ft			Front ft ²	Side ft ²	
Mount Pipe				0' -1'			1/2" Ice 12.773 1" Ice 13.713 2" Ice 15.644	9.883 10.793 12.664	0.210 0.319 0.580
RA21.7770.00 w/ Mount Pipe	A	From Leg	4.000	0.000	135'	No Ice 4.136 1/2" Ice 4.568 1" Ice 5.012 2" Ice 5.933	2.463 2.868 3.285 4.154	0.063 0.111 0.169 0.314	
RA21.7770.00 w/ Mount Pipe	B	From Leg	4.000	0.000	135'	No Ice 4.136 1/2" Ice 4.568 1" Ice 5.012 2" Ice 5.933	2.463 2.868 3.285 4.154	0.063 0.111 0.169 0.314	
7770.00 w/ Mount Pipe	C	From Leg	4.000	0.000	135'	No Ice 3.385 1/2" Ice 3.746 1" Ice 4.117 2" Ice 4.891	2.323 2.664 3.016 3.751	0.055 0.098 0.149 0.279	
TT19-08BP111-001	A	From Leg	4.000	0.000	135'	No Ice 0.545 1/2" Ice 0.641 1" Ice 0.743 2" Ice 0.971	0.442 0.530 0.626 0.840	0.016 0.022 0.029 0.049	
TT19-08BP111-001	B	From Leg	4.000	0.000	135'	No Ice 0.545 1/2" Ice 0.641 1" Ice 0.743 2" Ice 0.971	0.442 0.530 0.626 0.840	0.016 0.022 0.029 0.049	
TT19-08BP111-001	C	From Leg	4.000	0.000	135'	No Ice 0.545 1/2" Ice 0.641 1" Ice 0.743 2" Ice 0.971	0.442 0.530 0.626 0.840	0.016 0.022 0.029 0.049	
RRUS 11 B12	A	From Leg	4.000	0.000	135'	No Ice 2.833 1/2" Ice 3.043 1" Ice 3.259 2" Ice 3.715	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153	
RRUS 11 B12	B	From Leg	4.000	0.000	135'	No Ice 2.833 1/2" Ice 3.043 1" Ice 3.259 2" Ice 3.715	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153	
RRUS 11 B12	C	From Leg	4.000	0.000	135'	No Ice 2.833 1/2" Ice 3.043 1" Ice 3.259 2" Ice 3.715	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153	
RRUS 32 B30	A	From Leg	4.000	0.000	135'	No Ice 2.731 1/2" Ice 2.953 1" Ice 3.182 2" Ice 3.663	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157	
RRUS 32 B30	B	From Leg	4.000	0.000	135'	No Ice 2.731 1/2" Ice 2.953 1" Ice 3.182 2" Ice 3.663	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157	
RRUS 32 B30	C	From Leg	4.000	0.000	135'	No Ice 2.731 1/2" Ice 2.953 1" Ice 3.182 2" Ice 3.663	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157	
RRUS 4415 B25_CCIV2	A	From Leg	4.000	0.000	135'	No Ice 1.843 1/2" Ice 2.012 1" Ice 2.190 2" Ice 2.566	0.820 0.943 1.075 1.368	0.046 0.060 0.077 0.118	
RRUS 4415 B25_CCIV2	B	From Leg	4.000	0.000	135'	No Ice 1.843 1/2" Ice 2.012	0.820 0.943	0.046 0.060	

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job		136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)		Page		28 of 52	
	Project				Date		20:22:55 05/17/24	
	Client		Crown Castle		Designed by		Shashank.S.Rao	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
RRUS 4415 B25_CCIV2	C	From Leg	4.000	0.000	135'	1" Ice	2.190	1.075	0.077
						2" Ice	2.566	1.368	0.118
						No Ice	1.843	0.820	0.046
			0'			1/2" Ice	2.012	0.943	0.060
			2'			1" Ice	2.190	1.075	0.077
RRUS 4426 B66	A	From Leg	4.000	0.000	135'	2" Ice	2.566	1.368	0.118
			0'			No Ice	1.644	0.725	0.048
			1'			1/2" Ice	1.804	0.842	0.061
						1" Ice	1.972	0.969	0.076
RRUS 4426 B66	B	From Leg	4.000	0.000	135'	2" Ice	2.329	1.244	0.115
			0'			No Ice	1.644	0.725	0.048
			2'			1/2" Ice	1.804	0.842	0.061
						1" Ice	1.972	0.969	0.076
RRUS 4426 B66	C	From Leg	4.000	0.000	135'	2" Ice	2.329	1.244	0.115
			0'			No Ice	1.644	0.725	0.048
			0'			1/2" Ice	1.804	0.842	0.061
						1" Ice	1.972	0.969	0.076
(2) 7020.00	A	From Leg	4.000	0.000	135'	2" Ice	2.329	1.244	0.115
			0'			No Ice	0.102	0.175	0.002
			2'			1/2" Ice	0.147	0.239	0.005
						1" Ice	0.199	0.311	0.009
(2) 7020.00	B	From Leg	4.000	0.000	135'	2" Ice	0.326	0.476	0.022
			0'			No Ice	0.102	0.175	0.002
			2'			1/2" Ice	0.147	0.239	0.005
						1" Ice	0.199	0.311	0.009
(2) 7020.00	C	From Leg	4.000	0.000	135'	2" Ice	0.326	0.476	0.022
			0'			No Ice	0.102	0.175	0.002
			2'			1/2" Ice	0.147	0.239	0.005
						1" Ice	0.199	0.311	0.009
DBC0061F1V51-2_CCIV2	A	From Leg	4.000	0.000	135'	2" Ice	0.326	0.476	0.022
			0'			No Ice	0.413	0.430	0.018
			3'			1/2" Ice	0.496	0.514	0.024
						1" Ice	0.586	0.605	0.030
DBC0061F1V51-2_CCIV2	B	From Leg	4.000	0.000	135'	2" Ice	0.788	0.810	0.049
			0'			No Ice	0.413	0.430	0.018
			3'			1/2" Ice	0.496	0.514	0.024
						1" Ice	0.586	0.605	0.030
DBC0061F1V51-2_CCIV2	C	From Leg	4.000	0.000	135'	2" Ice	0.788	0.810	0.049
			0'			No Ice	0.413	0.430	0.018
			3'			1/2" Ice	0.496	0.514	0.024
						1" Ice	0.586	0.605	0.030
Sector Mount [SM 506-3]	C	None		0.000	135'	2" Ice	0.788	0.810	0.049
						No Ice	32.270	32.270	1.742
						1/2" Ice	45.450	45.450	2.385
						1" Ice	58.440	58.440	3.235
						2" Ice	84.070	84.070	5.535
*									
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000	0.000	125'	No Ice	4.091	2.862	0.077
			0'			1/2" Ice	4.480	3.229	0.127
			1'			1" Ice	4.880	3.607	0.185
						2" Ice	5.712	4.396	0.331
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000	0.000	125'	No Ice	4.091	2.862	0.077
			0'			1/2" Ice	4.480	3.229	0.127
			1'			1" Ice	4.880	3.607	0.185
						2" Ice	5.712	4.396	0.331
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000	0.000	125'	No Ice	4.091	2.862	0.077
			0'			1/2" Ice	4.480	3.229	0.127

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	Project				Date		20:22:55 05/17/24	
	Client		Crown Castle		Designed by		Shashank.S.Rao	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.000	0.000	114'	1" Ice	16.230	8.247	0.453
			0'			2" Ice	17.816	9.670	0.782
			1'			No Ice	14.694	6.873	0.183
			0'			1/2" Ice	15.455	7.554	0.311
			1'			1" Ice	16.230	8.247	0.453
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.000	0.000	114'	2" Ice	17.816	9.670	0.782
			0'			No Ice	14.694	6.873	0.183
			0'			1/2" Ice	15.455	7.554	0.311
			1'			1" Ice	16.230	8.247	0.453
VV-65A-R1_TMO w/ Mount Pipe	A	From Leg	4.000	0.000	114'	2" Ice	17.816	9.670	0.782
			0'			No Ice	4.464	2.687	0.054
			0'			1/2" Ice	4.907	3.098	0.097
			2'			1" Ice	5.364	3.522	0.149
VV-65A-R1_TMO w/ Mount Pipe	B	From Leg	4.000	0.000	114'	2" Ice	6.316	4.409	0.281
			0'			No Ice	4.464	2.687	0.054
			0'			1/2" Ice	4.907	3.098	0.097
			2'			1" Ice	5.364	3.522	0.149
VV-65A-R1_TMO w/ Mount Pipe	C	From Leg	4.000	0.000	114'	2" Ice	6.316	4.409	0.281
			0'			No Ice	4.464	2.687	0.054
			0'			1/2" Ice	4.907	3.098	0.097
			2'			1" Ice	5.364	3.522	0.149
AIR 6419 B41_TMO w/ Mount Pipe	A	From Leg	4.000	0.000	114'	2" Ice	6.316	4.409	0.281
			0'			No Ice	6.579	3.500	0.111
			0'			1/2" Ice	7.064	3.900	0.162
			3'			1" Ice	7.566	4.317	0.220
AIR 6419 B41_TMO w/ Mount Pipe	B	From Leg	4.000	0.000	114'	2" Ice	8.619	5.200	0.359
			0'			No Ice	6.579	3.500	0.111
			0'			1/2" Ice	7.064	3.900	0.162
			3'			1" Ice	7.566	4.317	0.220
AIR 6419 B41_TMO w/ Mount Pipe	C	From Leg	4.000	0.000	114'	2" Ice	8.619	5.200	0.359
			0'			No Ice	6.579	3.500	0.111
			0'			1/2" Ice	7.064	3.900	0.162
			3'			1" Ice	7.566	4.317	0.220
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.000	0.000	114'	2" Ice	8.619	5.200	0.359
			0'			No Ice	2.139	1.686	0.109
			0'			1/2" Ice	2.321	1.850	0.131
			2'			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000	0.000	114'	2" Ice	2.912	2.387	0.217
			0'			No Ice	2.139	1.686	0.109
			0'			1/2" Ice	2.321	1.850	0.131
			2'			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000	0.000	114'	2" Ice	2.912	2.387	0.217
			0'			No Ice	2.139	1.686	0.109
			0'			1/2" Ice	2.321	1.850	0.131
			2'			1" Ice	2.511	2.022	0.156
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000	0.000	114'	2" Ice	2.912	2.387	0.217
			0'			No Ice	1.970	1.587	0.073
			0'			1/2" Ice	2.147	1.749	0.093
			1'			1" Ice	2.331	1.918	0.116
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000	0.000	114'	2" Ice	2.721	2.280	0.170
			0'			No Ice	1.970	1.587	0.073
			0'			1/2" Ice	2.147	1.749	0.093
			1'			1" Ice	2.331	1.918	0.116
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000	0.000	114'	2" Ice	2.721	2.280	0.170
			0'			No Ice	1.970	1.587	0.073
			0'			1/2" Ice	2.147	1.749	0.093
			1'			1" Ice	2.331	1.918	0.116

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	Project				Date		20:22:55 05/17/24	
	Client		Crown Castle		Designed by		Shashank.S.Rao	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA}		Weight	
			Horz	Lateral			Front	Side		
			ft	ft	°	ft	ft ²	ft ²	K	
5' x 2" Pipe Mount	A	From Leg	4.000	0'	0.000	114'	2" Ice	2.721	2.280	0.170
							No Ice	1.188	1.188	0.018
							1/2" Ice	1.496	1.496	0.027
							1" Ice	1.807	1.807	0.040
5' x 2" Pipe Mount	B	From Leg	4.000	0'	0.000	114'	2" Ice	2.458	2.458	0.076
							No Ice	1.188	1.188	0.018
							1/2" Ice	1.496	1.496	0.027
							1" Ice	1.807	1.807	0.040
5' x 2" Pipe Mount	C	From Leg	4.000	0'	0.000	114'	2" Ice	2.458	2.458	0.076
							No Ice	1.188	1.188	0.018
							1/2" Ice	1.496	1.496	0.027
							1" Ice	1.807	1.807	0.040
15' x 2" Pipe Mount	A	From Leg	4.000	0'	0.000	114'	2" Ice	2.458	2.458	0.076
							No Ice	3.562	3.562	0.055
							1/2" Ice	5.091	5.091	0.081
							1" Ice	6.635	6.635	0.118
15' x 2" Pipe Mount	B	From Leg	4.000	0'	0.000	114'	2" Ice	9.775	9.775	0.219
							No Ice	3.562	3.562	0.055
							1/2" Ice	5.091	5.091	0.081
							1" Ice	6.635	6.635	0.118
15' x 2" Pipe Mount	C	From Leg	4.000	0'	0.000	114'	2" Ice	9.775	9.775	0.219
							No Ice	3.562	3.562	0.055
							1/2" Ice	5.091	5.091	0.081
							1" Ice	6.635	6.635	0.118
10' x 2" Mount Pipe	A	From Leg	4.000	0'	0.000	114'	2" Ice	9.775	9.775	0.219
							No Ice	2.375	2.375	0.037
							1/2" Ice	3.403	3.403	0.054
							1" Ice	4.448	4.448	0.079
10' x 2" Mount Pipe	B	From Leg	4.000	0'	0.000	114'	2" Ice	5.911	5.911	0.148
							No Ice	2.375	2.375	0.037
							1/2" Ice	3.403	3.403	0.054
							1" Ice	4.448	4.448	0.079
10' x 2" Mount Pipe	C	From Leg	4.000	0'	0.000	114'	2" Ice	5.911	5.911	0.148
							No Ice	2.375	2.375	0.037
							1/2" Ice	3.403	3.403	0.054
							1" Ice	4.448	4.448	0.079
Pipe Mount [PM 601-3]	C	None			0.000	114'	2" Ice	5.911	5.911	0.148
							No Ice	3.170	3.170	0.195
							1/2" Ice	3.790	3.790	0.232
							1" Ice	4.420	4.420	0.279
Sector Mount [SM 503-3]	C	None			0.000	114'	2" Ice	5.760	5.760	0.401
							No Ice	30.430	30.430	1.690
							1/2" Ice	43.020	43.020	2.296
							1" Ice	55.430	55.430	3.097
* GPS_A	B	From Leg	2.000	0'	0.000	57'	2" Ice	79.890	79.890	5.269
							No Ice	0.255	0.255	0.001
							1/2" Ice	0.320	0.320	0.005
							1" Ice	0.393	0.393	0.010
Side Arm Mount [SO 202-1]	B	From Leg	1.000	0'	0.000	57'	2" Ice	0.561	0.561	0.025
							No Ice	1.780	2.970	0.110
							1/2" Ice	2.240	3.570	0.133
							1" Ice	2.750	4.190	0.163
* Side Arm Mount [SO 202-1]	B	From Leg	1.000	0'	0.000	48'	2" Ice	3.890	5.550	0.249
							No Ice	1.780	2.970	0.110
							1/2" Ice	2.240	3.570	0.133

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	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz Lateral	Vert					
			ft	°	ft	ft ²	ft ²	K	
			0'			1" Ice	2.750	4.190	0.163
						2" Ice	3.890	5.550	0.249
*									

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
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

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	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

Comb. No.	Description
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			
T1	160 - 140	Leg	Max Tension	15	11.243	0.020	-0.023			
			Max. Compression	18	-16.383	-0.002	0.005			
			Max. Mx	2	-11.663	-0.258	0.005			
			Max. My	24	-3.018	-0.010	-0.250			
			Max. Vy	18	1.212	0.030	0.004			
			Max. Vx	24	1.254	0.004	-0.016			
		Diagonal	Max Tension	5	2.888	0.000	0.000			
			Max. Compression	16	-2.971	0.000	0.000			
			Max. Mx	35	0.692	0.026	-0.000			
			Max. My	20	-1.622	0.003	0.003			
			Max. Vy	35	-0.023	0.026	-0.000			
			Max. Vx	20	-0.001	0.000	0.000			
		Top Girt	Max Tension	6	0.468	0.000	0.000			
			Max. Compression	19	-0.463	0.000	0.000			
			Max. Mx	26	-0.001	-0.053	0.000			
			Max. My	26	0.002	0.000	0.000			
			Max. Vy	26	0.032	0.000	0.000			
			Max. Vx	26	0.000	0.000	0.000			
			T2	140 - 135	Leg	Max Tension	15	15.872	-0.078	-0.032
						Max. Compression	18	-21.349	0.072	0.006
Max. Mx	6	14.142				-0.085	-0.007			
Diagonal	Max. My	24			-3.086	0.008	-0.089			
	Max. Vy	6			0.057	-0.085	-0.007			
	Max. Vx	24			0.113	0.008	0.031			
	Max Tension	15	2.808	0.000	0.000					
	Max. Compression	2	-3.082	0.000	0.000					
	Max. Mx	35	0.323	0.019	0.003					
Top Girt	Max. My	38	0.492	0.017	0.003					
	Max. Vy	32	0.021	0.017	-0.003					
	Max. Vx	38	-0.001	0.000	0.000					
	Max Tension	22	0.547	0.000	0.000					
	Max. Compression	11	-0.511	0.000	0.000					
	Max. Mx	26	0.039	-0.053	0.000					
	Max. My	26	0.042	0.000	0.002					
	Max. Vy	26	0.032	0.000	0.000					
T3	135 - 130	Leg	Max. Vx	26	-0.001	0.000	0.000			
			Max Tension	15	21.602	-0.021	-0.031			
			Max. Compression	18	-29.970	0.012	0.005			
		Diagonal	Max. Mx	6	19.284	-0.085	-0.007			
			Max. My	12	-5.107	-0.008	-0.253			
			Max. Vy	2	0.042	0.079	0.030			
			Max. Vx	24	-0.131	-0.009	0.253			
			Max Tension	4	4.091	0.000	0.000			
			Max. Compression	4	-4.049	0.000	0.000			
			Max. Mx	34	1.286	0.023	0.002			
			Max. My	2	-3.809	-0.004	0.004			

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T4	130 - 125	Leg	Max. Vy	32	0.023	0.021	0.002
			Max. Vx	31	0.001	0.000	0.000
			Max Tension	15	28.865	-0.078	-0.031
			Max. Compression	18	-37.505	0.100	0.004
			Max. Mx	2	-37.326	0.105	0.030
			Max. My	12	-5.173	-0.008	-0.253
			Max. Vy	2	-0.048	0.105	0.030
		Diagonal	Max. Vx	12	-0.152	-0.008	-0.253
			Max Tension	4	4.076	0.000	0.000
			Max. Compression	4	-4.144	0.000	0.000
			Max. Mx	34	0.415	0.028	-0.004
			Max. My	24	3.374	0.012	0.005
			Max. Vy	32	0.025	0.024	-0.004
			Max. Vx	38	-0.002	0.000	0.000
T5	125 - 120	Leg	Max Tension	15	35.976	-0.153	-0.055
			Max. Compression	18	-46.458	0.116	0.004
			Max. Mx	6	32.466	-0.163	-0.005
			Max. My	12	-6.488	-0.027	-0.475
			Max. Vy	6	0.048	-0.163	-0.005
			Max. Vx	12	0.203	-0.027	-0.475
			Max Tension	4	4.659	0.000	0.000
		Diagonal	Max. Compression	4	-4.672	0.000	0.000
			Max. Mx	34	1.388	0.032	0.002
			Max. My	22	-4.158	0.004	0.007
			Max. Vy	34	0.029	0.029	-0.003
			Max. Vx	37	-0.002	0.000	0.000
			Max Tension	15	44.780	-0.153	-0.055
			Max. Compression	18	-57.815	0.530	0.015
T6	120 - 113.333	Leg	Max. Mx	6	39.640	-0.544	-0.016
			Max. My	12	-6.652	-0.027	-0.475
			Max. Vy	6	1.148	-0.544	-0.016
			Max. Vx	24	-1.081	-0.013	0.320
			Max Tension	4	5.286	0.000	0.000
			Max. Compression	4	-5.357	0.000	0.000
			Max. Mx	34	0.551	0.064	-0.008
		Diagonal	Max. My	24	4.277	0.041	0.012
			Max. Vy	34	-0.042	0.064	-0.008
			Max. Vx	38	-0.003	0.000	0.000
			Max Tension	15	55.100	0.165	-0.037
			Max. Compression	2	-69.535	0.543	0.060
			Max. Mx	6	50.224	-0.544	-0.016
			Max. My	12	-8.976	-0.044	-0.369
T7	113.333 - 106.667	Leg	Max. Vy	2	0.163	0.543	0.060
			Max. Vx	12	0.122	-0.044	-0.369
			Max Tension	4	6.524	0.000	0.000
			Max. Compression	4	-6.614	0.000	0.000
			Max. Mx	34	1.859	0.066	0.004
			Max. My	10	-6.508	-0.002	-0.012
			Max. Vy	34	-0.044	0.066	0.004
		Diagonal	Max. Vx	37	-0.003	0.000	0.000
			Max Tension	15	67.026	0.067	-0.024
			Max. Compression	2	-82.419	-0.221	0.034
			Max. Mx	2	-82.376	0.568	-0.001
			Max. My	12	-9.299	-0.044	-0.369
			Max. Vy	2	-0.268	0.568	-0.001
			Max. Vx	12	-0.196	-0.044	-0.369
T8	106.667 - 100	Leg	Max Tension	9	6.508	0.043	0.002
			Max. Compression	8	-6.633	0.000	0.000
			Max. Mx	35	1.664	0.078	-0.010
		Diagonal	Max. My	12	5.257	0.058	-0.013

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T9	100 - 93.3333	Secondary Horizontal	Max. Vy	35	-0.047	0.078	-0.010
			Max. Vx	32	0.003	0.000	0.000
			Max Tension	12	0.359	0.000	0.000
			Max. Compression	13	-0.301	0.000	0.000
			Max. Mx	38	0.120	0.036	0.002
			Max. My	14	-0.237	0.013	0.005
		Leg	Max. Vy	38	-0.033	0.036	0.002
			Max. Vx	33	-0.002	0.000	0.000
			Max Tension	15	78.039	-0.347	-0.060
			Max. Compression	2	-94.364	-0.104	0.020
			Max. Mx	2	-94.294	0.370	0.059
			Max. My	12	-10.150	-0.004	-0.365
			Max. Vy	2	-0.123	0.370	0.059
			Max. Vx	24	-0.148	-0.004	0.364
Diagonal	Max Tension	8	6.470	0.000	0.000		
	Max. Compression	10	-6.539	0.000	0.000		
	Max. Mx	35	1.538	0.067	-0.007		
	Max. My	31	-2.141	0.056	-0.009		
	Max. Vy	33	0.045	0.062	0.006		
	Max. Vx	31	0.003	0.000	0.000		
T10	93.3333 - 86.6667	Leg	Max Tension	15	88.903	-0.010	-0.050
			Max. Compression	2	-106.143	0.370	0.059
			Max. Mx	2	-106.143	0.370	0.059
			Max. My	12	-10.684	-0.030	-0.415
			Max. Vy	2	0.110	0.370	0.059
			Max. Vx	12	0.123	-0.030	-0.415
		Diagonal	Max Tension	8	6.607	0.000	0.000
			Max. Compression	8	-6.661	0.000	0.000
			Max. Mx	35	1.621	0.080	0.009
			Max. My	32	-1.108	0.058	-0.010
			Max. Vy	33	0.051	0.071	-0.010
			Max. Vx	32	0.003	0.000	0.000
			Max Tension	15	98.803	-0.627	0.005
			Max. Compression	2	-117.117	-0.016	0.045
T11	86.6667 - 80	Leg	Max. Mx	2	-117.066	0.770	-0.004
			Max. My	12	-10.993	-0.030	-0.415
			Max. Vy	2	0.291	0.770	-0.004
			Max. Vx	12	-0.203	-0.030	-0.415
			Max Tension	9	6.698	-0.069	0.003
			Max. Compression	10	-7.210	0.000	0.000
		Diagonal	Max. Mx	35	1.442	-0.132	0.017
			Max. My	32	-2.151	-0.090	0.021
			Max. Vy	33	-0.077	-0.119	-0.014
			Max. Vx	32	0.005	0.000	0.000
			Max Tension	12	0.402	0.000	0.000
			Max. Compression	13	-0.330	0.000	0.000
			Max. Mx	31	0.069	0.051	0.001
			Max. My	14	-0.257	0.015	0.004
T12	80 - 73.3333	Leg	Max. Vy	31	0.040	0.051	0.001
			Max. Vx	33	-0.001	0.000	0.000
			Max Tension	15	108.963	-0.089	-0.047
			Max. Compression	2	-128.561	-0.137	0.007
			Max. Mx	29	4.622	-0.270	-0.010
			Max. My	12	-12.006	-0.007	-0.485
		Diagonal	Max. Vy	2	-0.092	0.104	0.042
			Max. Vx	12	0.150	-0.007	-0.485
			Max Tension	10	6.814	0.000	0.000
			Max. Compression	10	-6.742	0.000	0.000

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T13	73.3333 - 66.6667	Leg	Max. Mx	35	1.824	0.096	0.012	
			Max. My	32	-1.121	0.073	-0.014	
			Max. Vy	33	0.059	0.087	-0.013	
			Max. Vx	32	0.003	0.000	0.000	
			Max Tension	15	118.250	-0.867	0.012	
		Diagonal	Max. Compression	2	-138.846	0.104	0.042	
			Max. Mx	2	-138.823	1.041	-0.012	
			Max. My	12	-12.215	-0.007	-0.485	
			Max. Vy	2	0.523	1.041	-0.012	
			Max. Vx	12	-0.221	-0.007	-0.485	
			Max Tension	23	6.979	0.053	0.002	
			Max. Compression	10	-7.584	0.000	0.000	
			Max. Mx	35	1.287	0.118	-0.015	
			Max. My	32	1.284	0.114	-0.017	
			Max. Vy	33	0.064	0.111	0.013	
			Max. Vx	32	0.004	0.000	0.000	
			Max Tension	12	0.563	0.000	0.000	
			Secondary Horizontal	Max. Compression	13	-0.471	0.000	0.000
				Max. Mx	31	0.082	0.062	0.003
				Max. My	34	-0.086	0.061	0.004
Max. Vy	31	0.043		0.062	0.003			
Max. Vx	34	-0.002		0.000	0.000			
T14	66.6667 - 60	Leg		Max Tension	15	127.721	-0.817	0.018
				Max. Compression	2	-149.629	-0.652	0.016
				Max. Mx	2	-149.606	0.988	-0.018
				Max. My	12	-13.205	-0.001	-0.824
				Max. Vy	2	-0.530	0.988	-0.018
		Diagonal	Max. Vx	12	0.332	-0.001	-0.824	
			Max Tension	9	6.967	0.052	-0.003	
			Max. Compression	10	-7.424	0.000	0.000	
			Max. Mx	35	1.882	0.099	0.016	
			Max. My	31	-2.287	0.070	-0.018	
Secondary Horizontal	Max. Vy	33	0.063	0.094	-0.016			
	Max. Vx	31	-0.004	0.000	0.000			
	Max Tension	14	0.514	0.019	-0.000			
	Max. Compression	11	-0.428	0.016	0.003			
	Max. Mx	37	0.104	0.061	0.005			
T15	60 - 50	Leg	Max. My	34	0.037	0.061	0.005	
			Max. Vy	37	-0.045	0.061	0.005	
			Max. Vx	34	-0.002	0.000	0.000	
			Max Tension	15	139.356	-0.012	-0.051	
			Max. Compression	2	-162.976	-0.194	0.041	
		Diagonal	Max. Mx	29	10.589	-0.728	-0.022	
			Max. My	12	-14.195	-0.141	-1.101	
			Max. Vy	2	0.177	0.514	0.111	
			Max. Vx	12	0.205	-0.141	-1.101	
			Max Tension	10	8.424	0.000	0.000	
T16	50 - 40	Leg	Max. Compression	10	-8.568	0.000	0.000	
			Max. Mx	35	1.313	-0.233	-0.023	
			Max. My	10	-8.378	-0.041	0.035	
		Diagonal	Max. Vy	33	-0.111	-0.233	0.025	
			Max. Vx	37	0.007	0.000	0.000	
			Max Tension	15	152.848	-1.657	0.016	
			Max. Compression	2	-178.462	-0.194	0.041	
Secondary Horizontal	Max. Mx	2	-178.459	1.979	-0.014			
	Max. My	12	-14.675	-0.141	-1.101			
	Max. Vy	2	0.646	1.979	-0.014			
	Max. Vx	12	-0.361	-0.141	-1.101			

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T17	40 - 30	Diagonal	Max Tension	23	8.585	-0.128	0.004	
			Max. Compression	10	-9.500	0.000	0.000	
			Max. Mx	35	2.532	-0.212	0.036	
			Max. My	32	2.488	-0.204	0.042	
			Max. Vy	33	-0.111	-0.205	-0.032	
			Max. Vx	32	-0.007	0.000	0.000	
		Secondary Horizontal	Max Tension	12	0.798	0.000	0.000	
			Max. Compression	13	-0.687	0.000	0.000	
			Max. Mx	32	0.338	0.090	0.003	
			Max. My	12	-0.672	0.031	0.008	
			Max. Vy	32	0.058	0.090	0.003	
			Max. Vx	33	-0.002	0.000	0.000	
		Leg	Max Tension	15	166.061	-2.248	0.003	
			Max. Compression	2	-194.195	2.737	0.002	
			Max. Mx	2	-194.118	-3.087	-0.002	
			Max. My	12	-16.517	-0.465	-1.916	
			Max. Vy	2	1.173	2.737	0.002	
			Max. Vx	12	0.546	-0.465	-1.916	
			Diagonal	Max Tension	23	8.670	-0.185	-0.023
				Max. Compression	10	-9.680	0.000	0.000
				Max. Mx	33	0.540	-0.330	0.034
				Max. My	10	-9.617	-0.037	0.058
			Secondary Horizontal	Max. Vy	33	-0.139	-0.330	0.034
				Max. Vx	31	0.009	0.000	0.000
Max Tension	12	1.406		0.000	0.000			
Max. Compression	13	-1.198		0.000	0.000			
T18	30 - 20	Leg	Max. Mx	34	-0.214	0.163	0.014	
			Max. My	12	-1.169	0.065	0.018	
			Max. Vy	34	-0.083	0.163	0.014	
			Max. Vx	33	-0.004	0.000	0.000	
			Max Tension	15	178.181	-1.915	0.084	
			Max. Compression	2	-209.293	2.306	-0.087	
		Diagonal	Max. Mx	2	-208.290	3.298	0.063	
			Max. My	12	-17.167	-0.465	-1.916	
			Max. Vy	2	-2.570	3.298	0.063	
			Max. Vx	16	0.550	-0.436	1.868	
			Max Tension	23	9.280	-0.125	0.005	
			Max. Compression	10	-10.459	0.000	0.000	
		Horizontal	Max. Mx	2	6.760	-0.219	0.006	
			Max. My	33	-0.205	-0.031	0.014	
			Max. Vy	35	-0.083	-0.153	0.013	
			Max. Vx	37	0.004	0.000	0.000	
			Max Tension	12	0.656	0.000	0.000	
			Max. Compression	13	-0.575	0.000	0.000	
Redund Horiz 1 Bracing	Max. Mx	33	0.397	0.119	0.097			
	Max. My	35	0.041	0.113	0.097			
	Max. Vy	33	-0.072	0.119	0.097			
	Max. Vx	35	0.012	0.000	0.000			
	Max Tension	10	2.435	0.000	0.000			
	Max. Compression	15	-2.006	0.000	0.000			
Redund Diag 1 Bracing	Max. Mx	26	0.843	-0.024	0.000			
	Max. My	26	0.901	0.000	0.001			
	Max. Vy	26	0.021	0.000	0.000			
	Max. Vx	26	-0.001	0.000	0.000			
	Max Tension	15	1.173	0.000	0.000			
	Max. Compression	10	-1.604	0.000	0.000			
		Max. Mx	26	-0.272	-0.029	0.000		

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T19	20 - 0	Leg	Max. My	26	-0.303	0.000	-0.001
			Max. Vy	26	0.022	0.000	0.000
			Max. Vx	26	-0.001	0.000	0.000
			Max Tension	15	203.362	-0.860	-0.088
			Max. Compression	2	-240.471	0.000	-0.000
			Max. Mx	35	-108.082	-2.477	0.012
			Max. My	12	-20.381	-0.086	-1.378
		Diagonal	Max. Vy	35	-0.457	-2.477	0.012
			Max. Vx	12	-0.297	-0.086	-1.378
			Max Tension	10	9.944	0.000	0.000
			Max. Compression	10	-10.706	0.000	0.000
			Max. Mx	33	-0.206	-0.473	0.042
			Max. My	12	6.766	-0.288	0.070
			Max. Vy	33	-0.172	-0.473	0.042
Max. Vx	32	-0.010	0.000	0.000			

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	244.215	23.866	-13.229
	Max. H _x	18	244.215	23.866	-13.229
	Max. H _z	5	-175.766	-17.058	11.888
	Min. Vert	7	-196.746	-20.113	11.121
	Min. H _x	7	-196.746	-20.113	11.121
Leg B	Min. H _z	16	213.217	19.551	-13.269
	Max. Vert	10	246.749	-25.023	-12.535
	Max. H _x	23	-203.372	21.315	10.504
	Max. H _z	25	-183.047	18.732	10.653
	Min. Vert	23	-203.372	21.315	10.504
Leg A	Min. H _x	10	246.749	-25.023	-12.535
	Min. H _z	10	246.749	-25.023	-12.535
	Max. Vert	2	248.366	-1.139	28.379
	Max. H _x	19	-99.235	2.218	-11.697
	Max. H _z	2	248.366	-1.139	28.379
	Min. Vert	15	-209.603	1.094	-24.241
	Min. H _x	6	122.971	-2.055	13.654
	Min. H _z	15	-209.603	1.094	-24.241

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	47.407	-0.000	0.000	38.208	20.325	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	56.889	0.032	-45.190	-4145.137	22.102	-40.133
0.9 Dead+1.0 Wind 0 deg - No Ice	42.667	0.032	-45.190	-4156.600	16.005	-40.133
1.2 Dead+1.0 Wind 30 deg - No Ice	56.889	21.268	-36.850	-3420.919	-1976.248	-8.279
0.9 Dead+1.0 Wind 30 deg - No Ice	42.667	21.268	-36.850	-3432.381	-1982.345	-8.279

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	<p>Project</p>	<p>Date 20:22:55 05/17/24</p>
	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

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
Ice						
1.2 Dead+1.0 Wind 60 deg - No Ice	56.889	35.140	-20.333	-1879.345	-3304.008	16.285
0.9 Dead+1.0 Wind 60 deg - No Ice	42.667	35.140	-20.333	-1890.808	-3310.106	16.285
1.2 Dead+1.0 Wind 90 deg - No Ice	56.889	40.794	-0.032	43.562	-3826.395	36.019
0.9 Dead+1.0 Wind 90 deg - No Ice	42.667	40.794	-0.032	32.100	-3832.493	36.019
1.2 Dead+1.0 Wind 120 deg - No Ice	56.889	38.416	22.187	2103.590	-3538.158	57.893
0.9 Dead+1.0 Wind 120 deg - No Ice	42.667	38.416	22.187	2092.128	-3544.255	57.893
1.2 Dead+1.0 Wind 150 deg - No Ice	56.889	22.057	38.281	3614.782	-2032.590	64.234
0.9 Dead+1.0 Wind 150 deg - No Ice	42.667	22.057	38.281	3603.320	-2038.688	64.234
1.2 Dead+1.0 Wind 180 deg - No Ice	56.889	-0.032	42.648	4055.825	26.677	40.133
0.9 Dead+1.0 Wind 180 deg - No Ice	42.667	-0.032	42.648	4044.363	20.580	40.133
1.2 Dead+1.0 Wind 210 deg - No Ice	56.889	-21.268	36.850	3512.619	2025.027	8.279
0.9 Dead+1.0 Wind 210 deg - No Ice	42.667	-21.268	36.850	3501.156	2018.930	8.279
1.2 Dead+1.0 Wind 240 deg - No Ice	56.889	-37.341	21.604	2061.551	3509.548	-16.285
0.9 Dead+1.0 Wind 240 deg - No Ice	42.667	-37.341	21.604	2050.089	3503.451	-16.285
1.2 Dead+1.0 Wind 270 deg - No Ice	56.889	-40.794	0.032	48.138	3875.175	-36.019
0.9 Dead+1.0 Wind 270 deg - No Ice	42.667	-40.794	0.032	36.675	3869.078	-36.019
1.2 Dead+1.0 Wind 300 deg - No Ice	56.889	-36.215	-20.916	-1921.384	3430.177	-57.893
0.9 Dead+1.0 Wind 300 deg - No Ice	42.667	-36.215	-20.916	-1932.847	3424.079	-57.893
1.2 Dead+1.0 Wind 330 deg - No Ice	56.889	-22.057	-38.281	-3523.082	2081.370	-64.234
0.9 Dead+1.0 Wind 330 deg - No Ice	42.667	-22.057	-38.281	-3534.545	2075.272	-64.234
1.2 Dead+1.0 Ice+1.0 Temp	131.278	-0.000	0.000	117.415	95.222	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	131.278	0.007	-13.758	-1180.654	94.718	-13.630
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	131.278	6.539	-11.329	-964.198	-529.058	-3.433
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	131.278	10.928	-6.320	-489.853	-955.261	5.066
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	131.278	12.745	-0.007	116.911	-1125.004	12.807
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	131.278	11.623	6.712	752.283	-1004.072	19.734
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	131.278	6.732	11.678	1223.894	-542.832	20.774
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	131.278	-0.007	13.359	1387.834	95.727	13.630
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	131.278	-6.539	11.329	1199.028	719.502	3.433
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	131.278	-11.274	6.519	738.509	1169.651	-5.066
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	131.278	-12.745	0.007	117.920	1315.448	-12.807

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	<p>Project</p>	<p>Date</p> <p>20:22:55 05/17/24</p>
	<p>Client</p> <p style="text-align: center;">Crown Castle</p>	<p>Designed by</p> <p style="text-align: center;">Shashank.S.Rao</p>

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
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	131.278	-11.278	-6.513	-503.627	1170.571	-19.734
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	131.278	-6.732	-11.678	-989.064	733.276	-20.774
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	47.407	0.009	-12.638	-1125.882	19.692	-11.115
Dead+Wind 30 deg - Service	47.407	5.952	-10.312	-924.875	-535.462	-2.295
Dead+Wind 60 deg - Service	47.407	9.839	-5.693	-496.694	-904.453	4.508
Dead+Wind 90 deg - Service	47.407	11.421	-0.009	37.575	-1049.588	9.974
Dead+Wind 120 deg - Service	47.407	10.746	6.206	609.802	-969.272	16.031
Dead+Wind 150 deg - Service	47.407	6.170	10.709	1029.573	-551.059	17.787
Dead+Wind 180 deg - Service	47.407	-0.009	11.935	1152.190	20.958	11.115
Dead+Wind 210 deg - Service	47.407	-5.952	10.312	1001.291	576.111	2.295
Dead+Wind 240 deg - Service	47.407	-10.448	6.045	598.165	988.499	-4.508
Dead+Wind 270 deg - Service	47.407	-11.421	0.009	38.842	1090.238	-9.974
Dead+Wind 300 deg - Service	47.407	-10.137	-5.855	-508.331	966.526	-16.031
Dead+Wind 330 deg - Service	47.407	-6.170	-10.709	-953.156	591.708	-17.787

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	0.000	-47.407	0.000	0.000	47.407	-0.000	0.000%
2	0.032	-56.889	-45.190	-0.032	56.889	45.190	0.000%
3	0.032	-42.667	-45.190	-0.032	42.667	45.190	0.000%
4	21.268	-56.889	-36.850	-21.268	56.889	36.850	0.000%
5	21.268	-42.667	-36.850	-21.268	42.667	36.850	0.000%
6	35.140	-56.889	-20.333	-35.140	56.889	20.333	0.000%
7	35.140	-42.667	-20.333	-35.140	42.667	20.333	0.000%
8	40.794	-56.889	-0.032	-40.794	56.889	0.032	0.000%
9	40.794	-42.667	-0.032	-40.794	42.667	0.032	0.000%
10	38.416	-56.889	22.187	-38.416	56.889	-22.187	0.000%
11	38.416	-42.667	22.187	-38.416	42.667	-22.187	0.000%
12	22.057	-56.889	38.281	-22.057	56.889	-38.281	0.000%
13	22.057	-42.667	38.281	-22.057	42.667	-38.281	0.000%
14	-0.032	-56.889	42.648	0.032	56.889	-42.648	0.000%
15	-0.032	-42.667	42.648	0.032	42.667	-42.648	0.000%
16	-21.268	-56.889	36.850	21.268	56.889	-36.850	0.000%
17	-21.268	-42.667	36.850	21.268	42.667	-36.850	0.000%
18	-37.341	-56.889	21.604	37.341	56.889	-21.604	0.000%
19	-37.341	-42.667	21.604	37.341	42.667	-21.604	0.000%
20	-40.794	-56.889	0.032	40.794	56.889	-0.032	0.000%
21	-40.794	-42.667	0.032	40.794	42.667	-0.032	0.000%
22	-36.215	-56.889	-20.916	36.215	56.889	20.916	0.000%
23	-36.215	-42.667	-20.916	36.215	42.667	20.916	0.000%
24	-22.057	-56.889	-38.281	22.057	56.889	38.281	0.000%
25	-22.057	-42.667	-38.281	22.057	42.667	38.281	0.000%
26	0.000	-131.278	0.000	0.000	131.278	-0.000	0.000%
27	0.007	-131.278	-13.758	-0.007	131.278	13.758	0.000%
28	6.539	-131.278	-11.329	-6.539	131.278	11.329	0.000%
29	10.928	-131.278	-6.320	-10.928	131.278	6.320	0.000%
30	12.745	-131.278	-0.007	-12.745	131.278	0.007	0.000%
31	11.623	-131.278	6.712	-11.623	131.278	-6.712	0.000%
32	6.732	-131.278	11.678	-6.732	131.278	-11.678	0.000%
33	-0.007	-131.278	13.359	0.007	131.278	-13.359	0.000%
34	-6.539	-131.278	11.329	6.539	131.278	-11.329	0.000%
35	-11.274	-131.278	6.519	11.274	131.278	-6.519	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
36	-12.745	-131.278	0.007	12.745	131.278	-0.007	0.000%
37	-11.278	-131.278	-6.513	11.278	131.278	6.513	0.000%
38	-6.732	-131.278	-11.678	6.732	131.278	11.678	0.000%
39	0.009	-47.407	-12.638	-0.009	47.407	12.638	0.000%
40	5.952	-47.407	-10.312	-5.952	47.407	10.312	0.000%
41	9.839	-47.407	-5.693	-9.839	47.407	5.693	0.000%
42	11.421	-47.407	-0.009	-11.421	47.407	0.009	0.000%
43	10.746	-47.407	6.206	-10.746	47.407	-6.206	0.000%
44	6.170	-47.407	10.709	-6.170	47.407	-10.709	0.000%
45	-0.009	-47.407	11.935	0.009	47.407	-11.935	0.000%
46	-5.952	-47.407	10.312	5.952	47.407	-10.312	0.000%
47	-10.448	-47.407	6.045	10.448	47.407	-6.045	0.000%
48	-11.421	-47.407	0.009	11.421	47.407	-0.009	0.000%
49	-10.137	-47.407	-5.855	10.137	47.407	5.855	0.000%
50	-6.170	-47.407	-10.709	6.170	47.407	10.709	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	160 - 140	4.484	46	0.255	0.044
T2	140 - 135	3.421	44	0.238	0.040
T3	135 - 130	3.173	44	0.233	0.039
T4	130 - 125	2.925	44	0.226	0.037
T5	125 - 120	2.689	44	0.217	0.034
T6	120 - 113.333	2.458	44	0.207	0.032
T7	113.333 - 106.667	2.174	44	0.195	0.030
T8	106.667 - 100	1.901	44	0.182	0.028
T9	100 - 93.3333	1.651	44	0.167	0.026
T10	93.3333 - 86.6667	1.415	44	0.153	0.023
T11	86.6667 - 80	1.201	44	0.139	0.020
T12	80 - 73.3333	1.011	44	0.124	0.019
T13	73.3333 - 66.6667	0.835	44	0.112	0.016
T14	66.6667 - 60	0.677	44	0.098	0.013
T15	60 - 50	0.536	44	0.085	0.010
T16	50 - 40	0.364	44	0.069	0.008
T17	40 - 30	0.228	44	0.054	0.006
T18	30 - 20	0.123	44	0.037	0.004
T19	20 - 0	0.057	44	0.021	0.003

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
156'	NHH-65B-R2B w/ Mount Pipe	46	4.266	0.252	0.043	126396
150'	RDIDC-9181-PF-48	46	3.942	0.247	0.042	63198
145'	MX08FRO665-21 w/ Mount Pipe	46	3.677	0.243	0.041	42132
139'	DC6-48-60-18-8F	44	3.371	0.237	0.040	57655
135'	HPA-65R-BUU-H8 w/ Mount Pipe	44	3.173	0.233	0.039	201177
125'	APXVTM14-C-120 w/ Mount Pipe	44	2.689	0.217	0.034	55383

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Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
114'	APXVAALL24 43-U-NA20_TMO w/ Mount Pipe	44	2.201	0.197	0.030	55973
57'	GPS_A	44	0.480	0.080	0.009	25072
48'	Side Arm Mount [SO 202-1]	44	0.335	0.066	0.008	37068

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	160 - 140	15.980	3	0.901	0.157
T2	140 - 135	12.220	3	0.844	0.145
T3	135 - 130	11.330	3	0.825	0.139
T4	130 - 125	10.445	3	0.800	0.132
T5	125 - 120	9.600	3	0.770	0.124
T6	120 - 113.333	8.774	3	0.734	0.116
T7	113.333 - 106.667	7.759	3	0.694	0.109
T8	106.667 - 100	6.784	3	0.646	0.102
T9	100 - 93.3333	5.892	3	0.593	0.093
T10	93.3333 - 86.6667	5.051	3	0.547	0.082
T11	86.6667 - 80	4.289	3	0.496	0.074
T12	80 - 73.3333	3.610	3	0.443	0.068
T13	73.3333 - 66.6667	2.983	3	0.397	0.057
T14	66.6667 - 60	2.420	3	0.350	0.047
T15	60 - 50	1.916	3	0.302	0.036
T16	50 - 40	1.303	3	0.247	0.028
T17	40 - 30	0.817	3	0.191	0.021
T18	30 - 20	0.443	3	0.133	0.015
T19	20 - 0	0.207	3	0.074	0.010

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
156'	NHH-65B-R2B w/ Mount Pipe	3	15.212	0.890	0.156	36329
150'	RDIDC-9181-PF-48	3	14.068	0.874	0.153	18164
145'	MX08FRO665-21 w/ Mount Pipe	3	13.131	0.860	0.150	12109
139'	DC6-48-60-18-8F	3	12.041	0.840	0.144	17015
135'	HPA-65R-BUU-H8 w/ Mount Pipe	3	11.330	0.825	0.139	68908
125'	APXVTM14-C-120 w/ Mount Pipe	3	9.600	0.770	0.124	16262
114'	APXVAALL24 43-U-NA20_TMO w/ Mount Pipe	3	7.858	0.698	0.110	16422
57'	GPS_A	3	1.715	0.284	0.033	6959
48'	Side Arm Mount [SO 202-1]	3	1.197	0.236	0.027	10446

Bolt Design Data

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	160	Leg	A325N	0.625	4	2.811	20.340	0.138 ✓	1.05	Bolt Tension
		Diagonal	A325N	0.500	1	2.888	6.199	0.466 ✓	1.05	Member Bearing
		Top Girt	A325N	0.500	1	0.468	4.133	0.113 ✓	1.05	Member Bearing
T2	140	Diagonal	A325N	0.500	1	2.808	6.199	0.453 ✓	1.05	Member Bearing
		Top Girt	A325N	0.500	1	0.547	4.133	0.132 ✓	1.05	Member Bearing
T3	135	Diagonal	A325N	0.500	1	4.091	6.199	0.660 ✓	1.05	Member Bearing
T4	130	Diagonal	A325N	0.500	1	4.076	6.199	0.658 ✓	1.05	Member Bearing
T5	125	Leg	A325N	0.750	4	8.994	30.101	0.299 ✓	1.05	Bolt Tension
		Diagonal	A325N	0.500	1	4.659	6.199	0.752 ✓	1.05	Member Bearing
T6	120	Diagonal	A325X	0.500	1	5.286	7.504	0.704 ✓	1.05	Gusset Bearing
T7	113.333	Diagonal	A325X	0.500	1	6.524	7.504	0.869 ✓	1.05	Gusset Bearing
T8	106.667	Leg	A325N	0.875	4	16.757	41.556	0.403 ✓	1.05	Bolt Tension
		Diagonal	A325X	0.500	1	6.508	7.504	0.867 ✓	1.05	Gusset Bearing
		Secondary Horizontal	A325N	0.625	1	1.429	7.178	0.199 ✓	1.05	Gusset Bearing
T11	86.6667	Leg	A325N	0.875	4	24.700	41.556	0.594 ✓	1.05	Bolt Tension
		Secondary Horizontal	A325N	0.625	1	2.031	6.831	0.297 ✓	1.05	Member Block Shear
T13	73.3333	Secondary Horizontal	A325N	0.625	1	2.408	8.128	0.296 ✓	1.05	Member Block Shear
T14	66.6667	Leg	A325N	1.000	4	31.925	54.517	0.586 ✓	1.05	Bolt Tension
		Secondary Horizontal	A325N	0.625	1	2.595	6.831	0.380 ✓	1.05	Member Block Shear
T15	60	Diagonal	A325N	0.625	1	8.424	13.920	0.605 ✓	1.05	Gusset Bearing
T16	50	Leg	A325N	1.000	4	38.196	54.517	0.701 ✓	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	8.585	13.920	0.617 ✓	1.05	Gusset Bearing
		Secondary Horizontal	A325N	0.625	1	3.095	8.482	0.365 ✓	1.05	Member Bearing
T17	40	Diagonal	A325N	0.625	1	8.670	13.920	0.623 ✓	1.05	Gusset Bearing
		Secondary Horizontal	A325N	0.625	1	3.368	10.440	0.323 ✓	1.05	Member Bearing
T18	30	Leg	A325N	1.000	6	29.677	54.517	0.544 ✓	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	9.280	13.920	0.667 ✓	1.05	Gusset Bearing
		Horizontal	A325N	0.625	1	3.630	7.830	0.464 ✓	1.05	Member Bearing
		Redund Horz 1 Bracing	A325N	0.625	1	3.630	8.135	0.446 ✓	1.05	Member Block Shear
		Redund Diag 1 Bracing	A325N	0.625	1	2.113	8.135	0.260 ✓	1.05	Member Block Shear
T19	20	Diagonal	A325N	0.625	1	9.944	13.920	0.714 ✓	1.05	Gusset Bearing

Compression Checks

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)</p>	<p>Page 44 of 52</p>
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	<p>Client Crown Castle</p>	<p>Designed by Shashank.S.Rao</p>

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	160 - 140	ROHN 2 STD	20'	4'	61.0 K=1.00	1.075	-16.384	36.842	0.445 ¹
T2	140 - 135	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0 K=1.00	2.254	-21.349	74.427	0.287 ¹
T3	135 - 130	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0 K=1.00	2.254	-29.970	74.427	0.403 ¹
T4	130 - 125	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0 K=1.00	2.254	-37.505	74.427	0.504 ¹
T5	125 - 120	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0 K=1.00	2.254	-46.458	74.427	0.624 ¹
T6	120 - 113.333	ROHN 3 EH	6'8-1/8"	6'8-1/8"	70.5 K=1.00	3.016	-57.815	94.342	0.613 ¹
T7	113.333 - 106.667	ROHN 3 EH	6'8-1/8"	6'8-1/8"	70.5 K=1.00	3.016	-69.535	94.342	0.737 ¹
T8	106.667 - 100	ROHN 3 EH	6'8-1/8"	3'5-3/8"	36.4 K=1.00	3.016	-82.361	123.172	0.669 ¹
T9	100 - 93.3333	ROHN 3.5 EH	6'8-1/8"	6'8-1/8"	61.3 K=1.00	3.678	-94.364	125.726	0.751 ¹
T10	93.3333 - 86.6667	ROHN 3.5 EH	6'8-1/8"	6'8-1/8"	61.3 K=1.00	3.678	-106.143	125.725	0.844 ¹
T11	86.6667 - 80	ROHN 3.5 EH	6'8-1/8"	3'5-3/16'	31.5 K=1.00	3.678	-117.066	153.937	0.760 ¹
T12	80 - 73.3333	ROHN 4 X-STR	6'8-5/32'	6'8-5/32'	54.3 K=1.00	4.407	-128.561	159.903	0.804 ¹
T13	73.3333 - 66.6667	ROHN 4 X-STR	6'8-5/32'	3'5-3/32'	27.8 K=1.00	4.407	-138.791	187.417	0.741 ¹
T14	66.6667 - 60	ROHN 4 X-STR	6'8-5/32'	3'5-1/32'	27.8 K=1.00	4.407	-149.582	187.442	0.798 ¹
T15	60 - 50	ROHN. 5 EH	10'7/32"	10'7/32"	65.4 K=1.00	6.112	-162.976	201.251	0.810 ¹
T16	50 - 40	ROHN. 5 EH	10'7/32"	5'1-15/16"	33.7 K=1.00	6.112	-178.418	253.141	0.705 ¹
T17	40 - 30	ROHN 5 X-STR	10'7/32"	5'1-29/32"	33.7 K=1.00	6.112	-194.118	253.160	0.767 ¹
T18	30 - 20	ROHN 5 X-STR	10'7/32"	2'6-1/16'	16.3 K=1.00	6.112	-209.293	269.720	0.776 ¹
T19	20 - 0	B+T_BU 806378 - 6.625"x0.34" pipe w/ 2" SR	20'13/32"	10'7/32"	75.6 K=1.00	9.855	-240.471	292.104	0.823 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	160 - 140	L1 3/4x1 3/4x3/16	7'8-3/16'	3'7-15/3"	126.6	0.621	-2.971	11.092	0.268 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
			'	2"	K=1.00				✓
T2	140 - 135	L1 3/4x1 3/4x3/16	8'5-15/32"	4'1-19/32"	144.4 K=1.00	0.621	-3.082	8.523	0.362 ¹ ✓
T3	135 - 130	L1 3/4x1 3/4x3/16	8'10-15/32"	4'4-3/32"	151.7 K=1.00	0.621	-4.049	7.725	0.524 ¹ ✓
T4	130 - 125	L1 3/4x1 3/4x3/16	9'3-19/32"	4'6-21/32"	159.1 K=1.00	0.621	-4.144	7.020	0.590 ¹ ✓
T5	125 - 120	L2x2x3/16	9'8-25/32"	4'9-1/4"	145.3 K=1.00	0.715	-4.672	9.691	0.482 ¹ ✓
T6	120 - 113.333	L2 1/2x2 1/2x1/4	11'1-7/8"	5'6-1/32"	134.5 K=1.00	1.190	-5.357	18.829	0.284 ¹ ✓
T7	113.333 - 106.667	L2 1/2x2 1/2x1/4	11'8-15/32"	5'9-5/16"	141.2 K=1.00	1.190	-6.614	17.085	0.387 ¹ ✓
T8	106.667 - 100	L2 1/2x2 1/2x1/4	12'3-7/32"	6'1-15/16"	150.6 K=1.00	1.190	-6.633	15.017	0.442 ¹ ✓
T9	100 - 93.3333	L2 1/2x2 1/2x3/16	12'10-1/8"	6'5-3/32"	147.3 K=0.95	0.902	-6.539	11.900	0.549 ¹ ✓
T10	93.3333 - 86.6667	L2 1/2x2 1/2x1/4	13'5-5/32"	6'8-5/8"	153.7 K=0.94	1.190	-6.661	14.411	0.462 ¹ ✓
T11	86.6667 - 80	2L2 1/2x2 1/2x3/16x1/4	14'5/16"	7'3/16"	108.2 K=1.00	1.805	-7.210	38.698	0.186 ¹ ✓
T12	80 - 73.3333	ai/ri > 0.75(KL/r) _o - 128 L 3x3x3/16	14'7-19/32"	7'3-5/8"	140.6 K=0.96	1.090	-6.742	15.784	0.427 ¹ ✓
T13	73.3333 - 66.6667	L 3x3x3/16	15'3-3/32"	7'7-3/8"	153.2 K=1.00	1.090	-7.584	13.284	0.571 ¹ ✓
T14	66.6667 - 60	L 3x3x3/16	15'10-21/32"	7'11-5/32"	159.6 K=1.00	1.090	-7.424	12.248	0.606 ¹ ✓
T15	60 - 50	2L3x3x3/16x1/4	18'3-1/6"	9'5/16"	115.3 K=1.00	2.180	-8.568	40.911	0.209 ¹ ✓
T16	50 - 40	ai/ri > 0.75(KL/r) _o - 173 2L3x3x3/16x1/4	19'1-3/6"	9'6-7/8"	122.3 K=1.00	2.180	-9.500	37.323	0.255 ¹ ✓
T17	40 - 30	ai/ri > 0.75(KL/r) _o - 182 2L3x3x1/4x1/4	19'11-23/32"	10'1/4"	129.3 K=1.00	2.875	-9.680	47.058	0.206 ¹ ✓
T18	30 - 20	ai/ri > 0.75(KL/r) _o - 194 2L3x3x1/4x1/4	10'8-1/6"	10'1-29/32"	105.1 K=1.00	2.875	-10.460	68.991	0.152 ¹ ✓
T19	20 - 0	2L3 1/2x3 1/2x1/4x1/4	22'8-1/4"	11'1-3/6"	122.0 K=1.00	3.375	-10.706	60.039	0.178 ¹ ✓
		ai/ri > 0.75(KL/r) _o - 248							✓

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T18	30 - 20	L3x3x3/16	18'4"	17'7-9/16"	225.3 K=1.00	1.090	-3.630	6.146	0.591 ¹ ✓

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T8	106.667 - 100	L1 3/4x1 3/4x1/4	10'3-7/16"	4'11-31/32"	175.7 K=1.00	0.812	-1.429	7.536	0.190 ¹ ✓
T11	86.6667 - 80	L2x2x3/16	12'3-15/16"	5'11-31/32"	182.7 K=1.00	0.715	-2.031	6.134	0.331 ¹ ✓
T13	73.3333 - 66.6667	L1 3/4x1 3/4x1/4	13'8-19/32"	6'8-1/32"	234.5 K=1.00	0.812	-2.408	4.230	0.569 ¹ ✓
T14	66.6667 - 60	L2x2x3/16	14'4-31/32"	7'7/32"	213.8 K=1.00	0.715	-2.595	4.478	0.580 ¹ ✓
T16	50 - 40	L2 1/2x2 1/2x3/16	16'3-1/16"	7'10-3/4"	191.4 K=1.00	0.902	-3.095	7.046	0.439 ¹ ✓
T17	40 - 30	L3x3x1/4	17'3-5/16"	8'4-7/8"	170.4 K=1.00	1.440	-3.368	14.195	0.237 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	160 - 140	L2x2x1/8	6'6-1/4"	6'1-3/8"	184.6 K=1.00	0.484	-0.463	4.070	0.114 ¹ ✓
T2	140 - 135	L2x2x1/8	6'6-3/4"	6'1-3/8"	184.6 K=1.00	0.484	-0.511	4.070	0.125 ¹ ✓

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T18	30 - 20	L2x2x3/16	4'7"	4'1-7/32"	124.9 K=1.00	0.715	-3.630	13.110	0.277 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
									✓

¹ P_u / φP_n controls

Redundant Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T18	30 - 20	L2x2x3/16	5'4-1/32'	4'9-27/32"	146.8 K=1.00	0.715	-2.113	9.495	0.223 ¹ ✓

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	160 - 140	ROHN 2 STD	20'	4'	61.0	1.075	11.243	48.354	0.233 ¹ ✓
T2	140 - 135	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0	2.254	15.873	101.409	0.157 ¹ ✓
T3	135 - 130	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0	2.254	21.602	101.409	0.213 ¹ ✓
T4	130 - 125	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0	2.254	28.865	101.409	0.285 ¹ ✓
T5	125 - 120	ROHN 2.5 EH	5'3/32"	5'3/32"	65.0	2.254	35.976	101.409	0.355 ¹ ✓
T6	120 - 113.333	ROHN 3 EH	6'8-1/8"	6'8-1/8"	70.5	3.016	44.780	135.717	0.330 ¹ ✓
T7	113.333 - 106.667	ROHN 3 EH	6'8-1/8"	6'8-1/8"	70.5	3.016	55.100	135.717	0.406 ¹ ✓
T8	106.667 - 100	ROHN 3 EH	6'8-1/8"	3'5-3/8"	36.4	3.016	67.026	135.717	0.494 ¹ ✓
T9	100 - 93.3333	ROHN 3.5 EH	6'8-1/8"	6'8-1/8"	61.3	3.678	78.039	165.529	0.471 ¹ ✓
T10	93.3333 - 86.6667	ROHN 3.5 EH	6'8-1/8"	6'8-1/8"	61.3	3.678	88.903	165.529	0.537 ¹ ✓
T11	86.6667 - 80	ROHN 3.5 EH	6'8-1/8"	3'2-31/32"	29.8	3.678	98.803	165.529	0.597 ¹ ✓
T12	80 - 73.3333	ROHN 4 X-STR	6'8-5/32'	6'8-5/32'	54.3	4.407	108.963	198.335	0.549 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T13	73.3333 - 66.6667	ROHN 4 X-STR	6'8-5/32'	3'3-1/16'	26.4	4.407	118.250	198.335	0.596 ¹
T14	66.6667 - 60	ROHN 4 X-STR	6'8-5/32'	3'3-3/32'	26.5	4.407	127.721	198.335	0.644 ¹
T15	60 - 50	ROHN. 5 EH	10'7/32"	10'7/32"	65.4	6.112	139.356	275.039	0.507 ¹
T16	50 - 40	ROHN. 5 EH	10'7/32"	4'10-1/4'	31.7	6.112	152.848	275.039	0.556 ¹
T17	40 - 30	ROHN 5 X-STR	10'7/32"	4'10-9/32"	31.7	6.112	166.061	275.039	0.604 ¹
T18	30 - 20	ROHN 5 X-STR	10'7/32"	2'6-1/16'	16.3	6.112	178.181	275.039	0.648 ¹
T19	20 - 0	B+T_BU 806378 - 6.625"x0.34" pipe w/ 2" SR	20'13/32"	10'7/32"	75.6	9.855	203.362	443.470	0.459 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	160 - 140	L1 3/4x1 3/4x3/16	7'8-3/16'	3'7-15/32"	83.3	0.378	2.888	16.440	0.176 ¹
T2	140 - 135	L1 3/4x1 3/4x3/16	8'5-15/32"	4'1-19/32"	94.7	0.378	2.808	16.440	0.171 ¹
T3	135 - 130	L1 3/4x1 3/4x3/16	8'10-15/32"	4'4-3/32'	99.4	0.378	4.091	16.440	0.249 ¹
T4	130 - 125	L1 3/4x1 3/4x3/16	9'3-19/32"	4'6-21/32"	104.1	0.378	4.076	16.440	0.248 ¹
T5	125 - 120	L2x2x3/16	9'8-25/32"	4'9-1/4"	94.8	0.448	4.659	19.504	0.239 ¹
T6	120 - 113.333	L2 1/2x2 1/2x1/4	11'1-7/8'	5'6-1/32'	87.5	0.775	5.286	33.726	0.157 ¹
T7	113.333 - 106.667	L2 1/2x2 1/2x1/4	11'8-15/32"	5'9-5/16'	91.8	0.775	6.524	33.726	0.193 ¹
T8	106.667 - 100	L2 1/2x2 1/2x1/4	12'3-7/32"	6'1-15/16"	96.2	0.775	6.508	33.726	0.193 ¹
T9	100 - 93.3333	L2 1/2x2 1/2x3/16	12'10-1/8"	6'5-3/32'	99.1	0.902	6.470	29.225	0.221 ¹
T10	93.3333 - 86.6667	L2 1/2x2 1/2x1/4	13'5-5/32"	6'8-5/8"	104.9	1.190	6.607	38.556	0.171 ¹
T11	86.6667 - 80	2L2 1/2x2 1/2x3/16x1/4	14'5/16"	7'3/16"	108.2	1.805	6.698	58.472	0.115 ¹
T12	80 - 73.3333	ai/ri > 0.75(KL/r) _o - 127 L 3x3x3/16	14'7-19/32"	7'3-5/8"	93.3	1.090	6.814	35.311	0.193 ¹
T13	73.3333 - 66.6667	L 3x3x3/16	15'3-3/32"	7'7-3/8"	97.3	1.090	6.979	35.311	0.198 ¹
T14	66.6667 - 60	L 3x3x3/16	15'10-21/32"	7'11-5/32"	101.3	1.090	6.968	35.311	0.197 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	KL/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T15	60 - 50	2L3x3x3/16x1/4	18'3-1/16"	9'5/16"	116.9	1.424	8.424	61.937	0.136 ¹ ✓
T16	50 - 40	ai/ri > 0.75(KL/r) _o - 172 2L3x3x3/16x1/4	19'1-3/16"	9'6-7/8"	122.3	1.424	8.585	61.937	0.139 ¹ ✓
T17	40 - 30	ai/ri > 0.75(KL/r) _o - 182 2L3x3x1/4x1/4	19'11-23/32"	10'1/4"	129.3	1.875	8.670	91.406	0.095 ¹ ✓
T18	30 - 20	ai/ri > 0.75(KL/r) _o - 194 2L3x3x1/4x1/4	10'8-1/16"	10'1-29/32"	93.1	1.875	9.280	91.406	0.102 ¹ ✓
T19	20 - 0	2L3 1/2x3 1/2x1/4x1/4 ai/ri > 0.75(KL/r) _o - 253	21'9-15/32"	10'7-13/16"	118.5	2.250	9.944	109.688	0.091 ¹ ✓

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KL/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T18	30 - 20	L3x3x3/16	18'4"	17'7-9/16"	114.2	0.712	3.630	30.973	0.117 ¹ ✓

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KL/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T8	106.667 - 100	L1 3/4x1 3/4x1/4	10'3-7/16"	4'11-31/32"	226.8	0.469	1.429	20.391	0.070 ¹ ✓
T11	86.6667 - 80	L2x2x3/16	12'3-15/16"	5'11-31/32"	233.3	0.431	2.031	18.739	0.108 ¹ ✓
T13	73.3333 - 66.6667	L1 3/4x1 3/4x1/4	13'8-19/32"	6'8-1/32'	302.7	0.469	2.408	20.391	0.118 ¹ ✓
T14	66.6667 - 60	L2x2x3/16	14'4-31/32"	7'7/32"	273.0	0.431	2.595	18.739	0.138 ¹ ✓
T16	50 - 40	L2 1/2x2 1/2x3/16	16'3-1/16"	7'10-3/4'	243.6	0.571	3.095	24.840	0.125 ¹ ✓
T17	40 - 30	L3x3x1/4	17'3-5/16"	8'4-7/8"	216.9	0.939	3.368	40.863	0.082 ¹ ✓

tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)	Page 50 of 52
	Project	Date 20:22:55 05/17/24
	Client Crown Castle	Designed by Shashank.S.Rao

¹ $P_u / \phi P_n$ controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	160 - 140	L2x2x1/8	6'6-1/4"	6'1-3/8"	121.2	0.305	0.468	13.254	0.035 ¹
T2	140 - 135	L2x2x1/8	6'6-3/4"	6'1-3/8"	121.2	0.305	0.547	13.254	0.041 ¹

¹ $P_u / \phi P_n$ controls

Redundant Horizontal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T18	30 - 20	L2x2x3/16	4'7"	4'1-7/32"	84.6	0.431	3.630	18.739	0.194 ¹

¹ $P_u / \phi P_n$ controls

Redundant Diagonal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T18	30 - 20	L2x2x3/16	5'4-1/32"	4'9-27/32"	98.6	0.431	2.113	18.739	0.113 ¹

¹ $P_u / \phi P_n$ controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	160 - 140	Leg	ROHN 2 STD	1	-16.384	38.684	42.4	Pass
T2	140 - 135	Leg	ROHN 2.5 EH	37	-21.349	78.149	27.3	Pass
T3	135 - 130	Leg	ROHN 2.5 EH	49	-29.970	78.149	38.3	Pass
T4	130 - 125	Leg	ROHN 2.5 EH	58	-37.505	78.149	48.0	Pass
T5	125 - 120	Leg	ROHN 2.5 EH	67	-46.458	78.149	59.4	Pass
T6	120 - 113.333	Leg	ROHN 3 EH	76	-57.815	99.059	58.4	Pass
T7	113.333 - 106.667	Leg	ROHN 3 EH	87	-69.535	99.059	70.2	Pass

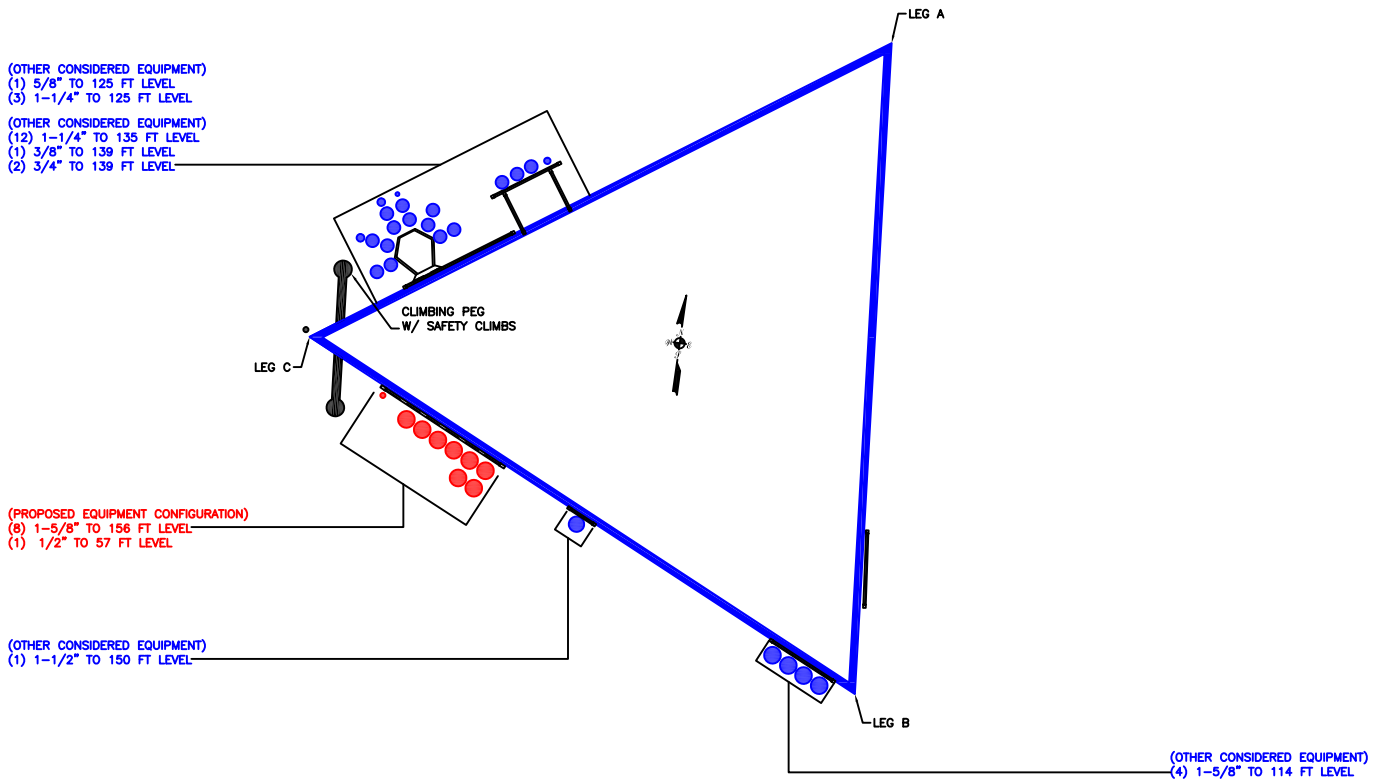
tnxTower MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	Page	
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Client	Crown Castle	Designed by	
		Shashank.S.Rao	

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
T8	106.667 - 100	Leg	ROHN 3 EH	96	-82.361	129.331	63.7	Pass	
T9	100 - 93.3333	Leg	ROHN 3.5 EH	108	-94.364	132.012	71.5	Pass	
T10	93.3333 - 86.6667	Leg	ROHN 3.5 EH	117	-106.143	132.011	80.4	Pass	
T11	86.6667 - 80	Leg	ROHN 3.5 EH	126	-117.066	161.634	72.4	Pass	
T12	80 - 73.3333	Leg	ROHN 4 X-STR	138	-128.561	167.898	76.6	Pass	
T13	73.3333 - 66.6667	Leg	ROHN 4 X-STR	147	-138.791	196.788	70.5	Pass	
T14	66.6667 - 60	Leg	ROHN 4 X-STR	159	-149.582	196.814	76.0	Pass	
T15	60 - 50	Leg	ROHN. 5 EH	171	-162.976	211.314	77.1	Pass	
T16	50 - 40	Leg	ROHN. 5 EH	180	-178.418	265.798	67.1	Pass	
T17	40 - 30	Leg	ROHN 5 X-STR	192	-194.118	265.818	73.0	Pass	
T18	30 - 20	Leg	ROHN 5 X-STR	204	-209.293	283.206	73.9	Pass	
T19	20 - 0	Leg	B+T_BU 806378 - 6.625"x0.34" pipe w/ 2" SR	246	-240.471	306.709	78.4	Pass	
T1	160 - 140	Diagonal	L1 3/4x1 3/4x3/16	12	-2.971	11.646	25.5	Pass	
T2	140 - 135	Diagonal	L1 3/4x1 3/4x3/16	47	-3.082	8.949	34.4	Pass	
T3	135 - 130	Diagonal	L1 3/4x1 3/4x3/16	56	-4.049	8.112	49.9	Pass	
T4	130 - 125	Diagonal	L1 3/4x1 3/4x3/16	65	-4.144	7.371	56.2	Pass	
T5	125 - 120	Diagonal	L2x2x3/16	74	-4.672	10.175	45.9	Pass	
T6	120 - 113.333	Diagonal	L2 1/2x2 1/2x1/4	83	-5.357	19.771	27.1	Pass	
T7	113.333 - 106.667	Diagonal	L2 1/2x2 1/2x1/4	92	-6.614	17.939	36.9	Pass	
T8	106.667 - 100	Diagonal	L2 1/2x2 1/2x1/4	98	-6.633	15.768	42.1	Pass	
T9	100 - 93.3333	Diagonal	L2 1/2x2 1/2x3/16	110	-6.539	12.495	52.3	Pass	
T10	93.3333 - 86.6667	Diagonal	L2 1/2x2 1/2x1/4	119	-6.661	15.132	44.0	Pass	
T11	86.6667 - 80	Diagonal	2L2 1/2x2 1/2x3/16x1/4	128	-7.210	40.633	17.7	Pass	
T12	80 - 73.3333	Diagonal	L 3x3x3/16	140	-6.742	16.573	40.7	Pass	
T13	73.3333 - 66.6667	Diagonal	L 3x3x3/16	149	-7.584	13.948	54.4	Pass	
T14	66.6667 - 60	Diagonal	L 3x3x3/16	161	-7.424	12.860	57.7	Pass	
T15	60 - 50	Diagonal	2L3x3x3/16x1/4	173	-8.568	42.956	19.9	Pass	
T16	50 - 40	Diagonal	2L3x3x3/16x1/4	182	-9.500	39.189	24.2	Pass	
T17	40 - 30	Diagonal	2L3x3x1/4x1/4	194	-9.680	49.411	19.6	Pass	
T18	30 - 20	Diagonal	2L3x3x1/4x1/4	209	-10.460	72.440	14.4	Pass	
T19	20 - 0	Diagonal	2L3 1/2x3 1/2x1/4x1/4	248	-10.706	63.041	17.0	Pass	
T18	30 - 20	Horizontal	L3x3x3/16	219	-3.630	6.453	56.3	Pass	
T8	106.667 - 100	Secondary Horizontal	L1 3/4x1 3/4x1/4	105	-1.429	7.913	18.1	Pass	
T11	86.6667 - 80	Secondary Horizontal	L2x2x3/16	134	-2.031	6.440	31.5	Pass	
T13	73.3333 - 66.6667	Secondary Horizontal	L1 3/4x1 3/4x1/4	155	-2.408	4.441	54.2	Pass	
T14	66.6667 - 60	Secondary Horizontal	L2x2x3/16	167	-2.595	4.702	55.2	Pass	
T16	50 - 40	Secondary Horizontal	L2 1/2x2 1/2x3/16	188	-3.095	7.398	41.8	Pass	
T17	40 - 30	Secondary Horizontal	L3x3x1/4	200	-3.368	14.905	22.6	Pass	
T1	160 - 140	Top Girt	L2x2x1/8	5	-0.463	4.273	10.8	Pass	
T2	140 - 135	Top Girt	L2x2x1/8	42	-0.511	4.273	12.0	Pass	
T18	30 - 20	Redund Horz 1 Bracing	L2x2x3/16	217	-3.630	13.765	26.4	Pass	
T18	30 - 20	Redund Diag 1 Bracing	L2x2x3/16	237	-2.113	9.970	21.2	Pass	
							Summary		
							Leg (T10)	80.4	Pass
							Diagonal (T14)	57.7	Pass
							Horizontal (T18)	56.3	Pass
							Secondary Horizontal (T14)	55.2	Pass
							Top Girt	12.0	Pass

<p>tnxTower</p> <p>MTS Engineering, P.L.L.C. 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job 136290.009.01.0001 - HRT 086 943248, CT (BU# 806378)	Page 52 of 52
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	Client Crown Castle	Designed by Shashank.S.Rao

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
						(T2)		
						Redund Horz 1 Bracing	26.4	Pass
						(T18)		
						Redund Diag 1 Bracing	21.2	Pass
						(T18)		
						Bolt Checks	82.8	Pass
						RATING =	82.8	Pass

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 806378

APPENDIX C
ADDITIONAL CALCULATIONS

PROJECT **136290.009.01.0001 - HRT 086 943248, CT**
 SUBJECT **Reinforced Tower Legs**
 DATE **05/17/24**
 v3.4.2



Tower Information	
TIA-222 Rev.	H
Apply TIA-222-H Section 15.5	Yes

Calculation Type	Original Member		Modification				BP & Angle?	Section Geometry															Leg Capacity					Results							
	Elevation (ft)	Leg Type	Type	Analysis Method	Intermediate Connection	Leg Crushing?		Custom Area Input			Custom MOI _{xx} Input			Custom MOI _{yy} Input			Leg Comp. Load P _u (k)	Leg F _y (ksi)	Reinf. F _y (ksi)	L (in)	a (in)	K _{Leg}	K _{Mod}	K _{Comp.}	Custom h (in)	Fe (ksi)	Fcr (ksi)		Φ	Leg Crushing Capacity (k)	Reinf. Leg Tension Yield Capacity (k)	Reinf. Leg Comp. Capacity (k)	Original leg Capacity (k)	Spacing Req.	Leg Load Final Rating
								Area _{LEG} (in ²)	Area _{MOD} (in ²)	Area _{GROSS} (in ²)	I _{LEG} (in ⁴)	I _{MOD} (in ⁴)	I _{GROSS} (in ⁴)	I _{LEG} (in ⁴)	I _{MOD} (in ⁴)	I _{GROSS} (in ⁴)																			
Analysis	0-20	Custom	Custom	Built Up	Pinned	No	No	6.71	3.14	9.85	33.2	0.8	45.5	33.2	0.8	45.5	240.47	50	50	120.2	19.5	1.0	1.00	1.0		61.5122	35.6	0.90		443.5	315.6	244.0	O.K. @ 0.7	72.6%	Passing

PROJECT	136290.009.01.0001 - HRT 086 943248, CT				
SUBJECT	Bolted Angle Connection Analysis				
DATE	05/17/24	PAGE	1	OF	1



v2.5.0

TIA-222 Rev.	H
Apply TIA-222-H Section 15.5?	Yes

Max Rating	81.7%
-------------------	--------------

Elevation (ft)	Component	Angle			Bolt					Coping Dimensions (in)					Tens. Load (k)	Comp. Load (k)	Tens. Capacity (k)	Comp. Capacity (k)	Rating	Limit State				
		Qty	Size	Grade	Qty	Size	Grade	Edge Dist. (in)	Gage (in)	Pitch (in)	Coping	A	B	C							D	E		
1 60-80	Diagonal	1	L3X3X(3/16+3/16)	A36	1	1/2	A325N	0.75	1.5		Allowable								6.98	7.58	8.84	8.84	81.7%	Compression - Bolt Shear
2 80-86.7	Diagonal	2	2 1/2X2 1/2X(3/16+3/16)	A36	1	1/2	A325N	0.75	1.25		Allowable								6.70	7.21	17.67	17.67	38.9%	Compression - Bolt Shear
3 86.7-93.4	Diagonal	1	L2 1/2X2 1/2X(1/4+3/16)	A36	1	1/2	A325N	0.75	1.25		Allowable								6.61	6.66	8.84	8.84	71.8%	Compression - Bolt Shear
4 93.4-100	Diagonal	1	2 1/2X2 1/2X(3/16+3/16)	A36	1	1/2	A325N	0.75	1.25		Allowable								6.47	6.54	8.84	8.84	70.5%	Compression - Bolt Shear

Self Support Anchor Rod Capacity



Site Info	
BU #	806378
Site Name	HRT 086 943248, CT
Order #	669070, Rev# 0

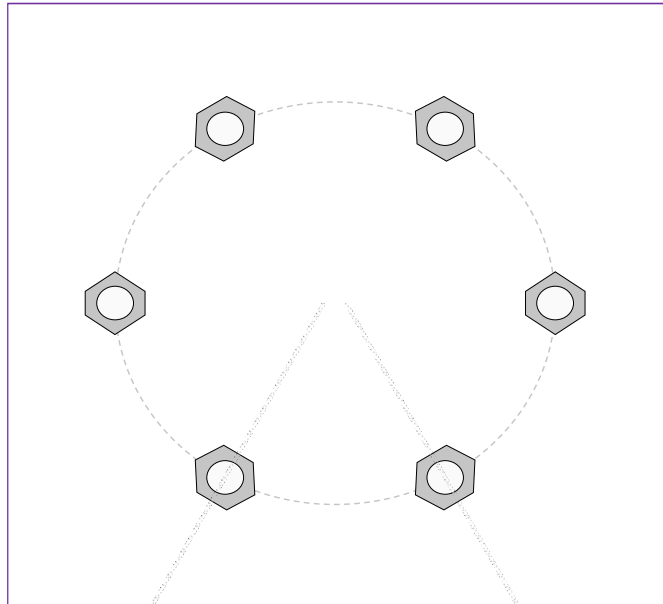
Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	0

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	248.00	210.00
Shear Force (kips)	28.00	24.00

*TIA-222-H Section 15.5 Applied

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

*Anchor Rod Eccentricity Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data	
(6) 1" ϕ bolts (A449 N; $F_y=92$ ksi, $F_u=120$ ksi)	
l_{ar} (in):	0

Anchor Rod Summary		(units of kips, kip-in)
$Pu_t = 35$	$\phi Pn_t = 54.54$	Stress Rating
$Vu = 4$	$\phi Vn = 35.34$	61.1%
$Mu = n/a$	$\phi Mn = n/a$	Pass

Pier and Pad Foundation



BU #: 806378
 Site Name: HRT 086 943248, C
 App. Number: 669070, Rev# 0

TIA-222 Revision: H
 Tower Type: Self Support

Top & Bot. Pad Rein. Different?:
 Block Foundation?:
 Rectangular Pad?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	248	kips
Compression Shear, V_{u_comp} :	28	kips
Uplift, P_{uplift} :	210	kips
Uplift Shear, V_{u_uplift} :	24	kips
Tower Height, H :	160	ft
Base Face Width, BW :	20.86	ft
BP Dist. Above Fdn, bp_{dist} :	3	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Uplift (kips)</i>	298.70	210.00	67.0%	Pass
<i>Lateral (Sliding) (kips)</i>	114.59	24.00	19.9%	Pass
<i>Bearing Pressure (ksf)</i>	12.38	4.18	32.1%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	1304.27	294.00	21.5%	Pass
<i>Pier Flexure (Tension) (kip*ft)</i>	897.80	252.00	26.7%	Pass
<i>Pier Compression (kip)</i>	2315.08	266.18	11.0%	Pass
<i>Pad Flexure (kip*ft)</i>	565.50	133.45	22.5%	Pass
<i>Pad Shear - 1-way (kips)</i>	194.10	40.67	20.0%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.055	31.7%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	1037.39	176.40	16.2%	Pass
<i>Pad Shear - 2-way (Uplift) (ksi)</i>	0.164	0.066	38.0%	Pass
<i>Flexural 2-way (Tension) (kip*ft)</i>	1037.39	151.20	13.9%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$:	3.5	ft
Ext. Above Grade, E :	0.5	ft
Pier Rebar Size, Sc :	9	
Pier Rebar Quantity, mc :	16	
Pier Tie/Spiral Size, St :	3	
Pier Tie/Spiral Quantity, mt :	12	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

*Rating per TIA-222-H Section 15.5

Structural Rating*:	38.0%
Soil Rating*:	67.0%

Pad Properties		
Depth, D :	12	ft
Pad Width, W_1 :	10	ft
Pad Thickness, T :	2	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	7	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	11	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	117	pcf
Ultimate Gross Bearing, Q_{ult} :	16.500	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	34	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.3	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	10.5	ft

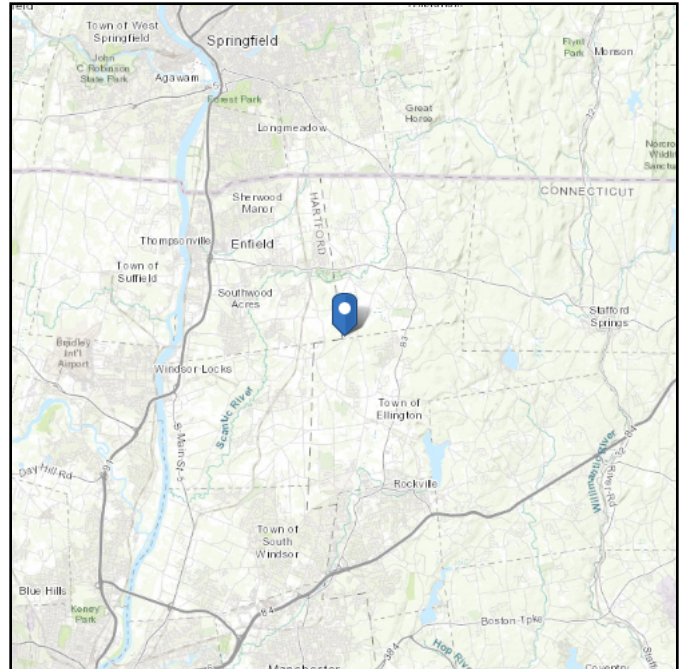
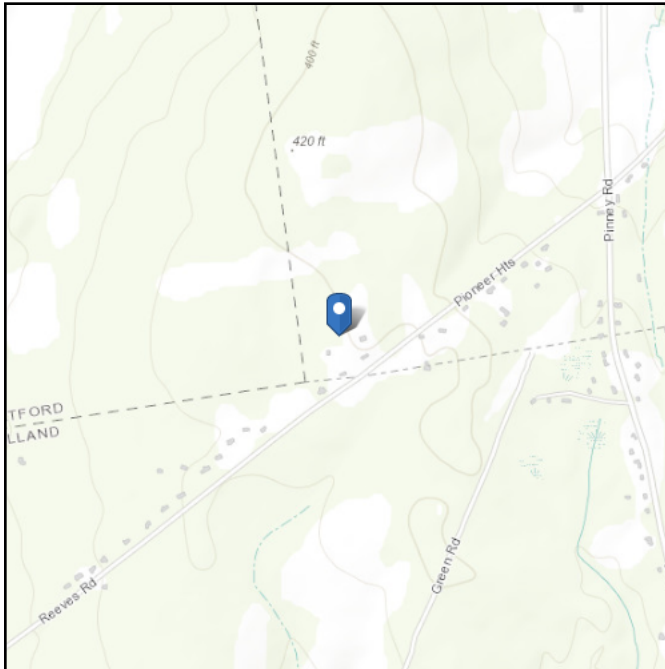
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ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Latitude: 41.948883
Longitude: -72.492097
Elevation: 402.1801413933862 ft (NAVD 88)



Wind

Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	83 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Wed May 15 2024

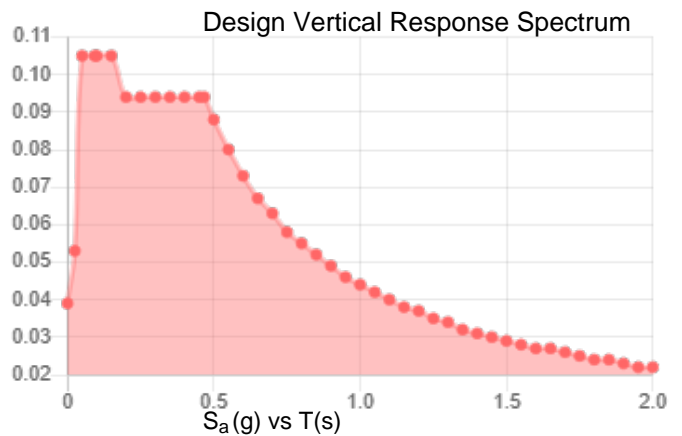
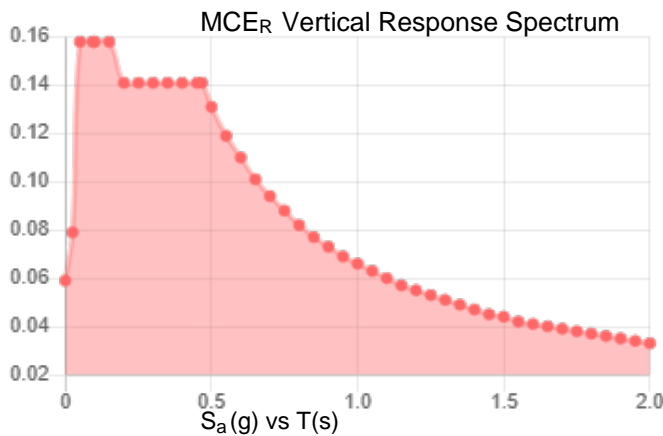
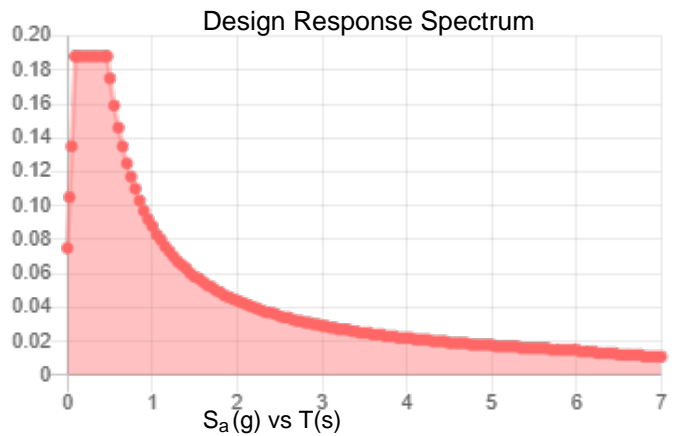
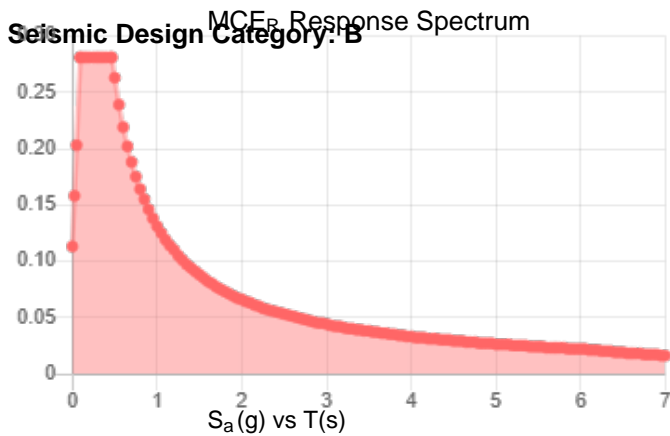
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_s :	0.176	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.093
F_v :	2.4	PGA _M :	0.148
S_{MS} :	0.281	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.188	C_v :	0.7



Data Accessed: Wed May 15 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.50 in.
Concurrent Temperature: 5 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Wed May 15 2024

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 500-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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ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C
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Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10213564
Colliers Engineering & Design Project #: 21777130 (Rev 1)

November 15, 2023

Site Information

Site ID: 5000246277-VZW / SOMERS CT
Site Name: SOMERS CT
Carrier Name: Verizon Wireless
Address: 126 Pioneer Heights Rd
Somers, Connecticut 06071
Tolland County
Latitude: 41.948986°
Longitude: -72.492030°

Structure Information

Tower Type: 161-Ft Self Support
Mount Type: 15.00-Ft Sector Frame

FUZE ID # 16272371

Analysis Results

Sector Frame: 97.2% **Pass w/ Hardware Upgrades***

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

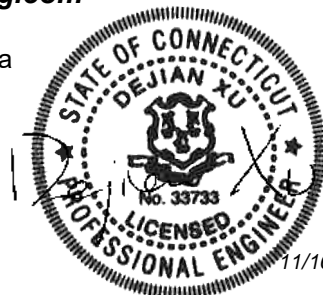
***Contractor PMI Requirements:

Included at the end of this MA report

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

For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Gianna Argentina



11/16/2023

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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: 324859, dated September 18, 2023
Mount Mapping Report	Hudson Design Group, LLC., Site #: 467177, dated March 29, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H Connecticut State Building Code (CSBC), Effective October 1, 2022	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, K_e :	120 mph 50 mph 1.50 in II C 1 N/A N/A 0.986
Seismic Parameters:	S_s : S_1 :	0.174 g 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Load, L_v : Maintenance Load, L_m :	30 mph 250 lbs. 500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
157.50	159.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		1	Raycap	RVZDC-6627-PF-48	

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 Colliers Engineering & Design 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 Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Tieback	1.6%	Pass
Pipe Mount	22.5%	Pass
Standoff Diag	24.0%	Pass
Corner Plate	29.1%	Pass
Standoff Front Vert	27.9%	Pass
Standoff Horizontal	31.5%	Pass
Face Horizontal	32.0%	Pass
Standoff Vert	36.8%	Pass
Standoff Plate	97.2%	Pass
Mount Connection	28.4%	Pass

Structure Rating – (Controlling Utilization of all Components)	97.2%*
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* Results valid after hardware upgrades noted in the PMI Requirements are installed.

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	46.1	41.3	63.0	58.1
0.5	65.1	60.5	90.0	83.4
1	82.6	76.9	114.8	106.6

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

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

Contractor shall replace existing position 2 mount pipe with new 84" long PIPE 2 SCH40 pipe (in all sectors). Install 41" from position 1 pipe. Top of pipe shall be 36" above top face horizontal. Attach using VZWSMART MSK1 crossover plates. Refer to placement diagrams.

Contractor shall install proposed OVP to top right (as seen from behind mount) Alpha sector standoff.

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

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000246277

SMART Project #: 10213564

Fuze Project ID: 16272371

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

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

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
 - The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

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

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

Issue:

Contractor shall replace existing position 2 mount pipe with new 84" long PIPE 2 SCH40 pipe (in all sectors). Install 41" from position 1 pipe. Top of pipe shall be 36" above top face horizontal. Attach using VZWSMART MSK1 crossover plates. Refer to placement diagrams.

Contractor shall install proposed OVP to top right (as seen from behind mount) Alpha sector standoff.

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

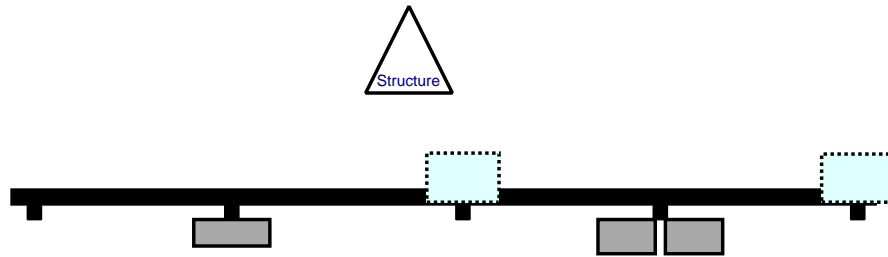
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

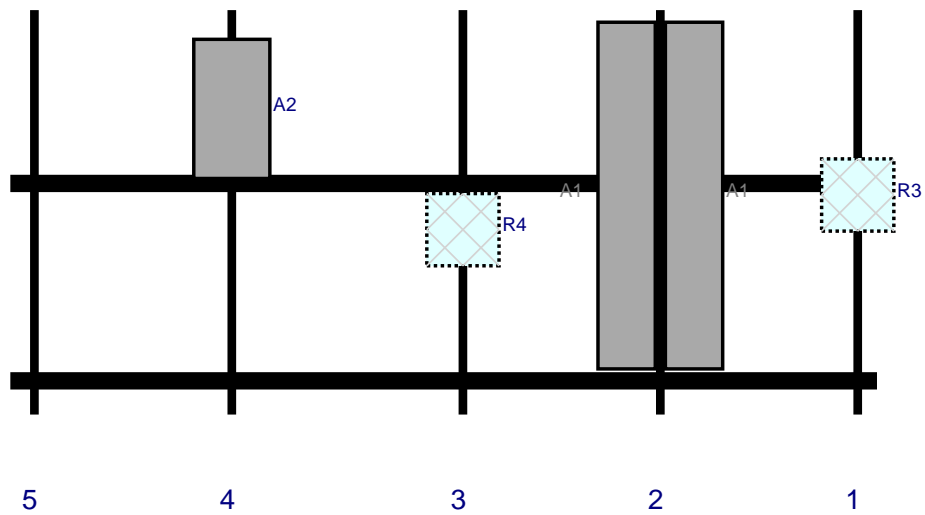
Certifying Individual:

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

Plan View

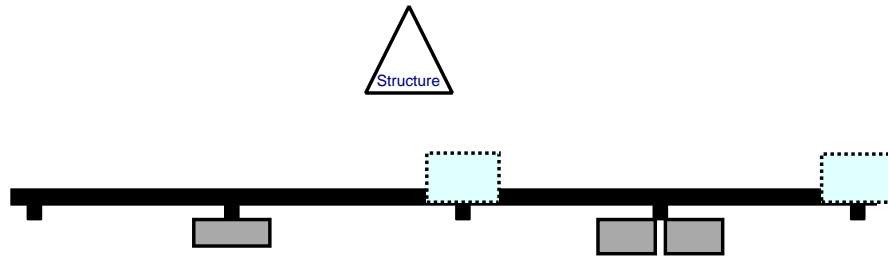


Front View - Looking at Structure

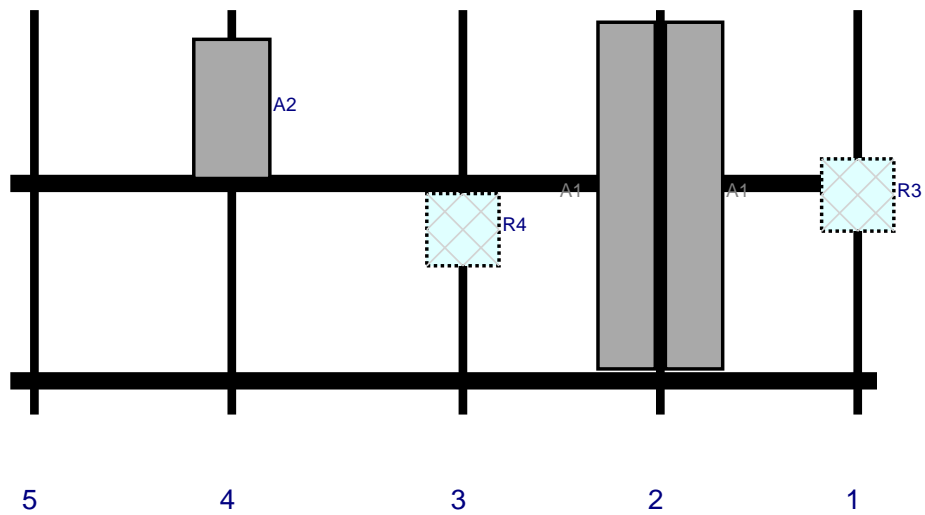


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	RF4439d-25A	15	15	176	1	a	Behind	38.4	0	Added	
A1	NHH-65B-R2B	72	11.9	135	2	a	Front	38.52	-7	Added	
A1	NHH-65B-R2B	72	11.9	135	2	b	Front	38.52	7	Added	
R4	RF4461d-13A	15	15	94	3	a	Behind	45.6	0	Added	
A2	MT6413-77A	28.9	15.8	46	4	a	Front	20.52	0	Added	
A26	RVZDC-6627-PF-48	29.5	16.5			Member				Added	

Plan View

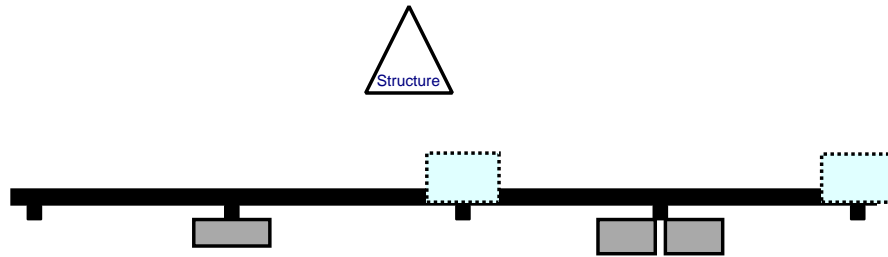


Front View - Looking at Structure

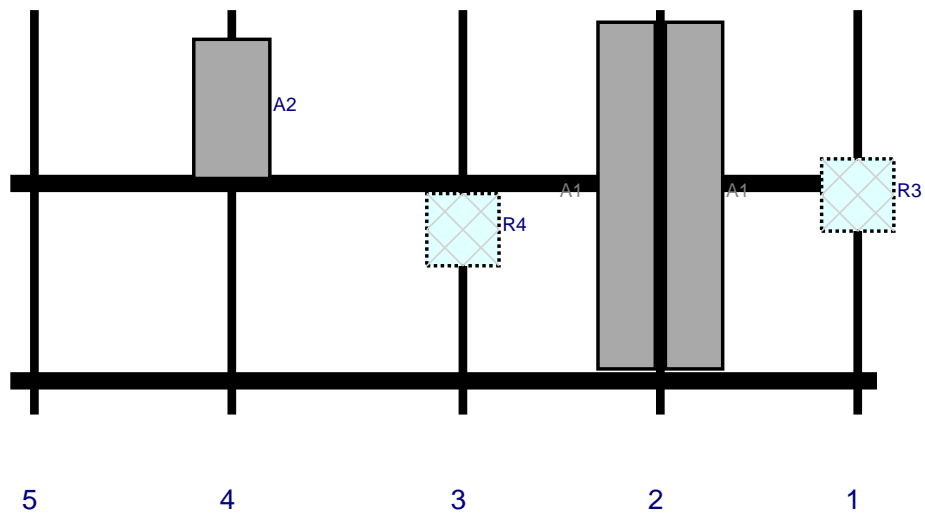


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	RF4439d-25A	15	15	176	1	a	Behind	38.4	0	Added	
A1	NHH-65B-R2B	72	11.9	135	2	a	Front	38.52	-7	Added	
A1	NHH-65B-R2B	72	11.9	135	2	b	Front	38.52	7	Added	
R4	RF4461d-13A	15	15	94	3	a	Behind	45.6	0	Added	
A2	MT6413-77A	28.9	15.8	46	4	a	Front	20.52	0	Added	

Plan View



Front View - Looking at Structure

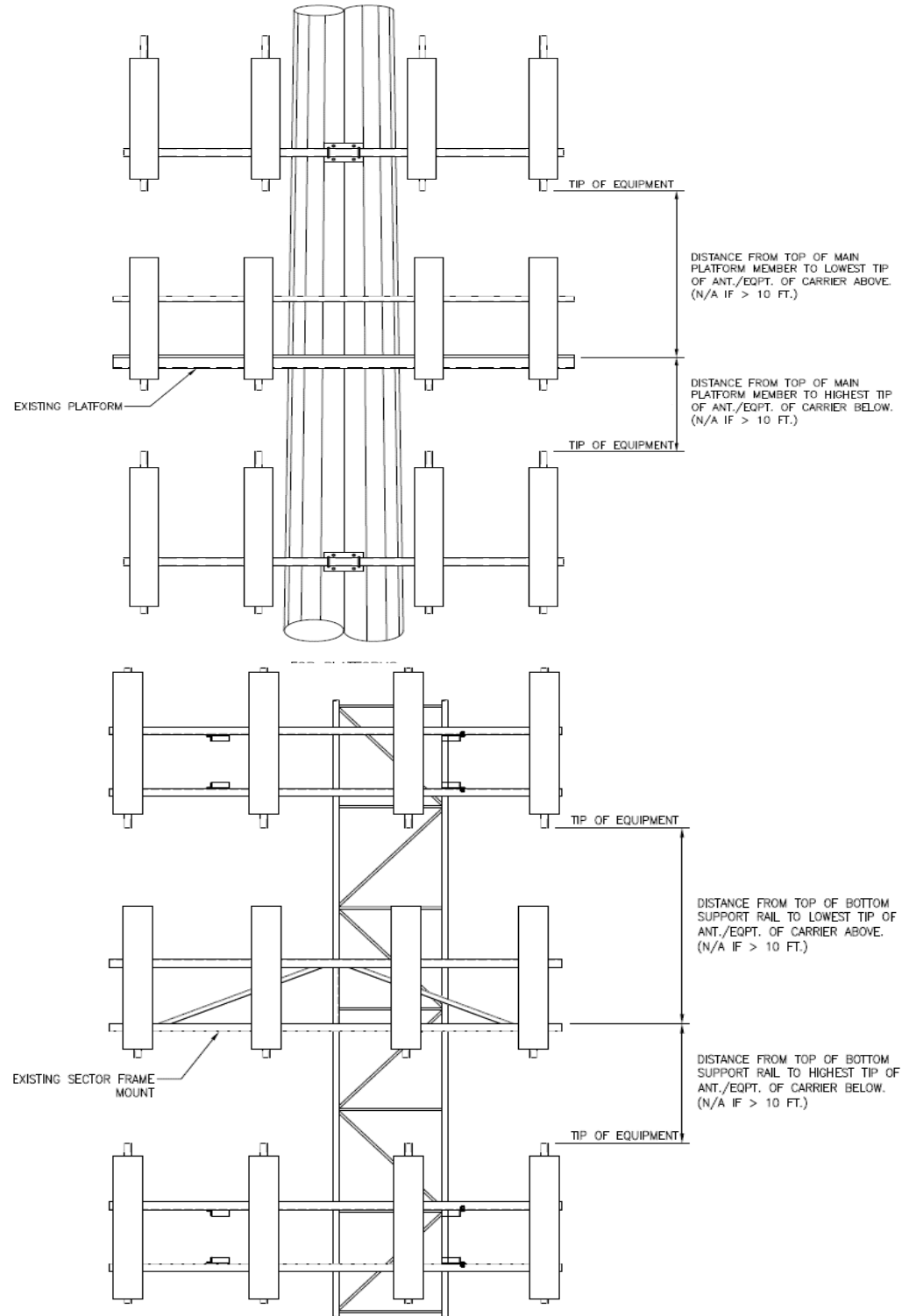


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	RF4439d-25A	15	15	176	1	a	Behind	38.4	0	Added	
A1	NHH-65B-R2B	72	11.9	135	2	a	Front	38.52	-7	Added	
A1	NHH-65B-R2B	72	11.9	135	2	b	Front	38.52	7	Added	
R4	RF4461d-13A	15	15	94	3	a	Behind	45.6	0	Added	
A2	MT6413-77A	28.9	15.8	46	4	a	Front	20.52	0	Added	



Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B														
Sector A:	0.00	Deg	Leg A:	40.00	Deg	Ant _{1a}														
Sector B:	110.00	Deg	Leg B:	160.00	Deg	Ant _{1b}	LPA-80063-4CF	15.00	13.00	48.00		158.583	20.00	16.00	110.00	34, 38				
Sector C:	250.00	Deg	Leg C:	280.00	Deg	Ant _{1c}														
Sector D:		Deg	Leg D:		Deg	Ant _{2a}														

Climbing Facility Information			
Location:	280.00	Deg	Sector C
Climbing Facility	Corrosion Type:	Good condition.	
	Access:	Climbing path was obstructed.	
	Condition:	Good condition.	



Ant _{2b}	HBXX-6517DS-A2M	12.00	6.50	75.00		158.583	20.00	9.50	110.00	30, 38
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	LNX-6514DS-A1M	12.00	7.50	73.00		158.333	30.00	8.00	110.00	31, 39
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	HBXX-6517DS-A2M	12.00	6.50	75.00		158.583	20.00	9.50	110.00	32, 39
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	LPA-80063-4CF	15.00	13.00	48.00		158.583	20.00	16.00	110.00	34, 40
Ant _{5c}										
Ant on Standoff	B4 RRH 2X60-4R	11.00	5.50	36.00						38
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Sector C											
Ant _{1a}											
Ant _{1b}	LPA-80063-4CF	15.00	13.00	48.00		158.583	20.00	16.00	250.00	34, 41	
Ant _{1c}											
Ant _{2a}											
Ant _{2b}	HBXX-6517DS-A2M	12.00	6.50	75.00		158.583	20.00	9.50	250.00	30, 41	
Ant _{2c}											
Ant _{3a}											
Ant _{3b}	LNX-6514DS-A1M	12.00	7.50	73.00		158.333	30.00	8.00	250.00	31, 41	
Ant _{3c}											
Ant _{4a}											
Ant _{4b}	HBXX-6517DS-A2M	12.00	6.50	75.00		158.583	20.00	9.50	250.00	30, 42	
Ant _{4c}											
Ant _{5a}											
Ant _{5b}	LPA-80063-4CF	15.00	13.00	48.00		158.583	20.00	16.00	250.00	34, 42	
Ant _{5c}											
Ant on Standoff	B4 RRH 2X60-4R	11.00	5.50	36.00						24	
Ant on Standoff											
Ant on Tower	RRFDC-3315-PF-48	15.00	10.00	28.00						43 - 45	
Ant on Tower											

Sector D											
Ant _{1a}											
Ant _{1b}											
Ant _{1c}											
Ant _{2a}											
Ant _{2b}											
Ant _{2c}											
Ant _{3a}											
Ant _{3b}											
Ant _{3c}											
Ant _{4a}											
Ant _{4b}											
Ant _{4c}											
Ant _{5a}											
Ant _{5b}											
Ant _{5c}											
Ant on Standoff											
Ant on Standoff											
Ant on Tower											
Ant on Tower											

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

1	(18) 1-5/8" COAX & (1) 1-1/4" HYBRID (1) 1/2" SUPERFLEX	44-51
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

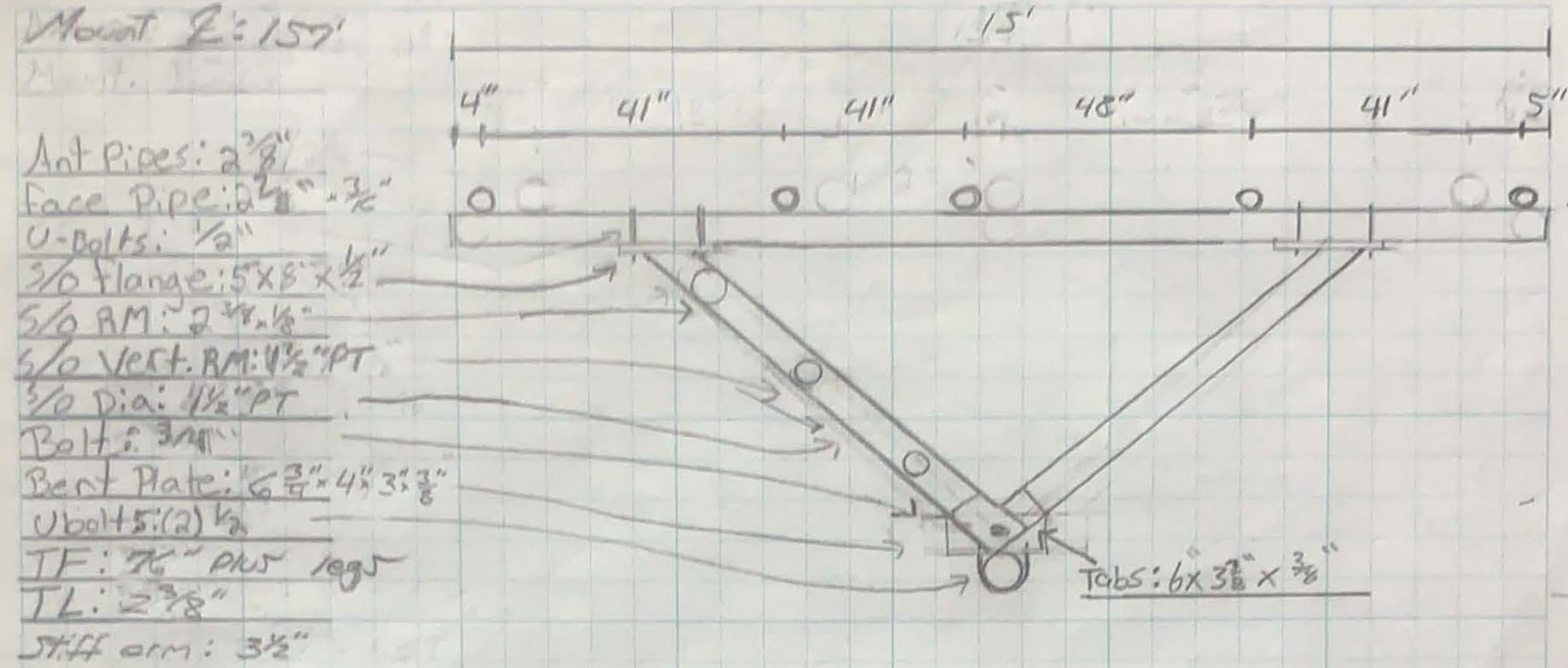
FCC #

Tower Owner:	CROWN CASTLE	Mapping Date:	3/29/2021
Site Name:	SOMERS CT	Tower Type:	Self Support
Site Number or ID:	467177	Tower Height (Ft.):	161
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	157

This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount

DATE: 3-29-21
 Project Name: SOMERS CT
 Project No.: _____
 Design By: Josh Chk'd By: _____ Page ____ of ____



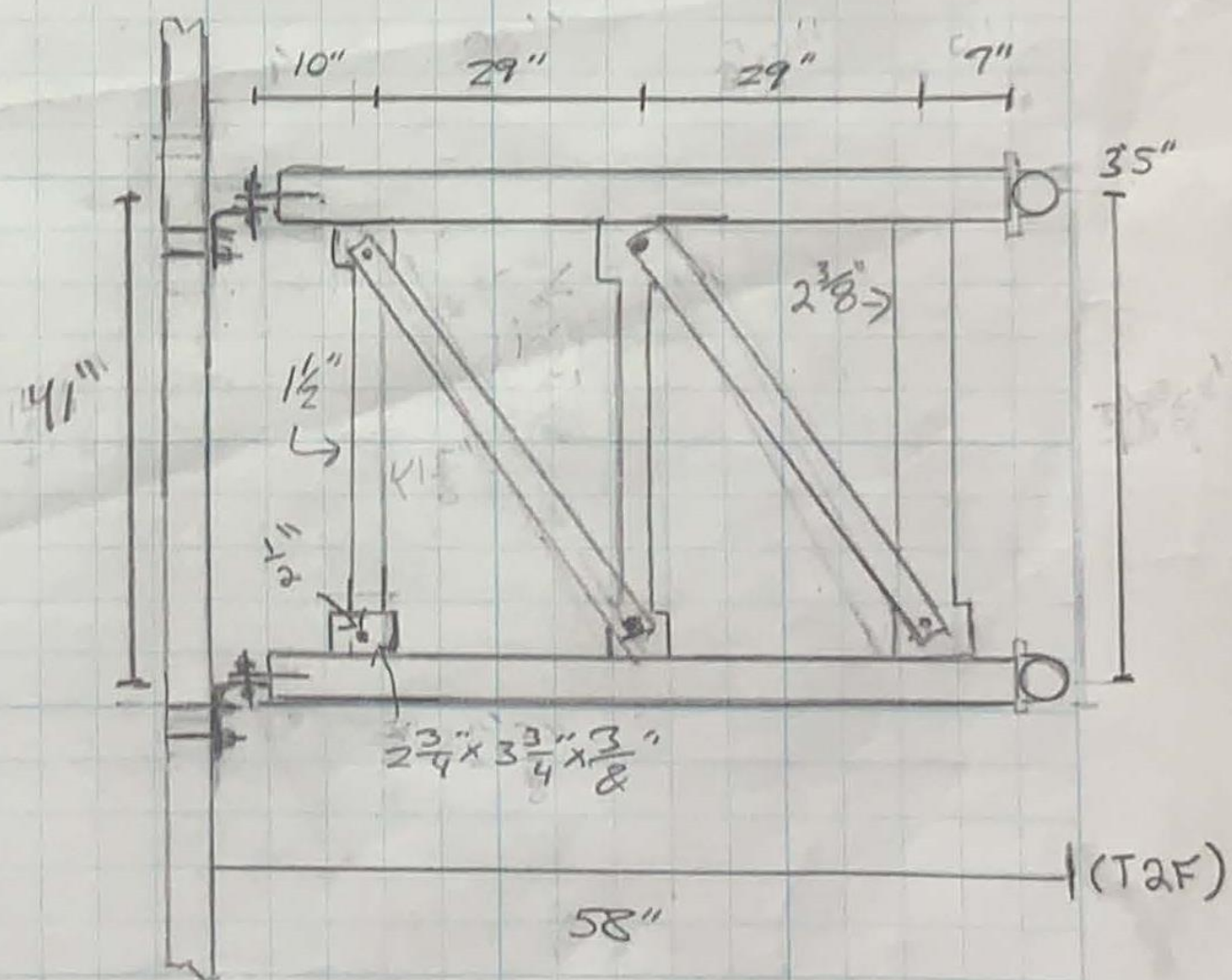
- #1
- A: APL 866513-42T6
- B: LPA-80063-4CF
- G: LPA-80063-4CF

- #2
- HBXX-6517D5-A2M

- #3
- LNX-6514D5-A1M

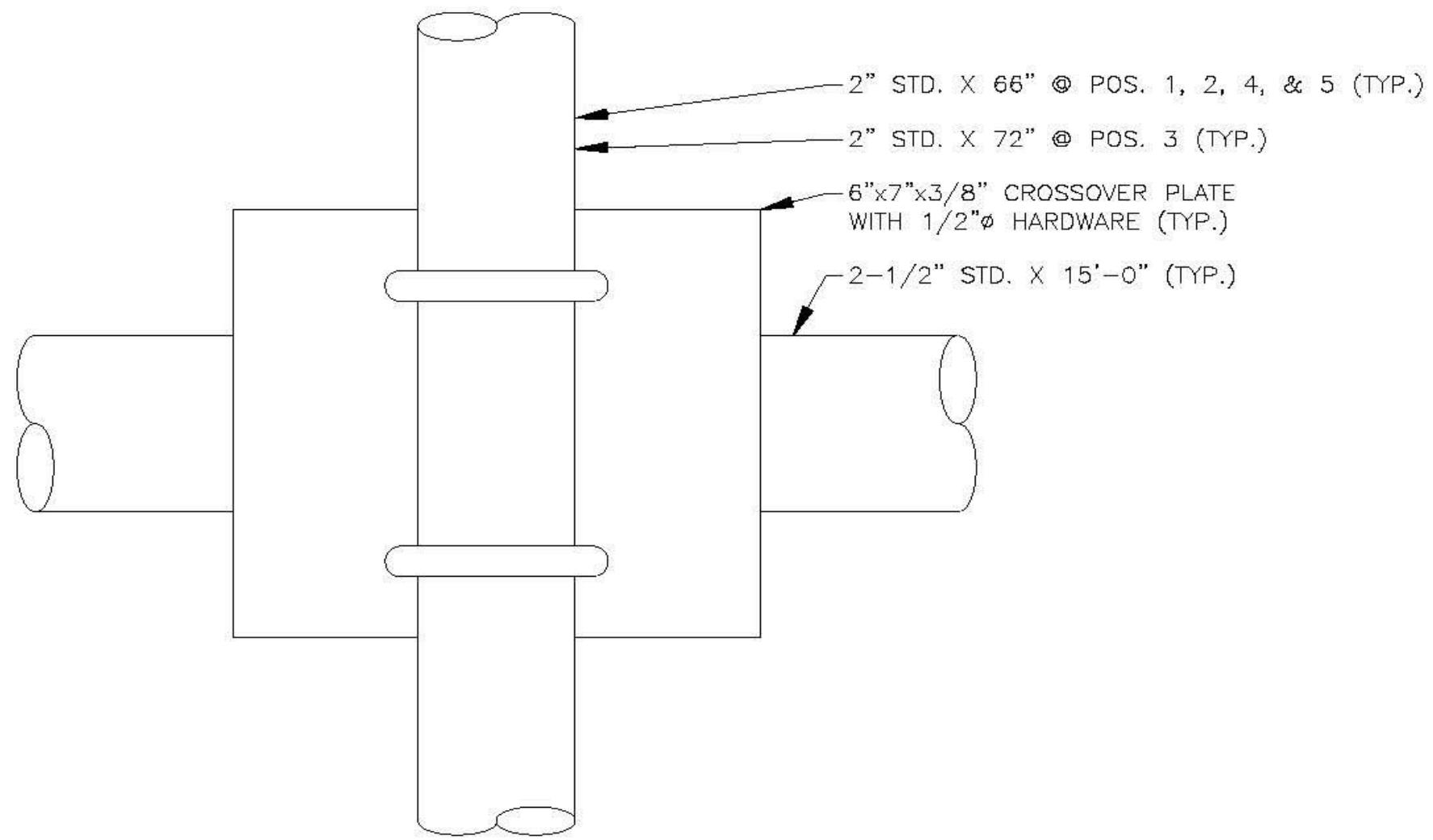
- #4
- HBXX-6517D5-A2M

- #5
- A: APL 866513-42T6
- B: LPA-80063-4CF
- G: LPA-80063-4CF

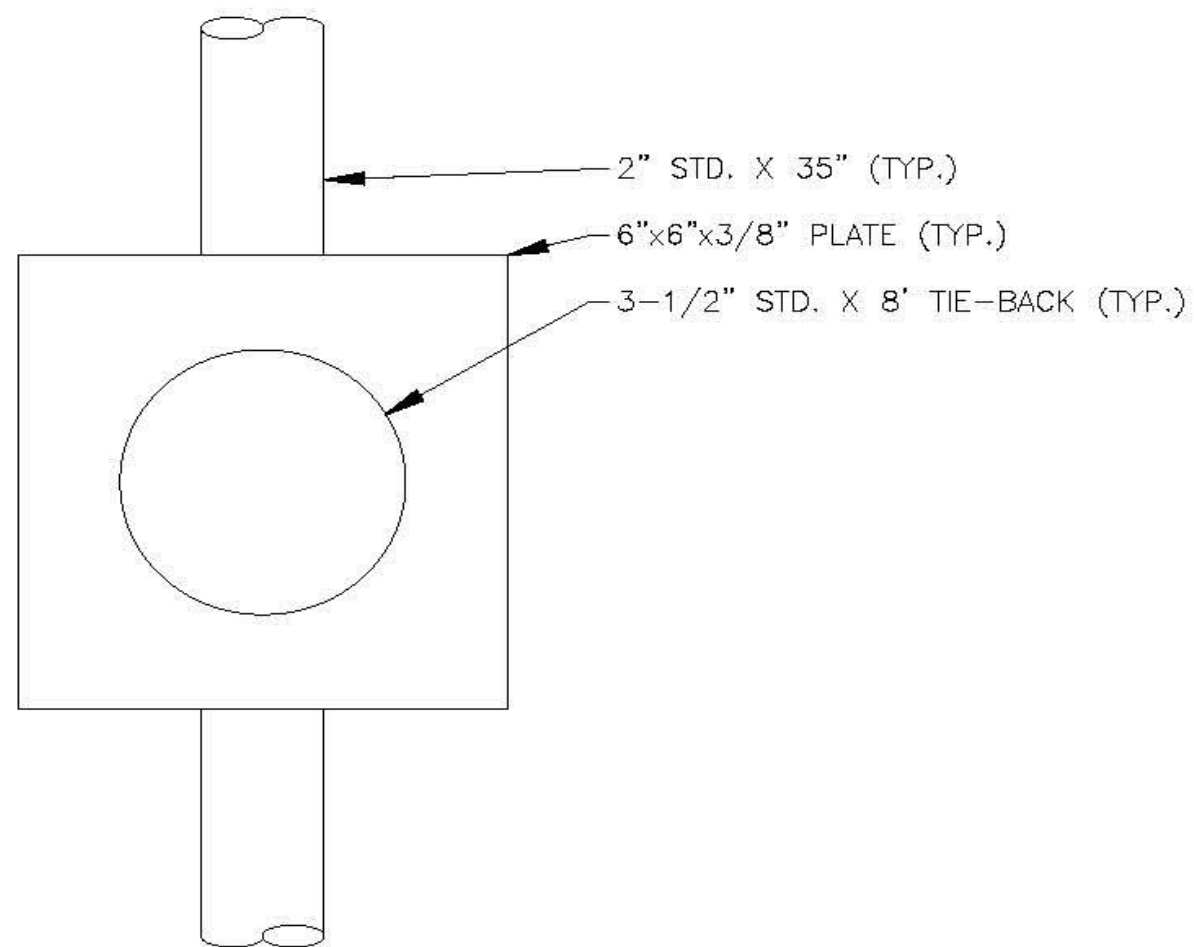


(1) OVP on coax ladder
 (1)

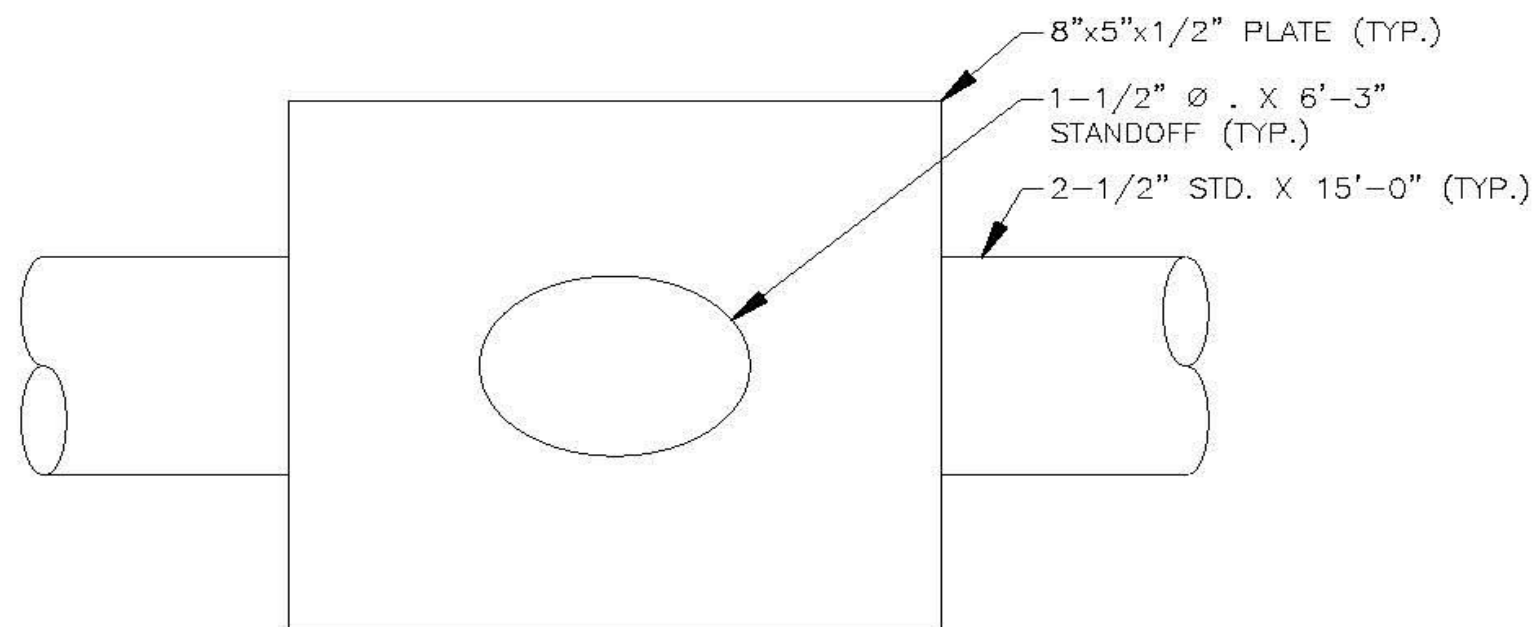
157132



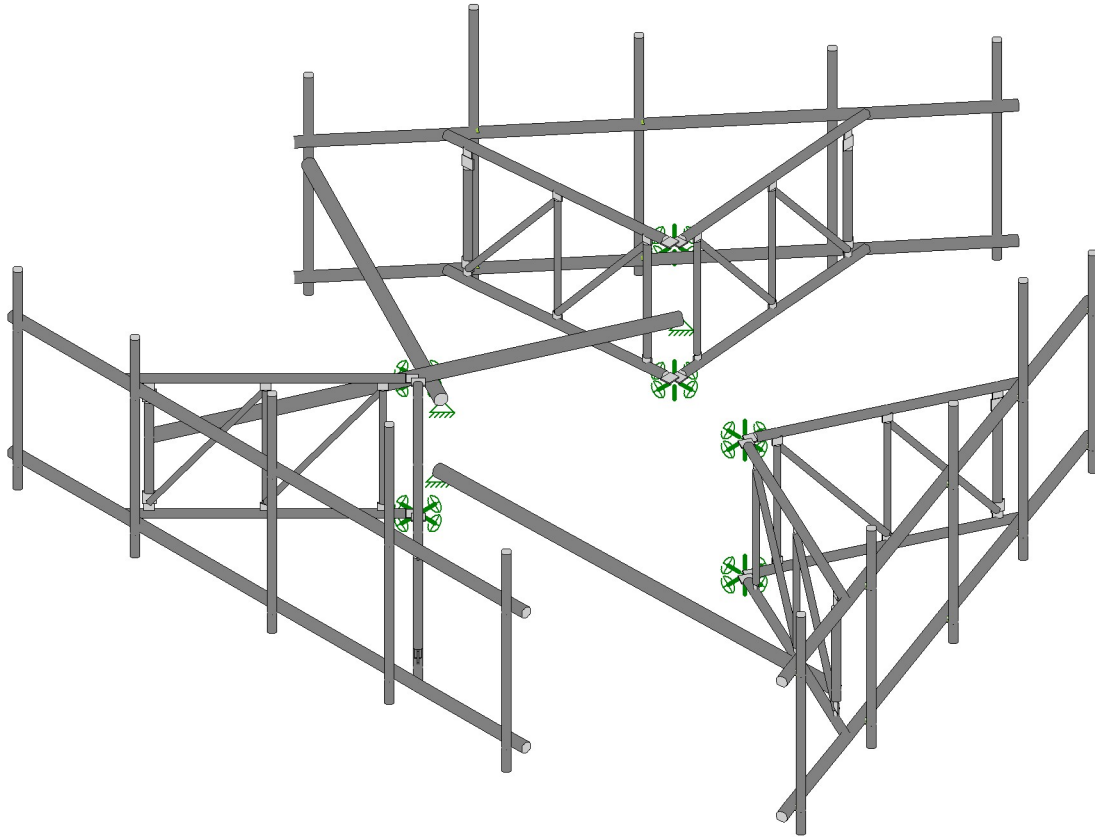
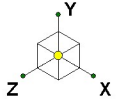
DETAIL C



STIFF ARM MOUNTING PLATE DETAIL



STANDOFF MOUNTING PLATE DETAIL



Envelope Only Solution

Colliers Engineering & Des...

5000246277-VZW_MT_LO_H

SK - 6

Nov 10, 2023 at 3:45 PM

5000246277-VZW_MT_LO_H.r3d



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
 3:46 PM
 Checked By: _____

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1 Antenna D	None					96		
2 Antenna Di	None					96		
3 Antenna Wo (0 Deg)	None					96		
4 Antenna Wo (30 Deg)	None					96		
5 Antenna Wo (60 Deg)	None					96		
6 Antenna Wo (90 Deg)	None					96		
7 Antenna Wo (120 Deg)	None					96		
8 Antenna Wo (150 Deg)	None					96		
9 Antenna Wo (180 Deg)	None					96		
10 Antenna Wo (210 Deg)	None					96		
11 Antenna Wo (240 Deg)	None					96		
12 Antenna Wo (270 Deg)	None					96		
13 Antenna Wo (300 Deg)	None					96		
14 Antenna Wo (330 Deg)	None					96		
15 Antenna Wi (0 Deg)	None					96		
16 Antenna Wi (30 Deg)	None					96		
17 Antenna Wi (60 Deg)	None					96		
18 Antenna Wi (90 Deg)	None					96		
19 Antenna Wi (120 Deg)	None					96		
20 Antenna Wi (150 Deg)	None					96		
21 Antenna Wi (180 Deg)	None					96		
22 Antenna Wi (210 Deg)	None					96		
23 Antenna Wi (240 Deg)	None					96		
24 Antenna Wi (270 Deg)	None					96		
25 Antenna Wi (300 Deg)	None					96		
26 Antenna Wi (330 Deg)	None					96		
27 Antenna Wm (0 Deg)	None					96		
28 Antenna Wm (30 Deg)	None					96		
29 Antenna Wm (60 Deg)	None					96		
30 Antenna Wm (90 Deg)	None					96		
31 Antenna Wm (120 Deg)	None					96		
32 Antenna Wm (150 Deg)	None					96		
33 Antenna Wm (180 Deg)	None					96		
34 Antenna Wm (210 Deg)	None					96		
35 Antenna Wm (240 Deg)	None					96		
36 Antenna Wm (270 Deg)	None					96		
37 Antenna Wm (300 Deg)	None					96		
38 Antenna Wm (330 Deg)	None					96		
39 Structure D	None		-1					
40 Structure Di	None						126	
41 Structure Wo (0 Deg)	None						252	
42 Structure Wo (30 Deg)	None						252	
43 Structure Wo (60 Deg)	None						252	
44 Structure Wo (90 Deg)	None						252	
45 Structure Wo (120 D...	None						252	
46 Structure Wo (150 D...	None						252	
47 Structure Wo (180 D...	None						252	
48 Structure Wo (210 D...	None						252	
49 Structure Wo (240 D...	None						252	
50 Structure Wo (270 D...	None						252	
51 Structure Wo (300 D...	None						252	
52 Structure Wo (330 D...	None						252	
53 Structure Wi (0 Deg)	None						252	



Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
54 Structure Wi (30 Deg)	None						252	
55 Structure Wi (60 Deg)	None						252	
56 Structure Wi (90 Deg)	None						252	
57 Structure Wi (120 De..)	None						252	
58 Structure Wi (150 De..)	None						252	
59 Structure Wi (180 De..)	None						252	
60 Structure Wi (210 De..)	None						252	
61 Structure Wi (240 De..)	None						252	
62 Structure Wi (270 De..)	None						252	
63 Structure Wi (300 De..)	None						252	
64 Structure Wi (330 De..)	None						252	
65 Structure Wm (0 Deg)	None						252	
66 Structure Wm (30 De..)	None						252	
67 Structure Wm (60 De..)	None						252	
68 Structure Wm (90 De..)	None						252	
69 Structure Wm (120 D..)	None						252	
70 Structure Wm (150 D..)	None						252	
71 Structure Wm (180 D..)	None						252	
72 Structure Wm (210 D..)	None						252	
73 Structure Wm (240 D..)	None						252	
74 Structure Wm (270 D..)	None						252	
75 Structure Wm (300 D..)	None						252	
76 Structure Wm (330 D..)	None						252	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 Antenna Ev	None					96		
82 Antenna Eh (0 Deg)	None					64		
83 Antenna Eh (90 Deg)	None					64		
84 Structure Ev	ELY		-0.038					
85 Structure Eh (0 Deg)	ELZ			-0.094				
86 Structure Eh (90 Deg)	ELX	.094						

Load Combinations

Description	Sol... P...	SR..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
1 1.2D+1.0...	Yes Y		1	1.2	39	1.2	3	1	41	1								
2 1.2D+1.0...	Yes Y		1	1.2	39	1.2	4	1	42	1								
3 1.2D+1.0...	Yes Y		1	1.2	39	1.2	5	1	43	1								
4 1.2D+1.0...	Yes Y		1	1.2	39	1.2	6	1	44	1								
5 1.2D+1.0...	Yes Y		1	1.2	39	1.2	7	1	45	1								
6 1.2D+1.0...	Yes Y		1	1.2	39	1.2	8	1	46	1								
7 1.2D+1.0...	Yes Y		1	1.2	39	1.2	9	1	47	1								
8 1.2D+1.0...	Yes Y		1	1.2	39	1.2	10	1	48	1								
9 1.2D+1.0...	Yes Y		1	1.2	39	1.2	11	1	49	1								
10 1.2D+1.0...	Yes Y		1	1.2	39	1.2	12	1	50	1								
11 1.2D+1.0...	Yes Y		1	1.2	39	1.2	13	1	51	1								
12 1.2D+1.0...	Yes Y		1	1.2	39	1.2	14	1	52	1								
13 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19 1.2D + 1.0...	Yes Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				



Load Combinations (Continued)

Description	Sol	P	SR	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact
20	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1
21	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1
22	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1
23	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1
24	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1		
26	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5	Yes	Y	1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y	1	1.4	39	1.4								
52	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83	ELZ 1 ELX
53	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5 ELZ .866 ELX .5
54	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866 ELZ .5 ELX .866
55	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1 ELZ ELX 1
56	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866 ELZ -.5 ELX .866
57	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5 ELZ -.866 ELX .5
58	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83	ELZ -1 ELX
59	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5 ELZ -.866 ELX -.5
60	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866 ELZ -.5 ELX -.866
61	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1 ELZ ELX -1
62	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866 ELZ .5 ELX -.866
63	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5 ELZ .866 ELX -.5
64	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	1	83	ELZ 1 ELX
65	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5 ELZ .866 ELX .5
66	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866 ELZ .5 ELX .866
67	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	1 ELZ ELX 1
68	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866 ELZ -.5 ELX .866
69	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5 ELZ -.866 ELX .5
70	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-1	83	ELZ -1 ELX
71	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5 ELZ -.866 ELX -.5
72	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866 ELZ -.5 ELX -.866
73	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	-1 ELZ ELX -1
74	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866 ELZ .5 ELX -.866
75	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5 ELZ .866 ELX -.5



Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	A1	-6.554068	0	7.784522	0	
2	A2	2.138682	0	7.784522	0	
3	A3	-2.207693	0	3.439376	0	
4	A4	-6.134164	0	7.364737	0	
5	A5	-4.428764	0	5.659819	0	
6	A6	-2.723365	0	3.954902	0	
7	A7	-1.692021	0	3.954902	0	
8	A8	0.013378	0	5.659819	0	
9	A9	1.718778	0	7.364737	0	
10	A10	-6.554068	3.416667	7.784522	0	
11	A11	2.138682	3.416667	7.784522	0	
12	A12	-2.207693	3.416667	3.439376	0	
13	A13	-6.134164	3.416667	7.364737	0	
14	A14	-4.428764	3.416667	5.659819	0	
15	A15	-2.723365	3.416667	3.954902	0	
16	A16	-1.692021	3.416667	3.954902	0	
17	A17	0.013378	3.416667	5.659819	0	
18	A18	1.718778	3.416667	7.364737	0	
19	A19	-6.134164	0.28125	7.364737	0	
20	A20	-4.428764	0.28125	5.659819	0	
21	A21	-2.723365	0.28125	3.954902	0	
22	A22	-1.692021	0.28125	3.954902	0	
23	A23	0.013378	0.28125	5.659819	0	
24	A24	1.718778	0.28125	7.364737	0	
25	A25	-6.134164	3.135417	7.364737	0	
26	A26	-4.428764	3.135417	5.659819	0	
27	A27	-2.723365	3.135417	3.954902	0	
28	A28	-1.692021	3.135417	3.954902	0	
29	A29	0.013378	3.135417	5.659819	0	
30	A30	1.718778	3.135417	7.364737	0	
31	A31	-2.030891	0	3.616128	0	
32	A32	-2.384495	0	3.616128	0	
33	A33	-2.030891	3.416667	3.616128	0	
34	A34	-2.384495	3.416667	3.616128	0	
35	A35	5.292307	0	7.784522	0	
36	A36	-9.707693	0	7.784522	0	
37	A37	5.292307	3.416667	7.784522	0	
38	A38	-9.707693	3.416667	7.784522	0	
39	A39	1.718778	0.5625	7.364737	0	
40	A40	1.718778	2.854167	7.364737	0	
41	A41	-6.134164	0.5625	7.364737	0	
42	A42	-6.134164	2.854167	7.364737	0	
43	A43	4.958974	0	8.034522	0	
44	A44	4.958974	3.416667	8.034522	0	
45	A45	4.958974	0	7.784522	0	
46	A46	4.958974	3.416667	7.784522	0	
47	A47	4.958974	4.916667	8.034522	0	
48	A48	4.958974	-0.583333	8.034522	0	
49	A49	1.542307	0	8.034522	0	
50	A50	1.542307	3.416667	8.034522	0	
51	A51	1.542307	0	7.784522	0	
52	A52	1.542307	3.416667	7.784522	0	
53	A53	1.542307	6.416667	8.034522	0	
54	A54	1.542307	-0.583333	8.034522	0	
55	A55	-1.87436	0	8.034522	0	
56	A56	-1.87436	3.416667	8.034522	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	A57	-1.87436	0	7.784522	0	
58	A58	-1.87436	3.416667	7.784522	0	
59	A59	-1.87436	5.5	8.034522	0	
60	A60	-1.87436	-.5	8.034522	0	
61	A61	-5.87436	0	8.034522	0	
62	A62	-5.87436	3.416667	8.034522	0	
63	A63	-5.87436	0	7.784522	0	
64	A64	-5.87436	3.416667	7.784522	0	
65	A65	-5.87436	4.916667	8.034522	0	
66	A66	-5.87436	-0.583333	8.034522	0	
67	A67	-9.291026	0	8.034522	0	
68	A68	-9.291026	3.416667	8.034522	0	
69	A69	-9.291026	0	7.784522	0	
70	A70	-9.291026	3.416667	7.784522	0	
71	A71	-9.291026	4.916667	8.034522	0	
72	A72	-9.291026	-0.583333	8.034522	0	
73	B73	-2.380877	0	-9.795035	0	
74	B74	-7.968469	0	-3.136002	0	
75	B75	-1.846098	0	-3.672512	0	
76	B76	-2.329212	0	-9.203537	0	
77	B77	-2.119379	0	-6.801225	0	
78	B78	-1.909547	0	-4.398914	0	
79	B79	-2.572481	0	-3.608859	0	
80	B80	-4.974733	0	-3.398347	0	
81	B81	-7.376986	0	-3.187835	0	
82	B82	-2.380877	3.416667	-9.795035	0	
83	B83	-7.968469	3.416667	-3.136002	0	
84	B84	-1.846098	3.416667	-3.672512	0	
85	B85	-2.329212	3.416667	-9.203537	0	
86	B86	-2.119379	3.416667	-6.801225	0	
87	B87	-1.909547	3.416667	-4.398914	0	
88	B88	-2.572481	3.416667	-3.608859	0	
89	B89	-4.974733	3.416667	-3.398347	0	
90	B90	-7.376986	3.416667	-3.187835	0	
91	B91	-2.329212	0.28125	-9.203537	0	
92	B92	-2.119379	0.28125	-6.801225	0	
93	B93	-1.909547	0.28125	-4.398914	0	
94	B94	-2.572481	0.28125	-3.608859	0	
95	B95	-4.974733	0.28125	-3.398347	0	
96	B96	-7.376986	0.28125	-3.187835	0	
97	B97	-2.329212	3.135417	-9.203537	0	
98	B98	-2.119379	3.135417	-6.801225	0	
99	B99	-1.909547	3.135417	-4.398914	0	
100	B100	-2.572481	3.135417	-3.608859	0	
101	B101	-4.974733	3.135417	-3.398347	0	
102	B102	-7.376986	3.135417	-3.187835	0	
103	B103	-2.095144	0	-3.650689	0	
104	B104	-1.867852	0	-3.921564	0	
105	B105	-2.095144	3.416667	-3.650689	0	
106	B106	-1.867852	3.416667	-3.921564	0	
107	B107	-9.99558	0	-0.720185	0	
108	B108	-0.353766	0	-12.210852	0	
109	B109	-9.99558	3.416667	-0.720185	0	
110	B110	-0.353766	3.416667	-12.210852	0	
111	B111	-7.376986	0.5625	-3.187835	0	
112	B112	-7.376986	2.854167	-3.187835	0	
113	B113	-2.329212	0.5625	-9.203537	0	



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
 3:46 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
114	B114	-2.329212	2.854167	-9.203537	0	
115	B115	-9.972829	0	-1.13623	0	
116	B116	-9.972829	3.416667	-1.13623	0	
117	B117	-9.781317	0	-0.975533	0	
118	B118	-9.781317	3.416667	-0.975533	0	
119	B119	-9.972829	4.916667	-1.13623	0	
120	B120	-9.972829	-0.583333	-1.13623	0	
121	B121	-7.776638	0	-3.753549	0	
122	B122	-7.776638	3.416667	-3.753549	0	
123	B123	-7.585126	0	-3.592852	0	
124	B124	-7.585126	3.416667	-3.592852	0	
125	B125	-7.776638	6.416667	-3.753549	0	
126	B126	-7.776638	-0.583333	-3.753549	0	
127	B127	-5.580447	0	-6.370867	0	
128	B128	-5.580447	3.416667	-6.370867	0	
129	B129	-5.388935	0	-6.21017	0	
130	B130	-5.388935	3.416667	-6.21017	0	
131	B131	-5.580447	5.5	-6.370867	0	
132	B132	-5.580447	-.5	-6.370867	0	
133	B133	-3.009296	0	-9.435045	0	
134	B134	-3.009296	3.416667	-9.435045	0	
135	B135	-2.817785	0	-9.274348	0	
136	B136	-2.817785	3.416667	-9.274348	0	
137	B137	-3.009296	4.916667	-9.435045	0	
138	B138	-3.009296	-0.583333	-9.435045	0	
139	B139	-0.813105	0	-12.052364	0	
140	B140	-0.813105	3.416667	-12.052364	0	
141	B141	-0.621594	0	-11.891667	0	
142	B142	-0.621594	3.416667	-11.891667	0	
143	B143	-0.813105	4.916667	-12.052364	0	
144	B144	-0.813105	-0.583333	-12.052364	0	
145	C145	9.673188	0	2.835618	0	
146	C146	6.700092	0	-5.332895	0	
147	C147	4.103538	0	0.237488	0	
148	C148	9.135103	0	2.584612	0	
149	C149	6.949724	0	1.565176	0	
150	C150	4.764344	0	0.545741	0	
151	C151	4.411604	0	-0.423405	0	
152	C152	5.430421	0	-2.609072	0	
153	C153	6.449239	0	-4.79474	0	
154	C154	9.673188	3.416667	2.835618	0	
155	C155	6.700092	3.416667	-5.332895	0	
156	C156	4.103538	3.416667	0.237488	0	
157	C157	9.135103	3.416667	2.584612	0	
158	C158	6.949724	3.416667	1.565176	0	
159	C159	4.764344	3.416667	0.545741	0	
160	C160	4.411604	3.416667	-0.423405	0	
161	C161	5.430421	3.416667	-2.609072	0	
162	C162	6.449239	3.416667	-4.79474	0	
163	C163	9.135103	0.28125	2.584612	0	
164	C164	6.949724	0.28125	1.565176	0	
165	C165	4.764344	0.28125	0.545741	0	
166	C166	4.411604	0.28125	-0.423405	0	
167	C167	5.430421	0.28125	-2.609072	0	
168	C168	6.449239	0.28125	-4.79474	0	
169	C169	9.135103	3.135417	2.584612	0	
170	C170	6.949724	3.135417	1.565176	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
171	C171	4.764344	3.135417	0.545741	0	
172	C172	4.411604	3.135417	-0.423405	0	
173	C173	5.430421	3.135417	-2.609072	0	
174	C174	6.449239	3.135417	-4.79474	0	
175	C175	4.209161	0	0.010897	0	
176	C176	4.3301	0	0.343175	0	
177	C177	4.209161	3.416667	0.010897	0	
178	C178	4.3301	3.416667	0.343175	0	
179	C179	5.621489	0	-8.296334	0	
180	C180	10.751791	0	5.799056	0	
181	C181	5.621489	3.416667	-8.296334	0	
182	C182	10.751791	3.416667	5.799056	0	
183	C183	6.449239	0.5625	-4.79474	0	
184	C184	6.449239	2.854167	-4.79474	0	
185	C185	9.135103	0.5625	2.584612	0	
186	C186	9.135103	2.854167	2.584612	0	
187	C187	5.970419	0	-8.068608	0	
188	C188	5.970419	3.416667	-8.068608	0	
189	C189	5.735495	0	-7.983103	0	
190	C190	5.735495	3.416667	-7.983103	0	
191	C191	5.970419	4.916667	-8.068608	0	
192	C192	5.970419	-0.583333	-8.068608	0	
193	C193	7.138987	0	-4.857991	0	
194	C194	7.138987	3.416667	-4.857991	0	
195	C195	6.904064	0	-4.772486	0	
196	C196	6.904064	3.416667	-4.772486	0	
197	C197	7.138987	6.416667	-4.857991	0	
198	C198	7.138987	-0.583333	-4.857991	0	
199	C199	8.307556	0	-1.647375	0	
200	C200	8.307556	3.416667	-1.647375	0	
201	C201	8.072633	0	-1.56187	0	
202	C202	8.072633	3.416667	-1.56187	0	
203	C203	8.307556	5.5	-1.647375	0	
204	C204	8.307556	-.5	-1.647375	0	
205	C205	9.675637	0	2.111396	0	
206	C206	9.675637	3.416667	2.111396	0	
207	C207	9.440714	0	2.196901	0	
208	C208	9.440714	3.416667	2.196901	0	
209	C209	9.675637	4.916667	2.111396	0	
210	C210	9.675637	-0.583333	2.111396	0	
211	C211	10.844206	0	5.322012	0	
212	C212	10.844206	3.416667	5.322012	0	
213	C213	10.609283	0	5.407517	0	
214	C214	10.609283	3.416667	5.407517	0	
215	C215	10.844206	4.916667	5.322012	0	
216	C216	10.844206	-0.583333	5.322012	0	
217	N217	-6.134164	1.958333	7.364737	0	
218	N218	9.135103	0.8125	2.584612	0	
219	N219	-1.359407	1.958333	-3.371564	0	
220	N220	-2.215483	0.8125	2.861355	0	
221	N221	-9.972829	2.666667	-1.13623	0	
222	N222	-2.077819	2.666667	2.891764	0	



Hot Rolled Steel Section Sets

	Label	Shape	Type	Design Li...	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
2	Standoff Horizontal	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Standoff Diag	Rohn 1.5x16GA	None	None	A53 Gr.B	Typical	.263	.068	.068	.137
4	Standoff Front Vert	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Standoff Vert	Rohn 1.5x16GA	None	None	A53 Gr.B	Typical	.263	.068	.068	.137
6	TES PIPE	PIPE 1.5	None	None	A53 Gr.B	Typical	.749	.293	.293	.586
7	Standoff Plate	PL3/8X3.5	None	None	A36 Gr.36	Typical	1.313	.015	1.34	.057
8	Corner Plate	PL3/8X3.5	None	None	A36 Gr.36	Typical	1.313	.015	1.34	.057
9	Bracing Plate	PL3/8x2.75	None	None	A36 Gr.36	Typical	1.031	.012	.65	.044
10	Tieback	PIPE 3.0	None	None	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
11	Pipe Mount	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	A1	A32	A3		90	Standoff Plate	None	None	A36 Gr.36	Typical
2	A2	A3	A31		90	Standoff Plate	None	None	A36 Gr.36	Typical
3	A3	A34	A12		90	Standoff Plate	None	None	A36 Gr.36	Typical
4	A4	A12	A33		90	Standoff Plate	None	None	A36 Gr.36	Typical
5	A5	A19	A4		135	Bracing Plate	None	None	A36 Gr.36	Typical
6	A6	A20	A5		135	Bracing Plate	None	None	A36 Gr.36	Typical
7	A7	A21	A6		135	Bracing Plate	None	None	A36 Gr.36	Typical
8	A8	A22	A7		225	Bracing Plate	None	None	A36 Gr.36	Typical
9	A9	A23	A8		225	Bracing Plate	None	None	A36 Gr.36	Typical
10	A10	A24	A9		225	Bracing Plate	None	None	A36 Gr.36	Typical
11	A11	A25	A13		45	Bracing Plate	None	None	A36 Gr.36	Typical
12	A12	A26	A14		45	Bracing Plate	None	None	A36 Gr.36	Typical
13	A13	A27	A15		45	Bracing Plate	None	None	A36 Gr.36	Typical
14	A14	A28	A16		315	Bracing Plate	None	None	A36 Gr.36	Typical
15	A15	A29	A17		315	Bracing Plate	None	None	A36 Gr.36	Typical
16	A16	A30	A18		315	Bracing Plate	None	None	A36 Gr.36	Typical
17	A17	A26	A20		90	Standoff Vert	None	None	A53 Gr.B	Typical
18	A18	A27	A21		90	Standoff Vert	None	None	A53 Gr.B	Typical
19	A19	A28	A22		90	Standoff Vert	None	None	A53 Gr.B	Typical
20	A20	A29	A23		90	Standoff Vert	None	None	A53 Gr.B	Typical
21	A21	A35	A36			Face Horizontal	None	None	A53 Gr.B	Typical
22	A22	A37	A38			Face Horizontal	None	None	A53 Gr.B	Typical
23	A23	A31	A2			Standoff Horiz...	None	None	A53 Gr.B	Typical
24	A24	A32	A1			Standoff Horiz...	None	None	A53 Gr.B	Typical
25	A25	A33	A11			Standoff Horiz...	None	None	A53 Gr.B	Typical
26	A26	A34	A10			Standoff Horiz...	None	None	A53 Gr.B	Typical
27	A27	A30	A40		225	Corner Plate	None	None	A36 Gr.36	Typical
28	A28	A39	A24		225	Corner Plate	None	None	A36 Gr.36	Typical
29	A29	A40	A39		90	Standoff Front ...	None	None	A53 Gr.B	Typical



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
 3:46 PM
 Checked By: _____

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
30	A30	A42	A41		90	Standoff Front ...	None	None	A53 Gr.B	Typical
31	A31	A25	A42		135	Corner Plate	None	None	A36 Gr.36	Typical
32	A32	A41	A19		135	Corner Plate	None	None	A36 Gr.36	Typical
33	A33	A28	A23			Standoff Diag	None	None	A53 Gr.B	Typical
34	A34	A29	A24			Standoff Diag	None	None	A53 Gr.B	Typical
35	A35	A27	A20			Standoff Diag	None	None	A53 Gr.B	Typical
36	A36	A26	A19			Standoff Diag	None	None	A53 Gr.B	Typical
37	A37	A46	A44			RIGID	None	None	RIGID	Typical
38	A38	A45	A43			RIGID	None	None	RIGID	Typical
39	MP1A	A47	A48			Pipe Mount	None	None	A53 Gr.B	Typical
40	A40	A52	A50			RIGID	None	None	RIGID	Typical
41	A41	A51	A49			RIGID	None	None	RIGID	Typical
42	MP2A	A53	A54			Pipe Mount	None	None	A53 Gr.B	Typical
43	A43	A58	A56			RIGID	None	None	RIGID	Typical
44	A44	A57	A55			RIGID	None	None	RIGID	Typical
45	MP3A	A59	A60			Pipe Mount	None	None	A53 Gr.B	Typical
46	A46	A64	A62			RIGID	None	None	RIGID	Typical
47	A47	A63	A61			RIGID	None	None	RIGID	Typical
48	MP4A	A65	A66			Pipe Mount	None	None	A53 Gr.B	Typical
49	A49	A70	A68			RIGID	None	None	RIGID	Typical
50	A50	A69	A67			RIGID	None	None	RIGID	Typical
51	MP5A	A71	A72			Pipe Mount	None	None	A53 Gr.B	Typical
52	B52	B104	B75		90	Standoff Plate	None	None	A36 Gr.36	Typical
53	B53	B75	B103		90	Standoff Plate	None	None	A36 Gr.36	Typical
54	B54	B106	B84		90	Standoff Plate	None	None	A36 Gr.36	Typical
55	B55	B84	B105		90	Standoff Plate	None	None	A36 Gr.36	Typical
56	B56	B91	B76		265	Bracing Plate	None	None	A36 Gr.36	Typical
57	B57	B92	B77		265	Bracing Plate	None	None	A36 Gr.36	Typical
58	B58	B93	B78		265	Bracing Plate	None	None	A36 Gr.36	Typical
59	B59	B94	B79		355	Bracing Plate	None	None	A36 Gr.36	Typical
60	B60	B95	B80		355	Bracing Plate	None	None	A36 Gr.36	Typical
61	B61	B96	B81		355	Bracing Plate	None	None	A36 Gr.36	Typical
62	B62	B97	B85		275	Bracing Plate	None	None	A36 Gr.36	Typical
63	B63	B98	B86		275	Bracing Plate	None	None	A36 Gr.36	Typical
64	B64	B99	B87		275	Bracing Plate	None	None	A36 Gr.36	Typical
65	B65	B100	B88		185	Bracing Plate	None	None	A36 Gr.36	Typical
66	B66	B101	B89		185	Bracing Plate	None	None	A36 Gr.36	Typical
67	B67	B102	B90		185	Bracing Plate	None	None	A36 Gr.36	Typical
68	B68	B98	B92		220	Standoff Vert	None	None	A53 Gr.B	Typical
69	B69	B99	B93		220	Standoff Vert	None	None	A53 Gr.B	Typical
70	B70	B100	B94		220	TES PIPE	None	None	A53 Gr.B	Typical
71	B71	B101	B95		220	Standoff Vert	None	None	A53 Gr.B	Typical
72	B72	B107	B108			Face Horizontal	None	None	A53 Gr.B	Typical
73	B73	B109	B110			Face Horizontal	None	None	A53 Gr.B	Typical
74	B74	B103	B74			Standoff Horiz...	None	None	A53 Gr.B	Typical
75	B75	B104	B73			Standoff Horiz...	None	None	A53 Gr.B	Typical
76	B76	B105	B83			Standoff Horiz...	None	None	A53 Gr.B	Typical
77	B77	B106	B82			Standoff Horiz...	None	None	A53 Gr.B	Typical
78	B78	B102	B112		355	Corner Plate	None	None	A36 Gr.36	Typical
79	B79	B111	B96		355	Corner Plate	None	None	A36 Gr.36	Typical
80	B80	B112	B111		220	Standoff Front ...	None	None	A53 Gr.B	Typical
81	B81	B114	B113		220	Standoff Front ...	None	None	A53 Gr.B	Typical
82	B82	B97	B114		265	Corner Plate	None	None	A36 Gr.36	Typical
83	B83	B113	B91		265	Corner Plate	None	None	A36 Gr.36	Typical
84	B84	B100	B95			Standoff Diag	None	None	A53 Gr.B	Typical
85	B85	B101	B96			Standoff Diag	None	None	A53 Gr.B	Typical
86	B86	B99	B92			Standoff Diag	None	None	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	B87	B98	B91			Standoff Diag	None	None	A53 Gr.B	Typical
88	B88	B118	B116			RIGID	None	None	RIGID	Typical
89	B89	B117	B115			RIGID	None	None	RIGID	Typical
90	MP1B	B119	B120			Pipe Mount	None	None	A53 Gr.B	Typical
91	B91	B124	B122			RIGID	None	None	RIGID	Typical
92	B92	B123	B121			RIGID	None	None	RIGID	Typical
93	MP2B	B125	B126			Pipe Mount	None	None	A53 Gr.B	Typical
94	B94	B130	B128			RIGID	None	None	RIGID	Typical
95	B95	B129	B127			RIGID	None	None	RIGID	Typical
96	MP3B	B131	B132			Pipe Mount	None	None	A53 Gr.B	Typical
97	B97	B136	B134			RIGID	None	None	RIGID	Typical
98	B98	B135	B133			RIGID	None	None	RIGID	Typical
99	MP4B	B137	B138			Pipe Mount	None	None	A53 Gr.B	Typical
100	B100	B142	B140			RIGID	None	None	RIGID	Typical
101	B101	B141	B139			RIGID	None	None	RIGID	Typical
102	MP5B	B143	B144			Pipe Mount	None	None	A53 Gr.B	Typical
103	C103	C176	C147		90	Standoff Plate	None	None	A36 Gr.36	Typical
104	C104	C147	C175		90	Standoff Plate	None	None	A36 Gr.36	Typical
105	C105	C178	C156		90	Standoff Plate	None	None	A36 Gr.36	Typical
106	C106	C156	C177		90	Standoff Plate	None	None	A36 Gr.36	Typical
107	C107	C163	C148		25	Bracing Plate	None	None	A36 Gr.36	Typical
108	C108	C164	C149		25	Bracing Plate	None	None	A36 Gr.36	Typical
109	C109	C165	C150		25	Bracing Plate	None	None	A36 Gr.36	Typical
110	C110	C166	C151		115	Bracing Plate	None	None	A36 Gr.36	Typical
111	C111	C167	C152		115	Bracing Plate	None	None	A36 Gr.36	Typical
112	C112	C168	C153		115	Bracing Plate	None	None	A36 Gr.36	Typical
113	C113	C169	C157		155	Bracing Plate	None	None	A36 Gr.36	Typical
114	C114	C170	C158		155	Bracing Plate	None	None	A36 Gr.36	Typical
115	C115	C171	C159		155	Bracing Plate	None	None	A36 Gr.36	Typical
116	C116	C172	C160		65	Bracing Plate	None	None	A36 Gr.36	Typical
117	C117	C173	C161		65	Bracing Plate	None	None	A36 Gr.36	Typical
118	C118	C174	C162		65	Bracing Plate	None	None	A36 Gr.36	Typical
119	C119	C170	C164		340	Standoff Vert	None	None	A53 Gr.B	Typical
120	C120	C171	C165		340	Standoff Vert	None	None	A53 Gr.B	Typical
121	C121	C172	C166		340	Standoff Vert	None	None	A53 Gr.B	Typical
122	C122	C173	C167		340	Standoff Vert	None	None	A53 Gr.B	Typical
123	C123	C179	C180			Face Horizontal	None	None	A53 Gr.B	Typical
124	C124	C181	C182			Face Horizontal	None	None	A53 Gr.B	Typical
125	C125	C175	C146			Standoff Horiz...	None	None	A53 Gr.B	Typical
126	C126	C176	C145			Standoff Horiz...	None	None	A53 Gr.B	Typical
127	C127	C177	C155			Standoff Horiz...	None	None	A53 Gr.B	Typical
128	C128	C178	C154			Standoff Horiz...	None	None	A53 Gr.B	Typical
129	C129	C174	C184		115	Corner Plate	None	None	A36 Gr.36	Typical
130	C130	C183	C168		115	Corner Plate	None	None	A36 Gr.36	Typical
131	C131	C184	C183		340	Standoff Front ...	None	None	A53 Gr.B	Typical
132	C132	C186	C185		340	Standoff Front ...	None	None	A53 Gr.B	Typical
133	C133	C169	C186		25	Corner Plate	None	None	A36 Gr.36	Typical
134	C134	C185	C163		25	Corner Plate	None	None	A36 Gr.36	Typical
135	C135	C172	C167			Standoff Diag	None	None	A53 Gr.B	Typical
136	C136	C173	C168			Standoff Diag	None	None	A53 Gr.B	Typical
137	C137	C171	C164			Standoff Diag	None	None	A53 Gr.B	Typical
138	C138	C170	C163			Standoff Diag	None	None	A53 Gr.B	Typical
139	C139	C190	C188			RIGID	None	None	RIGID	Typical
140	C140	C189	C187			RIGID	None	None	RIGID	Typical
141	MP1C	C191	C192			Pipe Mount	None	None	A53 Gr.B	Typical
142	C142	C196	C194			RIGID	None	None	RIGID	Typical
143	C143	C195	C193			RIGID	None	None	RIGID	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
144	MP2C	C197	C198			Pipe Mount	None	None	A53 Gr.B	Typical
145	C145	C202	C200			RIGID	None	None	RIGID	Typical
146	C146	C201	C199			RIGID	None	None	RIGID	Typical
147	MP3C	C203	C204			Pipe Mount	None	None	A53 Gr.B	Typical
148	C148	C208	C206			RIGID	None	None	RIGID	Typical
149	C149	C207	C205			RIGID	None	None	RIGID	Typical
150	MP4C	C209	C210			Pipe Mount	None	None	A53 Gr.B	Typical
151	C151	C214	C212			RIGID	None	None	RIGID	Typical
152	C152	C213	C211			RIGID	None	None	RIGID	Typical
153	MP5C	C215	C216			Pipe Mount	None	None	A53 Gr.B	Typical
154	M154	N218	N220			Tieback	None	None	A53 Gr.B	Typical
155	M155	N217	N219			Tieback	None	None	A53 Gr.B	Typical
156	M156	N221	N222			Tieback	None	None	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	A1		OOOOOO				Yes	** NA **			None
2	A2	OOOOOX					Yes	** NA **			None
3	A3		OOOOOO				Yes	** NA **			None
4	A4	OOOOOX					Yes	** NA **			None
5	A5				1.188		Yes	** NA **			None
6	A6				1.188		Yes	** NA **			None
7	A7				1.188		Yes	** NA **			None
8	A8				1.188		Yes	** NA **			None
9	A9				1.188		Yes	** NA **			None
10	A10				1.188		Yes	** NA **			None
11	A11				1.188		Yes	** NA **			None
12	A12				1.188		Yes	** NA **			None
13	A13				1.188		Yes	** NA **			None
14	A14				1.188		Yes	** NA **			None
15	A15				1.188		Yes	** NA **			None
16	A16				1.188		Yes	** NA **			None
17	A17	BenPIN	BenPIN				Yes	** NA **			None
18	A18	BenPIN	BenPIN				Yes	** NA **			None
19	A19	BenPIN	BenPIN				Yes	** NA **			None
20	A20	BenPIN	BenPIN				Yes	** NA **			None
21	A21						Yes	** NA **			None
22	A22						Yes	** NA **			None
23	A23						Yes	** NA **			None
24	A24						Yes	** NA **			None
25	A25						Yes	** NA **			None
26	A26						Yes	** NA **			None
27	A27	BenPIN					Yes	** NA **			None
28	A28		BenPIN				Yes	** NA **			None
29	A29						Yes	** NA **			None
30	A30						Yes	** NA **			None
31	A31	BenPIN					Yes	** NA **			None
32	A32		BenPIN				Yes	** NA **			None
33	A33	BenPIN	BenPIN				Yes	** NA **			None
34	A34	BenPIN	BenPIN				Yes	** NA **			None
35	A35	BenPIN	BenPIN				Yes	** NA **			None
36	A36	BenPIN	BenPIN				Yes	** NA **			None
37	A37						Yes	** NA **			None
38	A38						Yes	** NA **			None
39	MP1A						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
40	A40						Yes	** NA **			None
41	A41						Yes	** NA **			None
42	MP2A						Yes	** NA **			None
43	A43						Yes	** NA **			None
44	A44						Yes	** NA **			None
45	MP3A						Yes	** NA **			None
46	A46						Yes	** NA **			None
47	A47						Yes	** NA **			None
48	MP4A						Yes	** NA **			None
49	A49						Yes	** NA **			None
50	A50						Yes	** NA **			None
51	MP5A						Yes	** NA **			None
52	B52		000000				Yes	** NA **			None
53	B53	00000X					Yes	** NA **			None
54	B54		000000				Yes	** NA **			None
55	B55	00000X					Yes	** NA **			None
56	B56				1.188		Yes	** NA **			None
57	B57				1.188		Yes	** NA **			None
58	B58				1.188		Yes	** NA **			None
59	B59				1.188		Yes	** NA **			None
60	B60				1.188		Yes	** NA **			None
61	B61				1.188		Yes	** NA **			None
62	B62				1.188		Yes	** NA **			None
63	B63				1.188		Yes	** NA **			None
64	B64				1.188		Yes	** NA **			None
65	B65				1.188		Yes	** NA **			None
66	B66				1.188		Yes	** NA **			None
67	B67				1.188		Yes	** NA **			None
68	B68	BenPIN	BenPIN				Yes	** NA **			None
69	B69	BenPIN	BenPIN				Yes	** NA **			None
70	B70	BenPIN	BenPIN				Yes	** NA **			None
71	B71	BenPIN	BenPIN				Yes	** NA **			None
72	B72						Yes	** NA **			None
73	B73						Yes	** NA **			None
74	B74						Yes	** NA **			None
75	B75						Yes	** NA **			None
76	B76						Yes	** NA **			None
77	B77						Yes	** NA **			None
78	B78	BenPIN					Yes	** NA **			None
79	B79		BenPIN				Yes	** NA **			None
80	B80						Yes	** NA **			None
81	B81						Yes	** NA **			None
82	B82	BenPIN					Yes	** NA **			None
83	B83		BenPIN				Yes	** NA **			None
84	B84	BenPIN	BenPIN				Yes	** NA **			None
85	B85	BenPIN	BenPIN				Yes	** NA **			None
86	B86	BenPIN	BenPIN				Yes	** NA **			None
87	B87	BenPIN	BenPIN				Yes	** NA **			None
88	B88						Yes	** NA **			None
89	B89						Yes	** NA **			None
90	MP1B						Yes	** NA **			None
91	B91						Yes	** NA **			None
92	B92						Yes	** NA **			None
93	MP2B						Yes	** NA **			None
94	B94						Yes	** NA **			None
95	B95						Yes	** NA **			None
96	MP3B						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
97	B97						Yes	** NA **			None
98	B98						Yes	** NA **			None
99	MP4B						Yes	** NA **			None
100	B100						Yes	** NA **			None
101	B101						Yes	** NA **			None
102	MP5B						Yes	** NA **			None
103	C103		000000				Yes	** NA **			None
104	C104	00000X					Yes	** NA **			None
105	C105		000000				Yes	** NA **			None
106	C106	00000X					Yes	** NA **			None
107	C107				1.188		Yes	** NA **			None
108	C108				1.188		Yes	** NA **			None
109	C109				1.188		Yes	** NA **			None
110	C110				1.188		Yes	** NA **			None
111	C111				1.188		Yes	** NA **			None
112	C112				1.188		Yes	** NA **			None
113	C113				1.188		Yes	** NA **			None
114	C114				1.188		Yes	** NA **			None
115	C115				1.188		Yes	** NA **			None
116	C116				1.188		Yes	** NA **			None
117	C117				1.188		Yes	** NA **			None
118	C118				1.188		Yes	** NA **			None
119	C119	BenPIN	BenPIN				Yes	** NA **			None
120	C120	BenPIN	BenPIN				Yes	** NA **			None
121	C121	BenPIN	BenPIN				Yes	** NA **			None
122	C122	BenPIN	BenPIN				Yes	** NA **			None
123	C123						Yes	** NA **			None
124	C124						Yes	** NA **			None
125	C125						Yes	** NA **			None
126	C126						Yes	** NA **			None
127	C127						Yes	** NA **			None
128	C128						Yes	** NA **			None
129	C129	BenPIN					Yes	** NA **			None
130	C130		BenPIN				Yes	** NA **			None
131	C131						Yes	** NA **			None
132	C132						Yes	** NA **			None
133	C133	BenPIN					Yes	** NA **			None
134	C134		BenPIN				Yes	** NA **			None
135	C135	BenPIN	BenPIN				Yes	** NA **			None
136	C136	BenPIN	BenPIN				Yes	** NA **			None
137	C137	BenPIN	BenPIN				Yes	** NA **			None
138	C138	BenPIN	BenPIN				Yes	** NA **			None
139	C139						Yes	** NA **			None
140	C140						Yes	** NA **			None
141	MP1C						Yes	** NA **			None
142	C142						Yes	** NA **			None
143	C143						Yes	** NA **			None
144	MP2C						Yes	** NA **			None
145	C145						Yes	** NA **			None
146	C146						Yes	** NA **			None
147	MP3C						Yes	** NA **			None
148	C148						Yes	** NA **			None
149	C149						Yes	** NA **			None
150	MP4C						Yes	** NA **			None
151	C151						Yes	** NA **			None
152	C152						Yes	** NA **			None
153	MP5C						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
154	M154	BenPIN					Yes	** NA **			None
155	M155	BenPIN					Yes	** NA **			None
156	M156	BenPIN					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[[b,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.88
2	MP2A	My	-.022	.88
3	MP2A	Mz	-.013	.88
4	MP2A	Y	-21.85	5.54
5	MP2A	My	-.022	5.54
6	MP2A	Mz	-.013	5.54
7	MP2B	Y	-21.85	.88
8	MP2B	My	.024	.88
9	MP2B	Mz	-.009	.88
10	MP2B	Y	-21.85	5.54
11	MP2B	My	.024	5.54
12	MP2B	Mz	-.009	5.54
13	MP2C	Y	-21.85	.88
14	MP2C	My	-.005	.88
15	MP2C	Mz	.025	.88
16	MP2C	Y	-21.85	5.54
17	MP2C	My	-.005	5.54
18	MP2C	Mz	.025	5.54
19	MP2A	Y	-21.85	.88
20	MP2A	My	-.022	.88
21	MP2A	Mz	.013	.88
22	MP2A	Y	-21.85	5.54
23	MP2A	My	-.022	5.54
24	MP2A	Mz	.013	5.54
25	MP2B	Y	-21.85	.88
26	MP2B	My	.004	.88
27	MP2B	Mz	-.025	.88
28	MP2B	Y	-21.85	5.54
29	MP2B	My	.004	5.54
30	MP2B	Mz	-.025	5.54
31	MP2C	Y	-21.85	.88
32	MP2C	My	.019	.88
33	MP2C	Mz	.016	.88
34	MP2C	Y	-21.85	5.54
35	MP2C	My	.019	5.54
36	MP2C	Mz	.016	5.54
37	MP4A	Y	-28.65	.75
38	MP4A	My	-.029	.75
39	MP4A	Mz	0	.75
40	MP4A	Y	-28.65	2.67
41	MP4A	My	-.029	2.67
42	MP4A	Mz	0	2.67
43	MP4B	Y	-28.65	.75
44	MP4B	My	.018	.75
45	MP4B	Mz	-.022	.75
46	MP4B	Y	-28.65	2.67
47	MP4B	My	.018	2.67
48	MP4B	Mz	-.022	2.67
49	MP4C	Y	-28.65	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
50	MP4C	My	.01	.75
51	MP4C	Mz	.027	.75
52	MP4C	Y	-28.65	2.67
53	MP4C	My	.01	2.67
54	MP4C	Mz	.027	2.67
55	MP1A	Y	-37.35	3.2
56	MP1A	My	.037	3.2
57	MP1A	Mz	0	3.2
58	MP1A	Y	-37.35	3.2
59	MP1A	My	.037	3.2
60	MP1A	Mz	0	3.2
61	MP1B	Y	-37.35	3.2
62	MP1B	My	-.024	3.2
63	MP1B	Mz	.029	3.2
64	MP1B	Y	-37.35	3.2
65	MP1B	My	-.024	3.2
66	MP1B	Mz	.029	3.2
67	MP1C	Y	-37.35	3.2
68	MP1C	My	-.013	3.2
69	MP1C	Mz	-.035	3.2
70	MP1C	Y	-37.35	3.2
71	MP1C	My	-.013	3.2
72	MP1C	Mz	-.035	3.2
73	MP3A	Y	-39.55	3.8
74	MP3A	My	.04	3.8
75	MP3A	Mz	0	3.8
76	MP3A	Y	-39.55	3.8
77	MP3A	My	.04	3.8
78	MP3A	Mz	0	3.8
79	MP3B	Y	-39.55	3.8
80	MP3B	My	-.025	3.8
81	MP3B	Mz	.03	3.8
82	MP3B	Y	-39.55	3.8
83	MP3B	My	-.025	3.8
84	MP3B	Mz	.03	3.8
85	MP3C	Y	-39.55	3.8
86	MP3C	My	-.014	3.8
87	MP3C	Mz	-.037	3.8
88	MP3C	Y	-39.55	3.8
89	MP3C	My	-.014	3.8
90	MP3C	Mz	-.037	3.8
91	A26	Y	-16	1.75
92	A26	My	0	1.75
93	A26	Mz	0	1.75
94	A26	Y	-16	1.75
95	A26	My	0	1.75
96	A26	Mz	0	1.75

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Y	-97.272	.88
2	MP2A	My	-.097	.88
3	MP2A	Mz	-.057	.88
4	MP2A	Y	-97.272	5.54
5	MP2A	My	-.097	5.54
6	MP2A	Mz	-.057	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
7	MP2B	Y	-97.272	.88
8	MP2B	My	.106	.88
9	MP2B	Mz	-.038	.88
10	MP2B	Y	-97.272	5.54
11	MP2B	My	.106	5.54
12	MP2B	Mz	-.038	5.54
13	MP2C	Y	-97.272	.88
14	MP2C	My	-.02	.88
15	MP2C	Mz	.111	.88
16	MP2C	Y	-97.272	5.54
17	MP2C	My	-.02	5.54
18	MP2C	Mz	.111	5.54
19	MP2A	Y	-97.272	.88
20	MP2A	My	-.097	.88
21	MP2A	Mz	.057	.88
22	MP2A	Y	-97.272	5.54
23	MP2A	My	-.097	5.54
24	MP2A	Mz	.057	5.54
25	MP2B	Y	-97.272	.88
26	MP2B	My	.019	.88
27	MP2B	Mz	-.111	.88
28	MP2B	Y	-97.272	5.54
29	MP2B	My	.019	5.54
30	MP2B	Mz	-.111	5.54
31	MP2C	Y	-97.272	.88
32	MP2C	My	.087	.88
33	MP2C	Mz	.072	.88
34	MP2C	Y	-97.272	5.54
35	MP2C	My	.087	5.54
36	MP2C	Mz	.072	5.54
37	MP4A	Y	-48.204	.75
38	MP4A	My	-.048	.75
39	MP4A	Mz	0	.75
40	MP4A	Y	-48.204	2.67
41	MP4A	My	-.048	2.67
42	MP4A	Mz	0	2.67
43	MP4B	Y	-48.204	.75
44	MP4B	My	.031	.75
45	MP4B	Mz	-.037	.75
46	MP4B	Y	-48.204	2.67
47	MP4B	My	.031	2.67
48	MP4B	Mz	-.037	2.67
49	MP4C	Y	-48.204	.75
50	MP4C	My	.016	.75
51	MP4C	Mz	.045	.75
52	MP4C	Y	-48.204	2.67
53	MP4C	My	.016	2.67
54	MP4C	Mz	.045	2.67
55	MP1A	Y	-36.508	3.2
56	MP1A	My	.037	3.2
57	MP1A	Mz	0	3.2
58	MP1A	Y	-36.508	3.2
59	MP1A	My	.037	3.2
60	MP1A	Mz	0	3.2
61	MP1B	Y	-36.508	3.2
62	MP1B	My	-.023	3.2
63	MP1B	Mz	.028	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP1B	Y	-36.508	3.2
65	MP1B	My	-.023	3.2
66	MP1B	Mz	.028	3.2
67	MP1C	Y	-36.508	3.2
68	MP1C	My	-.012	3.2
69	MP1C	Mz	-.034	3.2
70	MP1C	Y	-36.508	3.2
71	MP1C	My	-.012	3.2
72	MP1C	Mz	-.034	3.2
73	MP3A	Y	-36.881	3.8
74	MP3A	My	.037	3.8
75	MP3A	Mz	0	3.8
76	MP3A	Y	-36.881	3.8
77	MP3A	My	.037	3.8
78	MP3A	Mz	0	3.8
79	MP3B	Y	-36.881	3.8
80	MP3B	My	-.024	3.8
81	MP3B	Mz	.028	3.8
82	MP3B	Y	-36.881	3.8
83	MP3B	My	-.024	3.8
84	MP3B	Mz	.028	3.8
85	MP3C	Y	-36.881	3.8
86	MP3C	My	-.013	3.8
87	MP3C	Mz	-.035	3.8
88	MP3C	Y	-36.881	3.8
89	MP3C	My	-.013	3.8
90	MP3C	Mz	-.035	3.8
91	A26	Y	-70.222	1.75
92	A26	My	0	1.75
93	A26	Mz	0	1.75
94	A26	Y	-70.222	1.75
95	A26	My	0	1.75
96	A26	Mz	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.88
2	MP2A	Z	-117.702	.88
3	MP2A	Mx	.069	.88
4	MP2A	X	0	5.54
5	MP2A	Z	-117.702	5.54
6	MP2A	Mx	.069	5.54
7	MP2B	X	0	.88
8	MP2B	Z	-78.27	.88
9	MP2B	Mx	.031	.88
10	MP2B	X	0	5.54
11	MP2B	Z	-78.27	5.54
12	MP2B	Mx	.031	5.54
13	MP2C	X	0	.88
14	MP2C	Z	-58.366	.88
15	MP2C	Mx	-.066	.88
16	MP2C	X	0	5.54
17	MP2C	Z	-58.366	5.54
18	MP2C	Mx	-.066	5.54
19	MP2A	X	0	.88
20	MP2A	Z	-117.702	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
21	MP2A	Mx	-.069	.88
22	MP2A	X	0	5.54
23	MP2A	Z	-117.702	5.54
24	MP2A	Mx	-.069	5.54
25	MP2B	X	0	.88
26	MP2B	Z	-78.27	.88
27	MP2B	Mx	.089	.88
28	MP2B	X	0	5.54
29	MP2B	Z	-78.27	5.54
30	MP2B	Mx	.089	5.54
31	MP2C	X	0	.88
32	MP2C	Z	-58.366	.88
33	MP2C	Mx	-.043	.88
34	MP2C	X	0	5.54
35	MP2C	Z	-58.366	5.54
36	MP2C	Mx	-.043	5.54
37	MP4A	X	0	.75
38	MP4A	Z	-82.153	.75
39	MP4A	Mx	0	.75
40	MP4A	X	0	2.67
41	MP4A	Z	-82.153	2.67
42	MP4A	Mx	0	2.67
43	MP4B	X	0	.75
44	MP4B	Z	-52.511	.75
45	MP4B	Mx	.04	.75
46	MP4B	X	0	2.67
47	MP4B	Z	-52.511	2.67
48	MP4B	Mx	.04	2.67
49	MP4C	X	0	.75
50	MP4C	Z	-37.55	.75
51	MP4C	Mx	-.035	.75
52	MP4C	X	0	2.67
53	MP4C	Z	-37.55	2.67
54	MP4C	Mx	-.035	2.67
55	MP1A	X	0	3.2
56	MP1A	Z	-33.598	3.2
57	MP1A	Mx	0	3.2
58	MP1A	X	0	3.2
59	MP1A	Z	-33.598	3.2
60	MP1A	Mx	0	3.2
61	MP1B	X	0	3.2
62	MP1B	Z	-27.111	3.2
63	MP1B	Mx	-.021	3.2
64	MP1B	X	0	3.2
65	MP1B	Z	-27.111	3.2
66	MP1B	Mx	-.021	3.2
67	MP1C	X	0	3.2
68	MP1C	Z	-23.836	3.2
69	MP1C	Mx	.022	3.2
70	MP1C	X	0	3.2
71	MP1C	Z	-23.836	3.2
72	MP1C	Mx	.022	3.2
73	MP3A	X	0	3.8
74	MP3A	Z	-40.535	3.8
75	MP3A	Mx	0	3.8
76	MP3A	X	0	3.8
77	MP3A	Z	-40.535	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
78	MP3A	Mx	0	3.8
79	MP3B	X	0	3.8
80	MP3B	Z	-32.966	3.8
81	MP3B	Mx	-.025	3.8
82	MP3B	X	0	3.8
83	MP3B	Z	-32.966	3.8
84	MP3B	Mx	-.025	3.8
85	MP3C	X	0	3.8
86	MP3C	Z	-29.146	3.8
87	MP3C	Mx	.027	3.8
88	MP3C	X	0	3.8
89	MP3C	Z	-29.146	3.8
90	MP3C	Mx	.027	3.8
91	A26	X	0	1.75
92	A26	Z	-68.714	1.75
93	A26	Mx	0	1.75
94	A26	X	0	1.75
95	A26	Z	-68.714	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	50.451	.88
2	MP2A	Z	-87.384	.88
3	MP2A	Mx	.000523	.88
4	MP2A	X	50.451	5.54
5	MP2A	Z	-87.384	5.54
6	MP2A	Mx	.000523	5.54
7	MP2B	X	26.266	.88
8	MP2B	Z	-45.494	.88
9	MP2B	Mx	.046	.88
10	MP2B	X	26.266	5.54
11	MP2B	Z	-45.494	5.54
12	MP2B	Mx	.046	5.54
13	MP2C	X	44.969	.88
14	MP2C	Z	-77.889	.88
15	MP2C	Mx	-.098	.88
16	MP2C	X	44.969	5.54
17	MP2C	Z	-77.889	5.54
18	MP2C	Mx	-.098	5.54
19	MP2A	X	50.451	.88
20	MP2A	Z	-87.384	.88
21	MP2A	Mx	-.101	.88
22	MP2A	X	50.451	5.54
23	MP2A	Z	-87.384	5.54
24	MP2A	Mx	-.101	5.54
25	MP2B	X	26.266	.88
26	MP2B	Z	-45.494	.88
27	MP2B	Mx	.057	.88
28	MP2B	X	26.266	5.54
29	MP2B	Z	-45.494	5.54
30	MP2B	Mx	.057	5.54
31	MP2C	X	44.969	.88
32	MP2C	Z	-77.889	.88
33	MP2C	Mx	-.018	.88
34	MP2C	X	44.969	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
35	MP2C	Z	-77.889	5.54
36	MP2C	Mx	-.018	5.54
37	MP4A	X	34.762	.75
38	MP4A	Z	-60.21	.75
39	MP4A	Mx	-.035	.75
40	MP4A	X	34.762	2.67
41	MP4A	Z	-60.21	2.67
42	MP4A	Mx	-.035	2.67
43	MP4B	X	16.582	.75
44	MP4B	Z	-28.721	.75
45	MP4B	Mx	.033	.75
46	MP4B	X	16.582	2.67
47	MP4B	Z	-28.721	2.67
48	MP4B	Mx	.033	2.67
49	MP4C	X	30.641	.75
50	MP4C	Z	-53.072	.75
51	MP4C	Mx	-.039	.75
52	MP4C	X	30.641	2.67
53	MP4C	Z	-53.072	2.67
54	MP4C	Mx	-.039	2.67
55	MP1A	X	15.417	3.2
56	MP1A	Z	-26.703	3.2
57	MP1A	Mx	.015	3.2
58	MP1A	X	15.417	3.2
59	MP1A	Z	-26.703	3.2
60	MP1A	Mx	.015	3.2
61	MP1B	X	11.438	3.2
62	MP1B	Z	-19.812	3.2
63	MP1B	Mx	-.023	3.2
64	MP1B	X	11.438	3.2
65	MP1B	Z	-19.812	3.2
66	MP1B	Mx	-.023	3.2
67	MP1C	X	14.515	3.2
68	MP1C	Z	-25.141	3.2
69	MP1C	Mx	.019	3.2
70	MP1C	X	14.515	3.2
71	MP1C	Z	-25.141	3.2
72	MP1C	Mx	.019	3.2
73	MP3A	X	18.655	3.8
74	MP3A	Z	-32.312	3.8
75	MP3A	Mx	.019	3.8
76	MP3A	X	18.655	3.8
77	MP3A	Z	-32.312	3.8
78	MP3A	Mx	.019	3.8
79	MP3B	X	14.013	3.8
80	MP3B	Z	-24.271	3.8
81	MP3B	Mx	-.028	3.8
82	MP3B	X	14.013	3.8
83	MP3B	Z	-24.271	3.8
84	MP3B	Mx	-.028	3.8
85	MP3C	X	17.603	3.8
86	MP3C	Z	-30.489	3.8
87	MP3C	Mx	.023	3.8
88	MP3C	X	17.603	3.8
89	MP3C	Z	-30.489	3.8
90	MP3C	Mx	.023	3.8
91	A26	X	32.298	1.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
92	A26	Z	-55.941	1.75
93	A26	Mx	0	1.75
94	A26	X	32.298	1.75
95	A26	Z	-55.941	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	58.288	.88
2	MP2A	Z	-33.652	.88
3	MP2A	Mx	-.039	.88
4	MP2A	X	58.288	5.54
5	MP2A	Z	-33.652	5.54
6	MP2A	Mx	-.039	5.54
7	MP2B	X	50.547	.88
8	MP2B	Z	-29.183	.88
9	MP2B	Mx	.066	.88
10	MP2B	X	50.547	5.54
11	MP2B	Z	-29.183	5.54
12	MP2B	Mx	.066	5.54
13	MP2C	X	100.178	.88
14	MP2C	Z	-57.838	.88
15	MP2C	Mx	-.087	.88
16	MP2C	X	100.178	5.54
17	MP2C	Z	-57.838	5.54
18	MP2C	Mx	-.087	5.54
19	MP2A	X	58.288	.88
20	MP2A	Z	-33.652	.88
21	MP2A	Mx	-.078	.88
22	MP2A	X	58.288	5.54
23	MP2A	Z	-33.652	5.54
24	MP2A	Mx	-.078	5.54
25	MP2B	X	50.547	.88
26	MP2B	Z	-29.183	.88
27	MP2B	Mx	.043	.88
28	MP2B	X	50.547	5.54
29	MP2B	Z	-29.183	5.54
30	MP2B	Mx	.043	5.54
31	MP2C	X	100.178	.88
32	MP2C	Z	-57.838	.88
33	MP2C	Mx	.046	.88
34	MP2C	X	100.178	5.54
35	MP2C	Z	-57.838	5.54
36	MP2C	Mx	.046	5.54
37	MP4A	X	38.338	.75
38	MP4A	Z	-22.135	.75
39	MP4A	Mx	-.038	.75
40	MP4A	X	38.338	2.67
41	MP4A	Z	-22.135	2.67
42	MP4A	Mx	-.038	2.67
43	MP4B	X	32.519	.75
44	MP4B	Z	-18.775	.75
45	MP4B	Mx	.035	.75
46	MP4B	X	32.519	2.67
47	MP4B	Z	-18.775	2.67
48	MP4B	Mx	.035	2.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
49	MP4C	X	69.827	.75
50	MP4C	Z	-40.315	.75
51	MP4C	Mx	-.014	.75
52	MP4C	X	69.827	2.67
53	MP4C	Z	-40.315	2.67
54	MP4C	Mx	-.014	2.67
55	MP1A	X	21.917	3.2
56	MP1A	Z	-12.653	3.2
57	MP1A	Mx	.022	3.2
58	MP1A	X	21.917	3.2
59	MP1A	Z	-12.653	3.2
60	MP1A	Mx	.022	3.2
61	MP1B	X	20.643	3.2
62	MP1B	Z	-11.918	3.2
63	MP1B	Mx	-.022	3.2
64	MP1B	X	20.643	3.2
65	MP1B	Z	-11.918	3.2
66	MP1B	Mx	-.022	3.2
67	MP1C	X	28.808	3.2
68	MP1C	Z	-16.632	3.2
69	MP1C	Mx	.006	3.2
70	MP1C	X	28.808	3.2
71	MP1C	Z	-16.632	3.2
72	MP1C	Mx	.006	3.2
73	MP3A	X	26.727	3.8
74	MP3A	Z	-15.431	3.8
75	MP3A	Mx	.027	3.8
76	MP3A	X	26.727	3.8
77	MP3A	Z	-15.431	3.8
78	MP3A	Mx	.027	3.8
79	MP3B	X	25.241	3.8
80	MP3B	Z	-14.573	3.8
81	MP3B	Mx	-.027	3.8
82	MP3B	X	25.241	3.8
83	MP3B	Z	-14.573	3.8
84	MP3B	Mx	-.027	3.8
85	MP3C	X	34.767	3.8
86	MP3C	Z	-20.073	3.8
87	MP3C	Mx	.007	3.8
88	MP3C	X	34.767	3.8
89	MP3C	Z	-20.073	3.8
90	MP3C	Mx	.007	3.8
91	A26	X	48.808	1.75
92	A26	Z	-28.179	1.75
93	A26	Mx	0	1.75
94	A26	X	48.808	1.75
95	A26	Z	-28.179	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	50.506	.88
2	MP2A	Z	0	.88
3	MP2A	Mx	-.051	.88
4	MP2A	X	50.506	5.54
5	MP2A	Z	0	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP2A	Mx	-.051	5.54
7	MP2B	X	89.938	.88
8	MP2B	Z	0	.88
9	MP2B	Mx	.098	.88
10	MP2B	X	89.938	5.54
11	MP2B	Z	0	5.54
12	MP2B	Mx	.098	5.54
13	MP2C	X	109.841	.88
14	MP2C	Z	0	.88
15	MP2C	Mx	-.023	.88
16	MP2C	X	109.841	5.54
17	MP2C	Z	0	5.54
18	MP2C	Mx	-.023	5.54
19	MP2A	X	50.506	.88
20	MP2A	Z	0	.88
21	MP2A	Mx	-.051	.88
22	MP2A	X	50.506	5.54
23	MP2A	Z	0	5.54
24	MP2A	Mx	-.051	5.54
25	MP2B	X	89.938	.88
26	MP2B	Z	0	.88
27	MP2B	Mx	.018	.88
28	MP2B	X	89.938	5.54
29	MP2B	Z	0	5.54
30	MP2B	Mx	.018	5.54
31	MP2C	X	109.841	.88
32	MP2C	Z	0	.88
33	MP2C	Mx	.098	.88
34	MP2C	X	109.841	5.54
35	MP2C	Z	0	5.54
36	MP2C	Mx	.098	5.54
37	MP4A	X	31.641	.75
38	MP4A	Z	0	.75
39	MP4A	Mx	-.032	.75
40	MP4A	X	31.641	2.67
41	MP4A	Z	0	2.67
42	MP4A	Mx	-.032	2.67
43	MP4B	X	61.283	.75
44	MP4B	Z	0	.75
45	MP4B	Mx	.039	.75
46	MP4B	X	61.283	2.67
47	MP4B	Z	0	2.67
48	MP4B	Mx	.039	2.67
49	MP4C	X	76.244	.75
50	MP4C	Z	0	.75
51	MP4C	Mx	.026	.75
52	MP4C	X	76.244	2.67
53	MP4C	Z	0	2.67
54	MP4C	Mx	.026	2.67
55	MP1A	X	22.543	3.2
56	MP1A	Z	0	3.2
57	MP1A	Mx	.023	3.2
58	MP1A	X	22.543	3.2
59	MP1A	Z	0	3.2
60	MP1A	Mx	.023	3.2
61	MP1B	X	29.031	3.2
62	MP1B	Z	0	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
63	MP1B	Mx	-0.19	3.2
64	MP1B	X	29.031	3.2
65	MP1B	Z	0	3.2
66	MP1B	Mx	-0.19	3.2
67	MP1C	X	32.305	3.2
68	MP1C	Z	0	3.2
69	MP1C	Mx	-0.11	3.2
70	MP1C	X	32.305	3.2
71	MP1C	Z	0	3.2
72	MP1C	Mx	-0.11	3.2
73	MP3A	X	27.637	3.8
74	MP3A	Z	0	3.8
75	MP3A	Mx	.028	3.8
76	MP3A	X	27.637	3.8
77	MP3A	Z	0	3.8
78	MP3A	Mx	.028	3.8
79	MP3B	X	35.206	3.8
80	MP3B	Z	0	3.8
81	MP3B	Mx	-0.23	3.8
82	MP3B	X	35.206	3.8
83	MP3B	Z	0	3.8
84	MP3B	Mx	-0.23	3.8
85	MP3C	X	39.026	3.8
86	MP3C	Z	0	3.8
87	MP3C	Mx	-0.13	3.8
88	MP3C	X	39.026	3.8
89	MP3C	Z	0	3.8
90	MP3C	Mx	-0.13	3.8
91	A26	X	52.24	1.75
92	A26	Z	0	1.75
93	A26	Mx	0	1.75
94	A26	X	52.24	1.75
95	A26	Z	0	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	58.288	.88
2	MP2A	Z	33.652	.88
3	MP2A	Mx	-0.78	.88
4	MP2A	X	58.288	5.54
5	MP2A	Z	33.652	5.54
6	MP2A	Mx	-0.78	5.54
7	MP2B	X	100.178	.88
8	MP2B	Z	57.838	.88
9	MP2B	Mx	.087	.88
10	MP2B	X	100.178	5.54
11	MP2B	Z	57.838	5.54
12	MP2B	Mx	.087	5.54
13	MP2C	X	67.783	.88
14	MP2C	Z	39.135	.88
15	MP2C	Mx	.031	.88
16	MP2C	X	67.783	5.54
17	MP2C	Z	39.135	5.54
18	MP2C	Mx	.031	5.54
19	MP2A	X	58.288	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
20	MP2A	Z	33.652	.88
21	MP2A	Mx	-.039	.88
22	MP2A	X	58.288	5.54
23	MP2A	Z	33.652	5.54
24	MP2A	Mx	-.039	5.54
25	MP2B	X	100.178	.88
26	MP2B	Z	57.838	.88
27	MP2B	Mx	-.046	.88
28	MP2B	X	100.178	5.54
29	MP2B	Z	57.838	5.54
30	MP2B	Mx	-.046	5.54
31	MP2C	X	67.783	.88
32	MP2C	Z	39.135	.88
33	MP2C	Mx	.089	.88
34	MP2C	X	67.783	5.54
35	MP2C	Z	39.135	5.54
36	MP2C	Mx	.089	5.54
37	MP4A	X	38.338	.75
38	MP4A	Z	22.135	.75
39	MP4A	Mx	-.038	.75
40	MP4A	X	38.338	2.67
41	MP4A	Z	22.135	2.67
42	MP4A	Mx	-.038	2.67
43	MP4B	X	69.827	.75
44	MP4B	Z	40.315	.75
45	MP4B	Mx	.014	.75
46	MP4B	X	69.827	2.67
47	MP4B	Z	40.315	2.67
48	MP4B	Mx	.014	2.67
49	MP4C	X	45.476	.75
50	MP4C	Z	26.256	.75
51	MP4C	Mx	.04	.75
52	MP4C	X	45.476	2.67
53	MP4C	Z	26.256	2.67
54	MP4C	Mx	.04	2.67
55	MP1A	X	21.917	3.2
56	MP1A	Z	12.653	3.2
57	MP1A	Mx	.022	3.2
58	MP1A	X	21.917	3.2
59	MP1A	Z	12.653	3.2
60	MP1A	Mx	.022	3.2
61	MP1B	X	28.808	3.2
62	MP1B	Z	16.632	3.2
63	MP1B	Mx	-.006	3.2
64	MP1B	X	28.808	3.2
65	MP1B	Z	16.632	3.2
66	MP1B	Mx	-.006	3.2
67	MP1C	X	23.479	3.2
68	MP1C	Z	13.555	3.2
69	MP1C	Mx	-.021	3.2
70	MP1C	X	23.479	3.2
71	MP1C	Z	13.555	3.2
72	MP1C	Mx	-.021	3.2
73	MP3A	X	26.727	3.8
74	MP3A	Z	15.431	3.8
75	MP3A	Mx	.027	3.8
76	MP3A	X	26.727	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
77	MP3A	Z	15.431	3.8
78	MP3A	Mx	.027	3.8
79	MP3B	X	34.767	3.8
80	MP3B	Z	20.073	3.8
81	MP3B	Mx	-.007	3.8
82	MP3B	X	34.767	3.8
83	MP3B	Z	20.073	3.8
84	MP3B	Mx	-.007	3.8
85	MP3C	X	28.549	3.8
86	MP3C	Z	16.483	3.8
87	MP3C	Mx	-.025	3.8
88	MP3C	X	28.549	3.8
89	MP3C	Z	16.483	3.8
90	MP3C	Mx	-.025	3.8
91	A26	X	48.808	1.75
92	A26	Z	28.179	1.75
93	A26	Mx	0	1.75
94	A26	X	48.808	1.75
95	A26	Z	28.179	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	50.451	.88
2	MP2A	Z	87.384	.88
3	MP2A	Mx	-.101	.88
4	MP2A	X	50.451	5.54
5	MP2A	Z	87.384	5.54
6	MP2A	Mx	-.101	5.54
7	MP2B	X	54.921	.88
8	MP2B	Z	95.125	.88
9	MP2B	Mx	.023	.88
10	MP2B	X	54.921	5.54
11	MP2B	Z	95.125	5.54
12	MP2B	Mx	.023	5.54
13	MP2C	X	26.266	.88
14	MP2C	Z	45.494	.88
15	MP2C	Mx	.046	.88
16	MP2C	X	26.266	5.54
17	MP2C	Z	45.494	5.54
18	MP2C	Mx	.046	5.54
19	MP2A	X	50.451	.88
20	MP2A	Z	87.384	.88
21	MP2A	Mx	.000523	.88
22	MP2A	X	50.451	5.54
23	MP2A	Z	87.384	5.54
24	MP2A	Mx	.000523	5.54
25	MP2B	X	54.921	.88
26	MP2B	Z	95.125	.88
27	MP2B	Mx	-.098	.88
28	MP2B	X	54.921	5.54
29	MP2B	Z	95.125	5.54
30	MP2B	Mx	-.098	5.54
31	MP2C	X	26.266	.88
32	MP2C	Z	45.494	.88
33	MP2C	Mx	.057	.88



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
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 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
34	MP2C	X	26.266	5.54
35	MP2C	Z	45.494	5.54
36	MP2C	Mx	.057	5.54
37	MP4A	X	34.762	.75
38	MP4A	Z	60.21	.75
39	MP4A	Mx	-.035	.75
40	MP4A	X	34.762	2.67
41	MP4A	Z	60.21	2.67
42	MP4A	Mx	-.035	2.67
43	MP4B	X	38.122	.75
44	MP4B	Z	66.029	.75
45	MP4B	Mx	-.026	.75
46	MP4B	X	38.122	2.67
47	MP4B	Z	66.029	2.67
48	MP4B	Mx	-.026	2.67
49	MP4C	X	16.582	.75
50	MP4C	Z	28.721	.75
51	MP4C	Mx	.033	.75
52	MP4C	X	16.582	2.67
53	MP4C	Z	28.721	2.67
54	MP4C	Mx	.033	2.67
55	MP1A	X	15.417	3.2
56	MP1A	Z	26.703	3.2
57	MP1A	Mx	.015	3.2
58	MP1A	X	15.417	3.2
59	MP1A	Z	26.703	3.2
60	MP1A	Mx	.015	3.2
61	MP1B	X	16.152	3.2
62	MP1B	Z	27.977	3.2
63	MP1B	Mx	.011	3.2
64	MP1B	X	16.152	3.2
65	MP1B	Z	27.977	3.2
66	MP1B	Mx	.011	3.2
67	MP1C	X	11.438	3.2
68	MP1C	Z	19.812	3.2
69	MP1C	Mx	-.023	3.2
70	MP1C	X	11.438	3.2
71	MP1C	Z	19.812	3.2
72	MP1C	Mx	-.023	3.2
73	MP3A	X	18.655	3.8
74	MP3A	Z	32.312	3.8
75	MP3A	Mx	.019	3.8
76	MP3A	X	18.655	3.8
77	MP3A	Z	32.312	3.8
78	MP3A	Mx	.019	3.8
79	MP3B	X	19.513	3.8
80	MP3B	Z	33.797	3.8
81	MP3B	Mx	.013	3.8
82	MP3B	X	19.513	3.8
83	MP3B	Z	33.797	3.8
84	MP3B	Mx	.013	3.8
85	MP3C	X	14.013	3.8
86	MP3C	Z	24.271	3.8
87	MP3C	Mx	-.028	3.8
88	MP3C	X	14.013	3.8
89	MP3C	Z	24.271	3.8
90	MP3C	Mx	-.028	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
91	A26	X	32.298	1.75
92	A26	Z	55.941	1.75
93	A26	Mx	0	1.75
94	A26	X	32.298	1.75
95	A26	Z	55.941	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.88
2	MP2A	Z	117.702	.88
3	MP2A	Mx	-.069	.88
4	MP2A	X	0	5.54
5	MP2A	Z	117.702	5.54
6	MP2A	Mx	-.069	5.54
7	MP2B	X	0	.88
8	MP2B	Z	78.27	.88
9	MP2B	Mx	-.031	.88
10	MP2B	X	0	5.54
11	MP2B	Z	78.27	5.54
12	MP2B	Mx	-.031	5.54
13	MP2C	X	0	.88
14	MP2C	Z	58.366	.88
15	MP2C	Mx	.066	.88
16	MP2C	X	0	5.54
17	MP2C	Z	58.366	5.54
18	MP2C	Mx	.066	5.54
19	MP2A	X	0	.88
20	MP2A	Z	117.702	.88
21	MP2A	Mx	.069	.88
22	MP2A	X	0	5.54
23	MP2A	Z	117.702	5.54
24	MP2A	Mx	.069	5.54
25	MP2B	X	0	.88
26	MP2B	Z	78.27	.88
27	MP2B	Mx	-.089	.88
28	MP2B	X	0	5.54
29	MP2B	Z	78.27	5.54
30	MP2B	Mx	-.089	5.54
31	MP2C	X	0	.88
32	MP2C	Z	58.366	.88
33	MP2C	Mx	.043	.88
34	MP2C	X	0	5.54
35	MP2C	Z	58.366	5.54
36	MP2C	Mx	.043	5.54
37	MP4A	X	0	.75
38	MP4A	Z	82.153	.75
39	MP4A	Mx	0	.75
40	MP4A	X	0	2.67
41	MP4A	Z	82.153	2.67
42	MP4A	Mx	0	2.67
43	MP4B	X	0	.75
44	MP4B	Z	52.511	.75
45	MP4B	Mx	-.04	.75
46	MP4B	X	0	2.67
47	MP4B	Z	52.511	2.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
48	MP4B	Mx	-.04	2.67
49	MP4C	X	0	.75
50	MP4C	Z	37.55	.75
51	MP4C	Mx	.035	.75
52	MP4C	X	0	2.67
53	MP4C	Z	37.55	2.67
54	MP4C	Mx	.035	2.67
55	MP1A	X	0	3.2
56	MP1A	Z	33.598	3.2
57	MP1A	Mx	0	3.2
58	MP1A	X	0	3.2
59	MP1A	Z	33.598	3.2
60	MP1A	Mx	0	3.2
61	MP1B	X	0	3.2
62	MP1B	Z	27.111	3.2
63	MP1B	Mx	.021	3.2
64	MP1B	X	0	3.2
65	MP1B	Z	27.111	3.2
66	MP1B	Mx	.021	3.2
67	MP1C	X	0	3.2
68	MP1C	Z	23.836	3.2
69	MP1C	Mx	-.022	3.2
70	MP1C	X	0	3.2
71	MP1C	Z	23.836	3.2
72	MP1C	Mx	-.022	3.2
73	MP3A	X	0	3.8
74	MP3A	Z	40.535	3.8
75	MP3A	Mx	0	3.8
76	MP3A	X	0	3.8
77	MP3A	Z	40.535	3.8
78	MP3A	Mx	0	3.8
79	MP3B	X	0	3.8
80	MP3B	Z	32.966	3.8
81	MP3B	Mx	.025	3.8
82	MP3B	X	0	3.8
83	MP3B	Z	32.966	3.8
84	MP3B	Mx	.025	3.8
85	MP3C	X	0	3.8
86	MP3C	Z	29.146	3.8
87	MP3C	Mx	-.027	3.8
88	MP3C	X	0	3.8
89	MP3C	Z	29.146	3.8
90	MP3C	Mx	-.027	3.8
91	A26	X	0	1.75
92	A26	Z	68.714	1.75
93	A26	Mx	0	1.75
94	A26	X	0	1.75
95	A26	Z	68.714	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-50.451	.88
2	MP2A	Z	87.384	.88
3	MP2A	Mx	-.000523	.88
4	MP2A	X	-50.451	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
5	MP2A	Z	87.384	5.54
6	MP2A	Mx	-.000523	5.54
7	MP2B	X	-26.266	.88
8	MP2B	Z	45.494	.88
9	MP2B	Mx	-.046	.88
10	MP2B	X	-26.266	5.54
11	MP2B	Z	45.494	5.54
12	MP2B	Mx	-.046	5.54
13	MP2C	X	-44.969	.88
14	MP2C	Z	77.889	.88
15	MP2C	Mx	.098	.88
16	MP2C	X	-44.969	5.54
17	MP2C	Z	77.889	5.54
18	MP2C	Mx	.098	5.54
19	MP2A	X	-50.451	.88
20	MP2A	Z	87.384	.88
21	MP2A	Mx	.101	.88
22	MP2A	X	-50.451	5.54
23	MP2A	Z	87.384	5.54
24	MP2A	Mx	.101	5.54
25	MP2B	X	-26.266	.88
26	MP2B	Z	45.494	.88
27	MP2B	Mx	-.057	.88
28	MP2B	X	-26.266	5.54
29	MP2B	Z	45.494	5.54
30	MP2B	Mx	-.057	5.54
31	MP2C	X	-44.969	.88
32	MP2C	Z	77.889	.88
33	MP2C	Mx	.018	.88
34	MP2C	X	-44.969	5.54
35	MP2C	Z	77.889	5.54
36	MP2C	Mx	.018	5.54
37	MP4A	X	-34.762	.75
38	MP4A	Z	60.21	.75
39	MP4A	Mx	.035	.75
40	MP4A	X	-34.762	2.67
41	MP4A	Z	60.21	2.67
42	MP4A	Mx	.035	2.67
43	MP4B	X	-16.582	.75
44	MP4B	Z	28.721	.75
45	MP4B	Mx	-.033	.75
46	MP4B	X	-16.582	2.67
47	MP4B	Z	28.721	2.67
48	MP4B	Mx	-.033	2.67
49	MP4C	X	-30.641	.75
50	MP4C	Z	53.072	.75
51	MP4C	Mx	.039	.75
52	MP4C	X	-30.641	2.67
53	MP4C	Z	53.072	2.67
54	MP4C	Mx	.039	2.67
55	MP1A	X	-15.417	3.2
56	MP1A	Z	26.703	3.2
57	MP1A	Mx	-.015	3.2
58	MP1A	X	-15.417	3.2
59	MP1A	Z	26.703	3.2
60	MP1A	Mx	-.015	3.2
61	MP1B	X	-11.438	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
62	MP1B	Z	19.812	3.2
63	MP1B	Mx	.023	3.2
64	MP1B	X	-11.438	3.2
65	MP1B	Z	19.812	3.2
66	MP1B	Mx	.023	3.2
67	MP1C	X	-14.515	3.2
68	MP1C	Z	25.141	3.2
69	MP1C	Mx	-.019	3.2
70	MP1C	X	-14.515	3.2
71	MP1C	Z	25.141	3.2
72	MP1C	Mx	-.019	3.2
73	MP3A	X	-18.655	3.8
74	MP3A	Z	32.312	3.8
75	MP3A	Mx	-.019	3.8
76	MP3A	X	-18.655	3.8
77	MP3A	Z	32.312	3.8
78	MP3A	Mx	-.019	3.8
79	MP3B	X	-14.013	3.8
80	MP3B	Z	24.271	3.8
81	MP3B	Mx	.028	3.8
82	MP3B	X	-14.013	3.8
83	MP3B	Z	24.271	3.8
84	MP3B	Mx	.028	3.8
85	MP3C	X	-17.603	3.8
86	MP3C	Z	30.489	3.8
87	MP3C	Mx	-.023	3.8
88	MP3C	X	-17.603	3.8
89	MP3C	Z	30.489	3.8
90	MP3C	Mx	-.023	3.8
91	A26	X	-32.298	1.75
92	A26	Z	55.941	1.75
93	A26	Mx	0	1.75
94	A26	X	-32.298	1.75
95	A26	Z	55.941	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-58.288	.88
2	MP2A	Z	33.652	.88
3	MP2A	Mx	.039	.88
4	MP2A	X	-58.288	5.54
5	MP2A	Z	33.652	5.54
6	MP2A	Mx	.039	5.54
7	MP2B	X	-50.547	.88
8	MP2B	Z	29.183	.88
9	MP2B	Mx	-.066	.88
10	MP2B	X	-50.547	5.54
11	MP2B	Z	29.183	5.54
12	MP2B	Mx	-.066	5.54
13	MP2C	X	-100.178	.88
14	MP2C	Z	57.838	.88
15	MP2C	Mx	.087	.88
16	MP2C	X	-100.178	5.54
17	MP2C	Z	57.838	5.54
18	MP2C	Mx	.087	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
19	MP2A	X	-58.288	.88
20	MP2A	Z	33.652	.88
21	MP2A	Mx	.078	.88
22	MP2A	X	-58.288	5.54
23	MP2A	Z	33.652	5.54
24	MP2A	Mx	.078	5.54
25	MP2B	X	-50.547	.88
26	MP2B	Z	29.183	.88
27	MP2B	Mx	-.043	.88
28	MP2B	X	-50.547	5.54
29	MP2B	Z	29.183	5.54
30	MP2B	Mx	-.043	5.54
31	MP2C	X	-100.178	.88
32	MP2C	Z	57.838	.88
33	MP2C	Mx	-.046	.88
34	MP2C	X	-100.178	5.54
35	MP2C	Z	57.838	5.54
36	MP2C	Mx	-.046	5.54
37	MP4A	X	-38.338	.75
38	MP4A	Z	22.135	.75
39	MP4A	Mx	.038	.75
40	MP4A	X	-38.338	2.67
41	MP4A	Z	22.135	2.67
42	MP4A	Mx	.038	2.67
43	MP4B	X	-32.519	.75
44	MP4B	Z	18.775	.75
45	MP4B	Mx	-.035	.75
46	MP4B	X	-32.519	2.67
47	MP4B	Z	18.775	2.67
48	MP4B	Mx	-.035	2.67
49	MP4C	X	-69.827	.75
50	MP4C	Z	40.315	.75
51	MP4C	Mx	.014	.75
52	MP4C	X	-69.827	2.67
53	MP4C	Z	40.315	2.67
54	MP4C	Mx	.014	2.67
55	MP1A	X	-21.917	3.2
56	MP1A	Z	12.653	3.2
57	MP1A	Mx	-.022	3.2
58	MP1A	X	-21.917	3.2
59	MP1A	Z	12.653	3.2
60	MP1A	Mx	-.022	3.2
61	MP1B	X	-20.643	3.2
62	MP1B	Z	11.918	3.2
63	MP1B	Mx	.022	3.2
64	MP1B	X	-20.643	3.2
65	MP1B	Z	11.918	3.2
66	MP1B	Mx	.022	3.2
67	MP1C	X	-28.808	3.2
68	MP1C	Z	16.632	3.2
69	MP1C	Mx	-.006	3.2
70	MP1C	X	-28.808	3.2
71	MP1C	Z	16.632	3.2
72	MP1C	Mx	-.006	3.2
73	MP3A	X	-26.727	3.8
74	MP3A	Z	15.431	3.8
75	MP3A	Mx	-.027	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
76	MP3A	X	-26.727	3.8
77	MP3A	Z	15.431	3.8
78	MP3A	Mx	-.027	3.8
79	MP3B	X	-25.241	3.8
80	MP3B	Z	14.573	3.8
81	MP3B	Mx	.027	3.8
82	MP3B	X	-25.241	3.8
83	MP3B	Z	14.573	3.8
84	MP3B	Mx	.027	3.8
85	MP3C	X	-34.767	3.8
86	MP3C	Z	20.073	3.8
87	MP3C	Mx	-.007	3.8
88	MP3C	X	-34.767	3.8
89	MP3C	Z	20.073	3.8
90	MP3C	Mx	-.007	3.8
91	A26	X	-48.808	1.75
92	A26	Z	28.179	1.75
93	A26	Mx	0	1.75
94	A26	X	-48.808	1.75
95	A26	Z	28.179	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-50.506	.88
2	MP2A	Z	0	.88
3	MP2A	Mx	.051	.88
4	MP2A	X	-50.506	5.54
5	MP2A	Z	0	5.54
6	MP2A	Mx	.051	5.54
7	MP2B	X	-89.938	.88
8	MP2B	Z	0	.88
9	MP2B	Mx	-.098	.88
10	MP2B	X	-89.938	5.54
11	MP2B	Z	0	5.54
12	MP2B	Mx	-.098	5.54
13	MP2C	X	-109.841	.88
14	MP2C	Z	0	.88
15	MP2C	Mx	.023	.88
16	MP2C	X	-109.841	5.54
17	MP2C	Z	0	5.54
18	MP2C	Mx	.023	5.54
19	MP2A	X	-50.506	.88
20	MP2A	Z	0	.88
21	MP2A	Mx	.051	.88
22	MP2A	X	-50.506	5.54
23	MP2A	Z	0	5.54
24	MP2A	Mx	.051	5.54
25	MP2B	X	-89.938	.88
26	MP2B	Z	0	.88
27	MP2B	Mx	-.018	.88
28	MP2B	X	-89.938	5.54
29	MP2B	Z	0	5.54
30	MP2B	Mx	-.018	5.54
31	MP2C	X	-109.841	.88
32	MP2C	Z	0	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2C	Mx	-.098	.88
34	MP2C	X	-109.841	5.54
35	MP2C	Z	0	5.54
36	MP2C	Mx	-.098	5.54
37	MP4A	X	-31.641	.75
38	MP4A	Z	0	.75
39	MP4A	Mx	.032	.75
40	MP4A	X	-31.641	2.67
41	MP4A	Z	0	2.67
42	MP4A	Mx	.032	2.67
43	MP4B	X	-61.283	.75
44	MP4B	Z	0	.75
45	MP4B	Mx	-.039	.75
46	MP4B	X	-61.283	2.67
47	MP4B	Z	0	2.67
48	MP4B	Mx	-.039	2.67
49	MP4C	X	-76.244	.75
50	MP4C	Z	0	.75
51	MP4C	Mx	-.026	.75
52	MP4C	X	-76.244	2.67
53	MP4C	Z	0	2.67
54	MP4C	Mx	-.026	2.67
55	MP1A	X	-22.543	3.2
56	MP1A	Z	0	3.2
57	MP1A	Mx	-.023	3.2
58	MP1A	X	-22.543	3.2
59	MP1A	Z	0	3.2
60	MP1A	Mx	-.023	3.2
61	MP1B	X	-29.031	3.2
62	MP1B	Z	0	3.2
63	MP1B	Mx	.019	3.2
64	MP1B	X	-29.031	3.2
65	MP1B	Z	0	3.2
66	MP1B	Mx	.019	3.2
67	MP1C	X	-32.305	3.2
68	MP1C	Z	0	3.2
69	MP1C	Mx	.011	3.2
70	MP1C	X	-32.305	3.2
71	MP1C	Z	0	3.2
72	MP1C	Mx	.011	3.2
73	MP3A	X	-27.637	3.8
74	MP3A	Z	0	3.8
75	MP3A	Mx	-.028	3.8
76	MP3A	X	-27.637	3.8
77	MP3A	Z	0	3.8
78	MP3A	Mx	-.028	3.8
79	MP3B	X	-35.206	3.8
80	MP3B	Z	0	3.8
81	MP3B	Mx	.023	3.8
82	MP3B	X	-35.206	3.8
83	MP3B	Z	0	3.8
84	MP3B	Mx	.023	3.8
85	MP3C	X	-39.026	3.8
86	MP3C	Z	0	3.8
87	MP3C	Mx	.013	3.8
88	MP3C	X	-39.026	3.8
89	MP3C	Z	0	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP3C	Mx	.013	3.8
91	A26	X	-52.24	1.75
92	A26	Z	0	1.75
93	A26	Mx	0	1.75
94	A26	X	-52.24	1.75
95	A26	Z	0	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-58.288	.88
2	MP2A	Z	-33.652	.88
3	MP2A	Mx	.078	.88
4	MP2A	X	-58.288	5.54
5	MP2A	Z	-33.652	5.54
6	MP2A	Mx	.078	5.54
7	MP2B	X	-100.178	.88
8	MP2B	Z	-57.838	.88
9	MP2B	Mx	-.087	.88
10	MP2B	X	-100.178	5.54
11	MP2B	Z	-57.838	5.54
12	MP2B	Mx	-.087	5.54
13	MP2C	X	-67.783	.88
14	MP2C	Z	-39.135	.88
15	MP2C	Mx	-.031	.88
16	MP2C	X	-67.783	5.54
17	MP2C	Z	-39.135	5.54
18	MP2C	Mx	-.031	5.54
19	MP2A	X	-58.288	.88
20	MP2A	Z	-33.652	.88
21	MP2A	Mx	.039	.88
22	MP2A	X	-58.288	5.54
23	MP2A	Z	-33.652	5.54
24	MP2A	Mx	.039	5.54
25	MP2B	X	-100.178	.88
26	MP2B	Z	-57.838	.88
27	MP2B	Mx	.046	.88
28	MP2B	X	-100.178	5.54
29	MP2B	Z	-57.838	5.54
30	MP2B	Mx	.046	5.54
31	MP2C	X	-67.783	.88
32	MP2C	Z	-39.135	.88
33	MP2C	Mx	-.089	.88
34	MP2C	X	-67.783	5.54
35	MP2C	Z	-39.135	5.54
36	MP2C	Mx	-.089	5.54
37	MP4A	X	-38.338	.75
38	MP4A	Z	-22.135	.75
39	MP4A	Mx	.038	.75
40	MP4A	X	-38.338	2.67
41	MP4A	Z	-22.135	2.67
42	MP4A	Mx	.038	2.67
43	MP4B	X	-69.827	.75
44	MP4B	Z	-40.315	.75
45	MP4B	Mx	-.014	.75
46	MP4B	X	-69.827	2.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
47	MP4B	Z	-40.315	2.67
48	MP4B	Mx	-.014	2.67
49	MP4C	X	-45.476	.75
50	MP4C	Z	-26.256	.75
51	MP4C	Mx	-.04	.75
52	MP4C	X	-45.476	2.67
53	MP4C	Z	-26.256	2.67
54	MP4C	Mx	-.04	2.67
55	MP1A	X	-21.917	3.2
56	MP1A	Z	-12.653	3.2
57	MP1A	Mx	-.022	3.2
58	MP1A	X	-21.917	3.2
59	MP1A	Z	-12.653	3.2
60	MP1A	Mx	-.022	3.2
61	MP1B	X	-28.808	3.2
62	MP1B	Z	-16.632	3.2
63	MP1B	Mx	.006	3.2
64	MP1B	X	-28.808	3.2
65	MP1B	Z	-16.632	3.2
66	MP1B	Mx	.006	3.2
67	MP1C	X	-23.479	3.2
68	MP1C	Z	-13.555	3.2
69	MP1C	Mx	.021	3.2
70	MP1C	X	-23.479	3.2
71	MP1C	Z	-13.555	3.2
72	MP1C	Mx	.021	3.2
73	MP3A	X	-26.727	3.8
74	MP3A	Z	-15.431	3.8
75	MP3A	Mx	-.027	3.8
76	MP3A	X	-26.727	3.8
77	MP3A	Z	-15.431	3.8
78	MP3A	Mx	-.027	3.8
79	MP3B	X	-34.767	3.8
80	MP3B	Z	-20.073	3.8
81	MP3B	Mx	.007	3.8
82	MP3B	X	-34.767	3.8
83	MP3B	Z	-20.073	3.8
84	MP3B	Mx	.007	3.8
85	MP3C	X	-28.549	3.8
86	MP3C	Z	-16.483	3.8
87	MP3C	Mx	.025	3.8
88	MP3C	X	-28.549	3.8
89	MP3C	Z	-16.483	3.8
90	MP3C	Mx	.025	3.8
91	A26	X	-48.808	1.75
92	A26	Z	-28.179	1.75
93	A26	Mx	0	1.75
94	A26	X	-48.808	1.75
95	A26	Z	-28.179	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-50.451	.88
2	MP2A	Z	-87.384	.88
3	MP2A	Mx	.101	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP2A	X	-50.451	5.54
5	MP2A	Z	-87.384	5.54
6	MP2A	Mx	.101	5.54
7	MP2B	X	-54.921	.88
8	MP2B	Z	-95.125	.88
9	MP2B	Mx	-.023	.88
10	MP2B	X	-54.921	5.54
11	MP2B	Z	-95.125	5.54
12	MP2B	Mx	-.023	5.54
13	MP2C	X	-26.266	.88
14	MP2C	Z	-45.494	.88
15	MP2C	Mx	-.046	.88
16	MP2C	X	-26.266	5.54
17	MP2C	Z	-45.494	5.54
18	MP2C	Mx	-.046	5.54
19	MP2A	X	-50.451	.88
20	MP2A	Z	-87.384	.88
21	MP2A	Mx	-.000523	.88
22	MP2A	X	-50.451	5.54
23	MP2A	Z	-87.384	5.54
24	MP2A	Mx	-.000523	5.54
25	MP2B	X	-54.921	.88
26	MP2B	Z	-95.125	.88
27	MP2B	Mx	.098	.88
28	MP2B	X	-54.921	5.54
29	MP2B	Z	-95.125	5.54
30	MP2B	Mx	.098	5.54
31	MP2C	X	-26.266	.88
32	MP2C	Z	-45.494	.88
33	MP2C	Mx	-.057	.88
34	MP2C	X	-26.266	5.54
35	MP2C	Z	-45.494	5.54
36	MP2C	Mx	-.057	5.54
37	MP4A	X	-34.762	.75
38	MP4A	Z	-60.21	.75
39	MP4A	Mx	.035	.75
40	MP4A	X	-34.762	2.67
41	MP4A	Z	-60.21	2.67
42	MP4A	Mx	.035	2.67
43	MP4B	X	-38.122	.75
44	MP4B	Z	-66.029	.75
45	MP4B	Mx	.026	.75
46	MP4B	X	-38.122	2.67
47	MP4B	Z	-66.029	2.67
48	MP4B	Mx	.026	2.67
49	MP4C	X	-16.582	.75
50	MP4C	Z	-28.721	.75
51	MP4C	Mx	-.033	.75
52	MP4C	X	-16.582	2.67
53	MP4C	Z	-28.721	2.67
54	MP4C	Mx	-.033	2.67
55	MP1A	X	-15.417	3.2
56	MP1A	Z	-26.703	3.2
57	MP1A	Mx	-.015	3.2
58	MP1A	X	-15.417	3.2
59	MP1A	Z	-26.703	3.2
60	MP1A	Mx	-.015	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
61	MP1B	X	-16.152	3.2
62	MP1B	Z	-27.977	3.2
63	MP1B	Mx	-.011	3.2
64	MP1B	X	-16.152	3.2
65	MP1B	Z	-27.977	3.2
66	MP1B	Mx	-.011	3.2
67	MP1C	X	-11.438	3.2
68	MP1C	Z	-19.812	3.2
69	MP1C	Mx	.023	3.2
70	MP1C	X	-11.438	3.2
71	MP1C	Z	-19.812	3.2
72	MP1C	Mx	.023	3.2
73	MP3A	X	-18.655	3.8
74	MP3A	Z	-32.312	3.8
75	MP3A	Mx	-.019	3.8
76	MP3A	X	-18.655	3.8
77	MP3A	Z	-32.312	3.8
78	MP3A	Mx	-.019	3.8
79	MP3B	X	-19.513	3.8
80	MP3B	Z	-33.797	3.8
81	MP3B	Mx	-.013	3.8
82	MP3B	X	-19.513	3.8
83	MP3B	Z	-33.797	3.8
84	MP3B	Mx	-.013	3.8
85	MP3C	X	-14.013	3.8
86	MP3C	Z	-24.271	3.8
87	MP3C	Mx	.028	3.8
88	MP3C	X	-14.013	3.8
89	MP3C	Z	-24.271	3.8
90	MP3C	Mx	.028	3.8
91	A26	X	-32.298	1.75
92	A26	Z	-55.941	1.75
93	A26	Mx	0	1.75
94	A26	X	-32.298	1.75
95	A26	Z	-55.941	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.88
2	MP2A	Z	-35.299	.88
3	MP2A	Mx	.021	.88
4	MP2A	X	0	5.54
5	MP2A	Z	-35.299	5.54
6	MP2A	Mx	.021	5.54
7	MP2B	X	0	.88
8	MP2B	Z	-29.161	.88
9	MP2B	Mx	.011	.88
10	MP2B	X	0	5.54
11	MP2B	Z	-29.161	5.54
12	MP2B	Mx	.011	5.54
13	MP2C	X	0	.88
14	MP2C	Z	-26.062	.88
15	MP2C	Mx	-.03	.88
16	MP2C	X	0	5.54
17	MP2C	Z	-26.062	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP2C	Mx	-.03	5.54
19	MP2A	X	0	.88
20	MP2A	Z	-35.299	.88
21	MP2A	Mx	-.021	.88
22	MP2A	X	0	5.54
23	MP2A	Z	-35.299	5.54
24	MP2A	Mx	-.021	5.54
25	MP2B	X	0	.88
26	MP2B	Z	-29.161	.88
27	MP2B	Mx	.033	.88
28	MP2B	X	0	5.54
29	MP2B	Z	-29.161	5.54
30	MP2B	Mx	.033	5.54
31	MP2C	X	0	.88
32	MP2C	Z	-26.062	.88
33	MP2C	Mx	-.019	.88
34	MP2C	X	0	5.54
35	MP2C	Z	-26.062	5.54
36	MP2C	Mx	-.019	5.54
37	MP4A	X	0	.75
38	MP4A	Z	-17.416	.75
39	MP4A	Mx	0	.75
40	MP4A	X	0	2.67
41	MP4A	Z	-17.416	2.67
42	MP4A	Mx	0	2.67
43	MP4B	X	0	.75
44	MP4B	Z	-11.718	.75
45	MP4B	Mx	.009	.75
46	MP4B	X	0	2.67
47	MP4B	Z	-11.718	2.67
48	MP4B	Mx	.009	2.67
49	MP4C	X	0	.75
50	MP4C	Z	-8.843	.75
51	MP4C	Mx	-.008	.75
52	MP4C	X	0	2.67
53	MP4C	Z	-8.843	2.67
54	MP4C	Mx	-.008	2.67
55	MP1A	X	0	3.2
56	MP1A	Z	-9.208	3.2
57	MP1A	Mx	0	3.2
58	MP1A	X	0	3.2
59	MP1A	Z	-9.208	3.2
60	MP1A	Mx	0	3.2
61	MP1B	X	0	3.2
62	MP1B	Z	-7.64	3.2
63	MP1B	Mx	-.006	3.2
64	MP1B	X	0	3.2
65	MP1B	Z	-7.64	3.2
66	MP1B	Mx	-.006	3.2
67	MP1C	X	0	3.2
68	MP1C	Z	-6.848	3.2
69	MP1C	Mx	.006	3.2
70	MP1C	X	0	3.2
71	MP1C	Z	-6.848	3.2
72	MP1C	Mx	.006	3.2
73	MP3A	X	0	3.8
74	MP3A	Z	-9.208	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
75	MP3A	Mx	0	3.8
76	MP3A	X	0	3.8
77	MP3A	Z	-9.208	3.8
78	MP3A	Mx	0	3.8
79	MP3B	X	0	3.8
80	MP3B	Z	-7.702	3.8
81	MP3B	Mx	-.006	3.8
82	MP3B	X	0	3.8
83	MP3B	Z	-7.702	3.8
84	MP3B	Mx	-.006	3.8
85	MP3C	X	0	3.8
86	MP3C	Z	-6.942	3.8
87	MP3C	Mx	.007	3.8
88	MP3C	X	0	3.8
89	MP3C	Z	-6.942	3.8
90	MP3C	Mx	.007	3.8
91	A26	X	0	1.75
92	A26	Z	-18.444	1.75
93	A26	Mx	0	1.75
94	A26	X	0	1.75
95	A26	Z	-18.444	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	16.342	.88
2	MP2A	Z	-28.305	.88
3	MP2A	Mx	.000169	.88
4	MP2A	X	16.342	5.54
5	MP2A	Z	-28.305	5.54
6	MP2A	Mx	.000169	5.54
7	MP2B	X	12.577	.88
8	MP2B	Z	-21.784	.88
9	MP2B	Mx	.022	.88
10	MP2B	X	12.577	5.54
11	MP2B	Z	-21.784	5.54
12	MP2B	Mx	.022	5.54
13	MP2C	X	15.489	.88
14	MP2C	Z	-26.827	.88
15	MP2C	Mx	-.034	.88
16	MP2C	X	15.489	5.54
17	MP2C	Z	-26.827	5.54
18	MP2C	Mx	-.034	5.54
19	MP2A	X	16.342	.88
20	MP2A	Z	-28.305	.88
21	MP2A	Mx	-.033	.88
22	MP2A	X	16.342	5.54
23	MP2A	Z	-28.305	5.54
24	MP2A	Mx	-.033	5.54
25	MP2B	X	12.577	.88
26	MP2B	Z	-21.784	.88
27	MP2B	Mx	.027	.88
28	MP2B	X	12.577	5.54
29	MP2B	Z	-21.784	5.54
30	MP2B	Mx	.027	5.54
31	MP2C	X	15.489	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
32	MP2C	Z	-26.827	.88
33	MP2C	Mx	-.006	.88
34	MP2C	X	15.489	5.54
35	MP2C	Z	-26.827	5.54
36	MP2C	Mx	-.006	5.54
37	MP4A	X	7.494	.75
38	MP4A	Z	-12.981	.75
39	MP4A	Mx	-.007	.75
40	MP4A	X	7.494	2.67
41	MP4A	Z	-12.981	2.67
42	MP4A	Mx	-.007	2.67
43	MP4B	X	4	.75
44	MP4B	Z	-6.928	.75
45	MP4B	Mx	.008	.75
46	MP4B	X	4	2.67
47	MP4B	Z	-6.928	2.67
48	MP4B	Mx	.008	2.67
49	MP4C	X	6.702	.75
50	MP4C	Z	-11.609	.75
51	MP4C	Mx	-.009	.75
52	MP4C	X	6.702	2.67
53	MP4C	Z	-11.609	2.67
54	MP4C	Mx	-.009	2.67
55	MP1A	X	4.27	3.2
56	MP1A	Z	-7.396	3.2
57	MP1A	Mx	.004	3.2
58	MP1A	X	4.27	3.2
59	MP1A	Z	-7.396	3.2
60	MP1A	Mx	.004	3.2
61	MP1B	X	3.308	3.2
62	MP1B	Z	-5.729	3.2
63	MP1B	Mx	-.007	3.2
64	MP1B	X	3.308	3.2
65	MP1B	Z	-5.729	3.2
66	MP1B	Mx	-.007	3.2
67	MP1C	X	4.052	3.2
68	MP1C	Z	-7.018	3.2
69	MP1C	Mx	.005	3.2
70	MP1C	X	4.052	3.2
71	MP1C	Z	-7.018	3.2
72	MP1C	Mx	.005	3.2
73	MP3A	X	4.283	3.8
74	MP3A	Z	-7.419	3.8
75	MP3A	Mx	.004	3.8
76	MP3A	X	4.283	3.8
77	MP3A	Z	-7.419	3.8
78	MP3A	Mx	.004	3.8
79	MP3B	X	3.36	3.8
80	MP3B	Z	-5.819	3.8
81	MP3B	Mx	-.007	3.8
82	MP3B	X	3.36	3.8
83	MP3B	Z	-5.819	3.8
84	MP3B	Mx	-.007	3.8
85	MP3C	X	4.074	3.8
86	MP3C	Z	-7.056	3.8
87	MP3C	Mx	.005	3.8
88	MP3C	X	4.074	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP3C	Z	-7.056	3.8
90	MP3C	Mx	.005	3.8
91	A26	X	8.74	1.75
92	A26	Z	-15.138	1.75
93	A26	Mx	0	1.75
94	A26	X	8.74	1.75
95	A26	Z	-15.138	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	23.776	.88
2	MP2A	Z	-13.727	.88
3	MP2A	Mx	-.016	.88
4	MP2A	X	23.776	5.54
5	MP2A	Z	-13.727	5.54
6	MP2A	Mx	-.016	5.54
7	MP2B	X	22.57	.88
8	MP2B	Z	-13.031	.88
9	MP2B	Mx	.03	.88
10	MP2B	X	22.57	5.54
11	MP2B	Z	-13.031	5.54
12	MP2B	Mx	.03	5.54
13	MP2C	X	30.297	.88
14	MP2C	Z	-17.492	.88
15	MP2C	Mx	-.026	.88
16	MP2C	X	30.297	5.54
17	MP2C	Z	-17.492	5.54
18	MP2C	Mx	-.026	5.54
19	MP2A	X	23.776	.88
20	MP2A	Z	-13.727	.88
21	MP2A	Mx	-.032	.88
22	MP2A	X	23.776	5.54
23	MP2A	Z	-13.727	5.54
24	MP2A	Mx	-.032	5.54
25	MP2B	X	22.57	.88
26	MP2B	Z	-13.031	.88
27	MP2B	Mx	.019	.88
28	MP2B	X	22.57	5.54
29	MP2B	Z	-13.031	5.54
30	MP2B	Mx	.019	5.54
31	MP2C	X	30.297	.88
32	MP2C	Z	-17.492	.88
33	MP2C	Mx	.014	.88
34	MP2C	X	30.297	5.54
35	MP2C	Z	-17.492	5.54
36	MP2C	Mx	.014	5.54
37	MP4A	X	8.776	.75
38	MP4A	Z	-5.067	.75
39	MP4A	Mx	-.009	.75
40	MP4A	X	8.776	2.67
41	MP4A	Z	-5.067	2.67
42	MP4A	Mx	-.009	2.67
43	MP4B	X	7.658	.75
44	MP4B	Z	-4.421	.75
45	MP4B	Mx	.008	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP4B	X	7.658	2.67
47	MP4B	Z	-4.421	2.67
48	MP4B	Mx	.008	2.67
49	MP4C	X	14.829	.75
50	MP4C	Z	-8.562	.75
51	MP4C	Mx	-.003	.75
52	MP4C	X	14.829	2.67
53	MP4C	Z	-8.562	2.67
54	MP4C	Mx	-.003	2.67
55	MP1A	X	6.238	3.2
56	MP1A	Z	-3.602	3.2
57	MP1A	Mx	.006	3.2
58	MP1A	X	6.238	3.2
59	MP1A	Z	-3.602	3.2
60	MP1A	Mx	.006	3.2
61	MP1B	X	5.93	3.2
62	MP1B	Z	-3.424	3.2
63	MP1B	Mx	-.006	3.2
64	MP1B	X	5.93	3.2
65	MP1B	Z	-3.424	3.2
66	MP1B	Mx	-.006	3.2
67	MP1C	X	7.905	3.2
68	MP1C	Z	-4.564	3.2
69	MP1C	Mx	.002	3.2
70	MP1C	X	7.905	3.2
71	MP1C	Z	-4.564	3.2
72	MP1C	Mx	.002	3.2
73	MP3A	X	6.308	3.8
74	MP3A	Z	-3.642	3.8
75	MP3A	Mx	.006	3.8
76	MP3A	X	6.308	3.8
77	MP3A	Z	-3.642	3.8
78	MP3A	Mx	.006	3.8
79	MP3B	X	6.012	3.8
80	MP3B	Z	-3.471	3.8
81	MP3B	Mx	-.007	3.8
82	MP3B	X	6.012	3.8
83	MP3B	Z	-3.471	3.8
84	MP3B	Mx	-.007	3.8
85	MP3C	X	7.908	3.8
86	MP3C	Z	-4.565	3.8
87	MP3C	Mx	.002	3.8
88	MP3C	X	7.908	3.8
89	MP3C	Z	-4.565	3.8
90	MP3C	Mx	.002	3.8
91	A26	X	13.467	1.75
92	A26	Z	-7.775	1.75
93	A26	Mx	0	1.75
94	A26	X	13.467	1.75
95	A26	Z	-7.775	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	24.838	.88
2	MP2A	Z	0	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
3	MP2A	Mx	-.025	.88
4	MP2A	X	24.838	5.54
5	MP2A	Z	0	5.54
6	MP2A	Mx	-.025	5.54
7	MP2B	X	30.977	.88
8	MP2B	Z	0	.88
9	MP2B	Mx	.034	.88
10	MP2B	X	30.977	5.54
11	MP2B	Z	0	5.54
12	MP2B	Mx	.034	5.54
13	MP2C	X	34.076	.88
14	MP2C	Z	0	.88
15	MP2C	Mx	-.007	.88
16	MP2C	X	34.076	5.54
17	MP2C	Z	0	5.54
18	MP2C	Mx	-.007	5.54
19	MP2A	X	24.838	.88
20	MP2A	Z	0	.88
21	MP2A	Mx	-.025	.88
22	MP2A	X	24.838	5.54
23	MP2A	Z	0	5.54
24	MP2A	Mx	-.025	5.54
25	MP2B	X	30.977	.88
26	MP2B	Z	0	.88
27	MP2B	Mx	.006	.88
28	MP2B	X	30.977	5.54
29	MP2B	Z	0	5.54
30	MP2B	Mx	.006	5.54
31	MP2C	X	34.076	.88
32	MP2C	Z	0	.88
33	MP2C	Mx	.03	.88
34	MP2C	X	34.076	5.54
35	MP2C	Z	0	5.54
36	MP2C	Mx	.03	5.54
37	MP4A	X	7.707	.75
38	MP4A	Z	0	.75
39	MP4A	Mx	-.008	.75
40	MP4A	X	7.707	2.67
41	MP4A	Z	0	2.67
42	MP4A	Mx	-.008	2.67
43	MP4B	X	13.404	.75
44	MP4B	Z	0	.75
45	MP4B	Mx	.009	.75
46	MP4B	X	13.404	2.67
47	MP4B	Z	0	2.67
48	MP4B	Mx	.009	2.67
49	MP4C	X	16.28	.75
50	MP4C	Z	0	.75
51	MP4C	Mx	.006	.75
52	MP4C	X	16.28	2.67
53	MP4C	Z	0	2.67
54	MP4C	Mx	.006	2.67
55	MP1A	X	6.535	3.2
56	MP1A	Z	0	3.2
57	MP1A	Mx	.007	3.2
58	MP1A	X	6.535	3.2
59	MP1A	Z	0	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP1A	Mx	.007	3.2
61	MP1B	X	8.104	3.2
62	MP1B	Z	0	3.2
63	MP1B	Mx	-.005	3.2
64	MP1B	X	8.104	3.2
65	MP1B	Z	0	3.2
66	MP1B	Mx	-.005	3.2
67	MP1C	X	8.896	3.2
68	MP1C	Z	0	3.2
69	MP1C	Mx	-.003	3.2
70	MP1C	X	8.896	3.2
71	MP1C	Z	0	3.2
72	MP1C	Mx	-.003	3.2
73	MP3A	X	6.642	3.8
74	MP3A	Z	0	3.8
75	MP3A	Mx	.007	3.8
76	MP3A	X	6.642	3.8
77	MP3A	Z	0	3.8
78	MP3A	Mx	.007	3.8
79	MP3B	X	8.148	3.8
80	MP3B	Z	0	3.8
81	MP3B	Mx	-.005	3.8
82	MP3B	X	8.148	3.8
83	MP3B	Z	0	3.8
84	MP3B	Mx	-.005	3.8
85	MP3C	X	8.908	3.8
86	MP3C	Z	0	3.8
87	MP3C	Mx	-.003	3.8
88	MP3C	X	8.908	3.8
89	MP3C	Z	0	3.8
90	MP3C	Mx	-.003	3.8
91	A26	X	14.586	1.75
92	A26	Z	0	1.75
93	A26	Mx	0	1.75
94	A26	X	14.586	1.75
95	A26	Z	0	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	23.776	.88
2	MP2A	Z	13.727	.88
3	MP2A	Mx	-.032	.88
4	MP2A	X	23.776	5.54
5	MP2A	Z	13.727	5.54
6	MP2A	Mx	-.032	5.54
7	MP2B	X	30.297	.88
8	MP2B	Z	17.492	.88
9	MP2B	Mx	.026	.88
10	MP2B	X	30.297	5.54
11	MP2B	Z	17.492	5.54
12	MP2B	Mx	.026	5.54
13	MP2C	X	25.254	.88
14	MP2C	Z	14.58	.88
15	MP2C	Mx	.011	.88
16	MP2C	X	25.254	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
17	MP2C	Z	14.58	5.54
18	MP2C	Mx	.011	5.54
19	MP2A	X	23.776	.88
20	MP2A	Z	13.727	.88
21	MP2A	Mx	-.016	.88
22	MP2A	X	23.776	5.54
23	MP2A	Z	13.727	5.54
24	MP2A	Mx	-.016	5.54
25	MP2B	X	30.297	.88
26	MP2B	Z	17.492	.88
27	MP2B	Mx	-.014	.88
28	MP2B	X	30.297	5.54
29	MP2B	Z	17.492	5.54
30	MP2B	Mx	-.014	5.54
31	MP2C	X	25.254	.88
32	MP2C	Z	14.58	.88
33	MP2C	Mx	.033	.88
34	MP2C	X	25.254	5.54
35	MP2C	Z	14.58	5.54
36	MP2C	Mx	.033	5.54
37	MP4A	X	8.776	.75
38	MP4A	Z	5.067	.75
39	MP4A	Mx	-.009	.75
40	MP4A	X	8.776	2.67
41	MP4A	Z	5.067	2.67
42	MP4A	Mx	-.009	2.67
43	MP4B	X	14.829	.75
44	MP4B	Z	8.562	.75
45	MP4B	Mx	.003	.75
46	MP4B	X	14.829	2.67
47	MP4B	Z	8.562	2.67
48	MP4B	Mx	.003	2.67
49	MP4C	X	10.148	.75
50	MP4C	Z	5.859	.75
51	MP4C	Mx	.009	.75
52	MP4C	X	10.148	2.67
53	MP4C	Z	5.859	2.67
54	MP4C	Mx	.009	2.67
55	MP1A	X	6.238	3.2
56	MP1A	Z	3.602	3.2
57	MP1A	Mx	.006	3.2
58	MP1A	X	6.238	3.2
59	MP1A	Z	3.602	3.2
60	MP1A	Mx	.006	3.2
61	MP1B	X	7.905	3.2
62	MP1B	Z	4.564	3.2
63	MP1B	Mx	-.002	3.2
64	MP1B	X	7.905	3.2
65	MP1B	Z	4.564	3.2
66	MP1B	Mx	-.002	3.2
67	MP1C	X	6.616	3.2
68	MP1C	Z	3.82	3.2
69	MP1C	Mx	-.006	3.2
70	MP1C	X	6.616	3.2
71	MP1C	Z	3.82	3.2
72	MP1C	Mx	-.006	3.2
73	MP3A	X	6.308	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
74	MP3A	Z	3.642	3.8
75	MP3A	Mx	.006	3.8
76	MP3A	X	6.308	3.8
77	MP3A	Z	3.642	3.8
78	MP3A	Mx	.006	3.8
79	MP3B	X	7.908	3.8
80	MP3B	Z	4.565	3.8
81	MP3B	Mx	-.002	3.8
82	MP3B	X	7.908	3.8
83	MP3B	Z	4.565	3.8
84	MP3B	Mx	-.002	3.8
85	MP3C	X	6.67	3.8
86	MP3C	Z	3.851	3.8
87	MP3C	Mx	-.006	3.8
88	MP3C	X	6.67	3.8
89	MP3C	Z	3.851	3.8
90	MP3C	Mx	-.006	3.8
91	A26	X	13.467	1.75
92	A26	Z	7.775	1.75
93	A26	Mx	0	1.75
94	A26	X	13.467	1.75
95	A26	Z	7.775	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	16.342	.88
2	MP2A	Z	28.305	.88
3	MP2A	Mx	-.033	.88
4	MP2A	X	16.342	5.54
5	MP2A	Z	28.305	5.54
6	MP2A	Mx	-.033	5.54
7	MP2B	X	17.038	.88
8	MP2B	Z	29.51	.88
9	MP2B	Mx	.007	.88
10	MP2B	X	17.038	5.54
11	MP2B	Z	29.51	5.54
12	MP2B	Mx	.007	5.54
13	MP2C	X	12.577	.88
14	MP2C	Z	21.784	.88
15	MP2C	Mx	.022	.88
16	MP2C	X	12.577	5.54
17	MP2C	Z	21.784	5.54
18	MP2C	Mx	.022	5.54
19	MP2A	X	16.342	.88
20	MP2A	Z	28.305	.88
21	MP2A	Mx	.000169	.88
22	MP2A	X	16.342	5.54
23	MP2A	Z	28.305	5.54
24	MP2A	Mx	.000169	5.54
25	MP2B	X	17.038	.88
26	MP2B	Z	29.51	.88
27	MP2B	Mx	-.03	.88
28	MP2B	X	17.038	5.54
29	MP2B	Z	29.51	5.54
30	MP2B	Mx	-.03	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
31	MP2C	X	12.577	.88
32	MP2C	Z	21.784	.88
33	MP2C	Mx	.027	.88
34	MP2C	X	12.577	5.54
35	MP2C	Z	21.784	5.54
36	MP2C	Mx	.027	5.54
37	MP4A	X	7.494	.75
38	MP4A	Z	12.981	.75
39	MP4A	Mx	-.007	.75
40	MP4A	X	7.494	2.67
41	MP4A	Z	12.981	2.67
42	MP4A	Mx	-.007	2.67
43	MP4B	X	8.14	.75
44	MP4B	Z	14.099	.75
45	MP4B	Mx	-.006	.75
46	MP4B	X	8.14	2.67
47	MP4B	Z	14.099	2.67
48	MP4B	Mx	-.006	2.67
49	MP4C	X	4	.75
50	MP4C	Z	6.928	.75
51	MP4C	Mx	.008	.75
52	MP4C	X	4	2.67
53	MP4C	Z	6.928	2.67
54	MP4C	Mx	.008	2.67
55	MP1A	X	4.27	3.2
56	MP1A	Z	7.396	3.2
57	MP1A	Mx	.004	3.2
58	MP1A	X	4.27	3.2
59	MP1A	Z	7.396	3.2
60	MP1A	Mx	.004	3.2
61	MP1B	X	4.448	3.2
62	MP1B	Z	7.704	3.2
63	MP1B	Mx	.003	3.2
64	MP1B	X	4.448	3.2
65	MP1B	Z	7.704	3.2
66	MP1B	Mx	.003	3.2
67	MP1C	X	3.308	3.2
68	MP1C	Z	5.729	3.2
69	MP1C	Mx	-.007	3.2
70	MP1C	X	3.308	3.2
71	MP1C	Z	5.729	3.2
72	MP1C	Mx	-.007	3.2
73	MP3A	X	4.283	3.8
74	MP3A	Z	7.419	3.8
75	MP3A	Mx	.004	3.8
76	MP3A	X	4.283	3.8
77	MP3A	Z	7.419	3.8
78	MP3A	Mx	.004	3.8
79	MP3B	X	4.454	3.8
80	MP3B	Z	7.715	3.8
81	MP3B	Mx	.003	3.8
82	MP3B	X	4.454	3.8
83	MP3B	Z	7.715	3.8
84	MP3B	Mx	.003	3.8
85	MP3C	X	3.36	3.8
86	MP3C	Z	5.819	3.8
87	MP3C	Mx	-.007	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
88	MP3C	X	3.36	3.8
89	MP3C	Z	5.819	3.8
90	MP3C	Mx	-.007	3.8
91	A26	X	8.74	1.75
92	A26	Z	15.138	1.75
93	A26	Mx	0	1.75
94	A26	X	8.74	1.75
95	A26	Z	15.138	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.88
2	MP2A	Z	35.299	.88
3	MP2A	Mx	-.021	.88
4	MP2A	X	0	5.54
5	MP2A	Z	35.299	5.54
6	MP2A	Mx	-.021	5.54
7	MP2B	X	0	.88
8	MP2B	Z	29.161	.88
9	MP2B	Mx	-.011	.88
10	MP2B	X	0	5.54
11	MP2B	Z	29.161	5.54
12	MP2B	Mx	-.011	5.54
13	MP2C	X	0	.88
14	MP2C	Z	26.062	.88
15	MP2C	Mx	.03	.88
16	MP2C	X	0	5.54
17	MP2C	Z	26.062	5.54
18	MP2C	Mx	.03	5.54
19	MP2A	X	0	.88
20	MP2A	Z	35.299	.88
21	MP2A	Mx	.021	.88
22	MP2A	X	0	5.54
23	MP2A	Z	35.299	5.54
24	MP2A	Mx	.021	5.54
25	MP2B	X	0	.88
26	MP2B	Z	29.161	.88
27	MP2B	Mx	-.033	.88
28	MP2B	X	0	5.54
29	MP2B	Z	29.161	5.54
30	MP2B	Mx	-.033	5.54
31	MP2C	X	0	.88
32	MP2C	Z	26.062	.88
33	MP2C	Mx	.019	.88
34	MP2C	X	0	5.54
35	MP2C	Z	26.062	5.54
36	MP2C	Mx	.019	5.54
37	MP4A	X	0	.75
38	MP4A	Z	17.416	.75
39	MP4A	Mx	0	.75
40	MP4A	X	0	2.67
41	MP4A	Z	17.416	2.67
42	MP4A	Mx	0	2.67
43	MP4B	X	0	.75
44	MP4B	Z	11.718	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
45	MP4B	Mx	-.009	.75
46	MP4B	X	0	2.67
47	MP4B	Z	11.718	2.67
48	MP4B	Mx	-.009	2.67
49	MP4C	X	0	.75
50	MP4C	Z	8.843	.75
51	MP4C	Mx	.008	.75
52	MP4C	X	0	2.67
53	MP4C	Z	8.843	2.67
54	MP4C	Mx	.008	2.67
55	MP1A	X	0	3.2
56	MP1A	Z	9.208	3.2
57	MP1A	Mx	0	3.2
58	MP1A	X	0	3.2
59	MP1A	Z	9.208	3.2
60	MP1A	Mx	0	3.2
61	MP1B	X	0	3.2
62	MP1B	Z	7.64	3.2
63	MP1B	Mx	.006	3.2
64	MP1B	X	0	3.2
65	MP1B	Z	7.64	3.2
66	MP1B	Mx	.006	3.2
67	MP1C	X	0	3.2
68	MP1C	Z	6.848	3.2
69	MP1C	Mx	-.006	3.2
70	MP1C	X	0	3.2
71	MP1C	Z	6.848	3.2
72	MP1C	Mx	-.006	3.2
73	MP3A	X	0	3.8
74	MP3A	Z	9.208	3.8
75	MP3A	Mx	0	3.8
76	MP3A	X	0	3.8
77	MP3A	Z	9.208	3.8
78	MP3A	Mx	0	3.8
79	MP3B	X	0	3.8
80	MP3B	Z	7.702	3.8
81	MP3B	Mx	.006	3.8
82	MP3B	X	0	3.8
83	MP3B	Z	7.702	3.8
84	MP3B	Mx	.006	3.8
85	MP3C	X	0	3.8
86	MP3C	Z	6.942	3.8
87	MP3C	Mx	-.007	3.8
88	MP3C	X	0	3.8
89	MP3C	Z	6.942	3.8
90	MP3C	Mx	-.007	3.8
91	A26	X	0	1.75
92	A26	Z	18.444	1.75
93	A26	Mx	0	1.75
94	A26	X	0	1.75
95	A26	Z	18.444	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-16.342	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
2	MP2A	Z	28.305	.88
3	MP2A	Mx	-.000169	.88
4	MP2A	X	-16.342	5.54
5	MP2A	Z	28.305	5.54
6	MP2A	Mx	-.000169	5.54
7	MP2B	X	-12.577	.88
8	MP2B	Z	21.784	.88
9	MP2B	Mx	-.022	.88
10	MP2B	X	-12.577	5.54
11	MP2B	Z	21.784	5.54
12	MP2B	Mx	-.022	5.54
13	MP2C	X	-15.489	.88
14	MP2C	Z	26.827	.88
15	MP2C	Mx	.034	.88
16	MP2C	X	-15.489	5.54
17	MP2C	Z	26.827	5.54
18	MP2C	Mx	.034	5.54
19	MP2A	X	-16.342	.88
20	MP2A	Z	28.305	.88
21	MP2A	Mx	.033	.88
22	MP2A	X	-16.342	5.54
23	MP2A	Z	28.305	5.54
24	MP2A	Mx	.033	5.54
25	MP2B	X	-12.577	.88
26	MP2B	Z	21.784	.88
27	MP2B	Mx	-.027	.88
28	MP2B	X	-12.577	5.54
29	MP2B	Z	21.784	5.54
30	MP2B	Mx	-.027	5.54
31	MP2C	X	-15.489	.88
32	MP2C	Z	26.827	.88
33	MP2C	Mx	.006	.88
34	MP2C	X	-15.489	5.54
35	MP2C	Z	26.827	5.54
36	MP2C	Mx	.006	5.54
37	MP4A	X	-7.494	.75
38	MP4A	Z	12.981	.75
39	MP4A	Mx	.007	.75
40	MP4A	X	-7.494	2.67
41	MP4A	Z	12.981	2.67
42	MP4A	Mx	.007	2.67
43	MP4B	X	-4	.75
44	MP4B	Z	6.928	.75
45	MP4B	Mx	-.008	.75
46	MP4B	X	-4	2.67
47	MP4B	Z	6.928	2.67
48	MP4B	Mx	-.008	2.67
49	MP4C	X	-6.702	.75
50	MP4C	Z	11.609	.75
51	MP4C	Mx	.009	.75
52	MP4C	X	-6.702	2.67
53	MP4C	Z	11.609	2.67
54	MP4C	Mx	.009	2.67
55	MP1A	X	-4.27	3.2
56	MP1A	Z	7.396	3.2
57	MP1A	Mx	-.004	3.2
58	MP1A	X	-4.27	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
59	MP1A	Z	7.396	3.2
60	MP1A	Mx	-.004	3.2
61	MP1B	X	-3.308	3.2
62	MP1B	Z	5.729	3.2
63	MP1B	Mx	.007	3.2
64	MP1B	X	-3.308	3.2
65	MP1B	Z	5.729	3.2
66	MP1B	Mx	.007	3.2
67	MP1C	X	-4.052	3.2
68	MP1C	Z	7.018	3.2
69	MP1C	Mx	-.005	3.2
70	MP1C	X	-4.052	3.2
71	MP1C	Z	7.018	3.2
72	MP1C	Mx	-.005	3.2
73	MP3A	X	-4.283	3.8
74	MP3A	Z	7.419	3.8
75	MP3A	Mx	-.004	3.8
76	MP3A	X	-4.283	3.8
77	MP3A	Z	7.419	3.8
78	MP3A	Mx	-.004	3.8
79	MP3B	X	-3.36	3.8
80	MP3B	Z	5.819	3.8
81	MP3B	Mx	.007	3.8
82	MP3B	X	-3.36	3.8
83	MP3B	Z	5.819	3.8
84	MP3B	Mx	.007	3.8
85	MP3C	X	-4.074	3.8
86	MP3C	Z	7.056	3.8
87	MP3C	Mx	-.005	3.8
88	MP3C	X	-4.074	3.8
89	MP3C	Z	7.056	3.8
90	MP3C	Mx	-.005	3.8
91	A26	X	-8.74	1.75
92	A26	Z	15.138	1.75
93	A26	Mx	0	1.75
94	A26	X	-8.74	1.75
95	A26	Z	15.138	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-23.776	.88
2	MP2A	Z	13.727	.88
3	MP2A	Mx	.016	.88
4	MP2A	X	-23.776	5.54
5	MP2A	Z	13.727	5.54
6	MP2A	Mx	.016	5.54
7	MP2B	X	-22.57	.88
8	MP2B	Z	13.031	.88
9	MP2B	Mx	-.03	.88
10	MP2B	X	-22.57	5.54
11	MP2B	Z	13.031	5.54
12	MP2B	Mx	-.03	5.54
13	MP2C	X	-30.297	.88
14	MP2C	Z	17.492	.88
15	MP2C	Mx	.026	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP2C	X	-30.297	5.54
17	MP2C	Z	17.492	5.54
18	MP2C	Mx	.026	5.54
19	MP2A	X	-23.776	.88
20	MP2A	Z	13.727	.88
21	MP2A	Mx	.032	.88
22	MP2A	X	-23.776	5.54
23	MP2A	Z	13.727	5.54
24	MP2A	Mx	.032	5.54
25	MP2B	X	-22.57	.88
26	MP2B	Z	13.031	.88
27	MP2B	Mx	-.019	.88
28	MP2B	X	-22.57	5.54
29	MP2B	Z	13.031	5.54
30	MP2B	Mx	-.019	5.54
31	MP2C	X	-30.297	.88
32	MP2C	Z	17.492	.88
33	MP2C	Mx	-.014	.88
34	MP2C	X	-30.297	5.54
35	MP2C	Z	17.492	5.54
36	MP2C	Mx	-.014	5.54
37	MP4A	X	-8.776	.75
38	MP4A	Z	5.067	.75
39	MP4A	Mx	.009	.75
40	MP4A	X	-8.776	2.67
41	MP4A	Z	5.067	2.67
42	MP4A	Mx	.009	2.67
43	MP4B	X	-7.658	.75
44	MP4B	Z	4.421	.75
45	MP4B	Mx	-.008	.75
46	MP4B	X	-7.658	2.67
47	MP4B	Z	4.421	2.67
48	MP4B	Mx	-.008	2.67
49	MP4C	X	-14.829	.75
50	MP4C	Z	8.562	.75
51	MP4C	Mx	.003	.75
52	MP4C	X	-14.829	2.67
53	MP4C	Z	8.562	2.67
54	MP4C	Mx	.003	2.67
55	MP1A	X	-6.238	3.2
56	MP1A	Z	3.602	3.2
57	MP1A	Mx	-.006	3.2
58	MP1A	X	-6.238	3.2
59	MP1A	Z	3.602	3.2
60	MP1A	Mx	-.006	3.2
61	MP1B	X	-5.93	3.2
62	MP1B	Z	3.424	3.2
63	MP1B	Mx	.006	3.2
64	MP1B	X	-5.93	3.2
65	MP1B	Z	3.424	3.2
66	MP1B	Mx	.006	3.2
67	MP1C	X	-7.905	3.2
68	MP1C	Z	4.564	3.2
69	MP1C	Mx	-.002	3.2
70	MP1C	X	-7.905	3.2
71	MP1C	Z	4.564	3.2
72	MP1C	Mx	-.002	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
73	MP3A	X	-6.308	3.8
74	MP3A	Z	3.642	3.8
75	MP3A	Mx	-.006	3.8
76	MP3A	X	-6.308	3.8
77	MP3A	Z	3.642	3.8
78	MP3A	Mx	-.006	3.8
79	MP3B	X	-6.012	3.8
80	MP3B	Z	3.471	3.8
81	MP3B	Mx	.007	3.8
82	MP3B	X	-6.012	3.8
83	MP3B	Z	3.471	3.8
84	MP3B	Mx	.007	3.8
85	MP3C	X	-7.908	3.8
86	MP3C	Z	4.565	3.8
87	MP3C	Mx	-.002	3.8
88	MP3C	X	-7.908	3.8
89	MP3C	Z	4.565	3.8
90	MP3C	Mx	-.002	3.8
91	A26	X	-13.467	1.75
92	A26	Z	7.775	1.75
93	A26	Mx	0	1.75
94	A26	X	-13.467	1.75
95	A26	Z	7.775	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-24.838	.88
2	MP2A	Z	0	.88
3	MP2A	Mx	.025	.88
4	MP2A	X	-24.838	5.54
5	MP2A	Z	0	5.54
6	MP2A	Mx	.025	5.54
7	MP2B	X	-30.977	.88
8	MP2B	Z	0	.88
9	MP2B	Mx	-.034	.88
10	MP2B	X	-30.977	5.54
11	MP2B	Z	0	5.54
12	MP2B	Mx	-.034	5.54
13	MP2C	X	-34.076	.88
14	MP2C	Z	0	.88
15	MP2C	Mx	.007	.88
16	MP2C	X	-34.076	5.54
17	MP2C	Z	0	5.54
18	MP2C	Mx	.007	5.54
19	MP2A	X	-24.838	.88
20	MP2A	Z	0	.88
21	MP2A	Mx	.025	.88
22	MP2A	X	-24.838	5.54
23	MP2A	Z	0	5.54
24	MP2A	Mx	.025	5.54
25	MP2B	X	-30.977	.88
26	MP2B	Z	0	.88
27	MP2B	Mx	-.006	.88
28	MP2B	X	-30.977	5.54
29	MP2B	Z	0	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP2B	Mx	-.006	5.54
31	MP2C	X	-34.076	.88
32	MP2C	Z	0	.88
33	MP2C	Mx	-.03	.88
34	MP2C	X	-34.076	5.54
35	MP2C	Z	0	5.54
36	MP2C	Mx	-.03	5.54
37	MP4A	X	-7.707	.75
38	MP4A	Z	0	.75
39	MP4A	Mx	.008	.75
40	MP4A	X	-7.707	2.67
41	MP4A	Z	0	2.67
42	MP4A	Mx	.008	2.67
43	MP4B	X	-13.404	.75
44	MP4B	Z	0	.75
45	MP4B	Mx	-.009	.75
46	MP4B	X	-13.404	2.67
47	MP4B	Z	0	2.67
48	MP4B	Mx	-.009	2.67
49	MP4C	X	-16.28	.75
50	MP4C	Z	0	.75
51	MP4C	Mx	-.006	.75
52	MP4C	X	-16.28	2.67
53	MP4C	Z	0	2.67
54	MP4C	Mx	-.006	2.67
55	MP1A	X	-6.535	3.2
56	MP1A	Z	0	3.2
57	MP1A	Mx	-.007	3.2
58	MP1A	X	-6.535	3.2
59	MP1A	Z	0	3.2
60	MP1A	Mx	-.007	3.2
61	MP1B	X	-8.104	3.2
62	MP1B	Z	0	3.2
63	MP1B	Mx	.005	3.2
64	MP1B	X	-8.104	3.2
65	MP1B	Z	0	3.2
66	MP1B	Mx	.005	3.2
67	MP1C	X	-8.896	3.2
68	MP1C	Z	0	3.2
69	MP1C	Mx	.003	3.2
70	MP1C	X	-8.896	3.2
71	MP1C	Z	0	3.2
72	MP1C	Mx	.003	3.2
73	MP3A	X	-6.642	3.8
74	MP3A	Z	0	3.8
75	MP3A	Mx	-.007	3.8
76	MP3A	X	-6.642	3.8
77	MP3A	Z	0	3.8
78	MP3A	Mx	-.007	3.8
79	MP3B	X	-8.148	3.8
80	MP3B	Z	0	3.8
81	MP3B	Mx	.005	3.8
82	MP3B	X	-8.148	3.8
83	MP3B	Z	0	3.8
84	MP3B	Mx	.005	3.8
85	MP3C	X	-8.908	3.8
86	MP3C	Z	0	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
87	MP3C	Mx	.003	3.8
88	MP3C	X	-8.908	3.8
89	MP3C	Z	0	3.8
90	MP3C	Mx	.003	3.8
91	A26	X	-14.586	1.75
92	A26	Z	0	1.75
93	A26	Mx	0	1.75
94	A26	X	-14.586	1.75
95	A26	Z	0	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-23.776	.88
2	MP2A	Z	-13.727	.88
3	MP2A	Mx	.032	.88
4	MP2A	X	-23.776	5.54
5	MP2A	Z	-13.727	5.54
6	MP2A	Mx	.032	5.54
7	MP2B	X	-30.297	.88
8	MP2B	Z	-17.492	.88
9	MP2B	Mx	-.026	.88
10	MP2B	X	-30.297	5.54
11	MP2B	Z	-17.492	5.54
12	MP2B	Mx	-.026	5.54
13	MP2C	X	-25.254	.88
14	MP2C	Z	-14.58	.88
15	MP2C	Mx	-.011	.88
16	MP2C	X	-25.254	5.54
17	MP2C	Z	-14.58	5.54
18	MP2C	Mx	-.011	5.54
19	MP2A	X	-23.776	.88
20	MP2A	Z	-13.727	.88
21	MP2A	Mx	.016	.88
22	MP2A	X	-23.776	5.54
23	MP2A	Z	-13.727	5.54
24	MP2A	Mx	.016	5.54
25	MP2B	X	-30.297	.88
26	MP2B	Z	-17.492	.88
27	MP2B	Mx	.014	.88
28	MP2B	X	-30.297	5.54
29	MP2B	Z	-17.492	5.54
30	MP2B	Mx	.014	5.54
31	MP2C	X	-25.254	.88
32	MP2C	Z	-14.58	.88
33	MP2C	Mx	-.033	.88
34	MP2C	X	-25.254	5.54
35	MP2C	Z	-14.58	5.54
36	MP2C	Mx	-.033	5.54
37	MP4A	X	-8.776	.75
38	MP4A	Z	-5.067	.75
39	MP4A	Mx	.009	.75
40	MP4A	X	-8.776	2.67
41	MP4A	Z	-5.067	2.67
42	MP4A	Mx	.009	2.67
43	MP4B	X	-14.829	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP4B	Z	-8.562	.75
45	MP4B	Mx	-.003	.75
46	MP4B	X	-14.829	2.67
47	MP4B	Z	-8.562	2.67
48	MP4B	Mx	-.003	2.67
49	MP4C	X	-10.148	.75
50	MP4C	Z	-5.859	.75
51	MP4C	Mx	-.009	.75
52	MP4C	X	-10.148	2.67
53	MP4C	Z	-5.859	2.67
54	MP4C	Mx	-.009	2.67
55	MP1A	X	-6.238	3.2
56	MP1A	Z	-3.602	3.2
57	MP1A	Mx	-.006	3.2
58	MP1A	X	-6.238	3.2
59	MP1A	Z	-3.602	3.2
60	MP1A	Mx	-.006	3.2
61	MP1B	X	-7.905	3.2
62	MP1B	Z	-4.564	3.2
63	MP1B	Mx	.002	3.2
64	MP1B	X	-7.905	3.2
65	MP1B	Z	-4.564	3.2
66	MP1B	Mx	.002	3.2
67	MP1C	X	-6.616	3.2
68	MP1C	Z	-3.82	3.2
69	MP1C	Mx	.006	3.2
70	MP1C	X	-6.616	3.2
71	MP1C	Z	-3.82	3.2
72	MP1C	Mx	.006	3.2
73	MP3A	X	-6.308	3.8
74	MP3A	Z	-3.642	3.8
75	MP3A	Mx	-.006	3.8
76	MP3A	X	-6.308	3.8
77	MP3A	Z	-3.642	3.8
78	MP3A	Mx	-.006	3.8
79	MP3B	X	-7.908	3.8
80	MP3B	Z	-4.565	3.8
81	MP3B	Mx	.002	3.8
82	MP3B	X	-7.908	3.8
83	MP3B	Z	-4.565	3.8
84	MP3B	Mx	.002	3.8
85	MP3C	X	-6.67	3.8
86	MP3C	Z	-3.851	3.8
87	MP3C	Mx	.006	3.8
88	MP3C	X	-6.67	3.8
89	MP3C	Z	-3.851	3.8
90	MP3C	Mx	.006	3.8
91	A26	X	-13.467	1.75
92	A26	Z	-7.775	1.75
93	A26	Mx	0	1.75
94	A26	X	-13.467	1.75
95	A26	Z	-7.775	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-16.342	.88
2	MP2A	Z	-28.305	.88
3	MP2A	Mx	.033	.88
4	MP2A	X	-16.342	5.54
5	MP2A	Z	-28.305	5.54
6	MP2A	Mx	.033	5.54
7	MP2B	X	-17.038	.88
8	MP2B	Z	-29.51	.88
9	MP2B	Mx	-.007	.88
10	MP2B	X	-17.038	5.54
11	MP2B	Z	-29.51	5.54
12	MP2B	Mx	-.007	5.54
13	MP2C	X	-12.577	.88
14	MP2C	Z	-21.784	.88
15	MP2C	Mx	-.022	.88
16	MP2C	X	-12.577	5.54
17	MP2C	Z	-21.784	5.54
18	MP2C	Mx	-.022	5.54
19	MP2A	X	-16.342	.88
20	MP2A	Z	-28.305	.88
21	MP2A	Mx	-.000169	.88
22	MP2A	X	-16.342	5.54
23	MP2A	Z	-28.305	5.54
24	MP2A	Mx	-.000169	5.54
25	MP2B	X	-17.038	.88
26	MP2B	Z	-29.51	.88
27	MP2B	Mx	.03	.88
28	MP2B	X	-17.038	5.54
29	MP2B	Z	-29.51	5.54
30	MP2B	Mx	.03	5.54
31	MP2C	X	-12.577	.88
32	MP2C	Z	-21.784	.88
33	MP2C	Mx	-.027	.88
34	MP2C	X	-12.577	5.54
35	MP2C	Z	-21.784	5.54
36	MP2C	Mx	-.027	5.54
37	MP4A	X	-7.494	.75
38	MP4A	Z	-12.981	.75
39	MP4A	Mx	.007	.75
40	MP4A	X	-7.494	2.67
41	MP4A	Z	-12.981	2.67
42	MP4A	Mx	.007	2.67
43	MP4B	X	-8.14	.75
44	MP4B	Z	-14.099	.75
45	MP4B	Mx	.006	.75
46	MP4B	X	-8.14	2.67
47	MP4B	Z	-14.099	2.67
48	MP4B	Mx	.006	2.67
49	MP4C	X	-4	.75
50	MP4C	Z	-6.928	.75
51	MP4C	Mx	-.008	.75
52	MP4C	X	-4	2.67
53	MP4C	Z	-6.928	2.67
54	MP4C	Mx	-.008	2.67
55	MP1A	X	-4.27	3.2
56	MP1A	Z	-7.396	3.2
57	MP1A	Mx	-.004	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	X	-4.27	3.2
59	MP1A	Z	-7.396	3.2
60	MP1A	Mx	-.004	3.2
61	MP1B	X	-4.448	3.2
62	MP1B	Z	-7.704	3.2
63	MP1B	Mx	-.003	3.2
64	MP1B	X	-4.448	3.2
65	MP1B	Z	-7.704	3.2
66	MP1B	Mx	-.003	3.2
67	MP1C	X	-3.308	3.2
68	MP1C	Z	-5.729	3.2
69	MP1C	Mx	.007	3.2
70	MP1C	X	-3.308	3.2
71	MP1C	Z	-5.729	3.2
72	MP1C	Mx	.007	3.2
73	MP3A	X	-4.283	3.8
74	MP3A	Z	-7.419	3.8
75	MP3A	Mx	-.004	3.8
76	MP3A	X	-4.283	3.8
77	MP3A	Z	-7.419	3.8
78	MP3A	Mx	-.004	3.8
79	MP3B	X	-4.454	3.8
80	MP3B	Z	-7.715	3.8
81	MP3B	Mx	-.003	3.8
82	MP3B	X	-4.454	3.8
83	MP3B	Z	-7.715	3.8
84	MP3B	Mx	-.003	3.8
85	MP3C	X	-3.36	3.8
86	MP3C	Z	-5.819	3.8
87	MP3C	Mx	.007	3.8
88	MP3C	X	-3.36	3.8
89	MP3C	Z	-5.819	3.8
90	MP3C	Mx	.007	3.8
91	A26	X	-8.74	1.75
92	A26	Z	-15.138	1.75
93	A26	Mx	0	1.75
94	A26	X	-8.74	1.75
95	A26	Z	-15.138	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.88
2	MP2A	Z	-7.356	.88
3	MP2A	Mx	.004	.88
4	MP2A	X	0	5.54
5	MP2A	Z	-7.356	5.54
6	MP2A	Mx	.004	5.54
7	MP2B	X	0	.88
8	MP2B	Z	-4.892	.88
9	MP2B	Mx	.002	.88
10	MP2B	X	0	5.54
11	MP2B	Z	-4.892	5.54
12	MP2B	Mx	.002	5.54
13	MP2C	X	0	.88
14	MP2C	Z	-3.648	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2C	Mx	-.004	.88
16	MP2C	X	0	5.54
17	MP2C	Z	-3.648	5.54
18	MP2C	Mx	-.004	5.54
19	MP2A	X	0	.88
20	MP2A	Z	-7.356	.88
21	MP2A	Mx	-.004	.88
22	MP2A	X	0	5.54
23	MP2A	Z	-7.356	5.54
24	MP2A	Mx	-.004	5.54
25	MP2B	X	0	.88
26	MP2B	Z	-4.892	.88
27	MP2B	Mx	.006	.88
28	MP2B	X	0	5.54
29	MP2B	Z	-4.892	5.54
30	MP2B	Mx	.006	5.54
31	MP2C	X	0	.88
32	MP2C	Z	-3.648	.88
33	MP2C	Mx	-.003	.88
34	MP2C	X	0	5.54
35	MP2C	Z	-3.648	5.54
36	MP2C	Mx	-.003	5.54
37	MP4A	X	0	.75
38	MP4A	Z	-5.135	.75
39	MP4A	Mx	0	.75
40	MP4A	X	0	2.67
41	MP4A	Z	-5.135	2.67
42	MP4A	Mx	0	2.67
43	MP4B	X	0	.75
44	MP4B	Z	-3.282	.75
45	MP4B	Mx	.003	.75
46	MP4B	X	0	2.67
47	MP4B	Z	-3.282	2.67
48	MP4B	Mx	.003	2.67
49	MP4C	X	0	.75
50	MP4C	Z	-2.347	.75
51	MP4C	Mx	-.002	.75
52	MP4C	X	0	2.67
53	MP4C	Z	-2.347	2.67
54	MP4C	Mx	-.002	2.67
55	MP1A	X	0	3.2
56	MP1A	Z	-2.1	3.2
57	MP1A	Mx	0	3.2
58	MP1A	X	0	3.2
59	MP1A	Z	-2.1	3.2
60	MP1A	Mx	0	3.2
61	MP1B	X	0	3.2
62	MP1B	Z	-1.694	3.2
63	MP1B	Mx	-.001	3.2
64	MP1B	X	0	3.2
65	MP1B	Z	-1.694	3.2
66	MP1B	Mx	-.001	3.2
67	MP1C	X	0	3.2
68	MP1C	Z	-1.49	3.2
69	MP1C	Mx	.001	3.2
70	MP1C	X	0	3.2
71	MP1C	Z	-1.49	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	.001	3.2
73	MP3A	X	0	3.8
74	MP3A	Z	-2.533	3.8
75	MP3A	Mx	0	3.8
76	MP3A	X	0	3.8
77	MP3A	Z	-2.533	3.8
78	MP3A	Mx	0	3.8
79	MP3B	X	0	3.8
80	MP3B	Z	-2.06	3.8
81	MP3B	Mx	-.002	3.8
82	MP3B	X	0	3.8
83	MP3B	Z	-2.06	3.8
84	MP3B	Mx	-.002	3.8
85	MP3C	X	0	3.8
86	MP3C	Z	-1.822	3.8
87	MP3C	Mx	.002	3.8
88	MP3C	X	0	3.8
89	MP3C	Z	-1.822	3.8
90	MP3C	Mx	.002	3.8
91	A26	X	0	1.75
92	A26	Z	-4.295	1.75
93	A26	Mx	0	1.75
94	A26	X	0	1.75
95	A26	Z	-4.295	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.153	.88
2	MP2A	Z	-5.462	.88
3	MP2A	Mx	3.3e-5	.88
4	MP2A	X	3.153	5.54
5	MP2A	Z	-5.462	5.54
6	MP2A	Mx	3.3e-5	5.54
7	MP2B	X	1.642	.88
8	MP2B	Z	-2.843	.88
9	MP2B	Mx	.003	.88
10	MP2B	X	1.642	5.54
11	MP2B	Z	-2.843	5.54
12	MP2B	Mx	.003	5.54
13	MP2C	X	2.811	.88
14	MP2C	Z	-4.868	.88
15	MP2C	Mx	-.006	.88
16	MP2C	X	2.811	5.54
17	MP2C	Z	-4.868	5.54
18	MP2C	Mx	-.006	5.54
19	MP2A	X	3.153	.88
20	MP2A	Z	-5.462	.88
21	MP2A	Mx	-.006	.88
22	MP2A	X	3.153	5.54
23	MP2A	Z	-5.462	5.54
24	MP2A	Mx	-.006	5.54
25	MP2B	X	1.642	.88
26	MP2B	Z	-2.843	.88
27	MP2B	Mx	.004	.88
28	MP2B	X	1.642	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP2B	Z	-2.843	5.54
30	MP2B	Mx	.004	5.54
31	MP2C	X	2.811	.88
32	MP2C	Z	-4.868	.88
33	MP2C	Mx	-.001	.88
34	MP2C	X	2.811	5.54
35	MP2C	Z	-4.868	5.54
36	MP2C	Mx	-.001	5.54
37	MP4A	X	2.173	.75
38	MP4A	Z	-3.763	.75
39	MP4A	Mx	-.002	.75
40	MP4A	X	2.173	2.67
41	MP4A	Z	-3.763	2.67
42	MP4A	Mx	-.002	2.67
43	MP4B	X	1.036	.75
44	MP4B	Z	-1.795	.75
45	MP4B	Mx	.002	.75
46	MP4B	X	1.036	2.67
47	MP4B	Z	-1.795	2.67
48	MP4B	Mx	.002	2.67
49	MP4C	X	1.915	.75
50	MP4C	Z	-3.317	.75
51	MP4C	Mx	-.002	.75
52	MP4C	X	1.915	2.67
53	MP4C	Z	-3.317	2.67
54	MP4C	Mx	-.002	2.67
55	MP1A	X	.964	3.2
56	MP1A	Z	-1.669	3.2
57	MP1A	Mx	.000964	3.2
58	MP1A	X	.964	3.2
59	MP1A	Z	-1.669	3.2
60	MP1A	Mx	.000964	3.2
61	MP1B	X	.715	3.2
62	MP1B	Z	-1.238	3.2
63	MP1B	Mx	-.001	3.2
64	MP1B	X	.715	3.2
65	MP1B	Z	-1.238	3.2
66	MP1B	Mx	-.001	3.2
67	MP1C	X	.907	3.2
68	MP1C	Z	-1.571	3.2
69	MP1C	Mx	.001	3.2
70	MP1C	X	.907	3.2
71	MP1C	Z	-1.571	3.2
72	MP1C	Mx	.001	3.2
73	MP3A	X	1.166	3.8
74	MP3A	Z	-2.019	3.8
75	MP3A	Mx	.001	3.8
76	MP3A	X	1.166	3.8
77	MP3A	Z	-2.019	3.8
78	MP3A	Mx	.001	3.8
79	MP3B	X	.876	3.8
80	MP3B	Z	-1.517	3.8
81	MP3B	Mx	-.002	3.8
82	MP3B	X	.876	3.8
83	MP3B	Z	-1.517	3.8
84	MP3B	Mx	-.002	3.8
85	MP3C	X	1.1	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3C	Z	-1.906	3.8
87	MP3C	Mx	.001	3.8
88	MP3C	X	1.1	3.8
89	MP3C	Z	-1.906	3.8
90	MP3C	Mx	.001	3.8
91	A26	X	2.019	1.75
92	A26	Z	-3.496	1.75
93	A26	Mx	0	1.75
94	A26	X	2.019	1.75
95	A26	Z	-3.496	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.643	.88
2	MP2A	Z	-2.103	.88
3	MP2A	Mx	-.002	.88
4	MP2A	X	3.643	5.54
5	MP2A	Z	-2.103	5.54
6	MP2A	Mx	-.002	5.54
7	MP2B	X	3.159	.88
8	MP2B	Z	-1.824	.88
9	MP2B	Mx	.004	.88
10	MP2B	X	3.159	5.54
11	MP2B	Z	-1.824	5.54
12	MP2B	Mx	.004	5.54
13	MP2C	X	6.261	.88
14	MP2C	Z	-3.615	.88
15	MP2C	Mx	-.005	.88
16	MP2C	X	6.261	5.54
17	MP2C	Z	-3.615	5.54
18	MP2C	Mx	-.005	5.54
19	MP2A	X	3.643	.88
20	MP2A	Z	-2.103	.88
21	MP2A	Mx	-.005	.88
22	MP2A	X	3.643	5.54
23	MP2A	Z	-2.103	5.54
24	MP2A	Mx	-.005	5.54
25	MP2B	X	3.159	.88
26	MP2B	Z	-1.824	.88
27	MP2B	Mx	.003	.88
28	MP2B	X	3.159	5.54
29	MP2B	Z	-1.824	5.54
30	MP2B	Mx	.003	5.54
31	MP2C	X	6.261	.88
32	MP2C	Z	-3.615	.88
33	MP2C	Mx	.003	.88
34	MP2C	X	6.261	5.54
35	MP2C	Z	-3.615	5.54
36	MP2C	Mx	.003	5.54
37	MP4A	X	2.396	.75
38	MP4A	Z	-1.383	.75
39	MP4A	Mx	-.002	.75
40	MP4A	X	2.396	2.67
41	MP4A	Z	-1.383	2.67
42	MP4A	Mx	-.002	2.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
43	MP4B	X	2.032	.75
44	MP4B	Z	-1.173	.75
45	MP4B	Mx	.002	.75
46	MP4B	X	2.032	2.67
47	MP4B	Z	-1.173	2.67
48	MP4B	Mx	.002	2.67
49	MP4C	X	4.364	.75
50	MP4C	Z	-2.52	.75
51	MP4C	Mx	-.000875	.75
52	MP4C	X	4.364	2.67
53	MP4C	Z	-2.52	2.67
54	MP4C	Mx	-.000875	2.67
55	MP1A	X	1.37	3.2
56	MP1A	Z	-.791	3.2
57	MP1A	Mx	.001	3.2
58	MP1A	X	1.37	3.2
59	MP1A	Z	-.791	3.2
60	MP1A	Mx	.001	3.2
61	MP1B	X	1.29	3.2
62	MP1B	Z	-.745	3.2
63	MP1B	Mx	-.001	3.2
64	MP1B	X	1.29	3.2
65	MP1B	Z	-.745	3.2
66	MP1B	Mx	-.001	3.2
67	MP1C	X	1.801	3.2
68	MP1C	Z	-1.04	3.2
69	MP1C	Mx	.000361	3.2
70	MP1C	X	1.801	3.2
71	MP1C	Z	-1.04	3.2
72	MP1C	Mx	.000361	3.2
73	MP3A	X	1.67	3.8
74	MP3A	Z	-.964	3.8
75	MP3A	Mx	.002	3.8
76	MP3A	X	1.67	3.8
77	MP3A	Z	-.964	3.8
78	MP3A	Mx	.002	3.8
79	MP3B	X	1.578	3.8
80	MP3B	Z	-.911	3.8
81	MP3B	Mx	-.002	3.8
82	MP3B	X	1.578	3.8
83	MP3B	Z	-.911	3.8
84	MP3B	Mx	-.002	3.8
85	MP3C	X	2.173	3.8
86	MP3C	Z	-1.255	3.8
87	MP3C	Mx	.000436	3.8
88	MP3C	X	2.173	3.8
89	MP3C	Z	-1.255	3.8
90	MP3C	Mx	.000436	3.8
91	A26	X	3.05	1.75
92	A26	Z	-1.761	1.75
93	A26	Mx	0	1.75
94	A26	X	3.05	1.75
95	A26	Z	-1.761	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.157	.88
2	MP2A	Z	0	.88
3	MP2A	Mx	-.003	.88
4	MP2A	X	3.157	5.54
5	MP2A	Z	0	5.54
6	MP2A	Mx	-.003	5.54
7	MP2B	X	5.621	.88
8	MP2B	Z	0	.88
9	MP2B	Mx	.006	.88
10	MP2B	X	5.621	5.54
11	MP2B	Z	0	5.54
12	MP2B	Mx	.006	5.54
13	MP2C	X	6.865	.88
14	MP2C	Z	0	.88
15	MP2C	Mx	-.001	.88
16	MP2C	X	6.865	5.54
17	MP2C	Z	0	5.54
18	MP2C	Mx	-.001	5.54
19	MP2A	X	3.157	.88
20	MP2A	Z	0	.88
21	MP2A	Mx	-.003	.88
22	MP2A	X	3.157	5.54
23	MP2A	Z	0	5.54
24	MP2A	Mx	-.003	5.54
25	MP2B	X	5.621	.88
26	MP2B	Z	0	.88
27	MP2B	Mx	.001	.88
28	MP2B	X	5.621	5.54
29	MP2B	Z	0	5.54
30	MP2B	Mx	.001	5.54
31	MP2C	X	6.865	.88
32	MP2C	Z	0	.88
33	MP2C	Mx	.006	.88
34	MP2C	X	6.865	5.54
35	MP2C	Z	0	5.54
36	MP2C	Mx	.006	5.54
37	MP4A	X	1.978	.75
38	MP4A	Z	0	.75
39	MP4A	Mx	-.002	.75
40	MP4A	X	1.978	2.67
41	MP4A	Z	0	2.67
42	MP4A	Mx	-.002	2.67
43	MP4B	X	3.83	.75
44	MP4B	Z	0	.75
45	MP4B	Mx	.002	.75
46	MP4B	X	3.83	2.67
47	MP4B	Z	0	2.67
48	MP4B	Mx	.002	2.67
49	MP4C	X	4.765	.75
50	MP4C	Z	0	.75
51	MP4C	Mx	.002	.75
52	MP4C	X	4.765	2.67
53	MP4C	Z	0	2.67
54	MP4C	Mx	.002	2.67
55	MP1A	X	1.409	3.2
56	MP1A	Z	0	3.2
57	MP1A	Mx	.001	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	X	1.409	3.2
59	MP1A	Z	0	3.2
60	MP1A	Mx	.001	3.2
61	MP1B	X	1.814	3.2
62	MP1B	Z	0	3.2
63	MP1B	Mx	-.001	3.2
64	MP1B	X	1.814	3.2
65	MP1B	Z	0	3.2
66	MP1B	Mx	-.001	3.2
67	MP1C	X	2.019	3.2
68	MP1C	Z	0	3.2
69	MP1C	Mx	-.000691	3.2
70	MP1C	X	2.019	3.2
71	MP1C	Z	0	3.2
72	MP1C	Mx	-.000691	3.2
73	MP3A	X	1.727	3.8
74	MP3A	Z	0	3.8
75	MP3A	Mx	.002	3.8
76	MP3A	X	1.727	3.8
77	MP3A	Z	0	3.8
78	MP3A	Mx	.002	3.8
79	MP3B	X	2.2	3.8
80	MP3B	Z	0	3.8
81	MP3B	Mx	-.001	3.8
82	MP3B	X	2.2	3.8
83	MP3B	Z	0	3.8
84	MP3B	Mx	-.001	3.8
85	MP3C	X	2.439	3.8
86	MP3C	Z	0	3.8
87	MP3C	Mx	-.000834	3.8
88	MP3C	X	2.439	3.8
89	MP3C	Z	0	3.8
90	MP3C	Mx	-.000834	3.8
91	A26	X	3.265	1.75
92	A26	Z	0	1.75
93	A26	Mx	0	1.75
94	A26	X	3.265	1.75
95	A26	Z	0	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.643	.88
2	MP2A	Z	2.103	.88
3	MP2A	Mx	-.005	.88
4	MP2A	X	3.643	5.54
5	MP2A	Z	2.103	5.54
6	MP2A	Mx	-.005	5.54
7	MP2B	X	6.261	.88
8	MP2B	Z	3.615	.88
9	MP2B	Mx	.005	.88
10	MP2B	X	6.261	5.54
11	MP2B	Z	3.615	5.54
12	MP2B	Mx	.005	5.54
13	MP2C	X	4.236	.88
14	MP2C	Z	2.446	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2C	Mx	.002	.88
16	MP2C	X	4.236	5.54
17	MP2C	Z	2.446	5.54
18	MP2C	Mx	.002	5.54
19	MP2A	X	3.643	.88
20	MP2A	Z	2.103	.88
21	MP2A	Mx	-.002	.88
22	MP2A	X	3.643	5.54
23	MP2A	Z	2.103	5.54
24	MP2A	Mx	-.002	5.54
25	MP2B	X	6.261	.88
26	MP2B	Z	3.615	.88
27	MP2B	Mx	-.003	.88
28	MP2B	X	6.261	5.54
29	MP2B	Z	3.615	5.54
30	MP2B	Mx	-.003	5.54
31	MP2C	X	4.236	.88
32	MP2C	Z	2.446	.88
33	MP2C	Mx	.006	.88
34	MP2C	X	4.236	5.54
35	MP2C	Z	2.446	5.54
36	MP2C	Mx	.006	5.54
37	MP4A	X	2.396	.75
38	MP4A	Z	1.383	.75
39	MP4A	Mx	-.002	.75
40	MP4A	X	2.396	2.67
41	MP4A	Z	1.383	2.67
42	MP4A	Mx	-.002	2.67
43	MP4B	X	4.364	.75
44	MP4B	Z	2.52	.75
45	MP4B	Mx	.000875	.75
46	MP4B	X	4.364	2.67
47	MP4B	Z	2.52	2.67
48	MP4B	Mx	.000875	2.67
49	MP4C	X	2.842	.75
50	MP4C	Z	1.641	.75
51	MP4C	Mx	.003	.75
52	MP4C	X	2.842	2.67
53	MP4C	Z	1.641	2.67
54	MP4C	Mx	.003	2.67
55	MP1A	X	1.37	3.2
56	MP1A	Z	.791	3.2
57	MP1A	Mx	.001	3.2
58	MP1A	X	1.37	3.2
59	MP1A	Z	.791	3.2
60	MP1A	Mx	.001	3.2
61	MP1B	X	1.801	3.2
62	MP1B	Z	1.04	3.2
63	MP1B	Mx	-.000361	3.2
64	MP1B	X	1.801	3.2
65	MP1B	Z	1.04	3.2
66	MP1B	Mx	-.000361	3.2
67	MP1C	X	1.467	3.2
68	MP1C	Z	.847	3.2
69	MP1C	Mx	-.001	3.2
70	MP1C	X	1.467	3.2
71	MP1C	Z	.847	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	-.001	3.2
73	MP3A	X	1.67	3.8
74	MP3A	Z	.964	3.8
75	MP3A	Mx	.002	3.8
76	MP3A	X	1.67	3.8
77	MP3A	Z	.964	3.8
78	MP3A	Mx	.002	3.8
79	MP3B	X	2.173	3.8
80	MP3B	Z	1.255	3.8
81	MP3B	Mx	-.000435	3.8
82	MP3B	X	2.173	3.8
83	MP3B	Z	1.255	3.8
84	MP3B	Mx	-.000435	3.8
85	MP3C	X	1.784	3.8
86	MP3C	Z	1.03	3.8
87	MP3C	Mx	-.002	3.8
88	MP3C	X	1.784	3.8
89	MP3C	Z	1.03	3.8
90	MP3C	Mx	-.002	3.8
91	A26	X	3.05	1.75
92	A26	Z	1.761	1.75
93	A26	Mx	0	1.75
94	A26	X	3.05	1.75
95	A26	Z	1.761	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.153	.88
2	MP2A	Z	5.462	.88
3	MP2A	Mx	-.006	.88
4	MP2A	X	3.153	5.54
5	MP2A	Z	5.462	5.54
6	MP2A	Mx	-.006	5.54
7	MP2B	X	3.433	.88
8	MP2B	Z	5.945	.88
9	MP2B	Mx	.001	.88
10	MP2B	X	3.433	5.54
11	MP2B	Z	5.945	5.54
12	MP2B	Mx	.001	5.54
13	MP2C	X	1.642	.88
14	MP2C	Z	2.843	.88
15	MP2C	Mx	.003	.88
16	MP2C	X	1.642	5.54
17	MP2C	Z	2.843	5.54
18	MP2C	Mx	.003	5.54
19	MP2A	X	3.153	.88
20	MP2A	Z	5.462	.88
21	MP2A	Mx	3.3e-5	.88
22	MP2A	X	3.153	5.54
23	MP2A	Z	5.462	5.54
24	MP2A	Mx	3.3e-5	5.54
25	MP2B	X	3.433	.88
26	MP2B	Z	5.945	.88
27	MP2B	Mx	-.006	.88
28	MP2B	X	3.433	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP2B	Z	5.945	5.54
30	MP2B	Mx	-.006	5.54
31	MP2C	X	1.642	.88
32	MP2C	Z	2.843	.88
33	MP2C	Mx	.004	.88
34	MP2C	X	1.642	5.54
35	MP2C	Z	2.843	5.54
36	MP2C	Mx	.004	5.54
37	MP4A	X	2.173	.75
38	MP4A	Z	3.763	.75
39	MP4A	Mx	-.002	.75
40	MP4A	X	2.173	2.67
41	MP4A	Z	3.763	2.67
42	MP4A	Mx	-.002	2.67
43	MP4B	X	2.383	.75
44	MP4B	Z	4.127	.75
45	MP4B	Mx	-.002	.75
46	MP4B	X	2.383	2.67
47	MP4B	Z	4.127	2.67
48	MP4B	Mx	-.002	2.67
49	MP4C	X	1.036	.75
50	MP4C	Z	1.795	.75
51	MP4C	Mx	.002	.75
52	MP4C	X	1.036	2.67
53	MP4C	Z	1.795	2.67
54	MP4C	Mx	.002	2.67
55	MP1A	X	.964	3.2
56	MP1A	Z	1.669	3.2
57	MP1A	Mx	.000964	3.2
58	MP1A	X	.964	3.2
59	MP1A	Z	1.669	3.2
60	MP1A	Mx	.000964	3.2
61	MP1B	X	1.01	3.2
62	MP1B	Z	1.749	3.2
63	MP1B	Mx	.000691	3.2
64	MP1B	X	1.01	3.2
65	MP1B	Z	1.749	3.2
66	MP1B	Mx	.000691	3.2
67	MP1C	X	.715	3.2
68	MP1C	Z	1.238	3.2
69	MP1C	Mx	-.001	3.2
70	MP1C	X	.715	3.2
71	MP1C	Z	1.238	3.2
72	MP1C	Mx	-.001	3.2
73	MP3A	X	1.166	3.8
74	MP3A	Z	2.019	3.8
75	MP3A	Mx	.001	3.8
76	MP3A	X	1.166	3.8
77	MP3A	Z	2.019	3.8
78	MP3A	Mx	.001	3.8
79	MP3B	X	1.22	3.8
80	MP3B	Z	2.112	3.8
81	MP3B	Mx	.000834	3.8
82	MP3B	X	1.22	3.8
83	MP3B	Z	2.112	3.8
84	MP3B	Mx	.000834	3.8
85	MP3C	X	.876	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3C	Z	1.517	3.8
87	MP3C	Mx	-.002	3.8
88	MP3C	X	.876	3.8
89	MP3C	Z	1.517	3.8
90	MP3C	Mx	-.002	3.8
91	A26	X	2.019	1.75
92	A26	Z	3.496	1.75
93	A26	Mx	0	1.75
94	A26	X	2.019	1.75
95	A26	Z	3.496	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.88
2	MP2A	Z	7.356	.88
3	MP2A	Mx	-.004	.88
4	MP2A	X	0	5.54
5	MP2A	Z	7.356	5.54
6	MP2A	Mx	-.004	5.54
7	MP2B	X	0	.88
8	MP2B	Z	4.892	.88
9	MP2B	Mx	-.002	.88
10	MP2B	X	0	5.54
11	MP2B	Z	4.892	5.54
12	MP2B	Mx	-.002	5.54
13	MP2C	X	0	.88
14	MP2C	Z	3.648	.88
15	MP2C	Mx	.004	.88
16	MP2C	X	0	5.54
17	MP2C	Z	3.648	5.54
18	MP2C	Mx	.004	5.54
19	MP2A	X	0	.88
20	MP2A	Z	7.356	.88
21	MP2A	Mx	.004	.88
22	MP2A	X	0	5.54
23	MP2A	Z	7.356	5.54
24	MP2A	Mx	.004	5.54
25	MP2B	X	0	.88
26	MP2B	Z	4.892	.88
27	MP2B	Mx	-.006	.88
28	MP2B	X	0	5.54
29	MP2B	Z	4.892	5.54
30	MP2B	Mx	-.006	5.54
31	MP2C	X	0	.88
32	MP2C	Z	3.648	.88
33	MP2C	Mx	.003	.88
34	MP2C	X	0	5.54
35	MP2C	Z	3.648	5.54
36	MP2C	Mx	.003	5.54
37	MP4A	X	0	.75
38	MP4A	Z	5.135	.75
39	MP4A	Mx	0	.75
40	MP4A	X	0	2.67
41	MP4A	Z	5.135	2.67
42	MP4A	Mx	0	2.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
43	MP4B	X	0	.75
44	MP4B	Z	3.282	.75
45	MP4B	Mx	-.003	.75
46	MP4B	X	0	2.67
47	MP4B	Z	3.282	2.67
48	MP4B	Mx	-.003	2.67
49	MP4C	X	0	.75
50	MP4C	Z	2.347	.75
51	MP4C	Mx	.002	.75
52	MP4C	X	0	2.67
53	MP4C	Z	2.347	2.67
54	MP4C	Mx	.002	2.67
55	MP1A	X	0	3.2
56	MP1A	Z	2.1	3.2
57	MP1A	Mx	0	3.2
58	MP1A	X	0	3.2
59	MP1A	Z	2.1	3.2
60	MP1A	Mx	0	3.2
61	MP1B	X	0	3.2
62	MP1B	Z	1.694	3.2
63	MP1B	Mx	.001	3.2
64	MP1B	X	0	3.2
65	MP1B	Z	1.694	3.2
66	MP1B	Mx	.001	3.2
67	MP1C	X	0	3.2
68	MP1C	Z	1.49	3.2
69	MP1C	Mx	-.001	3.2
70	MP1C	X	0	3.2
71	MP1C	Z	1.49	3.2
72	MP1C	Mx	-.001	3.2
73	MP3A	X	0	3.8
74	MP3A	Z	2.533	3.8
75	MP3A	Mx	0	3.8
76	MP3A	X	0	3.8
77	MP3A	Z	2.533	3.8
78	MP3A	Mx	0	3.8
79	MP3B	X	0	3.8
80	MP3B	Z	2.06	3.8
81	MP3B	Mx	.002	3.8
82	MP3B	X	0	3.8
83	MP3B	Z	2.06	3.8
84	MP3B	Mx	.002	3.8
85	MP3C	X	0	3.8
86	MP3C	Z	1.822	3.8
87	MP3C	Mx	-.002	3.8
88	MP3C	X	0	3.8
89	MP3C	Z	1.822	3.8
90	MP3C	Mx	-.002	3.8
91	A26	X	0	1.75
92	A26	Z	4.295	1.75
93	A26	Mx	0	1.75
94	A26	X	0	1.75
95	A26	Z	4.295	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
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Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	-3.153	.88
2	MP2A	Z	5.462	.88
3	MP2A	Mx	-3.3e-5	.88
4	MP2A	X	-3.153	5.54
5	MP2A	Z	5.462	5.54
6	MP2A	Mx	-3.3e-5	5.54
7	MP2B	X	-1.642	.88
8	MP2B	Z	2.843	.88
9	MP2B	Mx	-.003	.88
10	MP2B	X	-1.642	5.54
11	MP2B	Z	2.843	5.54
12	MP2B	Mx	-.003	5.54
13	MP2C	X	-2.811	.88
14	MP2C	Z	4.868	.88
15	MP2C	Mx	.006	.88
16	MP2C	X	-2.811	5.54
17	MP2C	Z	4.868	5.54
18	MP2C	Mx	.006	5.54
19	MP2A	X	-3.153	.88
20	MP2A	Z	5.462	.88
21	MP2A	Mx	.006	.88
22	MP2A	X	-3.153	5.54
23	MP2A	Z	5.462	5.54
24	MP2A	Mx	.006	5.54
25	MP2B	X	-1.642	.88
26	MP2B	Z	2.843	.88
27	MP2B	Mx	-.004	.88
28	MP2B	X	-1.642	5.54
29	MP2B	Z	2.843	5.54
30	MP2B	Mx	-.004	5.54
31	MP2C	X	-2.811	.88
32	MP2C	Z	4.868	.88
33	MP2C	Mx	.001	.88
34	MP2C	X	-2.811	5.54
35	MP2C	Z	4.868	5.54
36	MP2C	Mx	.001	5.54
37	MP4A	X	-2.173	.75
38	MP4A	Z	3.763	.75
39	MP4A	Mx	.002	.75
40	MP4A	X	-2.173	2.67
41	MP4A	Z	3.763	2.67
42	MP4A	Mx	.002	2.67
43	MP4B	X	-1.036	.75
44	MP4B	Z	1.795	.75
45	MP4B	Mx	-.002	.75
46	MP4B	X	-1.036	2.67
47	MP4B	Z	1.795	2.67
48	MP4B	Mx	-.002	2.67
49	MP4C	X	-1.915	.75
50	MP4C	Z	3.317	.75
51	MP4C	Mx	.002	.75
52	MP4C	X	-1.915	2.67
53	MP4C	Z	3.317	2.67
54	MP4C	Mx	.002	2.67
55	MP1A	X	-.964	3.2
56	MP1A	Z	1.669	3.2
57	MP1A	Mx	-.000964	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	X	-.964	3.2
59	MP1A	Z	1.669	3.2
60	MP1A	Mx	-.000964	3.2
61	MP1B	X	-.715	3.2
62	MP1B	Z	1.238	3.2
63	MP1B	Mx	.001	3.2
64	MP1B	X	-.715	3.2
65	MP1B	Z	1.238	3.2
66	MP1B	Mx	.001	3.2
67	MP1C	X	-.907	3.2
68	MP1C	Z	1.571	3.2
69	MP1C	Mx	-.001	3.2
70	MP1C	X	-.907	3.2
71	MP1C	Z	1.571	3.2
72	MP1C	Mx	-.001	3.2
73	MP3A	X	-1.166	3.8
74	MP3A	Z	2.019	3.8
75	MP3A	Mx	-.001	3.8
76	MP3A	X	-1.166	3.8
77	MP3A	Z	2.019	3.8
78	MP3A	Mx	-.001	3.8
79	MP3B	X	-.876	3.8
80	MP3B	Z	1.517	3.8
81	MP3B	Mx	.002	3.8
82	MP3B	X	-.876	3.8
83	MP3B	Z	1.517	3.8
84	MP3B	Mx	.002	3.8
85	MP3C	X	-1.1	3.8
86	MP3C	Z	1.906	3.8
87	MP3C	Mx	-.001	3.8
88	MP3C	X	-1.1	3.8
89	MP3C	Z	1.906	3.8
90	MP3C	Mx	-.001	3.8
91	A26	X	-2.019	1.75
92	A26	Z	3.496	1.75
93	A26	Mx	0	1.75
94	A26	X	-2.019	1.75
95	A26	Z	3.496	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-3.643	.88
2	MP2A	Z	2.103	.88
3	MP2A	Mx	.002	.88
4	MP2A	X	-3.643	5.54
5	MP2A	Z	2.103	5.54
6	MP2A	Mx	.002	5.54
7	MP2B	X	-3.159	.88
8	MP2B	Z	1.824	.88
9	MP2B	Mx	-.004	.88
10	MP2B	X	-3.159	5.54
11	MP2B	Z	1.824	5.54
12	MP2B	Mx	-.004	5.54
13	MP2C	X	-6.261	.88
14	MP2C	Z	3.615	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2C	Mx	.005	.88
16	MP2C	X	-6.261	5.54
17	MP2C	Z	3.615	5.54
18	MP2C	Mx	.005	5.54
19	MP2A	X	-3.643	.88
20	MP2A	Z	2.103	.88
21	MP2A	Mx	.005	.88
22	MP2A	X	-3.643	5.54
23	MP2A	Z	2.103	5.54
24	MP2A	Mx	.005	5.54
25	MP2B	X	-3.159	.88
26	MP2B	Z	1.824	.88
27	MP2B	Mx	-.003	.88
28	MP2B	X	-3.159	5.54
29	MP2B	Z	1.824	5.54
30	MP2B	Mx	-.003	5.54
31	MP2C	X	-6.261	.88
32	MP2C	Z	3.615	.88
33	MP2C	Mx	-.003	.88
34	MP2C	X	-6.261	5.54
35	MP2C	Z	3.615	5.54
36	MP2C	Mx	-.003	5.54
37	MP4A	X	-2.396	.75
38	MP4A	Z	1.383	.75
39	MP4A	Mx	.002	.75
40	MP4A	X	-2.396	2.67
41	MP4A	Z	1.383	2.67
42	MP4A	Mx	.002	2.67
43	MP4B	X	-2.032	.75
44	MP4B	Z	1.173	.75
45	MP4B	Mx	-.002	.75
46	MP4B	X	-2.032	2.67
47	MP4B	Z	1.173	2.67
48	MP4B	Mx	-.002	2.67
49	MP4C	X	-4.364	.75
50	MP4C	Z	2.52	.75
51	MP4C	Mx	.000875	.75
52	MP4C	X	-4.364	2.67
53	MP4C	Z	2.52	2.67
54	MP4C	Mx	.000875	2.67
55	MP1A	X	-1.37	3.2
56	MP1A	Z	.791	3.2
57	MP1A	Mx	-.001	3.2
58	MP1A	X	-1.37	3.2
59	MP1A	Z	.791	3.2
60	MP1A	Mx	-.001	3.2
61	MP1B	X	-1.29	3.2
62	MP1B	Z	.745	3.2
63	MP1B	Mx	.001	3.2
64	MP1B	X	-1.29	3.2
65	MP1B	Z	.745	3.2
66	MP1B	Mx	.001	3.2
67	MP1C	X	-1.801	3.2
68	MP1C	Z	1.04	3.2
69	MP1C	Mx	-.000361	3.2
70	MP1C	X	-1.801	3.2
71	MP1C	Z	1.04	3.2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	-0.000361	3.2
73	MP3A	X	-1.67	3.8
74	MP3A	Z	.964	3.8
75	MP3A	Mx	-.002	3.8
76	MP3A	X	-1.67	3.8
77	MP3A	Z	.964	3.8
78	MP3A	Mx	-.002	3.8
79	MP3B	X	-1.578	3.8
80	MP3B	Z	.911	3.8
81	MP3B	Mx	.002	3.8
82	MP3B	X	-1.578	3.8
83	MP3B	Z	.911	3.8
84	MP3B	Mx	.002	3.8
85	MP3C	X	-2.173	3.8
86	MP3C	Z	1.255	3.8
87	MP3C	Mx	-.000436	3.8
88	MP3C	X	-2.173	3.8
89	MP3C	Z	1.255	3.8
90	MP3C	Mx	-.000436	3.8
91	A26	X	-3.05	1.75
92	A26	Z	1.761	1.75
93	A26	Mx	0	1.75
94	A26	X	-3.05	1.75
95	A26	Z	1.761	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-3.157	.88
2	MP2A	Z	0	.88
3	MP2A	Mx	.003	.88
4	MP2A	X	-3.157	5.54
5	MP2A	Z	0	5.54
6	MP2A	Mx	.003	5.54
7	MP2B	X	-5.621	.88
8	MP2B	Z	0	.88
9	MP2B	Mx	-.006	.88
10	MP2B	X	-5.621	5.54
11	MP2B	Z	0	5.54
12	MP2B	Mx	-.006	5.54
13	MP2C	X	-6.865	.88
14	MP2C	Z	0	.88
15	MP2C	Mx	.001	.88
16	MP2C	X	-6.865	5.54
17	MP2C	Z	0	5.54
18	MP2C	Mx	.001	5.54
19	MP2A	X	-3.157	.88
20	MP2A	Z	0	.88
21	MP2A	Mx	.003	.88
22	MP2A	X	-3.157	5.54
23	MP2A	Z	0	5.54
24	MP2A	Mx	.003	5.54
25	MP2B	X	-5.621	.88
26	MP2B	Z	0	.88
27	MP2B	Mx	-.001	.88
28	MP2B	X	-5.621	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP2B	Z	0	5.54
30	MP2B	Mx	-0.001	5.54
31	MP2C	X	-6.865	.88
32	MP2C	Z	0	.88
33	MP2C	Mx	-0.006	.88
34	MP2C	X	-6.865	5.54
35	MP2C	Z	0	5.54
36	MP2C	Mx	-0.006	5.54
37	MP4A	X	-1.978	.75
38	MP4A	Z	0	.75
39	MP4A	Mx	.002	.75
40	MP4A	X	-1.978	2.67
41	MP4A	Z	0	2.67
42	MP4A	Mx	.002	2.67
43	MP4B	X	-3.83	.75
44	MP4B	Z	0	.75
45	MP4B	Mx	-0.002	.75
46	MP4B	X	-3.83	2.67
47	MP4B	Z	0	2.67
48	MP4B	Mx	-0.002	2.67
49	MP4C	X	-4.765	.75
50	MP4C	Z	0	.75
51	MP4C	Mx	-0.002	.75
52	MP4C	X	-4.765	2.67
53	MP4C	Z	0	2.67
54	MP4C	Mx	-0.002	2.67
55	MP1A	X	-1.409	3.2
56	MP1A	Z	0	3.2
57	MP1A	Mx	-0.001	3.2
58	MP1A	X	-1.409	3.2
59	MP1A	Z	0	3.2
60	MP1A	Mx	-0.001	3.2
61	MP1B	X	-1.814	3.2
62	MP1B	Z	0	3.2
63	MP1B	Mx	.001	3.2
64	MP1B	X	-1.814	3.2
65	MP1B	Z	0	3.2
66	MP1B	Mx	.001	3.2
67	MP1C	X	-2.019	3.2
68	MP1C	Z	0	3.2
69	MP1C	Mx	.000691	3.2
70	MP1C	X	-2.019	3.2
71	MP1C	Z	0	3.2
72	MP1C	Mx	.000691	3.2
73	MP3A	X	-1.727	3.8
74	MP3A	Z	0	3.8
75	MP3A	Mx	-0.002	3.8
76	MP3A	X	-1.727	3.8
77	MP3A	Z	0	3.8
78	MP3A	Mx	-0.002	3.8
79	MP3B	X	-2.2	3.8
80	MP3B	Z	0	3.8
81	MP3B	Mx	.001	3.8
82	MP3B	X	-2.2	3.8
83	MP3B	Z	0	3.8
84	MP3B	Mx	.001	3.8
85	MP3C	X	-2.439	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3C	Z	0	3.8
87	MP3C	Mx	.000834	3.8
88	MP3C	X	-2.439	3.8
89	MP3C	Z	0	3.8
90	MP3C	Mx	.000834	3.8
91	A26	X	-3.265	1.75
92	A26	Z	0	1.75
93	A26	Mx	0	1.75
94	A26	X	-3.265	1.75
95	A26	Z	0	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-3.643	.88
2	MP2A	Z	-2.103	.88
3	MP2A	Mx	.005	.88
4	MP2A	X	-3.643	5.54
5	MP2A	Z	-2.103	5.54
6	MP2A	Mx	.005	5.54
7	MP2B	X	-6.261	.88
8	MP2B	Z	-3.615	.88
9	MP2B	Mx	-.005	.88
10	MP2B	X	-6.261	5.54
11	MP2B	Z	-3.615	5.54
12	MP2B	Mx	-.005	5.54
13	MP2C	X	-4.236	.88
14	MP2C	Z	-2.446	.88
15	MP2C	Mx	-.002	.88
16	MP2C	X	-4.236	5.54
17	MP2C	Z	-2.446	5.54
18	MP2C	Mx	-.002	5.54
19	MP2A	X	-3.643	.88
20	MP2A	Z	-2.103	.88
21	MP2A	Mx	.002	.88
22	MP2A	X	-3.643	5.54
23	MP2A	Z	-2.103	5.54
24	MP2A	Mx	.002	5.54
25	MP2B	X	-6.261	.88
26	MP2B	Z	-3.615	.88
27	MP2B	Mx	.003	.88
28	MP2B	X	-6.261	5.54
29	MP2B	Z	-3.615	5.54
30	MP2B	Mx	.003	5.54
31	MP2C	X	-4.236	.88
32	MP2C	Z	-2.446	.88
33	MP2C	Mx	-.006	.88
34	MP2C	X	-4.236	5.54
35	MP2C	Z	-2.446	5.54
36	MP2C	Mx	-.006	5.54
37	MP4A	X	-2.396	.75
38	MP4A	Z	-1.383	.75
39	MP4A	Mx	.002	.75
40	MP4A	X	-2.396	2.67
41	MP4A	Z	-1.383	2.67
42	MP4A	Mx	.002	2.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP4B	X	-4.364	.75
44	MP4B	Z	-2.52	.75
45	MP4B	Mx	-.000875	.75
46	MP4B	X	-4.364	2.67
47	MP4B	Z	-2.52	2.67
48	MP4B	Mx	-.000875	2.67
49	MP4C	X	-2.842	.75
50	MP4C	Z	-1.641	.75
51	MP4C	Mx	-.003	.75
52	MP4C	X	-2.842	2.67
53	MP4C	Z	-1.641	2.67
54	MP4C	Mx	-.003	2.67
55	MP1A	X	-1.37	3.2
56	MP1A	Z	-.791	3.2
57	MP1A	Mx	-.001	3.2
58	MP1A	X	-1.37	3.2
59	MP1A	Z	-.791	3.2
60	MP1A	Mx	-.001	3.2
61	MP1B	X	-1.801	3.2
62	MP1B	Z	-1.04	3.2
63	MP1B	Mx	.000361	3.2
64	MP1B	X	-1.801	3.2
65	MP1B	Z	-1.04	3.2
66	MP1B	Mx	.000361	3.2
67	MP1C	X	-1.467	3.2
68	MP1C	Z	-.847	3.2
69	MP1C	Mx	.001	3.2
70	MP1C	X	-1.467	3.2
71	MP1C	Z	-.847	3.2
72	MP1C	Mx	.001	3.2
73	MP3A	X	-1.67	3.8
74	MP3A	Z	-.964	3.8
75	MP3A	Mx	-.002	3.8
76	MP3A	X	-1.67	3.8
77	MP3A	Z	-.964	3.8
78	MP3A	Mx	-.002	3.8
79	MP3B	X	-2.173	3.8
80	MP3B	Z	-1.255	3.8
81	MP3B	Mx	.000435	3.8
82	MP3B	X	-2.173	3.8
83	MP3B	Z	-1.255	3.8
84	MP3B	Mx	.000435	3.8
85	MP3C	X	-1.784	3.8
86	MP3C	Z	-1.03	3.8
87	MP3C	Mx	.002	3.8
88	MP3C	X	-1.784	3.8
89	MP3C	Z	-1.03	3.8
90	MP3C	Mx	.002	3.8
91	A26	X	-3.05	1.75
92	A26	Z	-1.761	1.75
93	A26	Mx	0	1.75
94	A26	X	-3.05	1.75
95	A26	Z	-1.761	1.75
96	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-3.153	.88
2	MP2A	Z	-5.462	.88
3	MP2A	Mx	.006	.88
4	MP2A	X	-3.153	5.54
5	MP2A	Z	-5.462	5.54
6	MP2A	Mx	.006	5.54
7	MP2B	X	-3.433	.88
8	MP2B	Z	-5.945	.88
9	MP2B	Mx	-.001	.88
10	MP2B	X	-3.433	5.54
11	MP2B	Z	-5.945	5.54
12	MP2B	Mx	-.001	5.54
13	MP2C	X	-1.642	.88
14	MP2C	Z	-2.843	.88
15	MP2C	Mx	-.003	.88
16	MP2C	X	-1.642	5.54
17	MP2C	Z	-2.843	5.54
18	MP2C	Mx	-.003	5.54
19	MP2A	X	-3.153	.88
20	MP2A	Z	-5.462	.88
21	MP2A	Mx	-3.3e-5	.88
22	MP2A	X	-3.153	5.54
23	MP2A	Z	-5.462	5.54
24	MP2A	Mx	-3.3e-5	5.54
25	MP2B	X	-3.433	.88
26	MP2B	Z	-5.945	.88
27	MP2B	Mx	.006	.88
28	MP2B	X	-3.433	5.54
29	MP2B	Z	-5.945	5.54
30	MP2B	Mx	.006	5.54
31	MP2C	X	-1.642	.88
32	MP2C	Z	-2.843	.88
33	MP2C	Mx	-.004	.88
34	MP2C	X	-1.642	5.54
35	MP2C	Z	-2.843	5.54
36	MP2C	Mx	-.004	5.54
37	MP4A	X	-2.173	.75
38	MP4A	Z	-3.763	.75
39	MP4A	Mx	.002	.75
40	MP4A	X	-2.173	2.67
41	MP4A	Z	-3.763	2.67
42	MP4A	Mx	.002	2.67
43	MP4B	X	-2.383	.75
44	MP4B	Z	-4.127	.75
45	MP4B	Mx	.002	.75
46	MP4B	X	-2.383	2.67
47	MP4B	Z	-4.127	2.67
48	MP4B	Mx	.002	2.67
49	MP4C	X	-1.036	.75
50	MP4C	Z	-1.795	.75
51	MP4C	Mx	-.002	.75
52	MP4C	X	-1.036	2.67
53	MP4C	Z	-1.795	2.67
54	MP4C	Mx	-.002	2.67
55	MP1A	X	-.964	3.2
56	MP1A	Z	-1.669	3.2
57	MP1A	Mx	-.000964	3.2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1A	X	-0.964	3.2
59	MP1A	Z	-1.669	3.2
60	MP1A	Mx	-0.000964	3.2
61	MP1B	X	-1.01	3.2
62	MP1B	Z	-1.749	3.2
63	MP1B	Mx	-0.000691	3.2
64	MP1B	X	-1.01	3.2
65	MP1B	Z	-1.749	3.2
66	MP1B	Mx	-0.000691	3.2
67	MP1C	X	-0.715	3.2
68	MP1C	Z	-1.238	3.2
69	MP1C	Mx	.001	3.2
70	MP1C	X	-0.715	3.2
71	MP1C	Z	-1.238	3.2
72	MP1C	Mx	.001	3.2
73	MP3A	X	-1.166	3.8
74	MP3A	Z	-2.019	3.8
75	MP3A	Mx	-0.001	3.8
76	MP3A	X	-1.166	3.8
77	MP3A	Z	-2.019	3.8
78	MP3A	Mx	-0.001	3.8
79	MP3B	X	-1.22	3.8
80	MP3B	Z	-2.112	3.8
81	MP3B	Mx	-0.000834	3.8
82	MP3B	X	-1.22	3.8
83	MP3B	Z	-2.112	3.8
84	MP3B	Mx	-0.000834	3.8
85	MP3C	X	-0.876	3.8
86	MP3C	Z	-1.517	3.8
87	MP3C	Mx	.002	3.8
88	MP3C	X	-0.876	3.8
89	MP3C	Z	-1.517	3.8
90	MP3C	Mx	.002	3.8
91	A26	X	-2.019	1.75
92	A26	Z	-3.496	1.75
93	A26	Mx	0	1.75
94	A26	X	-2.019	1.75
95	A26	Z	-3.496	1.75
96	A26	Mx	0	1.75

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A21	Y	-500	%25

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A21	Y	-500	%74

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A21	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A21	Y	-250	%100



Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Y	-.82	.88
2	MP2A	My	-.00082	.88
3	MP2A	Mz	-.000479	.88
4	MP2A	Y	-.82	5.54
5	MP2A	My	-.00082	5.54
6	MP2A	Mz	-.000479	5.54
7	MP2B	Y	-.82	.88
8	MP2B	My	.000894	.88
9	MP2B	Mz	-.000321	.88
10	MP2B	Y	-.82	5.54
11	MP2B	My	.000894	5.54
12	MP2B	Mz	-.000321	5.54
13	MP2C	Y	-.82	.88
14	MP2C	My	-.000169	.88
15	MP2C	Mz	.000935	.88
16	MP2C	Y	-.82	5.54
17	MP2C	My	-.000169	5.54
18	MP2C	Mz	.000935	5.54
19	MP2A	Y	-.82	.88
20	MP2A	My	-.00082	.88
21	MP2A	Mz	.000479	.88
22	MP2A	Y	-.82	5.54
23	MP2A	My	-.00082	5.54
24	MP2A	Mz	.000479	5.54
25	MP2B	Y	-.82	.88
26	MP2B	My	.000161	.88
27	MP2B	Mz	-.000936	.88
28	MP2B	Y	-.82	5.54
29	MP2B	My	.000161	5.54
30	MP2B	Mz	-.000936	5.54
31	MP2C	Y	-.82	.88
32	MP2C	My	.00073	.88
33	MP2C	Mz	.000607	.88
34	MP2C	Y	-.82	5.54
35	MP2C	My	.00073	5.54
36	MP2C	Mz	.000607	5.54
37	MP4A	Y	-1.076	.75
38	MP4A	My	-.001	.75
39	MP4A	Mz	0	.75
40	MP4A	Y	-1.076	2.67
41	MP4A	My	-.001	2.67
42	MP4A	Mz	0	2.67
43	MP4B	Y	-1.076	.75
44	MP4B	My	.000691	.75
45	MP4B	Mz	-.000824	.75
46	MP4B	Y	-1.076	2.67
47	MP4B	My	.000691	2.67
48	MP4B	Mz	-.000824	2.67
49	MP4C	Y	-1.076	.75
50	MP4C	My	.000368	.75
51	MP4C	Mz	.001	.75
52	MP4C	Y	-1.076	2.67
53	MP4C	My	.000368	2.67
54	MP4C	Mz	.001	2.67
55	MP1A	Y	-1.402	3.2
56	MP1A	My	.001	3.2
57	MP1A	Mz	0	3.2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	Y	-1.402	3.2
59	MP1A	My	.001	3.2
60	MP1A	Mz	0	3.2
61	MP1B	Y	-1.402	3.2
62	MP1B	My	-.000901	3.2
63	MP1B	Mz	.001	3.2
64	MP1B	Y	-1.402	3.2
65	MP1B	My	-.000901	3.2
66	MP1B	Mz	.001	3.2
67	MP1C	Y	-1.402	3.2
68	MP1C	My	-.00048	3.2
69	MP1C	Mz	-.001	3.2
70	MP1C	Y	-1.402	3.2
71	MP1C	My	-.00048	3.2
72	MP1C	Mz	-.001	3.2
73	MP3A	Y	-1.485	3.8
74	MP3A	My	.001	3.8
75	MP3A	Mz	0	3.8
76	MP3A	Y	-1.485	3.8
77	MP3A	My	.001	3.8
78	MP3A	Mz	0	3.8
79	MP3B	Y	-1.485	3.8
80	MP3B	My	-.000955	3.8
81	MP3B	Mz	.001	3.8
82	MP3B	Y	-1.485	3.8
83	MP3B	My	-.000955	3.8
84	MP3B	Mz	.001	3.8
85	MP3C	Y	-1.485	3.8
86	MP3C	My	-.000508	3.8
87	MP3C	Mz	-.001	3.8
88	MP3C	Y	-1.485	3.8
89	MP3C	My	-.000508	3.8
90	MP3C	Mz	-.001	3.8
91	A26	Y	-.601	1.75
92	A26	My	0	1.75
93	A26	Mz	0	1.75
94	A26	Y	-.601	1.75
95	A26	My	0	1.75
96	A26	Mz	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Z	-2.051	.88
2	MP2A	Mx	.001	.88
3	MP2A	Z	-2.051	5.54
4	MP2A	Mx	.001	5.54
5	MP2B	Z	-2.051	.88
6	MP2B	Mx	.000802	.88
7	MP2B	Z	-2.051	5.54
8	MP2B	Mx	.000802	5.54
9	MP2C	Z	-2.051	.88
10	MP2C	Mx	-.002	.88
11	MP2C	Z	-2.051	5.54
12	MP2C	Mx	-.002	5.54
13	MP2A	Z	-2.051	.88
14	MP2A	Mx	-.001	.88



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Z	-2.051	5.54
16	MP2A	Mx	-0.001	5.54
17	MP2B	Z	-2.051	.88
18	MP2B	Mx	.002	.88
19	MP2B	Z	-2.051	5.54
20	MP2B	Mx	.002	5.54
21	MP2C	Z	-2.051	.88
22	MP2C	Mx	-0.002	.88
23	MP2C	Z	-2.051	5.54
24	MP2C	Mx	-0.002	5.54
25	MP4A	Z	-2.689	.75
26	MP4A	Mx	0	.75
27	MP4A	Z	-2.689	2.67
28	MP4A	Mx	0	2.67
29	MP4B	Z	-2.689	.75
30	MP4B	Mx	.002	.75
31	MP4B	Z	-2.689	2.67
32	MP4B	Mx	.002	2.67
33	MP4C	Z	-2.689	.75
34	MP4C	Mx	-0.003	.75
35	MP4C	Z	-2.689	2.67
36	MP4C	Mx	-0.003	2.67
37	MP1A	Z	-3.506	3.2
38	MP1A	Mx	0	3.2
39	MP1A	Z	-3.506	3.2
40	MP1A	Mx	0	3.2
41	MP1B	Z	-3.506	3.2
42	MP1B	Mx	-0.003	3.2
43	MP1B	Z	-3.506	3.2
44	MP1B	Mx	-0.003	3.2
45	MP1C	Z	-3.506	3.2
46	MP1C	Mx	.003	3.2
47	MP1C	Z	-3.506	3.2
48	MP1C	Mx	.003	3.2
49	MP3A	Z	-3.712	3.8
50	MP3A	Mx	0	3.8
51	MP3A	Z	-3.712	3.8
52	MP3A	Mx	0	3.8
53	MP3B	Z	-3.712	3.8
54	MP3B	Mx	-0.003	3.8
55	MP3B	Z	-3.712	3.8
56	MP3B	Mx	-0.003	3.8
57	MP3C	Z	-3.712	3.8
58	MP3C	Mx	.003	3.8
59	MP3C	Z	-3.712	3.8
60	MP3C	Mx	.003	3.8
61	A26	Z	-1.502	1.75
62	A26	Mx	0	1.75
63	A26	Z	-1.502	1.75
64	A26	Mx	0	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	2.051	.88
2	MP2A	Mx	-0.002	.88
3	MP2A	X	2.051	5.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP2A	Mx	-.002	5.54
5	MP2B	X	2.051	.88
6	MP2B	Mx	.002	.88
7	MP2B	X	2.051	5.54
8	MP2B	Mx	.002	5.54
9	MP2C	X	2.051	.88
10	MP2C	Mx	-.000423	.88
11	MP2C	X	2.051	5.54
12	MP2C	Mx	-.000423	5.54
13	MP2A	X	2.051	.88
14	MP2A	Mx	-.002	.88
15	MP2A	X	2.051	5.54
16	MP2A	Mx	-.002	5.54
17	MP2B	X	2.051	.88
18	MP2B	Mx	.000402	.88
19	MP2B	X	2.051	5.54
20	MP2B	Mx	.000402	5.54
21	MP2C	X	2.051	.88
22	MP2C	Mx	.002	.88
23	MP2C	X	2.051	5.54
24	MP2C	Mx	.002	5.54
25	MP4A	X	2.689	.75
26	MP4A	Mx	-.003	.75
27	MP4A	X	2.689	2.67
28	MP4A	Mx	-.003	2.67
29	MP4B	X	2.689	.75
30	MP4B	Mx	.002	.75
31	MP4B	X	2.689	2.67
32	MP4B	Mx	.002	2.67
33	MP4C	X	2.689	.75
34	MP4C	Mx	.00092	.75
35	MP4C	X	2.689	2.67
36	MP4C	Mx	.00092	2.67
37	MP1A	X	3.506	3.2
38	MP1A	Mx	.004	3.2
39	MP1A	X	3.506	3.2
40	MP1A	Mx	.004	3.2
41	MP1B	X	3.506	3.2
42	MP1B	Mx	-.002	3.2
43	MP1B	X	3.506	3.2
44	MP1B	Mx	-.002	3.2
45	MP1C	X	3.506	3.2
46	MP1C	Mx	-.001	3.2
47	MP1C	X	3.506	3.2
48	MP1C	Mx	-.001	3.2
49	MP3A	X	3.712	3.8
50	MP3A	Mx	.004	3.8
51	MP3A	X	3.712	3.8
52	MP3A	Mx	.004	3.8
53	MP3B	X	3.712	3.8
54	MP3B	Mx	-.002	3.8
55	MP3B	X	3.712	3.8
56	MP3B	Mx	-.002	3.8
57	MP3C	X	3.712	3.8
58	MP3C	Mx	-.001	3.8
59	MP3C	X	3.712	3.8
60	MP3C	Mx	-.001	3.8



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
61	A26	X	1.502	1.75
62	A26	Mx	0	1.75
63	A26	X	1.502	1.75
64	A26	Mx	0	1.75

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft.]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]
1	A1	Y	-11.3	-11.3	0	%100
2	A2	Y	-11.3	-11.3	0	%100
3	A3	Y	-11.3	-11.3	0	%100
4	A4	Y	-11.3	-11.3	0	%100
5	A5	Y	-9.704	-9.704	0	%100
6	A6	Y	-9.704	-9.704	0	%100
7	A7	Y	-9.704	-9.704	0	%100
8	A8	Y	-9.704	-9.704	0	%100
9	A9	Y	-9.704	-9.704	0	%100
10	A10	Y	-9.704	-9.704	0	%100
11	A11	Y	-9.704	-9.704	0	%100
12	A12	Y	-9.704	-9.704	0	%100
13	A13	Y	-9.704	-9.704	0	%100
14	A14	Y	-9.704	-9.704	0	%100
15	A15	Y	-9.704	-9.704	0	%100
16	A16	Y	-9.704	-9.704	0	%100
17	A17	Y	-7.829	-7.829	0	%100
18	A18	Y	-7.829	-7.829	0	%100
19	A19	Y	-7.829	-7.829	0	%100
20	A20	Y	-7.829	-7.829	0	%100
21	A21	Y	-9.918	-9.918	0	%100
22	A22	Y	-9.918	-9.918	0	%100
23	A23	Y	-8.846	-8.846	0	%100
24	A24	Y	-8.846	-8.846	0	%100
25	A25	Y	-8.846	-8.846	0	%100
26	A26	Y	-8.846	-8.846	0	%100
27	A27	Y	-11.3	-11.3	0	%100
28	A28	Y	-11.3	-11.3	0	%100
29	A29	Y	-8.846	-8.846	0	%100
30	A30	Y	-8.846	-8.846	0	%100
31	A31	Y	-11.3	-11.3	0	%100
32	A32	Y	-11.3	-11.3	0	%100
33	A33	Y	-7.829	-7.829	0	%100
34	A34	Y	-7.829	-7.829	0	%100
35	A35	Y	-7.829	-7.829	0	%100
36	A36	Y	-7.829	-7.829	0	%100
37	MP1A	Y	-8.846	-8.846	0	%100
38	MP2A	Y	-8.846	-8.846	0	%100
39	MP3A	Y	-8.846	-8.846	0	%100
40	MP4A	Y	-8.846	-8.846	0	%100
41	MP5A	Y	-8.846	-8.846	0	%100
42	B52	Y	-11.3	-11.3	0	%100
43	B53	Y	-11.3	-11.3	0	%100
44	B54	Y	-11.3	-11.3	0	%100
45	B55	Y	-11.3	-11.3	0	%100
46	B56	Y	-9.704	-9.704	0	%100
47	B57	Y	-9.704	-9.704	0	%100
48	B58	Y	-9.704	-9.704	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
49	B59	Y	-9.704	-9.704	0	%100
50	B60	Y	-9.704	-9.704	0	%100
51	B61	Y	-9.704	-9.704	0	%100
52	B62	Y	-9.704	-9.704	0	%100
53	B63	Y	-9.704	-9.704	0	%100
54	B64	Y	-9.704	-9.704	0	%100
55	B65	Y	-9.704	-9.704	0	%100
56	B66	Y	-9.704	-9.704	0	%100
57	B67	Y	-9.704	-9.704	0	%100
58	B68	Y	-7.829	-7.829	0	%100
59	B69	Y	-7.829	-7.829	0	%100
60	B70	Y	-7.829	-7.829	0	%100
61	B71	Y	-7.829	-7.829	0	%100
62	B72	Y	-9.918	-9.918	0	%100
63	B73	Y	-9.918	-9.918	0	%100
64	B74	Y	-8.846	-8.846	0	%100
65	B75	Y	-8.846	-8.846	0	%100
66	B76	Y	-8.846	-8.846	0	%100
67	B77	Y	-8.846	-8.846	0	%100
68	B78	Y	-11.3	-11.3	0	%100
69	B79	Y	-11.3	-11.3	0	%100
70	B80	Y	-8.846	-8.846	0	%100
71	B81	Y	-8.846	-8.846	0	%100
72	B82	Y	-11.3	-11.3	0	%100
73	B83	Y	-11.3	-11.3	0	%100
74	B84	Y	-7.829	-7.829	0	%100
75	B85	Y	-7.829	-7.829	0	%100
76	B86	Y	-7.829	-7.829	0	%100
77	B87	Y	-7.829	-7.829	0	%100
78	MP1B	Y	-8.846	-8.846	0	%100
79	MP2B	Y	-8.846	-8.846	0	%100
80	MP3B	Y	-8.846	-8.846	0	%100
81	MP4B	Y	-8.846	-8.846	0	%100
82	MP5B	Y	-8.846	-8.846	0	%100
83	C103	Y	-11.3	-11.3	0	%100
84	C104	Y	-11.3	-11.3	0	%100
85	C105	Y	-11.3	-11.3	0	%100
86	C106	Y	-11.3	-11.3	0	%100
87	C107	Y	-9.704	-9.704	0	%100
88	C108	Y	-9.704	-9.704	0	%100
89	C109	Y	-9.704	-9.704	0	%100
90	C110	Y	-9.704	-9.704	0	%100
91	C111	Y	-9.704	-9.704	0	%100
92	C112	Y	-9.704	-9.704	0	%100
93	C113	Y	-9.704	-9.704	0	%100
94	C114	Y	-9.704	-9.704	0	%100
95	C115	Y	-9.704	-9.704	0	%100
96	C116	Y	-9.704	-9.704	0	%100
97	C117	Y	-9.704	-9.704	0	%100
98	C118	Y	-9.704	-9.704	0	%100
99	C119	Y	-7.829	-7.829	0	%100
100	C120	Y	-7.829	-7.829	0	%100
101	C121	Y	-7.829	-7.829	0	%100
102	C122	Y	-7.829	-7.829	0	%100
103	C123	Y	-9.918	-9.918	0	%100
104	C124	Y	-9.918	-9.918	0	%100
105	C125	Y	-8.846	-8.846	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
106	C126	Y	-8.846	-8.846	0	%100
107	C127	Y	-8.846	-8.846	0	%100
108	C128	Y	-8.846	-8.846	0	%100
109	C129	Y	-11.3	-11.3	0	%100
110	C130	Y	-11.3	-11.3	0	%100
111	C131	Y	-8.846	-8.846	0	%100
112	C132	Y	-8.846	-8.846	0	%100
113	C133	Y	-11.3	-11.3	0	%100
114	C134	Y	-11.3	-11.3	0	%100
115	C135	Y	-7.829	-7.829	0	%100
116	C136	Y	-7.829	-7.829	0	%100
117	C137	Y	-7.829	-7.829	0	%100
118	C138	Y	-7.829	-7.829	0	%100
119	MP1C	Y	-8.846	-8.846	0	%100
120	MP2C	Y	-8.846	-8.846	0	%100
121	MP3C	Y	-8.846	-8.846	0	%100
122	MP4C	Y	-8.846	-8.846	0	%100
123	MP5C	Y	-8.846	-8.846	0	%100
124	M154	Y	-11.257	-11.257	0	%100
125	M155	Y	-11.257	-11.257	0	%100
126	M156	Y	-11.257	-11.257	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	0	0	0	%100
2	A1	Z	-811	-811	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-811	-811	0	%100
5	A3	X	0	0	0	%100
6	A3	Z	-811	-811	0	%100
7	A4	X	0	0	0	%100
8	A4	Z	-811	-811	0	%100
9	A5	X	0	0	0	%100
10	A5	Z	-6.941	-6.941	0	%100
11	A6	X	0	0	0	%100
12	A6	Z	-6.941	-6.941	0	%100
13	A7	X	0	0	0	%100
14	A7	Z	-6.941	-6.941	0	%100
15	A8	X	0	0	0	%100
16	A8	Z	-6.941	-6.941	0	%100
17	A9	X	0	0	0	%100
18	A9	Z	-6.941	-6.941	0	%100
19	A10	X	0	0	0	%100
20	A10	Z	-6.941	-6.941	0	%100
21	A11	X	0	0	0	%100
22	A11	Z	-6.941	-6.941	0	%100
23	A12	X	0	0	0	%100
24	A12	Z	-6.941	-6.941	0	%100
25	A13	X	0	0	0	%100
26	A13	Z	-6.941	-6.941	0	%100
27	A14	X	0	0	0	%100
28	A14	Z	-6.941	-6.941	0	%100
29	A15	X	0	0	0	%100
30	A15	Z	-6.941	-6.941	0	%100
31	A16	X	0	0	0	%100
32	A16	Z	-6.941	-6.941	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
33	A17	X	0	0	0	%100
34	A17	Z	-7.159	-7.159	0	%100
35	A18	X	0	0	0	%100
36	A18	Z	-7.159	-7.159	0	%100
37	A19	X	0	0	0	%100
38	A19	Z	-7.159	-7.159	0	%100
39	A20	X	0	0	0	%100
40	A20	Z	-7.159	-7.159	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	-12.439	-12.439	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	-12.439	-12.439	0	%100
45	A23	X	0	0	0	%100
46	A23	Z	-5.139	-5.139	0	%100
47	A24	X	0	0	0	%100
48	A24	Z	-5.139	-5.139	0	%100
49	A25	X	0	0	0	%100
50	A25	Z	-5.139	-5.139	0	%100
51	A26	X	0	0	0	%100
52	A26	Z	-5.139	-5.139	0	%100
53	A27	X	0	0	0	%100
54	A27	Z	-8.563	-8.563	0	%100
55	A28	X	0	0	0	%100
56	A28	Z	-8.563	-8.563	0	%100
57	A29	X	0	0	0	%100
58	A29	Z	-7.722	-7.722	0	%100
59	A30	X	0	0	0	%100
60	A30	Z	-7.722	-7.722	0	%100
61	A31	X	0	0	0	%100
62	A31	Z	-8.563	-8.563	0	%100
63	A32	X	0	0	0	%100
64	A32	Z	-8.563	-8.563	0	%100
65	A33	X	0	0	0	%100
66	A33	Z	-6.34	-6.34	0	%100
67	A34	X	0	0	0	%100
68	A34	Z	-6.34	-6.34	0	%100
69	A35	X	0	0	0	%100
70	A35	Z	-6.34	-6.34	0	%100
71	A36	X	0	0	0	%100
72	A36	Z	-6.34	-6.34	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	-10.276	-10.276	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-10.276	-10.276	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-10.276	-10.276	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-10.276	-10.276	0	%100
81	MP5A	X	0	0	0	%100
82	MP5A	Z	-10.276	-10.276	0	%100
83	B52	X	0	0	0	%100
84	B52	Z	-.012	-.012	0	%100
85	B53	X	0	0	0	%100
86	B53	Z	-1.61	-1.61	0	%100
87	B54	X	0	0	0	%100
88	B54	Z	-.012	-.012	0	%100
89	B55	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
90	B55	Z	-1.61	-1.61	0 %100
91	B56	X	0	0	0 %100
92	B56	Z	-11.823	-11.823	0 %100
93	B57	X	0	0	0 %100
94	B57	Z	-11.823	-11.823	0 %100
95	B58	X	0	0	0 %100
96	B58	Z	-11.823	-11.823	0 %100
97	B59	X	0	0	0 %100
98	B59	Z	-2.058	-2.058	0 %100
99	B60	X	0	0	0 %100
100	B60	Z	-2.058	-2.058	0 %100
101	B61	X	0	0	0 %100
102	B61	Z	-2.058	-2.058	0 %100
103	B62	X	0	0	0 %100
104	B62	Z	-11.823	-11.823	0 %100
105	B63	X	0	0	0 %100
106	B63	Z	-11.823	-11.823	0 %100
107	B64	X	0	0	0 %100
108	B64	Z	-11.823	-11.823	0 %100
109	B65	X	0	0	0 %100
110	B65	Z	-2.058	-2.058	0 %100
111	B66	X	0	0	0 %100
112	B66	Z	-2.058	-2.058	0 %100
113	B67	X	0	0	0 %100
114	B67	Z	-2.058	-2.058	0 %100
115	B68	X	0	0	0 %100
116	B68	Z	-7.159	-7.159	0 %100
117	B69	X	0	0	0 %100
118	B69	Z	-7.159	-7.159	0 %100
119	B70	X	0	0	0 %100
120	B70	Z	-7.159	-7.159	0 %100
121	B71	X	0	0	0 %100
122	B71	Z	-7.159	-7.159	0 %100
123	B72	X	0	0	0 %100
124	B72	Z	-5.139	-5.139	0 %100
125	B73	X	0	0	0 %100
126	B73	Z	-5.139	-5.139	0 %100
127	B74	X	0	0	0 %100
128	B74	Z	-10.197	-10.197	0 %100
129	B75	X	0	0	0 %100
130	B75	Z	-.078	-.078	0 %100
131	B76	X	0	0	0 %100
132	B76	Z	-10.197	-10.197	0 %100
133	B77	X	0	0	0 %100
134	B77	Z	-.078	-.078	0 %100
135	B78	X	0	0	0 %100
136	B78	Z	-2.083	-2.083	0 %100
137	B79	X	0	0	0 %100
138	B79	Z	-2.083	-2.083	0 %100
139	B80	X	0	0	0 %100
140	B80	Z	-7.722	-7.722	0 %100
141	B81	X	0	0	0 %100
142	B81	Z	-7.722	-7.722	0 %100
143	B82	X	0	0	0 %100
144	B82	Z	-15.043	-15.043	0 %100
145	B83	X	0	0	0 %100
146	B83	Z	-15.043	-15.043	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
147	B84	X	0	0	%100
148	B84	Z	-7.982	-7.982	%100
149	B85	X	0	0	%100
150	B85	Z	-7.982	-7.982	%100
151	B86	X	0	0	%100
152	B86	Z	-4.697	-4.697	%100
153	B87	X	0	0	%100
154	B87	Z	-4.697	-4.697	%100
155	MP1B	X	0	0	%100
156	MP1B	Z	-10.276	-10.276	%100
157	MP2B	X	0	0	%100
158	MP2B	Z	-10.276	-10.276	%100
159	MP3B	X	0	0	%100
160	MP3B	Z	-10.276	-10.276	%100
161	MP4B	X	0	0	%100
162	MP4B	Z	-10.276	-10.276	%100
163	MP5B	X	0	0	%100
164	MP5B	Z	-10.276	-10.276	%100
165	C103	X	0	0	%100
166	C103	Z	-1.333	-1.333	%100
167	C104	X	0	0	%100
168	C104	Z	-29	-29	%100
169	C105	X	0	0	%100
170	C105	Z	-1.333	-1.333	%100
171	C106	X	0	0	%100
172	C106	Z	-29	-29	%100
173	C107	X	0	0	%100
174	C107	Z	-3.754	-3.754	%100
175	C108	X	0	0	%100
176	C108	Z	-3.754	-3.754	%100
177	C109	X	0	0	%100
178	C109	Z	-3.754	-3.754	%100
179	C110	X	0	0	%100
180	C110	Z	-10.127	-10.127	%100
181	C111	X	0	0	%100
182	C111	Z	-10.127	-10.127	%100
183	C112	X	0	0	%100
184	C112	Z	-10.127	-10.127	%100
185	C113	X	0	0	%100
186	C113	Z	-3.754	-3.754	%100
187	C114	X	0	0	%100
188	C114	Z	-3.754	-3.754	%100
189	C115	X	0	0	%100
190	C115	Z	-3.754	-3.754	%100
191	C116	X	0	0	%100
192	C116	Z	-10.127	-10.127	%100
193	C117	X	0	0	%100
194	C117	Z	-10.127	-10.127	%100
195	C118	X	0	0	%100
196	C118	Z	-10.127	-10.127	%100
197	C119	X	0	0	%100
198	C119	Z	-7.159	-7.159	%100
199	C120	X	0	0	%100
200	C120	Z	-7.159	-7.159	%100
201	C121	X	0	0	%100
202	C121	Z	-7.159	-7.159	%100
203	C122	X	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
204	C122	Z	-7.159	-7.159	0	%100
205	C123	X	0	0	0	%100
206	C123	Z	-1.455	-1.455	0	%100
207	C124	X	0	0	0	%100
208	C124	Z	-1.455	-1.455	0	%100
209	C125	X	0	0	0	%100
210	C125	Z	-1.834	-1.834	0	%100
211	C126	X	0	0	0	%100
212	C126	Z	-8.439	-8.439	0	%100
213	C127	X	0	0	0	%100
214	C127	Z	-1.834	-1.834	0	%100
215	C128	X	0	0	0	%100
216	C128	Z	-8.439	-8.439	0	%100
217	C129	X	0	0	0	%100
218	C129	Z	-12.793	-12.793	0	%100
219	C130	X	0	0	0	%100
220	C130	Z	-12.793	-12.793	0	%100
221	C131	X	0	0	0	%100
222	C131	Z	-7.722	-7.722	0	%100
223	C132	X	0	0	0	%100
224	C132	Z	-7.722	-7.722	0	%100
225	C133	X	0	0	0	%100
226	C133	Z	-4.333	-4.333	0	%100
227	C134	X	0	0	0	%100
228	C134	Z	-4.333	-4.333	0	%100
229	C135	X	0	0	0	%100
230	C135	Z	-5.267	-5.267	0	%100
231	C136	X	0	0	0	%100
232	C136	Z	-5.267	-5.267	0	%100
233	C137	X	0	0	0	%100
234	C137	Z	-7.411	-7.411	0	%100
235	C138	X	0	0	0	%100
236	C138	Z	-7.411	-7.411	0	%100
237	MP1C	X	0	0	0	%100
238	MP1C	Z	-10.276	-10.276	0	%100
239	MP2C	X	0	0	0	%100
240	MP2C	Z	-10.276	-10.276	0	%100
241	MP3C	X	0	0	0	%100
242	MP3C	Z	-10.276	-10.276	0	%100
243	MP4C	X	0	0	0	%100
244	MP4C	Z	-10.276	-10.276	0	%100
245	MP5C	X	0	0	0	%100
246	MP5C	Z	-10.276	-10.276	0	%100
247	M154	X	0	0	0	%100
248	M154	Z	-14.393	-14.393	0	%100
249	M155	X	0	0	0	%100
250	M155	Z	-2.378	-2.378	0	%100
251	M156	X	0	0	0	%100
252	M156	Z	-11.427	-11.427	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.054	.054	0	%100
2	A1	Z	-.094	-.094	0	%100
3	A2	X	.757	.757	0	%100
4	A2	Z	-1.311	-1.311	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	A3	X	.054	.054	0 %100
6	A3	Z	-.094	-.094	0 %100
7	A4	X	.757	.757	0 %100
8	A4	Z	-1.311	-1.311	0 %100
9	A5	X	5.617	5.617	0 %100
10	A5	Z	-9.729	-9.729	0 %100
11	A6	X	5.617	5.617	0 %100
12	A6	Z	-9.729	-9.729	0 %100
13	A7	X	5.617	5.617	0 %100
14	A7	Z	-9.729	-9.729	0 %100
15	A8	X	1.324	1.324	0 %100
16	A8	Z	-2.293	-2.293	0 %100
17	A9	X	1.324	1.324	0 %100
18	A9	Z	-2.293	-2.293	0 %100
19	A10	X	1.324	1.324	0 %100
20	A10	Z	-2.293	-2.293	0 %100
21	A11	X	5.617	5.617	0 %100
22	A11	Z	-9.729	-9.729	0 %100
23	A12	X	5.617	5.617	0 %100
24	A12	Z	-9.729	-9.729	0 %100
25	A13	X	5.617	5.617	0 %100
26	A13	Z	-9.729	-9.729	0 %100
27	A14	X	1.324	1.324	0 %100
28	A14	Z	-2.293	-2.293	0 %100
29	A15	X	1.324	1.324	0 %100
30	A15	Z	-2.293	-2.293	0 %100
31	A16	X	1.324	1.324	0 %100
32	A16	Z	-2.293	-2.293	0 %100
33	A17	X	3.579	3.579	0 %100
34	A17	Z	-6.2	-6.2	0 %100
35	A18	X	3.579	3.579	0 %100
36	A18	Z	-6.2	-6.2	0 %100
37	A19	X	3.579	3.579	0 %100
38	A19	Z	-6.2	-6.2	0 %100
39	A20	X	3.579	3.579	0 %100
40	A20	Z	-6.2	-6.2	0 %100
41	A21	X	4.665	4.665	0 %100
42	A21	Z	-8.079	-8.079	0 %100
43	A22	X	4.665	4.665	0 %100
44	A22	Z	-8.079	-8.079	0 %100
45	A23	X	4.794	4.794	0 %100
46	A23	Z	-8.304	-8.304	0 %100
47	A24	X	.345	.345	0 %100
48	A24	Z	-.597	-.597	0 %100
49	A25	X	4.794	4.794	0 %100
50	A25	Z	-8.304	-8.304	0 %100
51	A26	X	.345	.345	0 %100
52	A26	Z	-.597	-.597	0 %100
53	A27	X	1.432	1.432	0 %100
54	A27	Z	-2.481	-2.481	0 %100
55	A28	X	1.432	1.432	0 %100
56	A28	Z	-2.481	-2.481	0 %100
57	A29	X	3.861	3.861	0 %100
58	A29	Z	-6.687	-6.687	0 %100
59	A30	X	3.861	3.861	0 %100
60	A30	Z	-6.687	-6.687	0 %100
61	A31	X	7.131	7.131	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
62	A31	Z	-12.351	-12.351	0 %100
63	A32	X	7.131	7.131	0 %100
64	A32	Z	-12.351	-12.351	0 %100
65	A33	X	3.892	3.892	0 %100
66	A33	Z	-6.741	-6.741	0 %100
67	A34	X	3.892	3.892	0 %100
68	A34	Z	-6.741	-6.741	0 %100
69	A35	X	2.448	2.448	0 %100
70	A35	Z	-4.24	-4.24	0 %100
71	A36	X	2.448	2.448	0 %100
72	A36	Z	-4.24	-4.24	0 %100
73	MP1A	X	5.138	5.138	0 %100
74	MP1A	Z	-8.899	-8.899	0 %100
75	MP2A	X	5.138	5.138	0 %100
76	MP2A	Z	-8.899	-8.899	0 %100
77	MP3A	X	5.138	5.138	0 %100
78	MP3A	Z	-8.899	-8.899	0 %100
79	MP4A	X	5.138	5.138	0 %100
80	MP4A	Z	-8.899	-8.899	0 %100
81	MP5A	X	5.138	5.138	0 %100
82	MP5A	Z	-8.899	-8.899	0 %100
83	B52	X	.267	.267	0 %100
84	B52	Z	-.462	-.462	0 %100
85	B53	X	.544	.544	0 %100
86	B53	Z	-.943	-.943	0 %100
87	B54	X	.267	.267	0 %100
88	B54	Z	-.462	-.462	0 %100
89	B55	X	.544	.544	0 %100
90	B55	Z	-.943	-.943	0 %100
91	B56	X	4.318	4.318	0 %100
92	B56	Z	-7.479	-7.479	0 %100
93	B57	X	4.318	4.318	0 %100
94	B57	Z	-7.479	-7.479	0 %100
95	B58	X	4.318	4.318	0 %100
96	B58	Z	-7.479	-7.479	0 %100
97	B59	X	2.623	2.623	0 %100
98	B59	Z	-4.542	-4.542	0 %100
99	B60	X	2.623	2.623	0 %100
100	B60	Z	-4.542	-4.542	0 %100
101	B61	X	2.623	2.623	0 %100
102	B61	Z	-4.542	-4.542	0 %100
103	B62	X	4.318	4.318	0 %100
104	B62	Z	-7.479	-7.479	0 %100
105	B63	X	4.318	4.318	0 %100
106	B63	Z	-7.479	-7.479	0 %100
107	B64	X	4.318	4.318	0 %100
108	B64	Z	-7.479	-7.479	0 %100
109	B65	X	2.623	2.623	0 %100
110	B65	Z	-4.542	-4.542	0 %100
111	B66	X	2.623	2.623	0 %100
112	B66	Z	-4.542	-4.542	0 %100
113	B67	X	2.623	2.623	0 %100
114	B67	Z	-4.542	-4.542	0 %100
115	B68	X	3.579	3.579	0 %100
116	B68	Z	-6.2	-6.2	0 %100
117	B69	X	3.579	3.579	0 %100
118	B69	Z	-6.2	-6.2	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
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Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
119	B70	X	3.579	3.579	0 %100
120	B70	Z	-6.2	-6.2	0 %100
121	B71	X	3.579	3.579	0 %100
122	B71	Z	-6.2	-6.2	0 %100
123	B72	X	.188	.188	0 %100
124	B72	Z	-.325	-.325	0 %100
125	B73	X	.188	.188	0 %100
126	B73	Z	-.325	-.325	0 %100
127	B74	X	3.447	3.447	0 %100
128	B74	Z	-5.97	-5.97	0 %100
129	B75	X	1.69	1.69	0 %100
130	B75	Z	-2.926	-2.926	0 %100
131	B76	X	3.447	3.447	0 %100
132	B76	Z	-5.97	-5.97	0 %100
133	B77	X	1.69	1.69	0 %100
134	B77	Z	-2.926	-2.926	0 %100
135	B78	X	3.156	3.156	0 %100
136	B78	Z	-5.467	-5.467	0 %100
137	B79	X	3.156	3.156	0 %100
138	B79	Z	-5.467	-5.467	0 %100
139	B80	X	3.861	3.861	0 %100
140	B80	Z	-6.687	-6.687	0 %100
141	B81	X	3.861	3.861	0 %100
142	B81	Z	-6.687	-6.687	0 %100
143	B82	X	5.407	5.407	0 %100
144	B82	Z	-9.365	-9.365	0 %100
145	B83	X	5.407	5.407	0 %100
146	B83	Z	-9.365	-9.365	0 %100
147	B84	X	3.455	3.455	0 %100
148	B84	Z	-5.984	-5.984	0 %100
149	B85	X	3.455	3.455	0 %100
150	B85	Z	-5.984	-5.984	0 %100
151	B86	X	2.884	2.884	0 %100
152	B86	Z	-4.996	-4.996	0 %100
153	B87	X	2.884	2.884	0 %100
154	B87	Z	-4.996	-4.996	0 %100
155	MP1B	X	5.138	5.138	0 %100
156	MP1B	Z	-8.899	-8.899	0 %100
157	MP2B	X	5.138	5.138	0 %100
158	MP2B	Z	-8.899	-8.899	0 %100
159	MP3B	X	5.138	5.138	0 %100
160	MP3B	Z	-8.899	-8.899	0 %100
161	MP4B	X	5.138	5.138	0 %100
162	MP4B	Z	-8.899	-8.899	0 %100
163	MP5B	X	5.138	5.138	0 %100
164	MP5B	Z	-8.899	-8.899	0 %100
165	C103	X	.805	.805	0 %100
166	C103	Z	-1.394	-1.394	0 %100
167	C104	X	.006	.006	0 %100
168	C104	Z	-.011	-.011	0 %100
169	C105	X	.805	.805	0 %100
170	C105	Z	-1.394	-1.394	0 %100
171	C106	X	.006	.006	0 %100
172	C106	Z	-.011	-.011	0 %100
173	C107	X	1.029	1.029	0 %100
174	C107	Z	-1.783	-1.783	0 %100
175	C108	X	1.029	1.029	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
176	C108	Z	-1.783	-1.783	0 %100
177	C109	X	1.029	1.029	0 %100
178	C109	Z	-1.783	-1.783	0 %100
179	C110	X	5.911	5.911	0 %100
180	C110	Z	-10.239	-10.239	0 %100
181	C111	X	5.911	5.911	0 %100
182	C111	Z	-10.239	-10.239	0 %100
183	C112	X	5.911	5.911	0 %100
184	C112	Z	-10.239	-10.239	0 %100
185	C113	X	1.029	1.029	0 %100
186	C113	Z	-1.783	-1.783	0 %100
187	C114	X	1.029	1.029	0 %100
188	C114	Z	-1.783	-1.783	0 %100
189	C115	X	1.029	1.029	0 %100
190	C115	Z	-1.783	-1.783	0 %100
191	C116	X	5.911	5.911	0 %100
192	C116	Z	-10.239	-10.239	0 %100
193	C117	X	5.911	5.911	0 %100
194	C117	Z	-10.239	-10.239	0 %100
195	C118	X	5.911	5.911	0 %100
196	C118	Z	-10.239	-10.239	0 %100
197	C119	X	3.579	3.579	0 %100
198	C119	Z	-6.2	-6.2	0 %100
199	C120	X	3.579	3.579	0 %100
200	C120	Z	-6.2	-6.2	0 %100
201	C121	X	3.579	3.579	0 %100
202	C121	Z	-6.2	-6.2	0 %100
203	C122	X	3.579	3.579	0 %100
204	C122	Z	-6.2	-6.2	0 %100
205	C123	X	3.65	3.65	0 %100
206	C123	Z	-6.322	-6.322	0 %100
207	C124	X	3.65	3.65	0 %100
208	C124	Z	-6.322	-6.322	0 %100
209	C125	X	.039	.039	0 %100
210	C125	Z	-.068	-.068	0 %100
211	C126	X	5.099	5.099	0 %100
212	C126	Z	-8.832	-8.832	0 %100
213	C127	X	.039	.039	0 %100
214	C127	Z	-.068	-.068	0 %100
215	C128	X	5.099	5.099	0 %100
216	C128	Z	-8.832	-8.832	0 %100
217	C129	X	7.522	7.522	0 %100
218	C129	Z	-13.028	-13.028	0 %100
219	C130	X	7.522	7.522	0 %100
220	C130	Z	-13.028	-13.028	0 %100
221	C131	X	3.861	3.861	0 %100
222	C131	Z	-6.687	-6.687	0 %100
223	C132	X	3.861	3.861	0 %100
224	C132	Z	-6.687	-6.687	0 %100
225	C133	X	1.041	1.041	0 %100
226	C133	Z	-1.804	-1.804	0 %100
227	C134	X	1.041	1.041	0 %100
228	C134	Z	-1.804	-1.804	0 %100
229	C135	X	2.349	2.349	0 %100
230	C135	Z	-4.068	-4.068	0 %100
231	C136	X	2.349	2.349	0 %100
232	C136	Z	-4.068	-4.068	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
233	C137	X	3.991	3.991	0 %100
234	C137	Z	-6.913	-6.913	0 %100
235	C138	X	3.991	3.991	0 %100
236	C138	Z	-6.913	-6.913	0 %100
237	MP1C	X	5.138	5.138	0 %100
238	MP1C	Z	-8.899	-8.899	0 %100
239	MP2C	X	5.138	5.138	0 %100
240	MP2C	Z	-8.899	-8.899	0 %100
241	MP3C	X	5.138	5.138	0 %100
242	MP3C	Z	-8.899	-8.899	0 %100
243	MP4C	X	5.138	5.138	0 %100
244	MP4C	Z	-8.899	-8.899	0 %100
245	MP5C	X	5.138	5.138	0 %100
246	MP5C	Z	-8.899	-8.899	0 %100
247	M154	X	5.247	5.247	0 %100
248	M154	Z	-9.087	-9.087	0 %100
249	M155	X	.079	.079	0 %100
250	M155	Z	-.137	-.137	0 %100
251	M156	X	7.182	7.182	0 %100
252	M156	Z	-12.439	-12.439	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.094	.094	0 %100
2	A1	Z	-.054	-.054	0 %100
3	A2	X	1.311	1.311	0 %100
4	A2	Z	-.757	-.757	0 %100
5	A3	X	.094	.094	0 %100
6	A3	Z	-.054	-.054	0 %100
7	A4	X	1.311	1.311	0 %100
8	A4	Z	-.757	-.757	0 %100
9	A5	X	9.729	9.729	0 %100
10	A5	Z	-5.617	-5.617	0 %100
11	A6	X	9.729	9.729	0 %100
12	A6	Z	-5.617	-5.617	0 %100
13	A7	X	9.729	9.729	0 %100
14	A7	Z	-5.617	-5.617	0 %100
15	A8	X	2.293	2.293	0 %100
16	A8	Z	-1.324	-1.324	0 %100
17	A9	X	2.293	2.293	0 %100
18	A9	Z	-1.324	-1.324	0 %100
19	A10	X	2.293	2.293	0 %100
20	A10	Z	-1.324	-1.324	0 %100
21	A11	X	9.729	9.729	0 %100
22	A11	Z	-5.617	-5.617	0 %100
23	A12	X	9.729	9.729	0 %100
24	A12	Z	-5.617	-5.617	0 %100
25	A13	X	9.729	9.729	0 %100
26	A13	Z	-5.617	-5.617	0 %100
27	A14	X	2.293	2.293	0 %100
28	A14	Z	-1.324	-1.324	0 %100
29	A15	X	2.293	2.293	0 %100
30	A15	Z	-1.324	-1.324	0 %100
31	A16	X	2.293	2.293	0 %100
32	A16	Z	-1.324	-1.324	0 %100
33	A17	X	6.2	6.2	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	A17	Z	-3.579	-3.579	0	%100
35	A18	X	6.2	6.2	0	%100
36	A18	Z	-3.579	-3.579	0	%100
37	A19	X	6.2	6.2	0	%100
38	A19	Z	-3.579	-3.579	0	%100
39	A20	X	6.2	6.2	0	%100
40	A20	Z	-3.579	-3.579	0	%100
41	A21	X	2.693	2.693	0	%100
42	A21	Z	-1.555	-1.555	0	%100
43	A22	X	2.693	2.693	0	%100
44	A22	Z	-1.555	-1.555	0	%100
45	A23	X	8.302	8.302	0	%100
46	A23	Z	-4.793	-4.793	0	%100
47	A24	X	.595	.595	0	%100
48	A24	Z	-.344	-.344	0	%100
49	A25	X	8.302	8.302	0	%100
50	A25	Z	-4.793	-4.793	0	%100
51	A26	X	.595	.595	0	%100
52	A26	Z	-.344	-.344	0	%100
53	A27	X	2.481	2.481	0	%100
54	A27	Z	-1.432	-1.432	0	%100
55	A28	X	2.481	2.481	0	%100
56	A28	Z	-1.432	-1.432	0	%100
57	A29	X	6.687	6.687	0	%100
58	A29	Z	-3.861	-3.861	0	%100
59	A30	X	6.687	6.687	0	%100
60	A30	Z	-3.861	-3.861	0	%100
61	A31	X	12.351	12.351	0	%100
62	A31	Z	-7.131	-7.131	0	%100
63	A32	X	12.351	12.351	0	%100
64	A32	Z	-7.131	-7.131	0	%100
65	A33	X	6.741	6.741	0	%100
66	A33	Z	-3.892	-3.892	0	%100
67	A34	X	6.741	6.741	0	%100
68	A34	Z	-3.892	-3.892	0	%100
69	A35	X	4.239	4.239	0	%100
70	A35	Z	-2.448	-2.448	0	%100
71	A36	X	4.239	4.239	0	%100
72	A36	Z	-2.448	-2.448	0	%100
73	MP1A	X	8.899	8.899	0	%100
74	MP1A	Z	-5.138	-5.138	0	%100
75	MP2A	X	8.899	8.899	0	%100
76	MP2A	Z	-5.138	-5.138	0	%100
77	MP3A	X	8.899	8.899	0	%100
78	MP3A	Z	-5.138	-5.138	0	%100
79	MP4A	X	8.899	8.899	0	%100
80	MP4A	Z	-5.138	-5.138	0	%100
81	MP5A	X	8.899	8.899	0	%100
82	MP5A	Z	-5.138	-5.138	0	%100
83	B52	X	1.154	1.154	0	%100
84	B52	Z	-.666	-.666	0	%100
85	B53	X	.251	.251	0	%100
86	B53	Z	-.145	-.145	0	%100
87	B54	X	1.154	1.154	0	%100
88	B54	Z	-.666	-.666	0	%100
89	B55	X	.251	.251	0	%100
90	B55	Z	-.145	-.145	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	B56	X	3.251	3.251	0	%100
92	B56	Z	-1.877	-1.877	0	%100
93	B57	X	3.251	3.251	0	%100
94	B57	Z	-1.877	-1.877	0	%100
95	B58	X	3.251	3.251	0	%100
96	B58	Z	-1.877	-1.877	0	%100
97	B59	X	8.77	8.77	0	%100
98	B59	Z	-5.064	-5.064	0	%100
99	B60	X	8.77	8.77	0	%100
100	B60	Z	-5.064	-5.064	0	%100
101	B61	X	8.77	8.77	0	%100
102	B61	Z	-5.064	-5.064	0	%100
103	B62	X	3.251	3.251	0	%100
104	B62	Z	-1.877	-1.877	0	%100
105	B63	X	3.251	3.251	0	%100
106	B63	Z	-1.877	-1.877	0	%100
107	B64	X	3.251	3.251	0	%100
108	B64	Z	-1.877	-1.877	0	%100
109	B65	X	8.77	8.77	0	%100
110	B65	Z	-5.064	-5.064	0	%100
111	B66	X	8.77	8.77	0	%100
112	B66	Z	-5.064	-5.064	0	%100
113	B67	X	8.77	8.77	0	%100
114	B67	Z	-5.064	-5.064	0	%100
115	B68	X	6.2	6.2	0	%100
116	B68	Z	-3.579	-3.579	0	%100
117	B69	X	6.2	6.2	0	%100
118	B69	Z	-3.579	-3.579	0	%100
119	B70	X	6.2	6.2	0	%100
120	B70	Z	-3.579	-3.579	0	%100
121	B71	X	6.2	6.2	0	%100
122	B71	Z	-3.579	-3.579	0	%100
123	B72	X	1.26	1.26	0	%100
124	B72	Z	-.728	-.728	0	%100
125	B73	X	1.26	1.26	0	%100
126	B73	Z	-.728	-.728	0	%100
127	B74	X	1.588	1.588	0	%100
128	B74	Z	-.917	-.917	0	%100
129	B75	X	7.309	7.309	0	%100
130	B75	Z	-4.22	-4.22	0	%100
131	B76	X	1.588	1.588	0	%100
132	B76	Z	-.917	-.917	0	%100
133	B77	X	7.309	7.309	0	%100
134	B77	Z	-4.22	-4.22	0	%100
135	B78	X	11.079	11.079	0	%100
136	B78	Z	-6.396	-6.396	0	%100
137	B79	X	11.079	11.079	0	%100
138	B79	Z	-6.396	-6.396	0	%100
139	B80	X	6.687	6.687	0	%100
140	B80	Z	-3.861	-3.861	0	%100
141	B81	X	6.687	6.687	0	%100
142	B81	Z	-3.861	-3.861	0	%100
143	B82	X	3.753	3.753	0	%100
144	B82	Z	-2.167	-2.167	0	%100
145	B83	X	3.753	3.753	0	%100
146	B83	Z	-2.167	-2.167	0	%100
147	B84	X	4.562	4.562	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
148	B84	Z	-2.634	-2.634	0 %100
149	B85	X	4.562	4.562	0 %100
150	B85	Z	-2.634	-2.634	0 %100
151	B86	X	6.418	6.418	0 %100
152	B86	Z	-3.706	-3.706	0 %100
153	B87	X	6.418	6.418	0 %100
154	B87	Z	-3.706	-3.706	0 %100
155	MP1B	X	8.899	8.899	0 %100
156	MP1B	Z	-5.138	-5.138	0 %100
157	MP2B	X	8.899	8.899	0 %100
158	MP2B	Z	-5.138	-5.138	0 %100
159	MP3B	X	8.899	8.899	0 %100
160	MP3B	Z	-5.138	-5.138	0 %100
161	MP4B	X	8.899	8.899	0 %100
162	MP4B	Z	-5.138	-5.138	0 %100
163	MP5B	X	8.899	8.899	0 %100
164	MP5B	Z	-5.138	-5.138	0 %100
165	C103	X	.943	.943	0 %100
166	C103	Z	-.544	-.544	0 %100
167	C104	X	.462	.462	0 %100
168	C104	Z	-.267	-.267	0 %100
169	C105	X	.943	.943	0 %100
170	C105	Z	-.544	-.544	0 %100
171	C106	X	.462	.462	0 %100
172	C106	Z	-.267	-.267	0 %100
173	C107	X	4.542	4.542	0 %100
174	C107	Z	-2.623	-2.623	0 %100
175	C108	X	4.542	4.542	0 %100
176	C108	Z	-2.623	-2.623	0 %100
177	C109	X	4.542	4.542	0 %100
178	C109	Z	-2.623	-2.623	0 %100
179	C110	X	7.479	7.479	0 %100
180	C110	Z	-4.318	-4.318	0 %100
181	C111	X	7.479	7.479	0 %100
182	C111	Z	-4.318	-4.318	0 %100
183	C112	X	7.479	7.479	0 %100
184	C112	Z	-4.318	-4.318	0 %100
185	C113	X	4.542	4.542	0 %100
186	C113	Z	-2.623	-2.623	0 %100
187	C114	X	4.542	4.542	0 %100
188	C114	Z	-2.623	-2.623	0 %100
189	C115	X	4.542	4.542	0 %100
190	C115	Z	-2.623	-2.623	0 %100
191	C116	X	7.479	7.479	0 %100
192	C116	Z	-4.318	-4.318	0 %100
193	C117	X	7.479	7.479	0 %100
194	C117	Z	-4.318	-4.318	0 %100
195	C118	X	7.479	7.479	0 %100
196	C118	Z	-4.318	-4.318	0 %100
197	C119	X	6.2	6.2	0 %100
198	C119	Z	-3.579	-3.579	0 %100
199	C120	X	6.2	6.2	0 %100
200	C120	Z	-3.579	-3.579	0 %100
201	C121	X	6.2	6.2	0 %100
202	C121	Z	-3.579	-3.579	0 %100
203	C122	X	6.2	6.2	0 %100
204	C122	Z	-3.579	-3.579	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
205	C123	X	10.448	10.448	0 %100
206	C123	Z	-6.032	-6.032	0 %100
207	C124	X	10.448	10.448	0 %100
208	C124	Z	-6.032	-6.032	0 %100
209	C125	X	2.929	2.929	0 %100
210	C125	Z	-1.691	-1.691	0 %100
211	C126	X	5.973	5.973	0 %100
212	C126	Z	-3.448	-3.448	0 %100
213	C127	X	2.929	2.929	0 %100
214	C127	Z	-1.691	-1.691	0 %100
215	C128	X	5.973	5.973	0 %100
216	C128	Z	-3.448	-3.448	0 %100
217	C129	X	9.365	9.365	0 %100
218	C129	Z	-5.407	-5.407	0 %100
219	C130	X	9.365	9.365	0 %100
220	C130	Z	-5.407	-5.407	0 %100
221	C131	X	6.687	6.687	0 %100
222	C131	Z	-3.861	-3.861	0 %100
223	C132	X	6.687	6.687	0 %100
224	C132	Z	-3.861	-3.861	0 %100
225	C133	X	5.467	5.467	0 %100
226	C133	Z	-3.156	-3.156	0 %100
227	C134	X	5.467	5.467	0 %100
228	C134	Z	-3.156	-3.156	0 %100
229	C135	X	4.997	4.997	0 %100
230	C135	Z	-2.885	-2.885	0 %100
231	C136	X	4.997	4.997	0 %100
232	C136	Z	-2.885	-2.885	0 %100
233	C137	X	5.985	5.985	0 %100
234	C137	Z	-3.455	-3.455	0 %100
235	C138	X	5.985	5.985	0 %100
236	C138	Z	-3.455	-3.455	0 %100
237	MP1C	X	8.899	8.899	0 %100
238	MP1C	Z	-5.138	-5.138	0 %100
239	MP2C	X	8.899	8.899	0 %100
240	MP2C	Z	-5.138	-5.138	0 %100
241	MP3C	X	8.899	8.899	0 %100
242	MP3C	Z	-5.138	-5.138	0 %100
243	MP4C	X	8.899	8.899	0 %100
244	MP4C	Z	-5.138	-5.138	0 %100
245	MP5C	X	8.899	8.899	0 %100
246	MP5C	Z	-5.138	-5.138	0 %100
247	M154	X	2.859	2.859	0 %100
248	M154	Z	-1.65	-1.65	0 %100
249	M155	X	4.314	4.314	0 %100
250	M155	Z	-2.491	-2.491	0 %100
251	M156	X	8.779	8.779	0 %100
252	M156	Z	-5.068	-5.068	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.811	.811	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	.811	.811	0 %100
4	A2	Z	0	0	0 %100
5	A3	X	.811	.811	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
6	A3	Z	0	0	0	%100
7	A4	X	.811	.811	0	%100
8	A4	Z	0	0	0	%100
9	A5	X	6.941	6.941	0	%100
10	A5	Z	0	0	0	%100
11	A6	X	6.941	6.941	0	%100
12	A6	Z	0	0	0	%100
13	A7	X	6.941	6.941	0	%100
14	A7	Z	0	0	0	%100
15	A8	X	6.941	6.941	0	%100
16	A8	Z	0	0	0	%100
17	A9	X	6.941	6.941	0	%100
18	A9	Z	0	0	0	%100
19	A10	X	6.941	6.941	0	%100
20	A10	Z	0	0	0	%100
21	A11	X	6.941	6.941	0	%100
22	A11	Z	0	0	0	%100
23	A12	X	6.941	6.941	0	%100
24	A12	Z	0	0	0	%100
25	A13	X	6.941	6.941	0	%100
26	A13	Z	0	0	0	%100
27	A14	X	6.941	6.941	0	%100
28	A14	Z	0	0	0	%100
29	A15	X	6.941	6.941	0	%100
30	A15	Z	0	0	0	%100
31	A16	X	6.941	6.941	0	%100
32	A16	Z	0	0	0	%100
33	A17	X	7.159	7.159	0	%100
34	A17	Z	0	0	0	%100
35	A18	X	7.159	7.159	0	%100
36	A18	Z	0	0	0	%100
37	A19	X	7.159	7.159	0	%100
38	A19	Z	0	0	0	%100
39	A20	X	7.159	7.159	0	%100
40	A20	Z	0	0	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	0	0	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	0	0	0	%100
45	A23	X	5.136	5.136	0	%100
46	A23	Z	0	0	0	%100
47	A24	X	5.136	5.136	0	%100
48	A24	Z	0	0	0	%100
49	A25	X	5.136	5.136	0	%100
50	A25	Z	0	0	0	%100
51	A26	X	5.136	5.136	0	%100
52	A26	Z	0	0	0	%100
53	A27	X	8.563	8.563	0	%100
54	A27	Z	0	0	0	%100
55	A28	X	8.563	8.563	0	%100
56	A28	Z	0	0	0	%100
57	A29	X	7.722	7.722	0	%100
58	A29	Z	0	0	0	%100
59	A30	X	7.722	7.722	0	%100
60	A30	Z	0	0	0	%100
61	A31	X	8.563	8.563	0	%100
62	A31	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
63	A32	X	8.563	8.563	0 %100
64	A32	Z	0	0	0 %100
65	A33	X	6.339	6.339	0 %100
66	A33	Z	0	0	0 %100
67	A34	X	6.339	6.339	0 %100
68	A34	Z	0	0	0 %100
69	A35	X	6.339	6.339	0 %100
70	A35	Z	0	0	0 %100
71	A36	X	6.339	6.339	0 %100
72	A36	Z	0	0	0 %100
73	MP1A	X	10.276	10.276	0 %100
74	MP1A	Z	0	0	0 %100
75	MP2A	X	10.276	10.276	0 %100
76	MP2A	Z	0	0	0 %100
77	MP3A	X	10.276	10.276	0 %100
78	MP3A	Z	0	0	0 %100
79	MP4A	X	10.276	10.276	0 %100
80	MP4A	Z	0	0	0 %100
81	MP5A	X	10.276	10.276	0 %100
82	MP5A	Z	0	0	0 %100
83	B52	X	1.61	1.61	0 %100
84	B52	Z	0	0	0 %100
85	B53	X	.012	.012	0 %100
86	B53	Z	0	0	0 %100
87	B54	X	1.61	1.61	0 %100
88	B54	Z	0	0	0 %100
89	B55	X	.012	.012	0 %100
90	B55	Z	0	0	0 %100
91	B56	X	2.058	2.058	0 %100
92	B56	Z	0	0	0 %100
93	B57	X	2.058	2.058	0 %100
94	B57	Z	0	0	0 %100
95	B58	X	2.058	2.058	0 %100
96	B58	Z	0	0	0 %100
97	B59	X	11.823	11.823	0 %100
98	B59	Z	0	0	0 %100
99	B60	X	11.823	11.823	0 %100
100	B60	Z	0	0	0 %100
101	B61	X	11.823	11.823	0 %100
102	B61	Z	0	0	0 %100
103	B62	X	2.058	2.058	0 %100
104	B62	Z	0	0	0 %100
105	B63	X	2.058	2.058	0 %100
106	B63	Z	0	0	0 %100
107	B64	X	2.058	2.058	0 %100
108	B64	Z	0	0	0 %100
109	B65	X	11.823	11.823	0 %100
110	B65	Z	0	0	0 %100
111	B66	X	11.823	11.823	0 %100
112	B66	Z	0	0	0 %100
113	B67	X	11.823	11.823	0 %100
114	B67	Z	0	0	0 %100
115	B68	X	7.159	7.159	0 %100
116	B68	Z	0	0	0 %100
117	B69	X	7.159	7.159	0 %100
118	B69	Z	0	0	0 %100
119	B70	X	7.159	7.159	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
120	B70	Z	0	0	0	%100
121	B71	X	7.159	7.159	0	%100
122	B71	Z	0	0	0	%100
123	B72	X	7.299	7.299	0	%100
124	B72	Z	0	0	0	%100
125	B73	X	7.299	7.299	0	%100
126	B73	Z	0	0	0	%100
127	B74	X	.078	.078	0	%100
128	B74	Z	0	0	0	%100
129	B75	X	10.198	10.198	0	%100
130	B75	Z	0	0	0	%100
131	B76	X	.078	.078	0	%100
132	B76	Z	0	0	0	%100
133	B77	X	10.198	10.198	0	%100
134	B77	Z	0	0	0	%100
135	B78	X	15.043	15.043	0	%100
136	B78	Z	0	0	0	%100
137	B79	X	15.043	15.043	0	%100
138	B79	Z	0	0	0	%100
139	B80	X	7.722	7.722	0	%100
140	B80	Z	0	0	0	%100
141	B81	X	7.722	7.722	0	%100
142	B81	Z	0	0	0	%100
143	B82	X	2.083	2.083	0	%100
144	B82	Z	0	0	0	%100
145	B83	X	2.083	2.083	0	%100
146	B83	Z	0	0	0	%100
147	B84	X	4.698	4.698	0	%100
148	B84	Z	0	0	0	%100
149	B85	X	4.698	4.698	0	%100
150	B85	Z	0	0	0	%100
151	B86	X	7.982	7.982	0	%100
152	B86	Z	0	0	0	%100
153	B87	X	7.982	7.982	0	%100
154	B87	Z	0	0	0	%100
155	MP1B	X	10.276	10.276	0	%100
156	MP1B	Z	0	0	0	%100
157	MP2B	X	10.276	10.276	0	%100
158	MP2B	Z	0	0	0	%100
159	MP3B	X	10.276	10.276	0	%100
160	MP3B	Z	0	0	0	%100
161	MP4B	X	10.276	10.276	0	%100
162	MP4B	Z	0	0	0	%100
163	MP5B	X	10.276	10.276	0	%100
164	MP5B	Z	0	0	0	%100
165	C103	X	.29	.29	0	%100
166	C103	Z	0	0	0	%100
167	C104	X	1.333	1.333	0	%100
168	C104	Z	0	0	0	%100
169	C105	X	.29	.29	0	%100
170	C105	Z	0	0	0	%100
171	C106	X	1.333	1.333	0	%100
172	C106	Z	0	0	0	%100
173	C107	X	10.127	10.127	0	%100
174	C107	Z	0	0	0	%100
175	C108	X	10.127	10.127	0	%100
176	C108	Z	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
 3:46 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
177	C109	X	10.127	10.127	0 %100
178	C109	Z	0	0	0 %100
179	C110	X	3.754	3.754	0 %100
180	C110	Z	0	0	0 %100
181	C111	X	3.754	3.754	0 %100
182	C111	Z	0	0	0 %100
183	C112	X	3.754	3.754	0 %100
184	C112	Z	0	0	0 %100
185	C113	X	10.127	10.127	0 %100
186	C113	Z	0	0	0 %100
187	C114	X	10.127	10.127	0 %100
188	C114	Z	0	0	0 %100
189	C115	X	10.127	10.127	0 %100
190	C115	Z	0	0	0 %100
191	C116	X	3.754	3.754	0 %100
192	C116	Z	0	0	0 %100
193	C117	X	3.754	3.754	0 %100
194	C117	Z	0	0	0 %100
195	C118	X	3.754	3.754	0 %100
196	C118	Z	0	0	0 %100
197	C119	X	7.159	7.159	0 %100
198	C119	Z	0	0	0 %100
199	C120	X	7.159	7.159	0 %100
200	C120	Z	0	0	0 %100
201	C121	X	7.159	7.159	0 %100
202	C121	Z	0	0	0 %100
203	C122	X	7.159	7.159	0 %100
204	C122	Z	0	0	0 %100
205	C123	X	10.984	10.984	0 %100
206	C123	Z	0	0	0 %100
207	C124	X	10.984	10.984	0 %100
208	C124	Z	0	0	0 %100
209	C125	X	8.441	8.441	0 %100
210	C125	Z	0	0	0 %100
211	C126	X	1.836	1.836	0 %100
212	C126	Z	0	0	0 %100
213	C127	X	8.441	8.441	0 %100
214	C127	Z	0	0	0 %100
215	C128	X	1.836	1.836	0 %100
216	C128	Z	0	0	0 %100
217	C129	X	4.333	4.333	0 %100
218	C129	Z	0	0	0 %100
219	C130	X	4.333	4.333	0 %100
220	C130	Z	0	0	0 %100
221	C131	X	7.722	7.722	0 %100
222	C131	Z	0	0	0 %100
223	C132	X	7.722	7.722	0 %100
224	C132	Z	0	0	0 %100
225	C133	X	12.793	12.793	0 %100
226	C133	Z	0	0	0 %100
227	C134	X	12.793	12.793	0 %100
228	C134	Z	0	0	0 %100
229	C135	X	7.412	7.412	0 %100
230	C135	Z	0	0	0 %100
231	C136	X	7.412	7.412	0 %100
232	C136	Z	0	0	0 %100
233	C137	X	5.268	5.268	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
234	C137	Z	0	0	0	%100
235	C138	X	5.268	5.268	0	%100
236	C138	Z	0	0	0	%100
237	MP1C	X	10.276	10.276	0	%100
238	MP1C	Z	0	0	0	%100
239	MP2C	X	10.276	10.276	0	%100
240	MP2C	Z	0	0	0	%100
241	MP3C	X	10.276	10.276	0	%100
242	MP3C	Z	0	0	0	%100
243	MP4C	X	10.276	10.276	0	%100
244	MP4C	Z	0	0	0	%100
245	MP5C	X	10.276	10.276	0	%100
246	MP5C	Z	0	0	0	%100
247	M154	X	.009	.009	0	%100
248	M154	Z	0	0	0	%100
249	M155	X	12.024	12.024	0	%100
250	M155	Z	0	0	0	%100
251	M156	X	2.975	2.975	0	%100
252	M156	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	1.311	1.311	0	%100
2	A1	Z	.757	.757	0	%100
3	A2	X	.094	.094	0	%100
4	A2	Z	.054	.054	0	%100
5	A3	X	1.311	1.311	0	%100
6	A3	Z	.757	.757	0	%100
7	A4	X	.094	.094	0	%100
8	A4	Z	.054	.054	0	%100
9	A5	X	2.293	2.293	0	%100
10	A5	Z	1.324	1.324	0	%100
11	A6	X	2.293	2.293	0	%100
12	A6	Z	1.324	1.324	0	%100
13	A7	X	2.293	2.293	0	%100
14	A7	Z	1.324	1.324	0	%100
15	A8	X	9.729	9.729	0	%100
16	A8	Z	5.617	5.617	0	%100
17	A9	X	9.729	9.729	0	%100
18	A9	Z	5.617	5.617	0	%100
19	A10	X	9.729	9.729	0	%100
20	A10	Z	5.617	5.617	0	%100
21	A11	X	2.293	2.293	0	%100
22	A11	Z	1.324	1.324	0	%100
23	A12	X	2.293	2.293	0	%100
24	A12	Z	1.324	1.324	0	%100
25	A13	X	2.293	2.293	0	%100
26	A13	Z	1.324	1.324	0	%100
27	A14	X	9.729	9.729	0	%100
28	A14	Z	5.617	5.617	0	%100
29	A15	X	9.729	9.729	0	%100
30	A15	Z	5.617	5.617	0	%100
31	A16	X	9.729	9.729	0	%100
32	A16	Z	5.617	5.617	0	%100
33	A17	X	6.2	6.2	0	%100
34	A17	Z	3.579	3.579	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
35	A18	X	6.2	6.2	0 %100
36	A18	Z	3.579	3.579	0 %100
37	A19	X	6.2	6.2	0 %100
38	A19	Z	3.579	3.579	0 %100
39	A20	X	6.2	6.2	0 %100
40	A20	Z	3.579	3.579	0 %100
41	A21	X	2.693	2.693	0 %100
42	A21	Z	1.555	1.555	0 %100
43	A22	X	2.693	2.693	0 %100
44	A22	Z	1.555	1.555	0 %100
45	A23	X	.595	.595	0 %100
46	A23	Z	.344	.344	0 %100
47	A24	X	8.302	8.302	0 %100
48	A24	Z	4.793	4.793	0 %100
49	A25	X	.595	.595	0 %100
50	A25	Z	.344	.344	0 %100
51	A26	X	8.302	8.302	0 %100
52	A26	Z	4.793	4.793	0 %100
53	A27	X	12.351	12.351	0 %100
54	A27	Z	7.131	7.131	0 %100
55	A28	X	12.351	12.351	0 %100
56	A28	Z	7.131	7.131	0 %100
57	A29	X	6.687	6.687	0 %100
58	A29	Z	3.861	3.861	0 %100
59	A30	X	6.687	6.687	0 %100
60	A30	Z	3.861	3.861	0 %100
61	A31	X	2.481	2.481	0 %100
62	A31	Z	1.432	1.432	0 %100
63	A32	X	2.481	2.481	0 %100
64	A32	Z	1.432	1.432	0 %100
65	A33	X	4.239	4.239	0 %100
66	A33	Z	2.448	2.448	0 %100
67	A34	X	4.239	4.239	0 %100
68	A34	Z	2.448	2.448	0 %100
69	A35	X	6.741	6.741	0 %100
70	A35	Z	3.892	3.892	0 %100
71	A36	X	6.741	6.741	0 %100
72	A36	Z	3.892	3.892	0 %100
73	MP1A	X	8.899	8.899	0 %100
74	MP1A	Z	5.138	5.138	0 %100
75	MP2A	X	8.899	8.899	0 %100
76	MP2A	Z	5.138	5.138	0 %100
77	MP3A	X	8.899	8.899	0 %100
78	MP3A	Z	5.138	5.138	0 %100
79	MP4A	X	8.899	8.899	0 %100
80	MP4A	Z	5.138	5.138	0 %100
81	MP5A	X	8.899	8.899	0 %100
82	MP5A	Z	5.138	5.138	0 %100
83	B52	X	.943	.943	0 %100
84	B52	Z	.544	.544	0 %100
85	B53	X	.462	.462	0 %100
86	B53	Z	.267	.267	0 %100
87	B54	X	.943	.943	0 %100
88	B54	Z	.544	.544	0 %100
89	B55	X	.462	.462	0 %100
90	B55	Z	.267	.267	0 %100
91	B56	X	4.542	4.542	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
92	B56	Z	2.623	2.623	0 %100
93	B57	X	4.542	4.542	0 %100
94	B57	Z	2.623	2.623	0 %100
95	B58	X	4.542	4.542	0 %100
96	B58	Z	2.623	2.623	0 %100
97	B59	X	7.479	7.479	0 %100
98	B59	Z	4.318	4.318	0 %100
99	B60	X	7.479	7.479	0 %100
100	B60	Z	4.318	4.318	0 %100
101	B61	X	7.479	7.479	0 %100
102	B61	Z	4.318	4.318	0 %100
103	B62	X	4.542	4.542	0 %100
104	B62	Z	2.623	2.623	0 %100
105	B63	X	4.542	4.542	0 %100
106	B63	Z	2.623	2.623	0 %100
107	B64	X	4.542	4.542	0 %100
108	B64	Z	2.623	2.623	0 %100
109	B65	X	7.479	7.479	0 %100
110	B65	Z	4.318	4.318	0 %100
111	B66	X	7.479	7.479	0 %100
112	B66	Z	4.318	4.318	0 %100
113	B67	X	7.479	7.479	0 %100
114	B67	Z	4.318	4.318	0 %100
115	B68	X	6.2	6.2	0 %100
116	B68	Z	3.579	3.579	0 %100
117	B69	X	6.2	6.2	0 %100
118	B69	Z	3.579	3.579	0 %100
119	B70	X	6.2	6.2	0 %100
120	B70	Z	3.579	3.579	0 %100
121	B71	X	6.2	6.2	0 %100
122	B71	Z	3.579	3.579	0 %100
123	B72	X	10.448	10.448	0 %100
124	B72	Z	6.032	6.032	0 %100
125	B73	X	10.448	10.448	0 %100
126	B73	Z	6.032	6.032	0 %100
127	B74	X	2.929	2.929	0 %100
128	B74	Z	1.691	1.691	0 %100
129	B75	X	5.973	5.973	0 %100
130	B75	Z	3.448	3.448	0 %100
131	B76	X	2.929	2.929	0 %100
132	B76	Z	1.691	1.691	0 %100
133	B77	X	5.973	5.973	0 %100
134	B77	Z	3.448	3.448	0 %100
135	B78	X	9.365	9.365	0 %100
136	B78	Z	5.407	5.407	0 %100
137	B79	X	9.365	9.365	0 %100
138	B79	Z	5.407	5.407	0 %100
139	B80	X	6.687	6.687	0 %100
140	B80	Z	3.861	3.861	0 %100
141	B81	X	6.687	6.687	0 %100
142	B81	Z	3.861	3.861	0 %100
143	B82	X	5.467	5.467	0 %100
144	B82	Z	3.156	3.156	0 %100
145	B83	X	5.467	5.467	0 %100
146	B83	Z	3.156	3.156	0 %100
147	B84	X	4.997	4.997	0 %100
148	B84	Z	2.885	2.885	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
149	B85	X	4.997	4.997	0 %100
150	B85	Z	2.885	2.885	0 %100
151	B86	X	5.985	5.985	0 %100
152	B86	Z	3.455	3.455	0 %100
153	B87	X	5.985	5.985	0 %100
154	B87	Z	3.455	3.455	0 %100
155	MP1B	X	8.899	8.899	0 %100
156	MP1B	Z	5.138	5.138	0 %100
157	MP2B	X	8.899	8.899	0 %100
158	MP2B	Z	5.138	5.138	0 %100
159	MP3B	X	8.899	8.899	0 %100
160	MP3B	Z	5.138	5.138	0 %100
161	MP4B	X	8.899	8.899	0 %100
162	MP4B	Z	5.138	5.138	0 %100
163	MP5B	X	8.899	8.899	0 %100
164	MP5B	Z	5.138	5.138	0 %100
165	C103	X	.011	.011	0 %100
166	C103	Z	.006	.006	0 %100
167	C104	X	1.394	1.394	0 %100
168	C104	Z	.805	.805	0 %100
169	C105	X	.011	.011	0 %100
170	C105	Z	.006	.006	0 %100
171	C106	X	1.394	1.394	0 %100
172	C106	Z	.805	.805	0 %100
173	C107	X	10.239	10.239	0 %100
174	C107	Z	5.911	5.911	0 %100
175	C108	X	10.239	10.239	0 %100
176	C108	Z	5.911	5.911	0 %100
177	C109	X	10.239	10.239	0 %100
178	C109	Z	5.911	5.911	0 %100
179	C110	X	1.783	1.783	0 %100
180	C110	Z	1.029	1.029	0 %100
181	C111	X	1.783	1.783	0 %100
182	C111	Z	1.029	1.029	0 %100
183	C112	X	1.783	1.783	0 %100
184	C112	Z	1.029	1.029	0 %100
185	C113	X	10.239	10.239	0 %100
186	C113	Z	5.911	5.911	0 %100
187	C114	X	10.239	10.239	0 %100
188	C114	Z	5.911	5.911	0 %100
189	C115	X	10.239	10.239	0 %100
190	C115	Z	5.911	5.911	0 %100
191	C116	X	1.783	1.783	0 %100
192	C116	Z	1.029	1.029	0 %100
193	C117	X	1.783	1.783	0 %100
194	C117	Z	1.029	1.029	0 %100
195	C118	X	1.783	1.783	0 %100
196	C118	Z	1.029	1.029	0 %100
197	C119	X	6.2	6.2	0 %100
198	C119	Z	3.579	3.579	0 %100
199	C120	X	6.2	6.2	0 %100
200	C120	Z	3.579	3.579	0 %100
201	C121	X	6.2	6.2	0 %100
202	C121	Z	3.579	3.579	0 %100
203	C122	X	6.2	6.2	0 %100
204	C122	Z	3.579	3.579	0 %100
205	C123	X	4.451	4.451	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
206	C123	Z	2.57	2.57	0	%100
207	C124	X	4.451	4.451	0	%100
208	C124	Z	2.57	2.57	0	%100
209	C125	X	8.831	8.831	0	%100
210	C125	Z	5.099	5.099	0	%100
211	C126	X	.067	.067	0	%100
212	C126	Z	.039	.039	0	%100
213	C127	X	8.831	8.831	0	%100
214	C127	Z	5.099	5.099	0	%100
215	C128	X	.067	.067	0	%100
216	C128	Z	.039	.039	0	%100
217	C129	X	1.804	1.804	0	%100
218	C129	Z	1.041	1.041	0	%100
219	C130	X	1.804	1.804	0	%100
220	C130	Z	1.041	1.041	0	%100
221	C131	X	6.687	6.687	0	%100
222	C131	Z	3.861	3.861	0	%100
223	C132	X	6.687	6.687	0	%100
224	C132	Z	3.861	3.861	0	%100
225	C133	X	13.028	13.028	0	%100
226	C133	Z	7.522	7.522	0	%100
227	C134	X	13.028	13.028	0	%100
228	C134	Z	7.522	7.522	0	%100
229	C135	X	6.912	6.912	0	%100
230	C135	Z	3.991	3.991	0	%100
231	C136	X	6.912	6.912	0	%100
232	C136	Z	3.991	3.991	0	%100
233	C137	X	4.068	4.068	0	%100
234	C137	Z	2.349	2.349	0	%100
235	C138	X	4.068	4.068	0	%100
236	C138	Z	2.349	2.349	0	%100
237	MP1C	X	8.899	8.899	0	%100
238	MP1C	Z	5.138	5.138	0	%100
239	MP2C	X	8.899	8.899	0	%100
240	MP2C	Z	5.138	5.138	0	%100
241	MP3C	X	8.899	8.899	0	%100
242	MP3C	Z	5.138	5.138	0	%100
243	MP4C	X	8.899	8.899	0	%100
244	MP4C	Z	5.138	5.138	0	%100
245	MP5C	X	8.899	8.899	0	%100
246	MP5C	Z	5.138	5.138	0	%100
247	M154	X	3.385	3.385	0	%100
248	M154	Z	1.954	1.954	0	%100
249	M155	X	12.335	12.335	0	%100
250	M155	Z	7.122	7.122	0	%100
251	M156	X	.033	.033	0	%100
252	M156	Z	.019	.019	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.757	.757	0	%100
2	A1	Z	1.311	1.311	0	%100
3	A2	X	.054	.054	0	%100
4	A2	Z	.094	.094	0	%100
5	A3	X	.757	.757	0	%100
6	A3	Z	1.311	1.311	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	A4	X	.054	.054	0	%100
8	A4	Z	.094	.094	0	%100
9	A5	X	1.324	1.324	0	%100
10	A5	Z	2.293	2.293	0	%100
11	A6	X	1.324	1.324	0	%100
12	A6	Z	2.293	2.293	0	%100
13	A7	X	1.324	1.324	0	%100
14	A7	Z	2.293	2.293	0	%100
15	A8	X	5.617	5.617	0	%100
16	A8	Z	9.729	9.729	0	%100
17	A9	X	5.617	5.617	0	%100
18	A9	Z	9.729	9.729	0	%100
19	A10	X	5.617	5.617	0	%100
20	A10	Z	9.729	9.729	0	%100
21	A11	X	1.324	1.324	0	%100
22	A11	Z	2.293	2.293	0	%100
23	A12	X	1.324	1.324	0	%100
24	A12	Z	2.293	2.293	0	%100
25	A13	X	1.324	1.324	0	%100
26	A13	Z	2.293	2.293	0	%100
27	A14	X	5.617	5.617	0	%100
28	A14	Z	9.729	9.729	0	%100
29	A15	X	5.617	5.617	0	%100
30	A15	Z	9.729	9.729	0	%100
31	A16	X	5.617	5.617	0	%100
32	A16	Z	9.729	9.729	0	%100
33	A17	X	3.579	3.579	0	%100
34	A17	Z	6.2	6.2	0	%100
35	A18	X	3.579	3.579	0	%100
36	A18	Z	6.2	6.2	0	%100
37	A19	X	3.579	3.579	0	%100
38	A19	Z	6.2	6.2	0	%100
39	A20	X	3.579	3.579	0	%100
40	A20	Z	6.2	6.2	0	%100
41	A21	X	4.665	4.665	0	%100
42	A21	Z	8.079	8.079	0	%100
43	A22	X	4.665	4.665	0	%100
44	A22	Z	8.079	8.079	0	%100
45	A23	X	.345	.345	0	%100
46	A23	Z	.597	.597	0	%100
47	A24	X	4.794	4.794	0	%100
48	A24	Z	8.304	8.304	0	%100
49	A25	X	.345	.345	0	%100
50	A25	Z	.597	.597	0	%100
51	A26	X	4.794	4.794	0	%100
52	A26	Z	8.304	8.304	0	%100
53	A27	X	7.131	7.131	0	%100
54	A27	Z	12.351	12.351	0	%100
55	A28	X	7.131	7.131	0	%100
56	A28	Z	12.351	12.351	0	%100
57	A29	X	3.861	3.861	0	%100
58	A29	Z	6.687	6.687	0	%100
59	A30	X	3.861	3.861	0	%100
60	A30	Z	6.687	6.687	0	%100
61	A31	X	1.432	1.432	0	%100
62	A31	Z	2.481	2.481	0	%100
63	A32	X	1.432	1.432	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	A32	Z	2.481	2.481	0 %100
65	A33	X	2.448	2.448	0 %100
66	A33	Z	4.24	4.24	0 %100
67	A34	X	2.448	2.448	0 %100
68	A34	Z	4.24	4.24	0 %100
69	A35	X	3.892	3.892	0 %100
70	A35	Z	6.741	6.741	0 %100
71	A36	X	3.892	3.892	0 %100
72	A36	Z	6.741	6.741	0 %100
73	MP1A	X	5.138	5.138	0 %100
74	MP1A	Z	8.899	8.899	0 %100
75	MP2A	X	5.138	5.138	0 %100
76	MP2A	Z	8.899	8.899	0 %100
77	MP3A	X	5.138	5.138	0 %100
78	MP3A	Z	8.899	8.899	0 %100
79	MP4A	X	5.138	5.138	0 %100
80	MP4A	Z	8.899	8.899	0 %100
81	MP5A	X	5.138	5.138	0 %100
82	MP5A	Z	8.899	8.899	0 %100
83	B52	X	.145	.145	0 %100
84	B52	Z	.251	.251	0 %100
85	B53	X	.666	.666	0 %100
86	B53	Z	1.154	1.154	0 %100
87	B54	X	.145	.145	0 %100
88	B54	Z	.251	.251	0 %100
89	B55	X	.666	.666	0 %100
90	B55	Z	1.154	1.154	0 %100
91	B56	X	5.064	5.064	0 %100
92	B56	Z	8.77	8.77	0 %100
93	B57	X	5.064	5.064	0 %100
94	B57	Z	8.77	8.77	0 %100
95	B58	X	5.064	5.064	0 %100
96	B58	Z	8.77	8.77	0 %100
97	B59	X	1.877	1.877	0 %100
98	B59	Z	3.251	3.251	0 %100
99	B60	X	1.877	1.877	0 %100
100	B60	Z	3.251	3.251	0 %100
101	B61	X	1.877	1.877	0 %100
102	B61	Z	3.251	3.251	0 %100
103	B62	X	5.064	5.064	0 %100
104	B62	Z	8.77	8.77	0 %100
105	B63	X	5.064	5.064	0 %100
106	B63	Z	8.77	8.77	0 %100
107	B64	X	5.064	5.064	0 %100
108	B64	Z	8.77	8.77	0 %100
109	B65	X	1.877	1.877	0 %100
110	B65	Z	3.251	3.251	0 %100
111	B66	X	1.877	1.877	0 %100
112	B66	Z	3.251	3.251	0 %100
113	B67	X	1.877	1.877	0 %100
114	B67	Z	3.251	3.251	0 %100
115	B68	X	3.579	3.579	0 %100
116	B68	Z	6.2	6.2	0 %100
117	B69	X	3.579	3.579	0 %100
118	B69	Z	6.2	6.2	0 %100
119	B70	X	3.579	3.579	0 %100
120	B70	Z	6.2	6.2	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
121	B71	X	3.579	3.579	0 %100
122	B71	Z	6.2	6.2	0 %100
123	B72	X	5.492	5.492	0 %100
124	B72	Z	9.512	9.512	0 %100
125	B73	X	5.492	5.492	0 %100
126	B73	Z	9.512	9.512	0 %100
127	B74	X	4.221	4.221	0 %100
128	B74	Z	7.311	7.311	0 %100
129	B75	X	.918	.918	0 %100
130	B75	Z	1.59	1.59	0 %100
131	B76	X	4.221	4.221	0 %100
132	B76	Z	7.311	7.311	0 %100
133	B77	X	.918	.918	0 %100
134	B77	Z	1.59	1.59	0 %100
135	B78	X	2.167	2.167	0 %100
136	B78	Z	3.753	3.753	0 %100
137	B79	X	2.167	2.167	0 %100
138	B79	Z	3.753	3.753	0 %100
139	B80	X	3.861	3.861	0 %100
140	B80	Z	6.687	6.687	0 %100
141	B81	X	3.861	3.861	0 %100
142	B81	Z	6.687	6.687	0 %100
143	B82	X	6.396	6.396	0 %100
144	B82	Z	11.079	11.079	0 %100
145	B83	X	6.396	6.396	0 %100
146	B83	Z	11.079	11.079	0 %100
147	B84	X	3.706	3.706	0 %100
148	B84	Z	6.419	6.419	0 %100
149	B85	X	3.706	3.706	0 %100
150	B85	Z	6.419	6.419	0 %100
151	B86	X	2.634	2.634	0 %100
152	B86	Z	4.562	4.562	0 %100
153	B87	X	2.634	2.634	0 %100
154	B87	Z	4.562	4.562	0 %100
155	MP1B	X	5.138	5.138	0 %100
156	MP1B	Z	8.899	8.899	0 %100
157	MP2B	X	5.138	5.138	0 %100
158	MP2B	Z	8.899	8.899	0 %100
159	MP3B	X	5.138	5.138	0 %100
160	MP3B	Z	8.899	8.899	0 %100
161	MP4B	X	5.138	5.138	0 %100
162	MP4B	Z	8.899	8.899	0 %100
163	MP5B	X	5.138	5.138	0 %100
164	MP5B	Z	8.899	8.899	0 %100
165	C103	X	.267	.267	0 %100
166	C103	Z	.462	.462	0 %100
167	C104	X	.544	.544	0 %100
168	C104	Z	.943	.943	0 %100
169	C105	X	.267	.267	0 %100
170	C105	Z	.462	.462	0 %100
171	C106	X	.544	.544	0 %100
172	C106	Z	.943	.943	0 %100
173	C107	X	4.318	4.318	0 %100
174	C107	Z	7.479	7.479	0 %100
175	C108	X	4.318	4.318	0 %100
176	C108	Z	7.479	7.479	0 %100
177	C109	X	4.318	4.318	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
178	C109	Z	7.479	7.479	0 %100
179	C110	X	2.623	2.623	0 %100
180	C110	Z	4.542	4.542	0 %100
181	C111	X	2.623	2.623	0 %100
182	C111	Z	4.542	4.542	0 %100
183	C112	X	2.623	2.623	0 %100
184	C112	Z	4.542	4.542	0 %100
185	C113	X	4.318	4.318	0 %100
186	C113	Z	7.479	7.479	0 %100
187	C114	X	4.318	4.318	0 %100
188	C114	Z	7.479	7.479	0 %100
189	C115	X	4.318	4.318	0 %100
190	C115	Z	7.479	7.479	0 %100
191	C116	X	2.623	2.623	0 %100
192	C116	Z	4.542	4.542	0 %100
193	C117	X	2.623	2.623	0 %100
194	C117	Z	4.542	4.542	0 %100
195	C118	X	2.623	2.623	0 %100
196	C118	Z	4.542	4.542	0 %100
197	C119	X	3.579	3.579	0 %100
198	C119	Z	6.2	6.2	0 %100
199	C120	X	3.579	3.579	0 %100
200	C120	Z	6.2	6.2	0 %100
201	C121	X	3.579	3.579	0 %100
202	C121	Z	6.2	6.2	0 %100
203	C122	X	3.579	3.579	0 %100
204	C122	Z	6.2	6.2	0 %100
205	C123	X	.188	.188	0 %100
206	C123	Z	.325	.325	0 %100
207	C124	X	.188	.188	0 %100
208	C124	Z	.325	.325	0 %100
209	C125	X	3.447	3.447	0 %100
210	C125	Z	5.97	5.97	0 %100
211	C126	X	1.69	1.69	0 %100
212	C126	Z	2.926	2.926	0 %100
213	C127	X	3.447	3.447	0 %100
214	C127	Z	5.97	5.97	0 %100
215	C128	X	1.69	1.69	0 %100
216	C128	Z	2.926	2.926	0 %100
217	C129	X	3.156	3.156	0 %100
218	C129	Z	5.467	5.467	0 %100
219	C130	X	3.156	3.156	0 %100
220	C130	Z	5.467	5.467	0 %100
221	C131	X	3.861	3.861	0 %100
222	C131	Z	6.687	6.687	0 %100
223	C132	X	3.861	3.861	0 %100
224	C132	Z	6.687	6.687	0 %100
225	C133	X	5.407	5.407	0 %100
226	C133	Z	9.365	9.365	0 %100
227	C134	X	5.407	5.407	0 %100
228	C134	Z	9.365	9.365	0 %100
229	C135	X	3.455	3.455	0 %100
230	C135	Z	5.984	5.984	0 %100
231	C136	X	3.455	3.455	0 %100
232	C136	Z	5.984	5.984	0 %100
233	C137	X	2.884	2.884	0 %100
234	C137	Z	4.996	4.996	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
235	C138	X	2.884	2.884	0 %100
236	C138	Z	4.996	4.996	0 %100
237	MP1C	X	5.138	5.138	0 %100
238	MP1C	Z	8.899	8.899	0 %100
239	MP2C	X	5.138	5.138	0 %100
240	MP2C	Z	8.899	8.899	0 %100
241	MP3C	X	5.138	5.138	0 %100
242	MP3C	Z	8.899	8.899	0 %100
243	MP4C	X	5.138	5.138	0 %100
244	MP4C	Z	8.899	8.899	0 %100
245	MP5C	X	5.138	5.138	0 %100
246	MP5C	Z	8.899	8.899	0 %100
247	M154	X	5.551	5.551	0 %100
248	M154	Z	9.614	9.614	0 %100
249	M155	X	4.71	4.71	0 %100
250	M155	Z	8.158	8.158	0 %100
251	M156	X	2.133	2.133	0 %100
252	M156	Z	3.694	3.694	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	0	0	0 %100
2	A1	Z	.811	.811	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	.811	.811	0 %100
5	A3	X	0	0	0 %100
6	A3	Z	.811	.811	0 %100
7	A4	X	0	0	0 %100
8	A4	Z	.811	.811	0 %100
9	A5	X	0	0	0 %100
10	A5	Z	6.941	6.941	0 %100
11	A6	X	0	0	0 %100
12	A6	Z	6.941	6.941	0 %100
13	A7	X	0	0	0 %100
14	A7	Z	6.941	6.941	0 %100
15	A8	X	0	0	0 %100
16	A8	Z	6.941	6.941	0 %100
17	A9	X	0	0	0 %100
18	A9	Z	6.941	6.941	0 %100
19	A10	X	0	0	0 %100
20	A10	Z	6.941	6.941	0 %100
21	A11	X	0	0	0 %100
22	A11	Z	6.941	6.941	0 %100
23	A12	X	0	0	0 %100
24	A12	Z	6.941	6.941	0 %100
25	A13	X	0	0	0 %100
26	A13	Z	6.941	6.941	0 %100
27	A14	X	0	0	0 %100
28	A14	Z	6.941	6.941	0 %100
29	A15	X	0	0	0 %100
30	A15	Z	6.941	6.941	0 %100
31	A16	X	0	0	0 %100
32	A16	Z	6.941	6.941	0 %100
33	A17	X	0	0	0 %100
34	A17	Z	7.159	7.159	0 %100
35	A18	X	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
36	A18	Z	7.159	7.159	0 %100
37	A19	X	0	0	0 %100
38	A19	Z	7.159	7.159	0 %100
39	A20	X	0	0	0 %100
40	A20	Z	7.159	7.159	0 %100
41	A21	X	0	0	0 %100
42	A21	Z	12.439	12.439	0 %100
43	A22	X	0	0	0 %100
44	A22	Z	12.439	12.439	0 %100
45	A23	X	0	0	0 %100
46	A23	Z	5.139	5.139	0 %100
47	A24	X	0	0	0 %100
48	A24	Z	5.139	5.139	0 %100
49	A25	X	0	0	0 %100
50	A25	Z	5.139	5.139	0 %100
51	A26	X	0	0	0 %100
52	A26	Z	5.139	5.139	0 %100
53	A27	X	0	0	0 %100
54	A27	Z	8.563	8.563	0 %100
55	A28	X	0	0	0 %100
56	A28	Z	8.563	8.563	0 %100
57	A29	X	0	0	0 %100
58	A29	Z	7.722	7.722	0 %100
59	A30	X	0	0	0 %100
60	A30	Z	7.722	7.722	0 %100
61	A31	X	0	0	0 %100
62	A31	Z	8.563	8.563	0 %100
63	A32	X	0	0	0 %100
64	A32	Z	8.563	8.563	0 %100
65	A33	X	0	0	0 %100
66	A33	Z	6.34	6.34	0 %100
67	A34	X	0	0	0 %100
68	A34	Z	6.34	6.34	0 %100
69	A35	X	0	0	0 %100
70	A35	Z	6.34	6.34	0 %100
71	A36	X	0	0	0 %100
72	A36	Z	6.34	6.34	0 %100
73	MP1A	X	0	0	0 %100
74	MP1A	Z	10.276	10.276	0 %100
75	MP2A	X	0	0	0 %100
76	MP2A	Z	10.276	10.276	0 %100
77	MP3A	X	0	0	0 %100
78	MP3A	Z	10.276	10.276	0 %100
79	MP4A	X	0	0	0 %100
80	MP4A	Z	10.276	10.276	0 %100
81	MP5A	X	0	0	0 %100
82	MP5A	Z	10.276	10.276	0 %100
83	B52	X	0	0	0 %100
84	B52	Z	.012	.012	0 %100
85	B53	X	0	0	0 %100
86	B53	Z	1.61	1.61	0 %100
87	B54	X	0	0	0 %100
88	B54	Z	.012	.012	0 %100
89	B55	X	0	0	0 %100
90	B55	Z	1.61	1.61	0 %100
91	B56	X	0	0	0 %100
92	B56	Z	11.823	11.823	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
93	B57	X	0	0	%100
94	B57	Z	11.823	11.823	%100
95	B58	X	0	0	%100
96	B58	Z	11.823	11.823	%100
97	B59	X	0	0	%100
98	B59	Z	2.058	2.058	%100
99	B60	X	0	0	%100
100	B60	Z	2.058	2.058	%100
101	B61	X	0	0	%100
102	B61	Z	2.058	2.058	%100
103	B62	X	0	0	%100
104	B62	Z	11.823	11.823	%100
105	B63	X	0	0	%100
106	B63	Z	11.823	11.823	%100
107	B64	X	0	0	%100
108	B64	Z	11.823	11.823	%100
109	B65	X	0	0	%100
110	B65	Z	2.058	2.058	%100
111	B66	X	0	0	%100
112	B66	Z	2.058	2.058	%100
113	B67	X	0	0	%100
114	B67	Z	2.058	2.058	%100
115	B68	X	0	0	%100
116	B68	Z	7.159	7.159	%100
117	B69	X	0	0	%100
118	B69	Z	7.159	7.159	%100
119	B70	X	0	0	%100
120	B70	Z	7.159	7.159	%100
121	B71	X	0	0	%100
122	B71	Z	7.159	7.159	%100
123	B72	X	0	0	%100
124	B72	Z	5.139	5.139	%100
125	B73	X	0	0	%100
126	B73	Z	5.139	5.139	%100
127	B74	X	0	0	%100
128	B74	Z	10.197	10.197	%100
129	B75	X	0	0	%100
130	B75	Z	.078	.078	%100
131	B76	X	0	0	%100
132	B76	Z	10.197	10.197	%100
133	B77	X	0	0	%100
134	B77	Z	.078	.078	%100
135	B78	X	0	0	%100
136	B78	Z	2.083	2.083	%100
137	B79	X	0	0	%100
138	B79	Z	2.083	2.083	%100
139	B80	X	0	0	%100
140	B80	Z	7.722	7.722	%100
141	B81	X	0	0	%100
142	B81	Z	7.722	7.722	%100
143	B82	X	0	0	%100
144	B82	Z	15.043	15.043	%100
145	B83	X	0	0	%100
146	B83	Z	15.043	15.043	%100
147	B84	X	0	0	%100
148	B84	Z	7.982	7.982	%100
149	B85	X	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
150	B85	Z	7.982	7.982	0 %100
151	B86	X	0	0	0 %100
152	B86	Z	4.697	4.697	0 %100
153	B87	X	0	0	0 %100
154	B87	Z	4.697	4.697	0 %100
155	MP1B	X	0	0	0 %100
156	MP1B	Z	10.276	10.276	0 %100
157	MP2B	X	0	0	0 %100
158	MP2B	Z	10.276	10.276	0 %100
159	MP3B	X	0	0	0 %100
160	MP3B	Z	10.276	10.276	0 %100
161	MP4B	X	0	0	0 %100
162	MP4B	Z	10.276	10.276	0 %100
163	MP5B	X	0	0	0 %100
164	MP5B	Z	10.276	10.276	0 %100
165	C103	X	0	0	0 %100
166	C103	Z	1.333	1.333	0 %100
167	C104	X	0	0	0 %100
168	C104	Z	.29	.29	0 %100
169	C105	X	0	0	0 %100
170	C105	Z	1.333	1.333	0 %100
171	C106	X	0	0	0 %100
172	C106	Z	.29	.29	0 %100
173	C107	X	0	0	0 %100
174	C107	Z	3.754	3.754	0 %100
175	C108	X	0	0	0 %100
176	C108	Z	3.754	3.754	0 %100
177	C109	X	0	0	0 %100
178	C109	Z	3.754	3.754	0 %100
179	C110	X	0	0	0 %100
180	C110	Z	10.127	10.127	0 %100
181	C111	X	0	0	0 %100
182	C111	Z	10.127	10.127	0 %100
183	C112	X	0	0	0 %100
184	C112	Z	10.127	10.127	0 %100
185	C113	X	0	0	0 %100
186	C113	Z	3.754	3.754	0 %100
187	C114	X	0	0	0 %100
188	C114	Z	3.754	3.754	0 %100
189	C115	X	0	0	0 %100
190	C115	Z	3.754	3.754	0 %100
191	C116	X	0	0	0 %100
192	C116	Z	10.127	10.127	0 %100
193	C117	X	0	0	0 %100
194	C117	Z	10.127	10.127	0 %100
195	C118	X	0	0	0 %100
196	C118	Z	10.127	10.127	0 %100
197	C119	X	0	0	0 %100
198	C119	Z	7.159	7.159	0 %100
199	C120	X	0	0	0 %100
200	C120	Z	7.159	7.159	0 %100
201	C121	X	0	0	0 %100
202	C121	Z	7.159	7.159	0 %100
203	C122	X	0	0	0 %100
204	C122	Z	7.159	7.159	0 %100
205	C123	X	0	0	0 %100
206	C123	Z	1.455	1.455	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
207	C124	X	0	0	0	%100
208	C124	Z	1.455	1.455	0	%100
209	C125	X	0	0	0	%100
210	C125	Z	1.834	1.834	0	%100
211	C126	X	0	0	0	%100
212	C126	Z	8.439	8.439	0	%100
213	C127	X	0	0	0	%100
214	C127	Z	1.834	1.834	0	%100
215	C128	X	0	0	0	%100
216	C128	Z	8.439	8.439	0	%100
217	C129	X	0	0	0	%100
218	C129	Z	12.793	12.793	0	%100
219	C130	X	0	0	0	%100
220	C130	Z	12.793	12.793	0	%100
221	C131	X	0	0	0	%100
222	C131	Z	7.722	7.722	0	%100
223	C132	X	0	0	0	%100
224	C132	Z	7.722	7.722	0	%100
225	C133	X	0	0	0	%100
226	C133	Z	4.333	4.333	0	%100
227	C134	X	0	0	0	%100
228	C134	Z	4.333	4.333	0	%100
229	C135	X	0	0	0	%100
230	C135	Z	5.267	5.267	0	%100
231	C136	X	0	0	0	%100
232	C136	Z	5.267	5.267	0	%100
233	C137	X	0	0	0	%100
234	C137	Z	7.411	7.411	0	%100
235	C138	X	0	0	0	%100
236	C138	Z	7.411	7.411	0	%100
237	MP1C	X	0	0	0	%100
238	MP1C	Z	10.276	10.276	0	%100
239	MP2C	X	0	0	0	%100
240	MP2C	Z	10.276	10.276	0	%100
241	MP3C	X	0	0	0	%100
242	MP3C	Z	10.276	10.276	0	%100
243	MP4C	X	0	0	0	%100
244	MP4C	Z	10.276	10.276	0	%100
245	MP5C	X	0	0	0	%100
246	MP5C	Z	10.276	10.276	0	%100
247	M154	X	0	0	0	%100
248	M154	Z	14.393	14.393	0	%100
249	M155	X	0	0	0	%100
250	M155	Z	2.378	2.378	0	%100
251	M156	X	0	0	0	%100
252	M156	Z	11.427	11.427	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.054	-.054	0	%100
2	A1	Z	.094	.094	0	%100
3	A2	X	-.757	-.757	0	%100
4	A2	Z	1.311	1.311	0	%100
5	A3	X	-.054	-.054	0	%100
6	A3	Z	.094	.094	0	%100
7	A4	X	-.757	-.757	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	A4	Z	1.311	1.311	0	%100
9	A5	X	-5.617	-5.617	0	%100
10	A5	Z	9.729	9.729	0	%100
11	A6	X	-5.617	-5.617	0	%100
12	A6	Z	9.729	9.729	0	%100
13	A7	X	-5.617	-5.617	0	%100
14	A7	Z	9.729	9.729	0	%100
15	A8	X	-1.324	-1.324	0	%100
16	A8	Z	2.293	2.293	0	%100
17	A9	X	-1.324	-1.324	0	%100
18	A9	Z	2.293	2.293	0	%100
19	A10	X	-1.324	-1.324	0	%100
20	A10	Z	2.293	2.293	0	%100
21	A11	X	-5.617	-5.617	0	%100
22	A11	Z	9.729	9.729	0	%100
23	A12	X	-5.617	-5.617	0	%100
24	A12	Z	9.729	9.729	0	%100
25	A13	X	-5.617	-5.617	0	%100
26	A13	Z	9.729	9.729	0	%100
27	A14	X	-1.324	-1.324	0	%100
28	A14	Z	2.293	2.293	0	%100
29	A15	X	-1.324	-1.324	0	%100
30	A15	Z	2.293	2.293	0	%100
31	A16	X	-1.324	-1.324	0	%100
32	A16	Z	2.293	2.293	0	%100
33	A17	X	-3.579	-3.579	0	%100
34	A17	Z	6.2	6.2	0	%100
35	A18	X	-3.579	-3.579	0	%100
36	A18	Z	6.2	6.2	0	%100
37	A19	X	-3.579	-3.579	0	%100
38	A19	Z	6.2	6.2	0	%100
39	A20	X	-3.579	-3.579	0	%100
40	A20	Z	6.2	6.2	0	%100
41	A21	X	-4.665	-4.665	0	%100
42	A21	Z	8.079	8.079	0	%100
43	A22	X	-4.665	-4.665	0	%100
44	A22	Z	8.079	8.079	0	%100
45	A23	X	-4.794	-4.794	0	%100
46	A23	Z	8.304	8.304	0	%100
47	A24	X	-.345	-.345	0	%100
48	A24	Z	.597	.597	0	%100
49	A25	X	-4.794	-4.794	0	%100
50	A25	Z	8.304	8.304	0	%100
51	A26	X	-.345	-.345	0	%100
52	A26	Z	.597	.597	0	%100
53	A27	X	-1.432	-1.432	0	%100
54	A27	Z	2.481	2.481	0	%100
55	A28	X	-1.432	-1.432	0	%100
56	A28	Z	2.481	2.481	0	%100
57	A29	X	-3.861	-3.861	0	%100
58	A29	Z	6.687	6.687	0	%100
59	A30	X	-3.861	-3.861	0	%100
60	A30	Z	6.687	6.687	0	%100
61	A31	X	-7.131	-7.131	0	%100
62	A31	Z	12.351	12.351	0	%100
63	A32	X	-7.131	-7.131	0	%100
64	A32	Z	12.351	12.351	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	A33	X	-3.892	-3.892	0 %100
66	A33	Z	6.741	6.741	0 %100
67	A34	X	-3.892	-3.892	0 %100
68	A34	Z	6.741	6.741	0 %100
69	A35	X	-2.448	-2.448	0 %100
70	A35	Z	4.24	4.24	0 %100
71	A36	X	-2.448	-2.448	0 %100
72	A36	Z	4.24	4.24	0 %100
73	MP1A	X	-5.138	-5.138	0 %100
74	MP1A	Z	8.899	8.899	0 %100
75	MP2A	X	-5.138	-5.138	0 %100
76	MP2A	Z	8.899	8.899	0 %100
77	MP3A	X	-5.138	-5.138	0 %100
78	MP3A	Z	8.899	8.899	0 %100
79	MP4A	X	-5.138	-5.138	0 %100
80	MP4A	Z	8.899	8.899	0 %100
81	MP5A	X	-5.138	-5.138	0 %100
82	MP5A	Z	8.899	8.899	0 %100
83	B52	X	-.267	-.267	0 %100
84	B52	Z	.462	.462	0 %100
85	B53	X	-.544	-.544	0 %100
86	B53	Z	.943	.943	0 %100
87	B54	X	-.267	-.267	0 %100
88	B54	Z	.462	.462	0 %100
89	B55	X	-.544	-.544	0 %100
90	B55	Z	.943	.943	0 %100
91	B56	X	-4.318	-4.318	0 %100
92	B56	Z	7.479	7.479	0 %100
93	B57	X	-4.318	-4.318	0 %100
94	B57	Z	7.479	7.479	0 %100
95	B58	X	-4.318	-4.318	0 %100
96	B58	Z	7.479	7.479	0 %100
97	B59	X	-2.623	-2.623	0 %100
98	B59	Z	4.542	4.542	0 %100
99	B60	X	-2.623	-2.623	0 %100
100	B60	Z	4.542	4.542	0 %100
101	B61	X	-2.623	-2.623	0 %100
102	B61	Z	4.542	4.542	0 %100
103	B62	X	-4.318	-4.318	0 %100
104	B62	Z	7.479	7.479	0 %100
105	B63	X	-4.318	-4.318	0 %100
106	B63	Z	7.479	7.479	0 %100
107	B64	X	-4.318	-4.318	0 %100
108	B64	Z	7.479	7.479	0 %100
109	B65	X	-2.623	-2.623	0 %100
110	B65	Z	4.542	4.542	0 %100
111	B66	X	-2.623	-2.623	0 %100
112	B66	Z	4.542	4.542	0 %100
113	B67	X	-2.623	-2.623	0 %100
114	B67	Z	4.542	4.542	0 %100
115	B68	X	-3.579	-3.579	0 %100
116	B68	Z	6.2	6.2	0 %100
117	B69	X	-3.579	-3.579	0 %100
118	B69	Z	6.2	6.2	0 %100
119	B70	X	-3.579	-3.579	0 %100
120	B70	Z	6.2	6.2	0 %100
121	B71	X	-3.579	-3.579	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
122	B71	Z	6.2	6.2	0 %100
123	B72	X	-.188	-.188	0 %100
124	B72	Z	.325	.325	0 %100
125	B73	X	-.188	-.188	0 %100
126	B73	Z	.325	.325	0 %100
127	B74	X	-3.447	-3.447	0 %100
128	B74	Z	5.97	5.97	0 %100
129	B75	X	-1.69	-1.69	0 %100
130	B75	Z	2.926	2.926	0 %100
131	B76	X	-3.447	-3.447	0 %100
132	B76	Z	5.97	5.97	0 %100
133	B77	X	-1.69	-1.69	0 %100
134	B77	Z	2.926	2.926	0 %100
135	B78	X	-3.156	-3.156	0 %100
136	B78	Z	5.467	5.467	0 %100
137	B79	X	-3.156	-3.156	0 %100
138	B79	Z	5.467	5.467	0 %100
139	B80	X	-3.861	-3.861	0 %100
140	B80	Z	6.687	6.687	0 %100
141	B81	X	-3.861	-3.861	0 %100
142	B81	Z	6.687	6.687	0 %100
143	B82	X	-5.407	-5.407	0 %100
144	B82	Z	9.365	9.365	0 %100
145	B83	X	-5.407	-5.407	0 %100
146	B83	Z	9.365	9.365	0 %100
147	B84	X	-3.455	-3.455	0 %100
148	B84	Z	5.984	5.984	0 %100
149	B85	X	-3.455	-3.455	0 %100
150	B85	Z	5.984	5.984	0 %100
151	B86	X	-2.884	-2.884	0 %100
152	B86	Z	4.996	4.996	0 %100
153	B87	X	-2.884	-2.884	0 %100
154	B87	Z	4.996	4.996	0 %100
155	MP1B	X	-5.138	-5.138	0 %100
156	MP1B	Z	8.899	8.899	0 %100
157	MP2B	X	-5.138	-5.138	0 %100
158	MP2B	Z	8.899	8.899	0 %100
159	MP3B	X	-5.138	-5.138	0 %100
160	MP3B	Z	8.899	8.899	0 %100
161	MP4B	X	-5.138	-5.138	0 %100
162	MP4B	Z	8.899	8.899	0 %100
163	MP5B	X	-5.138	-5.138	0 %100
164	MP5B	Z	8.899	8.899	0 %100
165	C103	X	-.805	-.805	0 %100
166	C103	Z	1.394	1.394	0 %100
167	C104	X	-.006	-.006	0 %100
168	C104	Z	.011	.011	0 %100
169	C105	X	-.805	-.805	0 %100
170	C105	Z	1.394	1.394	0 %100
171	C106	X	-.006	-.006	0 %100
172	C106	Z	.011	.011	0 %100
173	C107	X	-1.029	-1.029	0 %100
174	C107	Z	1.783	1.783	0 %100
175	C108	X	-1.029	-1.029	0 %100
176	C108	Z	1.783	1.783	0 %100
177	C109	X	-1.029	-1.029	0 %100
178	C109	Z	1.783	1.783	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
179	C110	X	-5.911	-5.911	0 %100
180	C110	Z	10.239	10.239	0 %100
181	C111	X	-5.911	-5.911	0 %100
182	C111	Z	10.239	10.239	0 %100
183	C112	X	-5.911	-5.911	0 %100
184	C112	Z	10.239	10.239	0 %100
185	C113	X	-1.029	-1.029	0 %100
186	C113	Z	1.783	1.783	0 %100
187	C114	X	-1.029	-1.029	0 %100
188	C114	Z	1.783	1.783	0 %100
189	C115	X	-1.029	-1.029	0 %100
190	C115	Z	1.783	1.783	0 %100
191	C116	X	-5.911	-5.911	0 %100
192	C116	Z	10.239	10.239	0 %100
193	C117	X	-5.911	-5.911	0 %100
194	C117	Z	10.239	10.239	0 %100
195	C118	X	-5.911	-5.911	0 %100
196	C118	Z	10.239	10.239	0 %100
197	C119	X	-3.579	-3.579	0 %100
198	C119	Z	6.2	6.2	0 %100
199	C120	X	-3.579	-3.579	0 %100
200	C120	Z	6.2	6.2	0 %100
201	C121	X	-3.579	-3.579	0 %100
202	C121	Z	6.2	6.2	0 %100
203	C122	X	-3.579	-3.579	0 %100
204	C122	Z	6.2	6.2	0 %100
205	C123	X	-3.65	-3.65	0 %100
206	C123	Z	6.322	6.322	0 %100
207	C124	X	-3.65	-3.65	0 %100
208	C124	Z	6.322	6.322	0 %100
209	C125	X	-.039	-.039	0 %100
210	C125	Z	.068	.068	0 %100
211	C126	X	-5.099	-5.099	0 %100
212	C126	Z	8.832	8.832	0 %100
213	C127	X	-.039	-.039	0 %100
214	C127	Z	.068	.068	0 %100
215	C128	X	-5.099	-5.099	0 %100
216	C128	Z	8.832	8.832	0 %100
217	C129	X	-7.522	-7.522	0 %100
218	C129	Z	13.028	13.028	0 %100
219	C130	X	-7.522	-7.522	0 %100
220	C130	Z	13.028	13.028	0 %100
221	C131	X	-3.861	-3.861	0 %100
222	C131	Z	6.687	6.687	0 %100
223	C132	X	-3.861	-3.861	0 %100
224	C132	Z	6.687	6.687	0 %100
225	C133	X	-1.041	-1.041	0 %100
226	C133	Z	1.804	1.804	0 %100
227	C134	X	-1.041	-1.041	0 %100
228	C134	Z	1.804	1.804	0 %100
229	C135	X	-2.349	-2.349	0 %100
230	C135	Z	4.068	4.068	0 %100
231	C136	X	-2.349	-2.349	0 %100
232	C136	Z	4.068	4.068	0 %100
233	C137	X	-3.991	-3.991	0 %100
234	C137	Z	6.913	6.913	0 %100
235	C138	X	-3.991	-3.991	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
236	C138	Z	6.913	6.913	0	%100
237	MP1C	X	-5.138	-5.138	0	%100
238	MP1C	Z	8.899	8.899	0	%100
239	MP2C	X	-5.138	-5.138	0	%100
240	MP2C	Z	8.899	8.899	0	%100
241	MP3C	X	-5.138	-5.138	0	%100
242	MP3C	Z	8.899	8.899	0	%100
243	MP4C	X	-5.138	-5.138	0	%100
244	MP4C	Z	8.899	8.899	0	%100
245	MP5C	X	-5.138	-5.138	0	%100
246	MP5C	Z	8.899	8.899	0	%100
247	M154	X	-5.247	-5.247	0	%100
248	M154	Z	9.087	9.087	0	%100
249	M155	X	-.079	-.079	0	%100
250	M155	Z	.137	.137	0	%100
251	M156	X	-7.182	-7.182	0	%100
252	M156	Z	12.439	12.439	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.094	-.094	0	%100
2	A1	Z	.054	.054	0	%100
3	A2	X	-1.311	-1.311	0	%100
4	A2	Z	.757	.757	0	%100
5	A3	X	-.094	-.094	0	%100
6	A3	Z	.054	.054	0	%100
7	A4	X	-1.311	-1.311	0	%100
8	A4	Z	.757	.757	0	%100
9	A5	X	-9.729	-9.729	0	%100
10	A5	Z	5.617	5.617	0	%100
11	A6	X	-9.729	-9.729	0	%100
12	A6	Z	5.617	5.617	0	%100
13	A7	X	-9.729	-9.729	0	%100
14	A7	Z	5.617	5.617	0	%100
15	A8	X	-2.293	-2.293	0	%100
16	A8	Z	1.324	1.324	0	%100
17	A9	X	-2.293	-2.293	0	%100
18	A9	Z	1.324	1.324	0	%100
19	A10	X	-2.293	-2.293	0	%100
20	A10	Z	1.324	1.324	0	%100
21	A11	X	-9.729	-9.729	0	%100
22	A11	Z	5.617	5.617	0	%100
23	A12	X	-9.729	-9.729	0	%100
24	A12	Z	5.617	5.617	0	%100
25	A13	X	-9.729	-9.729	0	%100
26	A13	Z	5.617	5.617	0	%100
27	A14	X	-2.293	-2.293	0	%100
28	A14	Z	1.324	1.324	0	%100
29	A15	X	-2.293	-2.293	0	%100
30	A15	Z	1.324	1.324	0	%100
31	A16	X	-2.293	-2.293	0	%100
32	A16	Z	1.324	1.324	0	%100
33	A17	X	-6.2	-6.2	0	%100
34	A17	Z	3.579	3.579	0	%100
35	A18	X	-6.2	-6.2	0	%100
36	A18	Z	3.579	3.579	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	A19	X	-6.2	-6.2	0 %100
38	A19	Z	3.579	3.579	0 %100
39	A20	X	-6.2	-6.2	0 %100
40	A20	Z	3.579	3.579	0 %100
41	A21	X	-2.693	-2.693	0 %100
42	A21	Z	1.555	1.555	0 %100
43	A22	X	-2.693	-2.693	0 %100
44	A22	Z	1.555	1.555	0 %100
45	A23	X	-8.302	-8.302	0 %100
46	A23	Z	4.793	4.793	0 %100
47	A24	X	-.595	-.595	0 %100
48	A24	Z	.344	.344	0 %100
49	A25	X	-8.302	-8.302	0 %100
50	A25	Z	4.793	4.793	0 %100
51	A26	X	-.595	-.595	0 %100
52	A26	Z	.344	.344	0 %100
53	A27	X	-2.481	-2.481	0 %100
54	A27	Z	1.432	1.432	0 %100
55	A28	X	-2.481	-2.481	0 %100
56	A28	Z	1.432	1.432	0 %100
57	A29	X	-6.687	-6.687	0 %100
58	A29	Z	3.861	3.861	0 %100
59	A30	X	-6.687	-6.687	0 %100
60	A30	Z	3.861	3.861	0 %100
61	A31	X	-12.351	-12.351	0 %100
62	A31	Z	7.131	7.131	0 %100
63	A32	X	-12.351	-12.351	0 %100
64	A32	Z	7.131	7.131	0 %100
65	A33	X	-6.741	-6.741	0 %100
66	A33	Z	3.892	3.892	0 %100
67	A34	X	-6.741	-6.741	0 %100
68	A34	Z	3.892	3.892	0 %100
69	A35	X	-4.239	-4.239	0 %100
70	A35	Z	2.448	2.448	0 %100
71	A36	X	-4.239	-4.239	0 %100
72	A36	Z	2.448	2.448	0 %100
73	MP1A	X	-8.899	-8.899	0 %100
74	MP1A	Z	5.138	5.138	0 %100
75	MP2A	X	-8.899	-8.899	0 %100
76	MP2A	Z	5.138	5.138	0 %100
77	MP3A	X	-8.899	-8.899	0 %100
78	MP3A	Z	5.138	5.138	0 %100
79	MP4A	X	-8.899	-8.899	0 %100
80	MP4A	Z	5.138	5.138	0 %100
81	MP5A	X	-8.899	-8.899	0 %100
82	MP5A	Z	5.138	5.138	0 %100
83	B52	X	-1.154	-1.154	0 %100
84	B52	Z	.666	.666	0 %100
85	B53	X	-.251	-.251	0 %100
86	B53	Z	.145	.145	0 %100
87	B54	X	-1.154	-1.154	0 %100
88	B54	Z	.666	.666	0 %100
89	B55	X	-.251	-.251	0 %100
90	B55	Z	.145	.145	0 %100
91	B56	X	-3.251	-3.251	0 %100
92	B56	Z	1.877	1.877	0 %100
93	B57	X	-3.251	-3.251	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
94	B57	Z	1.877	1.877	0 %100
95	B58	X	-3.251	-3.251	0 %100
96	B58	Z	1.877	1.877	0 %100
97	B59	X	-8.77	-8.77	0 %100
98	B59	Z	5.064	5.064	0 %100
99	B60	X	-8.77	-8.77	0 %100
100	B60	Z	5.064	5.064	0 %100
101	B61	X	-8.77	-8.77	0 %100
102	B61	Z	5.064	5.064	0 %100
103	B62	X	-3.251	-3.251	0 %100
104	B62	Z	1.877	1.877	0 %100
105	B63	X	-3.251	-3.251	0 %100
106	B63	Z	1.877	1.877	0 %100
107	B64	X	-3.251	-3.251	0 %100
108	B64	Z	1.877	1.877	0 %100
109	B65	X	-8.77	-8.77	0 %100
110	B65	Z	5.064	5.064	0 %100
111	B66	X	-8.77	-8.77	0 %100
112	B66	Z	5.064	5.064	0 %100
113	B67	X	-8.77	-8.77	0 %100
114	B67	Z	5.064	5.064	0 %100
115	B68	X	-6.2	-6.2	0 %100
116	B68	Z	3.579	3.579	0 %100
117	B69	X	-6.2	-6.2	0 %100
118	B69	Z	3.579	3.579	0 %100
119	B70	X	-6.2	-6.2	0 %100
120	B70	Z	3.579	3.579	0 %100
121	B71	X	-6.2	-6.2	0 %100
122	B71	Z	3.579	3.579	0 %100
123	B72	X	-1.26	-1.26	0 %100
124	B72	Z	.728	.728	0 %100
125	B73	X	-1.26	-1.26	0 %100
126	B73	Z	.728	.728	0 %100
127	B74	X	-1.588	-1.588	0 %100
128	B74	Z	.917	.917	0 %100
129	B75	X	-7.309	-7.309	0 %100
130	B75	Z	4.22	4.22	0 %100
131	B76	X	-1.588	-1.588	0 %100
132	B76	Z	.917	.917	0 %100
133	B77	X	-7.309	-7.309	0 %100
134	B77	Z	4.22	4.22	0 %100
135	B78	X	-11.079	-11.079	0 %100
136	B78	Z	6.396	6.396	0 %100
137	B79	X	-11.079	-11.079	0 %100
138	B79	Z	6.396	6.396	0 %100
139	B80	X	-6.687	-6.687	0 %100
140	B80	Z	3.861	3.861	0 %100
141	B81	X	-6.687	-6.687	0 %100
142	B81	Z	3.861	3.861	0 %100
143	B82	X	-3.753	-3.753	0 %100
144	B82	Z	2.167	2.167	0 %100
145	B83	X	-3.753	-3.753	0 %100
146	B83	Z	2.167	2.167	0 %100
147	B84	X	-4.562	-4.562	0 %100
148	B84	Z	2.634	2.634	0 %100
149	B85	X	-4.562	-4.562	0 %100
150	B85	Z	2.634	2.634	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
151	B86	X	-6.418	-6.418	0 %100
152	B86	Z	3.706	3.706	0 %100
153	B87	X	-6.418	-6.418	0 %100
154	B87	Z	3.706	3.706	0 %100
155	MP1B	X	-8.899	-8.899	0 %100
156	MP1B	Z	5.138	5.138	0 %100
157	MP2B	X	-8.899	-8.899	0 %100
158	MP2B	Z	5.138	5.138	0 %100
159	MP3B	X	-8.899	-8.899	0 %100
160	MP3B	Z	5.138	5.138	0 %100
161	MP4B	X	-8.899	-8.899	0 %100
162	MP4B	Z	5.138	5.138	0 %100
163	MP5B	X	-8.899	-8.899	0 %100
164	MP5B	Z	5.138	5.138	0 %100
165	C103	X	-.943	-.943	0 %100
166	C103	Z	.544	.544	0 %100
167	C104	X	-.462	-.462	0 %100
168	C104	Z	.267	.267	0 %100
169	C105	X	-.943	-.943	0 %100
170	C105	Z	.544	.544	0 %100
171	C106	X	-.462	-.462	0 %100
172	C106	Z	.267	.267	0 %100
173	C107	X	-4.542	-4.542	0 %100
174	C107	Z	2.623	2.623	0 %100
175	C108	X	-4.542	-4.542	0 %100
176	C108	Z	2.623	2.623	0 %100
177	C109	X	-4.542	-4.542	0 %100
178	C109	Z	2.623	2.623	0 %100
179	C110	X	-7.479	-7.479	0 %100
180	C110	Z	4.318	4.318	0 %100
181	C111	X	-7.479	-7.479	0 %100
182	C111	Z	4.318	4.318	0 %100
183	C112	X	-7.479	-7.479	0 %100
184	C112	Z	4.318	4.318	0 %100
185	C113	X	-4.542	-4.542	0 %100
186	C113	Z	2.623	2.623	0 %100
187	C114	X	-4.542	-4.542	0 %100
188	C114	Z	2.623	2.623	0 %100
189	C115	X	-4.542	-4.542	0 %100
190	C115	Z	2.623	2.623	0 %100
191	C116	X	-7.479	-7.479	0 %100
192	C116	Z	4.318	4.318	0 %100
193	C117	X	-7.479	-7.479	0 %100
194	C117	Z	4.318	4.318	0 %100
195	C118	X	-7.479	-7.479	0 %100
196	C118	Z	4.318	4.318	0 %100
197	C119	X	-6.2	-6.2	0 %100
198	C119	Z	3.579	3.579	0 %100
199	C120	X	-6.2	-6.2	0 %100
200	C120	Z	3.579	3.579	0 %100
201	C121	X	-6.2	-6.2	0 %100
202	C121	Z	3.579	3.579	0 %100
203	C122	X	-6.2	-6.2	0 %100
204	C122	Z	3.579	3.579	0 %100
205	C123	X	-10.448	-10.448	0 %100
206	C123	Z	6.032	6.032	0 %100
207	C124	X	-10.448	-10.448	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
208	C124	Z	6.032	6.032	0	%100
209	C125	X	-2.929	-2.929	0	%100
210	C125	Z	1.691	1.691	0	%100
211	C126	X	-5.973	-5.973	0	%100
212	C126	Z	3.448	3.448	0	%100
213	C127	X	-2.929	-2.929	0	%100
214	C127	Z	1.691	1.691	0	%100
215	C128	X	-5.973	-5.973	0	%100
216	C128	Z	3.448	3.448	0	%100
217	C129	X	-9.365	-9.365	0	%100
218	C129	Z	5.407	5.407	0	%100
219	C130	X	-9.365	-9.365	0	%100
220	C130	Z	5.407	5.407	0	%100
221	C131	X	-6.687	-6.687	0	%100
222	C131	Z	3.861	3.861	0	%100
223	C132	X	-6.687	-6.687	0	%100
224	C132	Z	3.861	3.861	0	%100
225	C133	X	-5.467	-5.467	0	%100
226	C133	Z	3.156	3.156	0	%100
227	C134	X	-5.467	-5.467	0	%100
228	C134	Z	3.156	3.156	0	%100
229	C135	X	-4.997	-4.997	0	%100
230	C135	Z	2.885	2.885	0	%100
231	C136	X	-4.997	-4.997	0	%100
232	C136	Z	2.885	2.885	0	%100
233	C137	X	-5.985	-5.985	0	%100
234	C137	Z	3.455	3.455	0	%100
235	C138	X	-5.985	-5.985	0	%100
236	C138	Z	3.455	3.455	0	%100
237	MP1C	X	-8.899	-8.899	0	%100
238	MP1C	Z	5.138	5.138	0	%100
239	MP2C	X	-8.899	-8.899	0	%100
240	MP2C	Z	5.138	5.138	0	%100
241	MP3C	X	-8.899	-8.899	0	%100
242	MP3C	Z	5.138	5.138	0	%100
243	MP4C	X	-8.899	-8.899	0	%100
244	MP4C	Z	5.138	5.138	0	%100
245	MP5C	X	-8.899	-8.899	0	%100
246	MP5C	Z	5.138	5.138	0	%100
247	M154	X	-2.859	-2.859	0	%100
248	M154	Z	1.65	1.65	0	%100
249	M155	X	-4.314	-4.314	0	%100
250	M155	Z	2.491	2.491	0	%100
251	M156	X	-8.779	-8.779	0	%100
252	M156	Z	5.068	5.068	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-0.811	-0.811	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	-0.811	-0.811	0	%100
4	A2	Z	0	0	0	%100
5	A3	X	-0.811	-0.811	0	%100
6	A3	Z	0	0	0	%100
7	A4	X	-0.811	-0.811	0	%100
8	A4	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	A5	X	-6.941	-6.941	0	%100
10	A5	Z	0	0	0	%100
11	A6	X	-6.941	-6.941	0	%100
12	A6	Z	0	0	0	%100
13	A7	X	-6.941	-6.941	0	%100
14	A7	Z	0	0	0	%100
15	A8	X	-6.941	-6.941	0	%100
16	A8	Z	0	0	0	%100
17	A9	X	-6.941	-6.941	0	%100
18	A9	Z	0	0	0	%100
19	A10	X	-6.941	-6.941	0	%100
20	A10	Z	0	0	0	%100
21	A11	X	-6.941	-6.941	0	%100
22	A11	Z	0	0	0	%100
23	A12	X	-6.941	-6.941	0	%100
24	A12	Z	0	0	0	%100
25	A13	X	-6.941	-6.941	0	%100
26	A13	Z	0	0	0	%100
27	A14	X	-6.941	-6.941	0	%100
28	A14	Z	0	0	0	%100
29	A15	X	-6.941	-6.941	0	%100
30	A15	Z	0	0	0	%100
31	A16	X	-6.941	-6.941	0	%100
32	A16	Z	0	0	0	%100
33	A17	X	-7.159	-7.159	0	%100
34	A17	Z	0	0	0	%100
35	A18	X	-7.159	-7.159	0	%100
36	A18	Z	0	0	0	%100
37	A19	X	-7.159	-7.159	0	%100
38	A19	Z	0	0	0	%100
39	A20	X	-7.159	-7.159	0	%100
40	A20	Z	0	0	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	0	0	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	0	0	0	%100
45	A23	X	-5.136	-5.136	0	%100
46	A23	Z	0	0	0	%100
47	A24	X	-5.136	-5.136	0	%100
48	A24	Z	0	0	0	%100
49	A25	X	-5.136	-5.136	0	%100
50	A25	Z	0	0	0	%100
51	A26	X	-5.136	-5.136	0	%100
52	A26	Z	0	0	0	%100
53	A27	X	-8.563	-8.563	0	%100
54	A27	Z	0	0	0	%100
55	A28	X	-8.563	-8.563	0	%100
56	A28	Z	0	0	0	%100
57	A29	X	-7.722	-7.722	0	%100
58	A29	Z	0	0	0	%100
59	A30	X	-7.722	-7.722	0	%100
60	A30	Z	0	0	0	%100
61	A31	X	-8.563	-8.563	0	%100
62	A31	Z	0	0	0	%100
63	A32	X	-8.563	-8.563	0	%100
64	A32	Z	0	0	0	%100
65	A33	X	-6.339	-6.339	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
66	A33	Z	0	0	0	%100
67	A34	X	-6.339	-6.339	0	%100
68	A34	Z	0	0	0	%100
69	A35	X	-6.339	-6.339	0	%100
70	A35	Z	0	0	0	%100
71	A36	X	-6.339	-6.339	0	%100
72	A36	Z	0	0	0	%100
73	MP1A	X	-10.276	-10.276	0	%100
74	MP1A	Z	0	0	0	%100
75	MP2A	X	-10.276	-10.276	0	%100
76	MP2A	Z	0	0	0	%100
77	MP3A	X	-10.276	-10.276	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-10.276	-10.276	0	%100
80	MP4A	Z	0	0	0	%100
81	MP5A	X	-10.276	-10.276	0	%100
82	MP5A	Z	0	0	0	%100
83	B52	X	-1.61	-1.61	0	%100
84	B52	Z	0	0	0	%100
85	B53	X	-0.012	-0.012	0	%100
86	B53	Z	0	0	0	%100
87	B54	X	-1.61	-1.61	0	%100
88	B54	Z	0	0	0	%100
89	B55	X	-0.012	-0.012	0	%100
90	B55	Z	0	0	0	%100
91	B56	X	-2.058	-2.058	0	%100
92	B56	Z	0	0	0	%100
93	B57	X	-2.058	-2.058	0	%100
94	B57	Z	0	0	0	%100
95	B58	X	-2.058	-2.058	0	%100
96	B58	Z	0	0	0	%100
97	B59	X	-11.823	-11.823	0	%100
98	B59	Z	0	0	0	%100
99	B60	X	-11.823	-11.823	0	%100
100	B60	Z	0	0	0	%100
101	B61	X	-11.823	-11.823	0	%100
102	B61	Z	0	0	0	%100
103	B62	X	-2.058	-2.058	0	%100
104	B62	Z	0	0	0	%100
105	B63	X	-2.058	-2.058	0	%100
106	B63	Z	0	0	0	%100
107	B64	X	-2.058	-2.058	0	%100
108	B64	Z	0	0	0	%100
109	B65	X	-11.823	-11.823	0	%100
110	B65	Z	0	0	0	%100
111	B66	X	-11.823	-11.823	0	%100
112	B66	Z	0	0	0	%100
113	B67	X	-11.823	-11.823	0	%100
114	B67	Z	0	0	0	%100
115	B68	X	-7.159	-7.159	0	%100
116	B68	Z	0	0	0	%100
117	B69	X	-7.159	-7.159	0	%100
118	B69	Z	0	0	0	%100
119	B70	X	-7.159	-7.159	0	%100
120	B70	Z	0	0	0	%100
121	B71	X	-7.159	-7.159	0	%100
122	B71	Z	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
123	B72	X	-7.299	-7.299	0 %100
124	B72	Z	0	0	0 %100
125	B73	X	-7.299	-7.299	0 %100
126	B73	Z	0	0	0 %100
127	B74	X	-.078	-.078	0 %100
128	B74	Z	0	0	0 %100
129	B75	X	-10.198	-10.198	0 %100
130	B75	Z	0	0	0 %100
131	B76	X	-.078	-.078	0 %100
132	B76	Z	0	0	0 %100
133	B77	X	-10.198	-10.198	0 %100
134	B77	Z	0	0	0 %100
135	B78	X	-15.043	-15.043	0 %100
136	B78	Z	0	0	0 %100
137	B79	X	-15.043	-15.043	0 %100
138	B79	Z	0	0	0 %100
139	B80	X	-7.722	-7.722	0 %100
140	B80	Z	0	0	0 %100
141	B81	X	-7.722	-7.722	0 %100
142	B81	Z	0	0	0 %100
143	B82	X	-2.083	-2.083	0 %100
144	B82	Z	0	0	0 %100
145	B83	X	-2.083	-2.083	0 %100
146	B83	Z	0	0	0 %100
147	B84	X	-4.698	-4.698	0 %100
148	B84	Z	0	0	0 %100
149	B85	X	-4.698	-4.698	0 %100
150	B85	Z	0	0	0 %100
151	B86	X	-7.982	-7.982	0 %100
152	B86	Z	0	0	0 %100
153	B87	X	-7.982	-7.982	0 %100
154	B87	Z	0	0	0 %100
155	MP1B	X	-10.276	-10.276	0 %100
156	MP1B	Z	0	0	0 %100
157	MP2B	X	-10.276	-10.276	0 %100
158	MP2B	Z	0	0	0 %100
159	MP3B	X	-10.276	-10.276	0 %100
160	MP3B	Z	0	0	0 %100
161	MP4B	X	-10.276	-10.276	0 %100
162	MP4B	Z	0	0	0 %100
163	MP5B	X	-10.276	-10.276	0 %100
164	MP5B	Z	0	0	0 %100
165	C103	X	-.29	-.29	0 %100
166	C103	Z	0	0	0 %100
167	C104	X	-1.333	-1.333	0 %100
168	C104	Z	0	0	0 %100
169	C105	X	-.29	-.29	0 %100
170	C105	Z	0	0	0 %100
171	C106	X	-1.333	-1.333	0 %100
172	C106	Z	0	0	0 %100
173	C107	X	-10.127	-10.127	0 %100
174	C107	Z	0	0	0 %100
175	C108	X	-10.127	-10.127	0 %100
176	C108	Z	0	0	0 %100
177	C109	X	-10.127	-10.127	0 %100
178	C109	Z	0	0	0 %100
179	C110	X	-3.754	-3.754	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
180	C110	Z	0	0	0	%100
181	C111	X	-3.754	-3.754	0	%100
182	C111	Z	0	0	0	%100
183	C112	X	-3.754	-3.754	0	%100
184	C112	Z	0	0	0	%100
185	C113	X	-10.127	-10.127	0	%100
186	C113	Z	0	0	0	%100
187	C114	X	-10.127	-10.127	0	%100
188	C114	Z	0	0	0	%100
189	C115	X	-10.127	-10.127	0	%100
190	C115	Z	0	0	0	%100
191	C116	X	-3.754	-3.754	0	%100
192	C116	Z	0	0	0	%100
193	C117	X	-3.754	-3.754	0	%100
194	C117	Z	0	0	0	%100
195	C118	X	-3.754	-3.754	0	%100
196	C118	Z	0	0	0	%100
197	C119	X	-7.159	-7.159	0	%100
198	C119	Z	0	0	0	%100
199	C120	X	-7.159	-7.159	0	%100
200	C120	Z	0	0	0	%100
201	C121	X	-7.159	-7.159	0	%100
202	C121	Z	0	0	0	%100
203	C122	X	-7.159	-7.159	0	%100
204	C122	Z	0	0	0	%100
205	C123	X	-10.984	-10.984	0	%100
206	C123	Z	0	0	0	%100
207	C124	X	-10.984	-10.984	0	%100
208	C124	Z	0	0	0	%100
209	C125	X	-8.441	-8.441	0	%100
210	C125	Z	0	0	0	%100
211	C126	X	-1.836	-1.836	0	%100
212	C126	Z	0	0	0	%100
213	C127	X	-8.441	-8.441	0	%100
214	C127	Z	0	0	0	%100
215	C128	X	-1.836	-1.836	0	%100
216	C128	Z	0	0	0	%100
217	C129	X	-4.333	-4.333	0	%100
218	C129	Z	0	0	0	%100
219	C130	X	-4.333	-4.333	0	%100
220	C130	Z	0	0	0	%100
221	C131	X	-7.722	-7.722	0	%100
222	C131	Z	0	0	0	%100
223	C132	X	-7.722	-7.722	0	%100
224	C132	Z	0	0	0	%100
225	C133	X	-12.793	-12.793	0	%100
226	C133	Z	0	0	0	%100
227	C134	X	-12.793	-12.793	0	%100
228	C134	Z	0	0	0	%100
229	C135	X	-7.412	-7.412	0	%100
230	C135	Z	0	0	0	%100
231	C136	X	-7.412	-7.412	0	%100
232	C136	Z	0	0	0	%100
233	C137	X	-5.268	-5.268	0	%100
234	C137	Z	0	0	0	%100
235	C138	X	-5.268	-5.268	0	%100
236	C138	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
237	MP1C	X	-10.276	-10.276	0	%100
238	MP1C	Z	0	0	0	%100
239	MP2C	X	-10.276	-10.276	0	%100
240	MP2C	Z	0	0	0	%100
241	MP3C	X	-10.276	-10.276	0	%100
242	MP3C	Z	0	0	0	%100
243	MP4C	X	-10.276	-10.276	0	%100
244	MP4C	Z	0	0	0	%100
245	MP5C	X	-10.276	-10.276	0	%100
246	MP5C	Z	0	0	0	%100
247	M154	X	-0.009	-0.009	0	%100
248	M154	Z	0	0	0	%100
249	M155	X	-12.024	-12.024	0	%100
250	M155	Z	0	0	0	%100
251	M156	X	-2.975	-2.975	0	%100
252	M156	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-1.311	-1.311	0	%100
2	A1	Z	-.757	-.757	0	%100
3	A2	X	-.094	-.094	0	%100
4	A2	Z	-.054	-.054	0	%100
5	A3	X	-1.311	-1.311	0	%100
6	A3	Z	-.757	-.757	0	%100
7	A4	X	-.094	-.094	0	%100
8	A4	Z	-.054	-.054	0	%100
9	A5	X	-2.293	-2.293	0	%100
10	A5	Z	-1.324	-1.324	0	%100
11	A6	X	-2.293	-2.293	0	%100
12	A6	Z	-1.324	-1.324	0	%100
13	A7	X	-2.293	-2.293	0	%100
14	A7	Z	-1.324	-1.324	0	%100
15	A8	X	-9.729	-9.729	0	%100
16	A8	Z	-5.617	-5.617	0	%100
17	A9	X	-9.729	-9.729	0	%100
18	A9	Z	-5.617	-5.617	0	%100
19	A10	X	-9.729	-9.729	0	%100
20	A10	Z	-5.617	-5.617	0	%100
21	A11	X	-2.293	-2.293	0	%100
22	A11	Z	-1.324	-1.324	0	%100
23	A12	X	-2.293	-2.293	0	%100
24	A12	Z	-1.324	-1.324	0	%100
25	A13	X	-2.293	-2.293	0	%100
26	A13	Z	-1.324	-1.324	0	%100
27	A14	X	-9.729	-9.729	0	%100
28	A14	Z	-5.617	-5.617	0	%100
29	A15	X	-9.729	-9.729	0	%100
30	A15	Z	-5.617	-5.617	0	%100
31	A16	X	-9.729	-9.729	0	%100
32	A16	Z	-5.617	-5.617	0	%100
33	A17	X	-6.2	-6.2	0	%100
34	A17	Z	-3.579	-3.579	0	%100
35	A18	X	-6.2	-6.2	0	%100
36	A18	Z	-3.579	-3.579	0	%100
37	A19	X	-6.2	-6.2	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	A19	Z	-3.579	-3.579	0	%100
39	A20	X	-6.2	-6.2	0	%100
40	A20	Z	-3.579	-3.579	0	%100
41	A21	X	-2.693	-2.693	0	%100
42	A21	Z	-1.555	-1.555	0	%100
43	A22	X	-2.693	-2.693	0	%100
44	A22	Z	-1.555	-1.555	0	%100
45	A23	X	-.595	-.595	0	%100
46	A23	Z	-.344	-.344	0	%100
47	A24	X	-8.302	-8.302	0	%100
48	A24	Z	-4.793	-4.793	0	%100
49	A25	X	-.595	-.595	0	%100
50	A25	Z	-.344	-.344	0	%100
51	A26	X	-8.302	-8.302	0	%100
52	A26	Z	-4.793	-4.793	0	%100
53	A27	X	-12.351	-12.351	0	%100
54	A27	Z	-7.131	-7.131	0	%100
55	A28	X	-12.351	-12.351	0	%100
56	A28	Z	-7.131	-7.131	0	%100
57	A29	X	-6.687	-6.687	0	%100
58	A29	Z	-3.861	-3.861	0	%100
59	A30	X	-6.687	-6.687	0	%100
60	A30	Z	-3.861	-3.861	0	%100
61	A31	X	-2.481	-2.481	0	%100
62	A31	Z	-1.432	-1.432	0	%100
63	A32	X	-2.481	-2.481	0	%100
64	A32	Z	-1.432	-1.432	0	%100
65	A33	X	-4.239	-4.239	0	%100
66	A33	Z	-2.448	-2.448	0	%100
67	A34	X	-4.239	-4.239	0	%100
68	A34	Z	-2.448	-2.448	0	%100
69	A35	X	-6.741	-6.741	0	%100
70	A35	Z	-3.892	-3.892	0	%100
71	A36	X	-6.741	-6.741	0	%100
72	A36	Z	-3.892	-3.892	0	%100
73	MP1A	X	-8.899	-8.899	0	%100
74	MP1A	Z	-5.138	-5.138	0	%100
75	MP2A	X	-8.899	-8.899	0	%100
76	MP2A	Z	-5.138	-5.138	0	%100
77	MP3A	X	-8.899	-8.899	0	%100
78	MP3A	Z	-5.138	-5.138	0	%100
79	MP4A	X	-8.899	-8.899	0	%100
80	MP4A	Z	-5.138	-5.138	0	%100
81	MP5A	X	-8.899	-8.899	0	%100
82	MP5A	Z	-5.138	-5.138	0	%100
83	B52	X	-.943	-.943	0	%100
84	B52	Z	-.544	-.544	0	%100
85	B53	X	-.462	-.462	0	%100
86	B53	Z	-.267	-.267	0	%100
87	B54	X	-.943	-.943	0	%100
88	B54	Z	-.544	-.544	0	%100
89	B55	X	-.462	-.462	0	%100
90	B55	Z	-.267	-.267	0	%100
91	B56	X	-4.542	-4.542	0	%100
92	B56	Z	-2.623	-2.623	0	%100
93	B57	X	-4.542	-4.542	0	%100
94	B57	Z	-2.623	-2.623	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
95	B58	X	-4.542	-4.542	0 %100
96	B58	Z	-2.623	-2.623	0 %100
97	B59	X	-7.479	-7.479	0 %100
98	B59	Z	-4.318	-4.318	0 %100
99	B60	X	-7.479	-7.479	0 %100
100	B60	Z	-4.318	-4.318	0 %100
101	B61	X	-7.479	-7.479	0 %100
102	B61	Z	-4.318	-4.318	0 %100
103	B62	X	-4.542	-4.542	0 %100
104	B62	Z	-2.623	-2.623	0 %100
105	B63	X	-4.542	-4.542	0 %100
106	B63	Z	-2.623	-2.623	0 %100
107	B64	X	-4.542	-4.542	0 %100
108	B64	Z	-2.623	-2.623	0 %100
109	B65	X	-7.479	-7.479	0 %100
110	B65	Z	-4.318	-4.318	0 %100
111	B66	X	-7.479	-7.479	0 %100
112	B66	Z	-4.318	-4.318	0 %100
113	B67	X	-7.479	-7.479	0 %100
114	B67	Z	-4.318	-4.318	0 %100
115	B68	X	-6.2	-6.2	0 %100
116	B68	Z	-3.579	-3.579	0 %100
117	B69	X	-6.2	-6.2	0 %100
118	B69	Z	-3.579	-3.579	0 %100
119	B70	X	-6.2	-6.2	0 %100
120	B70	Z	-3.579	-3.579	0 %100
121	B71	X	-6.2	-6.2	0 %100
122	B71	Z	-3.579	-3.579	0 %100
123	B72	X	-10.448	-10.448	0 %100
124	B72	Z	-6.032	-6.032	0 %100
125	B73	X	-10.448	-10.448	0 %100
126	B73	Z	-6.032	-6.032	0 %100
127	B74	X	-2.929	-2.929	0 %100
128	B74	Z	-1.691	-1.691	0 %100
129	B75	X	-5.973	-5.973	0 %100
130	B75	Z	-3.448	-3.448	0 %100
131	B76	X	-2.929	-2.929	0 %100
132	B76	Z	-1.691	-1.691	0 %100
133	B77	X	-5.973	-5.973	0 %100
134	B77	Z	-3.448	-3.448	0 %100
135	B78	X	-9.365	-9.365	0 %100
136	B78	Z	-5.407	-5.407	0 %100
137	B79	X	-9.365	-9.365	0 %100
138	B79	Z	-5.407	-5.407	0 %100
139	B80	X	-6.687	-6.687	0 %100
140	B80	Z	-3.861	-3.861	0 %100
141	B81	X	-6.687	-6.687	0 %100
142	B81	Z	-3.861	-3.861	0 %100
143	B82	X	-5.467	-5.467	0 %100
144	B82	Z	-3.156	-3.156	0 %100
145	B83	X	-5.467	-5.467	0 %100
146	B83	Z	-3.156	-3.156	0 %100
147	B84	X	-4.997	-4.997	0 %100
148	B84	Z	-2.885	-2.885	0 %100
149	B85	X	-4.997	-4.997	0 %100
150	B85	Z	-2.885	-2.885	0 %100
151	B86	X	-5.985	-5.985	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
152	B86	Z	-3.455	-3.455	0 %100
153	B87	X	-5.985	-5.985	0 %100
154	B87	Z	-3.455	-3.455	0 %100
155	MP1B	X	-8.899	-8.899	0 %100
156	MP1B	Z	-5.138	-5.138	0 %100
157	MP2B	X	-8.899	-8.899	0 %100
158	MP2B	Z	-5.138	-5.138	0 %100
159	MP3B	X	-8.899	-8.899	0 %100
160	MP3B	Z	-5.138	-5.138	0 %100
161	MP4B	X	-8.899	-8.899	0 %100
162	MP4B	Z	-5.138	-5.138	0 %100
163	MP5B	X	-8.899	-8.899	0 %100
164	MP5B	Z	-5.138	-5.138	0 %100
165	C103	X	-.011	-.011	0 %100
166	C103	Z	-.006	-.006	0 %100
167	C104	X	-1.394	-1.394	0 %100
168	C104	Z	-.805	-.805	0 %100
169	C105	X	-.011	-.011	0 %100
170	C105	Z	-.006	-.006	0 %100
171	C106	X	-1.394	-1.394	0 %100
172	C106	Z	-.805	-.805	0 %100
173	C107	X	-10.239	-10.239	0 %100
174	C107	Z	-5.911	-5.911	0 %100
175	C108	X	-10.239	-10.239	0 %100
176	C108	Z	-5.911	-5.911	0 %100
177	C109	X	-10.239	-10.239	0 %100
178	C109	Z	-5.911	-5.911	0 %100
179	C110	X	-1.783	-1.783	0 %100
180	C110	Z	-1.029	-1.029	0 %100
181	C111	X	-1.783	-1.783	0 %100
182	C111	Z	-1.029	-1.029	0 %100
183	C112	X	-1.783	-1.783	0 %100
184	C112	Z	-1.029	-1.029	0 %100
185	C113	X	-10.239	-10.239	0 %100
186	C113	Z	-5.911	-5.911	0 %100
187	C114	X	-10.239	-10.239	0 %100
188	C114	Z	-5.911	-5.911	0 %100
189	C115	X	-10.239	-10.239	0 %100
190	C115	Z	-5.911	-5.911	0 %100
191	C116	X	-1.783	-1.783	0 %100
192	C116	Z	-1.029	-1.029	0 %100
193	C117	X	-1.783	-1.783	0 %100
194	C117	Z	-1.029	-1.029	0 %100
195	C118	X	-1.783	-1.783	0 %100
196	C118	Z	-1.029	-1.029	0 %100
197	C119	X	-6.2	-6.2	0 %100
198	C119	Z	-3.579	-3.579	0 %100
199	C120	X	-6.2	-6.2	0 %100
200	C120	Z	-3.579	-3.579	0 %100
201	C121	X	-6.2	-6.2	0 %100
202	C121	Z	-3.579	-3.579	0 %100
203	C122	X	-6.2	-6.2	0 %100
204	C122	Z	-3.579	-3.579	0 %100
205	C123	X	-4.451	-4.451	0 %100
206	C123	Z	-2.57	-2.57	0 %100
207	C124	X	-4.451	-4.451	0 %100
208	C124	Z	-2.57	-2.57	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
209	C125	X	-8.831	-8.831	0 %100
210	C125	Z	-5.099	-5.099	0 %100
211	C126	X	-.067	-.067	0 %100
212	C126	Z	-.039	-.039	0 %100
213	C127	X	-8.831	-8.831	0 %100
214	C127	Z	-5.099	-5.099	0 %100
215	C128	X	-.067	-.067	0 %100
216	C128	Z	-.039	-.039	0 %100
217	C129	X	-1.804	-1.804	0 %100
218	C129	Z	-1.041	-1.041	0 %100
219	C130	X	-1.804	-1.804	0 %100
220	C130	Z	-1.041	-1.041	0 %100
221	C131	X	-6.687	-6.687	0 %100
222	C131	Z	-3.861	-3.861	0 %100
223	C132	X	-6.687	-6.687	0 %100
224	C132	Z	-3.861	-3.861	0 %100
225	C133	X	-13.028	-13.028	0 %100
226	C133	Z	-7.522	-7.522	0 %100
227	C134	X	-13.028	-13.028	0 %100
228	C134	Z	-7.522	-7.522	0 %100
229	C135	X	-6.912	-6.912	0 %100
230	C135	Z	-3.991	-3.991	0 %100
231	C136	X	-6.912	-6.912	0 %100
232	C136	Z	-3.991	-3.991	0 %100
233	C137	X	-4.068	-4.068	0 %100
234	C137	Z	-2.349	-2.349	0 %100
235	C138	X	-4.068	-4.068	0 %100
236	C138	Z	-2.349	-2.349	0 %100
237	MP1C	X	-8.899	-8.899	0 %100
238	MP1C	Z	-5.138	-5.138	0 %100
239	MP2C	X	-8.899	-8.899	0 %100
240	MP2C	Z	-5.138	-5.138	0 %100
241	MP3C	X	-8.899	-8.899	0 %100
242	MP3C	Z	-5.138	-5.138	0 %100
243	MP4C	X	-8.899	-8.899	0 %100
244	MP4C	Z	-5.138	-5.138	0 %100
245	MP5C	X	-8.899	-8.899	0 %100
246	MP5C	Z	-5.138	-5.138	0 %100
247	M154	X	-3.385	-3.385	0 %100
248	M154	Z	-1.954	-1.954	0 %100
249	M155	X	-12.335	-12.335	0 %100
250	M155	Z	-7.122	-7.122	0 %100
251	M156	X	-.033	-.033	0 %100
252	M156	Z	-.019	-.019	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.757	-.757	0 %100
2	A1	Z	-1.311	-1.311	0 %100
3	A2	X	-.054	-.054	0 %100
4	A2	Z	-.094	-.094	0 %100
5	A3	X	-.757	-.757	0 %100
6	A3	Z	-1.311	-1.311	0 %100
7	A4	X	-.054	-.054	0 %100
8	A4	Z	-.094	-.094	0 %100
9	A5	X	-1.324	-1.324	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	A5	Z	-2.293	-2.293	0 %100
11	A6	X	-1.324	-1.324	0 %100
12	A6	Z	-2.293	-2.293	0 %100
13	A7	X	-1.324	-1.324	0 %100
14	A7	Z	-2.293	-2.293	0 %100
15	A8	X	-5.617	-5.617	0 %100
16	A8	Z	-9.729	-9.729	0 %100
17	A9	X	-5.617	-5.617	0 %100
18	A9	Z	-9.729	-9.729	0 %100
19	A10	X	-5.617	-5.617	0 %100
20	A10	Z	-9.729	-9.729	0 %100
21	A11	X	-1.324	-1.324	0 %100
22	A11	Z	-2.293	-2.293	0 %100
23	A12	X	-1.324	-1.324	0 %100
24	A12	Z	-2.293	-2.293	0 %100
25	A13	X	-1.324	-1.324	0 %100
26	A13	Z	-2.293	-2.293	0 %100
27	A14	X	-5.617	-5.617	0 %100
28	A14	Z	-9.729	-9.729	0 %100
29	A15	X	-5.617	-5.617	0 %100
30	A15	Z	-9.729	-9.729	0 %100
31	A16	X	-5.617	-5.617	0 %100
32	A16	Z	-9.729	-9.729	0 %100
33	A17	X	-3.579	-3.579	0 %100
34	A17	Z	-6.2	-6.2	0 %100
35	A18	X	-3.579	-3.579	0 %100
36	A18	Z	-6.2	-6.2	0 %100
37	A19	X	-3.579	-3.579	0 %100
38	A19	Z	-6.2	-6.2	0 %100
39	A20	X	-3.579	-3.579	0 %100
40	A20	Z	-6.2	-6.2	0 %100
41	A21	X	-4.665	-4.665	0 %100
42	A21	Z	-8.079	-8.079	0 %100
43	A22	X	-4.665	-4.665	0 %100
44	A22	Z	-8.079	-8.079	0 %100
45	A23	X	-.345	-.345	0 %100
46	A23	Z	-.597	-.597	0 %100
47	A24	X	-4.794	-4.794	0 %100
48	A24	Z	-8.304	-8.304	0 %100
49	A25	X	-.345	-.345	0 %100
50	A25	Z	-.597	-.597	0 %100
51	A26	X	-4.794	-4.794	0 %100
52	A26	Z	-8.304	-8.304	0 %100
53	A27	X	-7.131	-7.131	0 %100
54	A27	Z	-12.351	-12.351	0 %100
55	A28	X	-7.131	-7.131	0 %100
56	A28	Z	-12.351	-12.351	0 %100
57	A29	X	-3.861	-3.861	0 %100
58	A29	Z	-6.687	-6.687	0 %100
59	A30	X	-3.861	-3.861	0 %100
60	A30	Z	-6.687	-6.687	0 %100
61	A31	X	-1.432	-1.432	0 %100
62	A31	Z	-2.481	-2.481	0 %100
63	A32	X	-1.432	-1.432	0 %100
64	A32	Z	-2.481	-2.481	0 %100
65	A33	X	-2.448	-2.448	0 %100
66	A33	Z	-4.24	-4.24	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
67	A34	X	-2.448	-2.448	0 %100
68	A34	Z	-4.24	-4.24	0 %100
69	A35	X	-3.892	-3.892	0 %100
70	A35	Z	-6.741	-6.741	0 %100
71	A36	X	-3.892	-3.892	0 %100
72	A36	Z	-6.741	-6.741	0 %100
73	MP1A	X	-5.138	-5.138	0 %100
74	MP1A	Z	-8.899	-8.899	0 %100
75	MP2A	X	-5.138	-5.138	0 %100
76	MP2A	Z	-8.899	-8.899	0 %100
77	MP3A	X	-5.138	-5.138	0 %100
78	MP3A	Z	-8.899	-8.899	0 %100
79	MP4A	X	-5.138	-5.138	0 %100
80	MP4A	Z	-8.899	-8.899	0 %100
81	MP5A	X	-5.138	-5.138	0 %100
82	MP5A	Z	-8.899	-8.899	0 %100
83	B52	X	-.145	-.145	0 %100
84	B52	Z	-.251	-.251	0 %100
85	B53	X	-.666	-.666	0 %100
86	B53	Z	-1.154	-1.154	0 %100
87	B54	X	-.145	-.145	0 %100
88	B54	Z	-.251	-.251	0 %100
89	B55	X	-.666	-.666	0 %100
90	B55	Z	-1.154	-1.154	0 %100
91	B56	X	-5.064	-5.064	0 %100
92	B56	Z	-8.77	-8.77	0 %100
93	B57	X	-5.064	-5.064	0 %100
94	B57	Z	-8.77	-8.77	0 %100
95	B58	X	-5.064	-5.064	0 %100
96	B58	Z	-8.77	-8.77	0 %100
97	B59	X	-1.877	-1.877	0 %100
98	B59	Z	-3.251	-3.251	0 %100
99	B60	X	-1.877	-1.877	0 %100
100	B60	Z	-3.251	-3.251	0 %100
101	B61	X	-1.877	-1.877	0 %100
102	B61	Z	-3.251	-3.251	0 %100
103	B62	X	-5.064	-5.064	0 %100
104	B62	Z	-8.77	-8.77	0 %100
105	B63	X	-5.064	-5.064	0 %100
106	B63	Z	-8.77	-8.77	0 %100
107	B64	X	-5.064	-5.064	0 %100
108	B64	Z	-8.77	-8.77	0 %100
109	B65	X	-1.877	-1.877	0 %100
110	B65	Z	-3.251	-3.251	0 %100
111	B66	X	-1.877	-1.877	0 %100
112	B66	Z	-3.251	-3.251	0 %100
113	B67	X	-1.877	-1.877	0 %100
114	B67	Z	-3.251	-3.251	0 %100
115	B68	X	-3.579	-3.579	0 %100
116	B68	Z	-6.2	-6.2	0 %100
117	B69	X	-3.579	-3.579	0 %100
118	B69	Z	-6.2	-6.2	0 %100
119	B70	X	-3.579	-3.579	0 %100
120	B70	Z	-6.2	-6.2	0 %100
121	B71	X	-3.579	-3.579	0 %100
122	B71	Z	-6.2	-6.2	0 %100
123	B72	X	-5.492	-5.492	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
124	B72	Z	-9.512	-9.512	0 %100
125	B73	X	-5.492	-5.492	0 %100
126	B73	Z	-9.512	-9.512	0 %100
127	B74	X	-4.221	-4.221	0 %100
128	B74	Z	-7.311	-7.311	0 %100
129	B75	X	-.918	-.918	0 %100
130	B75	Z	-1.59	-1.59	0 %100
131	B76	X	-4.221	-4.221	0 %100
132	B76	Z	-7.311	-7.311	0 %100
133	B77	X	-.918	-.918	0 %100
134	B77	Z	-1.59	-1.59	0 %100
135	B78	X	-2.167	-2.167	0 %100
136	B78	Z	-3.753	-3.753	0 %100
137	B79	X	-2.167	-2.167	0 %100
138	B79	Z	-3.753	-3.753	0 %100
139	B80	X	-3.861	-3.861	0 %100
140	B80	Z	-6.687	-6.687	0 %100
141	B81	X	-3.861	-3.861	0 %100
142	B81	Z	-6.687	-6.687	0 %100
143	B82	X	-6.396	-6.396	0 %100
144	B82	Z	-11.079	-11.079	0 %100
145	B83	X	-6.396	-6.396	0 %100
146	B83	Z	-11.079	-11.079	0 %100
147	B84	X	-3.706	-3.706	0 %100
148	B84	Z	-6.419	-6.419	0 %100
149	B85	X	-3.706	-3.706	0 %100
150	B85	Z	-6.419	-6.419	0 %100
151	B86	X	-2.634	-2.634	0 %100
152	B86	Z	-4.562	-4.562	0 %100
153	B87	X	-2.634	-2.634	0 %100
154	B87	Z	-4.562	-4.562	0 %100
155	MP1B	X	-5.138	-5.138	0 %100
156	MP1B	Z	-8.899	-8.899	0 %100
157	MP2B	X	-5.138	-5.138	0 %100
158	MP2B	Z	-8.899	-8.899	0 %100
159	MP3B	X	-5.138	-5.138	0 %100
160	MP3B	Z	-8.899	-8.899	0 %100
161	MP4B	X	-5.138	-5.138	0 %100
162	MP4B	Z	-8.899	-8.899	0 %100
163	MP5B	X	-5.138	-5.138	0 %100
164	MP5B	Z	-8.899	-8.899	0 %100
165	C103	X	-.267	-.267	0 %100
166	C103	Z	-.462	-.462	0 %100
167	C104	X	-.544	-.544	0 %100
168	C104	Z	-.943	-.943	0 %100
169	C105	X	-.267	-.267	0 %100
170	C105	Z	-.462	-.462	0 %100
171	C106	X	-.544	-.544	0 %100
172	C106	Z	-.943	-.943	0 %100
173	C107	X	-4.318	-4.318	0 %100
174	C107	Z	-7.479	-7.479	0 %100
175	C108	X	-4.318	-4.318	0 %100
176	C108	Z	-7.479	-7.479	0 %100
177	C109	X	-4.318	-4.318	0 %100
178	C109	Z	-7.479	-7.479	0 %100
179	C110	X	-2.623	-2.623	0 %100
180	C110	Z	-4.542	-4.542	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
181	C111	X	-2.623	-2.623	0 %100
182	C111	Z	-4.542	-4.542	0 %100
183	C112	X	-2.623	-2.623	0 %100
184	C112	Z	-4.542	-4.542	0 %100
185	C113	X	-4.318	-4.318	0 %100
186	C113	Z	-7.479	-7.479	0 %100
187	C114	X	-4.318	-4.318	0 %100
188	C114	Z	-7.479	-7.479	0 %100
189	C115	X	-4.318	-4.318	0 %100
190	C115	Z	-7.479	-7.479	0 %100
191	C116	X	-2.623	-2.623	0 %100
192	C116	Z	-4.542	-4.542	0 %100
193	C117	X	-2.623	-2.623	0 %100
194	C117	Z	-4.542	-4.542	0 %100
195	C118	X	-2.623	-2.623	0 %100
196	C118	Z	-4.542	-4.542	0 %100
197	C119	X	-3.579	-3.579	0 %100
198	C119	Z	-6.2	-6.2	0 %100
199	C120	X	-3.579	-3.579	0 %100
200	C120	Z	-6.2	-6.2	0 %100
201	C121	X	-3.579	-3.579	0 %100
202	C121	Z	-6.2	-6.2	0 %100
203	C122	X	-3.579	-3.579	0 %100
204	C122	Z	-6.2	-6.2	0 %100
205	C123	X	-.188	-.188	0 %100
206	C123	Z	-.325	-.325	0 %100
207	C124	X	-.188	-.188	0 %100
208	C124	Z	-.325	-.325	0 %100
209	C125	X	-3.447	-3.447	0 %100
210	C125	Z	-5.97	-5.97	0 %100
211	C126	X	-1.69	-1.69	0 %100
212	C126	Z	-2.926	-2.926	0 %100
213	C127	X	-3.447	-3.447	0 %100
214	C127	Z	-5.97	-5.97	0 %100
215	C128	X	-1.69	-1.69	0 %100
216	C128	Z	-2.926	-2.926	0 %100
217	C129	X	-3.156	-3.156	0 %100
218	C129	Z	-5.467	-5.467	0 %100
219	C130	X	-3.156	-3.156	0 %100
220	C130	Z	-5.467	-5.467	0 %100
221	C131	X	-3.861	-3.861	0 %100
222	C131	Z	-6.687	-6.687	0 %100
223	C132	X	-3.861	-3.861	0 %100
224	C132	Z	-6.687	-6.687	0 %100
225	C133	X	-5.407	-5.407	0 %100
226	C133	Z	-9.365	-9.365	0 %100
227	C134	X	-5.407	-5.407	0 %100
228	C134	Z	-9.365	-9.365	0 %100
229	C135	X	-3.455	-3.455	0 %100
230	C135	Z	-5.984	-5.984	0 %100
231	C136	X	-3.455	-3.455	0 %100
232	C136	Z	-5.984	-5.984	0 %100
233	C137	X	-2.884	-2.884	0 %100
234	C137	Z	-4.996	-4.996	0 %100
235	C138	X	-2.884	-2.884	0 %100
236	C138	Z	-4.996	-4.996	0 %100
237	MP1C	X	-5.138	-5.138	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
238	MP1C	Z	-8.899	-8.899	0	%100
239	MP2C	X	-5.138	-5.138	0	%100
240	MP2C	Z	-8.899	-8.899	0	%100
241	MP3C	X	-5.138	-5.138	0	%100
242	MP3C	Z	-8.899	-8.899	0	%100
243	MP4C	X	-5.138	-5.138	0	%100
244	MP4C	Z	-8.899	-8.899	0	%100
245	MP5C	X	-5.138	-5.138	0	%100
246	MP5C	Z	-8.899	-8.899	0	%100
247	M154	X	-5.551	-5.551	0	%100
248	M154	Z	-9.614	-9.614	0	%100
249	M155	X	-4.71	-4.71	0	%100
250	M155	Z	-8.158	-8.158	0	%100
251	M156	X	-2.133	-2.133	0	%100
252	M156	Z	-3.694	-3.694	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	-0.911	-0.911	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-0.911	-0.911	0	%100
5	A3	X	0	0	0	%100
6	A3	Z	-0.911	-0.911	0	%100
7	A4	X	0	0	0	%100
8	A4	Z	-0.911	-0.911	0	%100
9	A5	X	0	0	0	%100
10	A5	Z	-2.747	-2.747	0	%100
11	A6	X	0	0	0	%100
12	A6	Z	-2.747	-2.747	0	%100
13	A7	X	0	0	0	%100
14	A7	Z	-2.747	-2.747	0	%100
15	A8	X	0	0	0	%100
16	A8	Z	-2.747	-2.747	0	%100
17	A9	X	0	0	0	%100
18	A9	Z	-2.747	-2.747	0	%100
19	A10	X	0	0	0	%100
20	A10	Z	-2.747	-2.747	0	%100
21	A11	X	0	0	0	%100
22	A11	Z	-2.747	-2.747	0	%100
23	A12	X	0	0	0	%100
24	A12	Z	-2.747	-2.747	0	%100
25	A13	X	0	0	0	%100
26	A13	Z	-2.747	-2.747	0	%100
27	A14	X	0	0	0	%100
28	A14	Z	-2.747	-2.747	0	%100
29	A15	X	0	0	0	%100
30	A15	Z	-2.747	-2.747	0	%100
31	A16	X	0	0	0	%100
32	A16	Z	-2.747	-2.747	0	%100
33	A17	X	0	0	0	%100
34	A17	Z	-3.14	-3.14	0	%100
35	A18	X	0	0	0	%100
36	A18	Z	-3.14	-3.14	0	%100
37	A19	X	0	0	0	%100
38	A19	Z	-3.14	-3.14	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
39	A20	X	0	0	0	%100
40	A20	Z	-3.14	-3.14	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	-4.804	-4.804	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	-4.804	-4.804	0	%100
45	A23	X	0	0	0	%100
46	A23	Z	-2.096	-2.096	0	%100
47	A24	X	0	0	0	%100
48	A24	Z	-2.096	-2.096	0	%100
49	A25	X	0	0	0	%100
50	A25	Z	-2.096	-2.096	0	%100
51	A26	X	0	0	0	%100
52	A26	Z	-2.096	-2.096	0	%100
53	A27	X	0	0	0	%100
54	A27	Z	-3.03	-3.03	0	%100
55	A28	X	0	0	0	%100
56	A28	Z	-3.03	-3.03	0	%100
57	A29	X	0	0	0	%100
58	A29	Z	-3.144	-3.144	0	%100
59	A30	X	0	0	0	%100
60	A30	Z	-3.144	-3.144	0	%100
61	A31	X	0	0	0	%100
62	A31	Z	-3.03	-3.03	0	%100
63	A32	X	0	0	0	%100
64	A32	Z	-3.03	-3.03	0	%100
65	A33	X	0	0	0	%100
66	A33	Z	-2.72	-2.72	0	%100
67	A34	X	0	0	0	%100
68	A34	Z	-2.72	-2.72	0	%100
69	A35	X	0	0	0	%100
70	A35	Z	-2.72	-2.72	0	%100
71	A36	X	0	0	0	%100
72	A36	Z	-2.72	-2.72	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	-4.125	-4.125	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-4.376	-4.376	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-4.209	-4.209	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-4.125	-4.125	0	%100
81	MP5A	X	0	0	0	%100
82	MP5A	Z	-4.125	-4.125	0	%100
83	B52	X	0	0	0	%100
84	B52	Z	-.014	-.014	0	%100
85	B53	X	0	0	0	%100
86	B53	Z	-1.808	-1.808	0	%100
87	B54	X	0	0	0	%100
88	B54	Z	-.014	-.014	0	%100
89	B55	X	0	0	0	%100
90	B55	Z	-1.808	-1.808	0	%100
91	B56	X	0	0	0	%100
92	B56	Z	-3.597	-3.597	0	%100
93	B57	X	0	0	0	%100
94	B57	Z	-3.597	-3.597	0	%100
95	B58	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
96	B58	Z	-3.597	-3.597	0 %100
97	B59	X	0	0	0 %100
98	B59	Z	-1.898	-1.898	0 %100
99	B60	X	0	0	0 %100
100	B60	Z	-1.898	-1.898	0 %100
101	B61	X	0	0	0 %100
102	B61	Z	-1.898	-1.898	0 %100
103	B62	X	0	0	0 %100
104	B62	Z	-3.597	-3.597	0 %100
105	B63	X	0	0	0 %100
106	B63	Z	-3.597	-3.597	0 %100
107	B64	X	0	0	0 %100
108	B64	Z	-3.597	-3.597	0 %100
109	B65	X	0	0	0 %100
110	B65	Z	-1.898	-1.898	0 %100
111	B66	X	0	0	0 %100
112	B66	Z	-1.898	-1.898	0 %100
113	B67	X	0	0	0 %100
114	B67	Z	-1.898	-1.898	0 %100
115	B68	X	0	0	0 %100
116	B68	Z	-3.14	-3.14	0 %100
117	B69	X	0	0	0 %100
118	B69	Z	-3.14	-3.14	0 %100
119	B70	X	0	0	0 %100
120	B70	Z	-3.14	-3.14	0 %100
121	B71	X	0	0	0 %100
122	B71	Z	-3.14	-3.14	0 %100
123	B72	X	0	0	0 %100
124	B72	Z	-1.985	-1.985	0 %100
125	B73	X	0	0	0 %100
126	B73	Z	-1.985	-1.985	0 %100
127	B74	X	0	0	0 %100
128	B74	Z	-4.159	-4.159	0 %100
129	B75	X	0	0	0 %100
130	B75	Z	-.032	-.032	0 %100
131	B76	X	0	0	0 %100
132	B76	Z	-4.159	-4.159	0 %100
133	B77	X	0	0	0 %100
134	B77	Z	-.032	-.032	0 %100
135	B78	X	0	0	0 %100
136	B78	Z	-1.902	-1.902	0 %100
137	B79	X	0	0	0 %100
138	B79	Z	-1.902	-1.902	0 %100
139	B80	X	0	0	0 %100
140	B80	Z	-3.144	-3.144	0 %100
141	B81	X	0	0	0 %100
142	B81	Z	-3.144	-3.144	0 %100
143	B82	X	0	0	0 %100
144	B82	Z	-4.157	-4.157	0 %100
145	B83	X	0	0	0 %100
146	B83	Z	-4.157	-4.157	0 %100
147	B84	X	0	0	0 %100
148	B84	Z	-3.425	-3.425	0 %100
149	B85	X	0	0	0 %100
150	B85	Z	-3.425	-3.425	0 %100
151	B86	X	0	0	0 %100
152	B86	Z	-2.015	-2.015	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
153	B87	X	0	0	%100
154	B87	Z	-2.015	-2.015	%100
155	MP1B	X	0	0	%100
156	MP1B	Z	-4.125	-4.125	%100
157	MP2B	X	0	0	%100
158	MP2B	Z	-4.376	-4.376	%100
159	MP3B	X	0	0	%100
160	MP3B	Z	-4.209	-4.209	%100
161	MP4B	X	0	0	%100
162	MP4B	Z	-4.125	-4.125	%100
163	MP5B	X	0	0	%100
164	MP5B	Z	-4.125	-4.125	%100
165	C103	X	0	0	%100
166	C103	Z	-1.497	-1.497	%100
167	C104	X	0	0	%100
168	C104	Z	-.325	-.325	%100
169	C105	X	0	0	%100
170	C105	Z	-1.497	-1.497	%100
171	C106	X	0	0	%100
172	C106	Z	-.325	-.325	%100
173	C107	X	0	0	%100
174	C107	Z	-2.193	-2.193	%100
175	C108	X	0	0	%100
176	C108	Z	-2.193	-2.193	%100
177	C109	X	0	0	%100
178	C109	Z	-2.193	-2.193	%100
179	C110	X	0	0	%100
180	C110	Z	-3.302	-3.302	%100
181	C111	X	0	0	%100
182	C111	Z	-3.302	-3.302	%100
183	C112	X	0	0	%100
184	C112	Z	-3.302	-3.302	%100
185	C113	X	0	0	%100
186	C113	Z	-2.193	-2.193	%100
187	C114	X	0	0	%100
188	C114	Z	-2.193	-2.193	%100
189	C115	X	0	0	%100
190	C115	Z	-2.193	-2.193	%100
191	C116	X	0	0	%100
192	C116	Z	-3.302	-3.302	%100
193	C117	X	0	0	%100
194	C117	Z	-3.302	-3.302	%100
195	C118	X	0	0	%100
196	C118	Z	-3.302	-3.302	%100
197	C119	X	0	0	%100
198	C119	Z	-3.14	-3.14	%100
199	C120	X	0	0	%100
200	C120	Z	-3.14	-3.14	%100
201	C121	X	0	0	%100
202	C121	Z	-3.14	-3.14	%100
203	C122	X	0	0	%100
204	C122	Z	-3.14	-3.14	%100
205	C123	X	0	0	%100
206	C123	Z	-.562	-.562	%100
207	C124	X	0	0	%100
208	C124	Z	-.562	-.562	%100
209	C125	X	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
210	C125	Z	- .748	- .748	0	%100
211	C126	X	0	0	0	%100
212	C126	Z	-3.442	-3.442	0	%100
213	C127	X	0	0	0	%100
214	C127	Z	- .748	- .748	0	%100
215	C128	X	0	0	0	%100
216	C128	Z	-3.442	-3.442	0	%100
217	C129	X	0	0	0	%100
218	C129	Z	-3.765	-3.765	0	%100
219	C130	X	0	0	0	%100
220	C130	Z	-3.765	-3.765	0	%100
221	C131	X	0	0	0	%100
222	C131	Z	-3.144	-3.144	0	%100
223	C132	X	0	0	0	%100
224	C132	Z	-3.144	-3.144	0	%100
225	C133	X	0	0	0	%100
226	C133	Z	-2.294	-2.294	0	%100
227	C134	X	0	0	0	%100
228	C134	Z	-2.294	-2.294	0	%100
229	C135	X	0	0	0	%100
230	C135	Z	-2.26	-2.26	0	%100
231	C136	X	0	0	0	%100
232	C136	Z	-2.26	-2.26	0	%100
233	C137	X	0	0	0	%100
234	C137	Z	-3.18	-3.18	0	%100
235	C138	X	0	0	0	%100
236	C138	Z	-3.18	-3.18	0	%100
237	MP1C	X	0	0	0	%100
238	MP1C	Z	-4.125	-4.125	0	%100
239	MP2C	X	0	0	0	%100
240	MP2C	Z	-4.376	-4.376	0	%100
241	MP3C	X	0	0	0	%100
242	MP3C	Z	-4.209	-4.209	0	%100
243	MP4C	X	0	0	0	%100
244	MP4C	Z	-4.125	-4.125	0	%100
245	MP5C	X	0	0	0	%100
246	MP5C	Z	-4.125	-4.125	0	%100
247	M154	X	0	0	0	%100
248	M154	Z	-5.271	-5.271	0	%100
249	M155	X	0	0	0	%100
250	M155	Z	-.871	-.871	0	%100
251	M156	X	0	0	0	%100
252	M156	Z	-4.185	-4.185	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.061	.061	0	%100
2	A1	Z	-.106	-.106	0	%100
3	A2	X	.85	.85	0	%100
4	A2	Z	-1.472	-1.472	0	%100
5	A3	X	.061	.061	0	%100
6	A3	Z	-.106	-.106	0	%100
7	A4	X	.85	.85	0	%100
8	A4	Z	-1.472	-1.472	0	%100
9	A5	X	1.747	1.747	0	%100
10	A5	Z	-3.026	-3.026	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
11	A6	X	1.747	1.747	0 %100
12	A6	Z	-3.026	-3.026	0 %100
13	A7	X	1.747	1.747	0 %100
14	A7	Z	-3.026	-3.026	0 %100
15	A8	X	1	1	0 %100
16	A8	Z	-1.732	-1.732	0 %100
17	A9	X	1	1	0 %100
18	A9	Z	-1.732	-1.732	0 %100
19	A10	X	1	1	0 %100
20	A10	Z	-1.732	-1.732	0 %100
21	A11	X	1.747	1.747	0 %100
22	A11	Z	-3.026	-3.026	0 %100
23	A12	X	1.747	1.747	0 %100
24	A12	Z	-3.026	-3.026	0 %100
25	A13	X	1.747	1.747	0 %100
26	A13	Z	-3.026	-3.026	0 %100
27	A14	X	1	1	0 %100
28	A14	Z	-1.732	-1.732	0 %100
29	A15	X	1	1	0 %100
30	A15	Z	-1.732	-1.732	0 %100
31	A16	X	1	1	0 %100
32	A16	Z	-1.732	-1.732	0 %100
33	A17	X	1.57	1.57	0 %100
34	A17	Z	-2.72	-2.72	0 %100
35	A18	X	1.57	1.57	0 %100
36	A18	Z	-2.72	-2.72	0 %100
37	A19	X	1.57	1.57	0 %100
38	A19	Z	-2.72	-2.72	0 %100
39	A20	X	1.57	1.57	0 %100
40	A20	Z	-2.72	-2.72	0 %100
41	A21	X	1.801	1.801	0 %100
42	A21	Z	-3.12	-3.12	0 %100
43	A22	X	1.801	1.801	0 %100
44	A22	Z	-3.12	-3.12	0 %100
45	A23	X	1.955	1.955	0 %100
46	A23	Z	-3.387	-3.387	0 %100
47	A24	X	.141	.141	0 %100
48	A24	Z	-.243	-.243	0 %100
49	A25	X	1.955	1.955	0 %100
50	A25	Z	-3.387	-3.387	0 %100
51	A26	X	.141	.141	0 %100
52	A26	Z	-.243	-.243	0 %100
53	A27	X	1.019	1.019	0 %100
54	A27	Z	-1.765	-1.765	0 %100
55	A28	X	1.019	1.019	0 %100
56	A28	Z	-1.765	-1.765	0 %100
57	A29	X	1.572	1.572	0 %100
58	A29	Z	-2.723	-2.723	0 %100
59	A30	X	1.572	1.572	0 %100
60	A30	Z	-2.723	-2.723	0 %100
61	A31	X	2.01	2.01	0 %100
62	A31	Z	-3.482	-3.482	0 %100
63	A32	X	2.01	2.01	0 %100
64	A32	Z	-3.482	-3.482	0 %100
65	A33	X	1.67	1.67	0 %100
66	A33	Z	-2.892	-2.892	0 %100
67	A34	X	1.67	1.67	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
68	A34	Z	-2.892	-2.892	0 %100
69	A35	X	1.05	1.05	0 %100
70	A35	Z	-1.819	-1.819	0 %100
71	A36	X	1.05	1.05	0 %100
72	A36	Z	-1.819	-1.819	0 %100
73	MP1A	X	2.063	2.063	0 %100
74	MP1A	Z	-3.572	-3.572	0 %100
75	MP2A	X	2.188	2.188	0 %100
76	MP2A	Z	-3.79	-3.79	0 %100
77	MP3A	X	2.104	2.104	0 %100
78	MP3A	Z	-3.645	-3.645	0 %100
79	MP4A	X	2.063	2.063	0 %100
80	MP4A	Z	-3.572	-3.572	0 %100
81	MP5A	X	2.063	2.063	0 %100
82	MP5A	Z	-3.572	-3.572	0 %100
83	B52	X	.3	.3	0 %100
84	B52	Z	-.519	-.519	0 %100
85	B53	X	.611	.611	0 %100
86	B53	Z	-1.059	-1.059	0 %100
87	B54	X	.3	.3	0 %100
88	B54	Z	-.519	-.519	0 %100
89	B55	X	.611	.611	0 %100
90	B55	Z	-1.059	-1.059	0 %100
91	B56	X	1.521	1.521	0 %100
92	B56	Z	-2.635	-2.635	0 %100
93	B57	X	1.521	1.521	0 %100
94	B57	Z	-2.635	-2.635	0 %100
95	B58	X	1.521	1.521	0 %100
96	B58	Z	-2.635	-2.635	0 %100
97	B59	X	1.226	1.226	0 %100
98	B59	Z	-2.124	-2.124	0 %100
99	B60	X	1.226	1.226	0 %100
100	B60	Z	-2.124	-2.124	0 %100
101	B61	X	1.226	1.226	0 %100
102	B61	Z	-2.124	-2.124	0 %100
103	B62	X	1.521	1.521	0 %100
104	B62	Z	-2.635	-2.635	0 %100
105	B63	X	1.521	1.521	0 %100
106	B63	Z	-2.635	-2.635	0 %100
107	B64	X	1.521	1.521	0 %100
108	B64	Z	-2.635	-2.635	0 %100
109	B65	X	1.226	1.226	0 %100
110	B65	Z	-2.124	-2.124	0 %100
111	B66	X	1.226	1.226	0 %100
112	B66	Z	-2.124	-2.124	0 %100
113	B67	X	1.226	1.226	0 %100
114	B67	Z	-2.124	-2.124	0 %100
115	B68	X	1.57	1.57	0 %100
116	B68	Z	-2.72	-2.72	0 %100
117	B69	X	1.57	1.57	0 %100
118	B69	Z	-2.72	-2.72	0 %100
119	B70	X	1.57	1.57	0 %100
120	B70	Z	-2.72	-2.72	0 %100
121	B71	X	1.57	1.57	0 %100
122	B71	Z	-2.72	-2.72	0 %100
123	B72	X	.072	.072	0 %100
124	B72	Z	-.125	-.125	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
125	B73	X	.072	.072	0 %100
126	B73	Z	-.125	-.125	0 %100
127	B74	X	1.406	1.406	0 %100
128	B74	Z	-2.435	-2.435	0 %100
129	B75	X	.689	.689	0 %100
130	B75	Z	-1.194	-1.194	0 %100
131	B76	X	1.406	1.406	0 %100
132	B76	Z	-2.435	-2.435	0 %100
133	B77	X	.689	.689	0 %100
134	B77	Z	-1.194	-1.194	0 %100
135	B78	X	1.319	1.319	0 %100
136	B78	Z	-2.285	-2.285	0 %100
137	B79	X	1.319	1.319	0 %100
138	B79	Z	-2.285	-2.285	0 %100
139	B80	X	1.572	1.572	0 %100
140	B80	Z	-2.723	-2.723	0 %100
141	B81	X	1.572	1.572	0 %100
142	B81	Z	-2.723	-2.723	0 %100
143	B82	X	1.711	1.711	0 %100
144	B82	Z	-2.963	-2.963	0 %100
145	B83	X	1.711	1.711	0 %100
146	B83	Z	-2.963	-2.963	0 %100
147	B84	X	1.482	1.482	0 %100
148	B84	Z	-2.567	-2.567	0 %100
149	B85	X	1.482	1.482	0 %100
150	B85	Z	-2.567	-2.567	0 %100
151	B86	X	1.238	1.238	0 %100
152	B86	Z	-2.144	-2.144	0 %100
153	B87	X	1.238	1.238	0 %100
154	B87	Z	-2.144	-2.144	0 %100
155	MP1B	X	2.063	2.063	0 %100
156	MP1B	Z	-3.572	-3.572	0 %100
157	MP2B	X	2.188	2.188	0 %100
158	MP2B	Z	-3.79	-3.79	0 %100
159	MP3B	X	2.104	2.104	0 %100
160	MP3B	Z	-3.645	-3.645	0 %100
161	MP4B	X	2.063	2.063	0 %100
162	MP4B	Z	-3.572	-3.572	0 %100
163	MP5B	X	2.063	2.063	0 %100
164	MP5B	Z	-3.572	-3.572	0 %100
165	C103	X	.904	.904	0 %100
166	C103	Z	-1.566	-1.566	0 %100
167	C104	X	.007	.007	0 %100
168	C104	Z	-.012	-.012	0 %100
169	C105	X	.904	.904	0 %100
170	C105	Z	-1.566	-1.566	0 %100
171	C106	X	.007	.007	0 %100
172	C106	Z	-.012	-.012	0 %100
173	C107	X	.949	.949	0 %100
174	C107	Z	-1.644	-1.644	0 %100
175	C108	X	.949	.949	0 %100
176	C108	Z	-1.644	-1.644	0 %100
177	C109	X	.949	.949	0 %100
178	C109	Z	-1.644	-1.644	0 %100
179	C110	X	1.798	1.798	0 %100
180	C110	Z	-3.115	-3.115	0 %100
181	C111	X	1.798	1.798	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
182	C111	Z	-3.115	-3.115	0 %100
183	C112	X	1.798	1.798	0 %100
184	C112	Z	-3.115	-3.115	0 %100
185	C113	X	.949	.949	0 %100
186	C113	Z	-1.644	-1.644	0 %100
187	C114	X	.949	.949	0 %100
188	C114	Z	-1.644	-1.644	0 %100
189	C115	X	.949	.949	0 %100
190	C115	Z	-1.644	-1.644	0 %100
191	C116	X	1.798	1.798	0 %100
192	C116	Z	-3.115	-3.115	0 %100
193	C117	X	1.798	1.798	0 %100
194	C117	Z	-3.115	-3.115	0 %100
195	C118	X	1.798	1.798	0 %100
196	C118	Z	-3.115	-3.115	0 %100
197	C119	X	1.57	1.57	0 %100
198	C119	Z	-2.72	-2.72	0 %100
199	C120	X	1.57	1.57	0 %100
200	C120	Z	-2.72	-2.72	0 %100
201	C121	X	1.57	1.57	0 %100
202	C121	Z	-2.72	-2.72	0 %100
203	C122	X	1.57	1.57	0 %100
204	C122	Z	-2.72	-2.72	0 %100
205	C123	X	1.409	1.409	0 %100
206	C123	Z	-2.441	-2.441	0 %100
207	C124	X	1.409	1.409	0 %100
208	C124	Z	-2.441	-2.441	0 %100
209	C125	X	.016	.016	0 %100
210	C125	Z	-.028	-.028	0 %100
211	C126	X	2.08	2.08	0 %100
212	C126	Z	-3.602	-3.602	0 %100
213	C127	X	.016	.016	0 %100
214	C127	Z	-.028	-.028	0 %100
215	C128	X	2.08	2.08	0 %100
216	C128	Z	-3.602	-3.602	0 %100
217	C129	X	2.078	2.078	0 %100
218	C129	Z	-3.6	-3.6	0 %100
219	C130	X	2.078	2.078	0 %100
220	C130	Z	-3.6	-3.6	0 %100
221	C131	X	1.572	1.572	0 %100
222	C131	Z	-2.723	-2.723	0 %100
223	C132	X	1.572	1.572	0 %100
224	C132	Z	-2.723	-2.723	0 %100
225	C133	X	.951	.951	0 %100
226	C133	Z	-1.647	-1.647	0 %100
227	C134	X	.951	.951	0 %100
228	C134	Z	-1.647	-1.647	0 %100
229	C135	X	1.008	1.008	0 %100
230	C135	Z	-1.745	-1.745	0 %100
231	C136	X	1.008	1.008	0 %100
232	C136	Z	-1.745	-1.745	0 %100
233	C137	X	1.712	1.712	0 %100
234	C137	Z	-2.966	-2.966	0 %100
235	C138	X	1.712	1.712	0 %100
236	C138	Z	-2.966	-2.966	0 %100
237	MP1C	X	2.063	2.063	0 %100
238	MP1C	Z	-3.572	-3.572	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
239	MP2C	X	2.188	2.188	0	%100
240	MP2C	Z	-3.79	-3.79	0	%100
241	MP3C	X	2.104	2.104	0	%100
242	MP3C	Z	-3.645	-3.645	0	%100
243	MP4C	X	2.063	2.063	0	%100
244	MP4C	Z	-3.572	-3.572	0	%100
245	MP5C	X	2.063	2.063	0	%100
246	MP5C	Z	-3.572	-3.572	0	%100
247	M154	X	1.921	1.921	0	%100
248	M154	Z	-3.328	-3.328	0	%100
249	M155	X	.029	.029	0	%100
250	M155	Z	-.05	-.05	0	%100
251	M156	X	2.63	2.63	0	%100
252	M156	Z	-4.555	-4.555	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.106	.106	0	%100
2	A1	Z	-.061	-.061	0	%100
3	A2	X	1.472	1.472	0	%100
4	A2	Z	-.85	-.85	0	%100
5	A3	X	.106	.106	0	%100
6	A3	Z	-.061	-.061	0	%100
7	A4	X	1.472	1.472	0	%100
8	A4	Z	-.85	-.85	0	%100
9	A5	X	3.026	3.026	0	%100
10	A5	Z	-1.747	-1.747	0	%100
11	A6	X	3.026	3.026	0	%100
12	A6	Z	-1.747	-1.747	0	%100
13	A7	X	3.026	3.026	0	%100
14	A7	Z	-1.747	-1.747	0	%100
15	A8	X	1.732	1.732	0	%100
16	A8	Z	-1	-1	0	%100
17	A9	X	1.732	1.732	0	%100
18	A9	Z	-1	-1	0	%100
19	A10	X	1.732	1.732	0	%100
20	A10	Z	-1	-1	0	%100
21	A11	X	3.026	3.026	0	%100
22	A11	Z	-1.747	-1.747	0	%100
23	A12	X	3.026	3.026	0	%100
24	A12	Z	-1.747	-1.747	0	%100
25	A13	X	3.026	3.026	0	%100
26	A13	Z	-1.747	-1.747	0	%100
27	A14	X	1.732	1.732	0	%100
28	A14	Z	-1	-1	0	%100
29	A15	X	1.732	1.732	0	%100
30	A15	Z	-1	-1	0	%100
31	A16	X	1.732	1.732	0	%100
32	A16	Z	-1	-1	0	%100
33	A17	X	2.72	2.72	0	%100
34	A17	Z	-1.57	-1.57	0	%100
35	A18	X	2.72	2.72	0	%100
36	A18	Z	-1.57	-1.57	0	%100
37	A19	X	2.72	2.72	0	%100
38	A19	Z	-1.57	-1.57	0	%100
39	A20	X	2.72	2.72	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	A20	Z	-1.57	-1.57	0 %100
41	A21	X	1.04	1.04	0 %100
42	A21	Z	-.6	-.6	0 %100
43	A22	X	1.04	1.04	0 %100
44	A22	Z	-.6	-.6	0 %100
45	A23	X	3.386	3.386	0 %100
46	A23	Z	-1.955	-1.955	0 %100
47	A24	X	.243	.243	0 %100
48	A24	Z	-.14	-.14	0 %100
49	A25	X	3.386	3.386	0 %100
50	A25	Z	-1.955	-1.955	0 %100
51	A26	X	.243	.243	0 %100
52	A26	Z	-.14	-.14	0 %100
53	A27	X	1.765	1.765	0 %100
54	A27	Z	-1.019	-1.019	0 %100
55	A28	X	1.765	1.765	0 %100
56	A28	Z	-1.019	-1.019	0 %100
57	A29	X	2.723	2.723	0 %100
58	A29	Z	-1.572	-1.572	0 %100
59	A30	X	2.723	2.723	0 %100
60	A30	Z	-1.572	-1.572	0 %100
61	A31	X	3.482	3.482	0 %100
62	A31	Z	-2.01	-2.01	0 %100
63	A32	X	3.482	3.482	0 %100
64	A32	Z	-2.01	-2.01	0 %100
65	A33	X	2.892	2.892	0 %100
66	A33	Z	-1.67	-1.67	0 %100
67	A34	X	2.892	2.892	0 %100
68	A34	Z	-1.67	-1.67	0 %100
69	A35	X	1.819	1.819	0 %100
70	A35	Z	-1.05	-1.05	0 %100
71	A36	X	1.819	1.819	0 %100
72	A36	Z	-1.05	-1.05	0 %100
73	MP1A	X	3.572	3.572	0 %100
74	MP1A	Z	-2.063	-2.063	0 %100
75	MP2A	X	3.79	3.79	0 %100
76	MP2A	Z	-2.188	-2.188	0 %100
77	MP3A	X	3.645	3.645	0 %100
78	MP3A	Z	-2.104	-2.104	0 %100
79	MP4A	X	3.572	3.572	0 %100
80	MP4A	Z	-2.063	-2.063	0 %100
81	MP5A	X	3.572	3.572	0 %100
82	MP5A	Z	-2.063	-2.063	0 %100
83	B52	X	1.296	1.296	0 %100
84	B52	Z	-.748	-.748	0 %100
85	B53	X	.282	.282	0 %100
86	B53	Z	-.163	-.163	0 %100
87	B54	X	1.296	1.296	0 %100
88	B54	Z	-.748	-.748	0 %100
89	B55	X	.282	.282	0 %100
90	B55	Z	-.163	-.163	0 %100
91	B56	X	1.899	1.899	0 %100
92	B56	Z	-1.096	-1.096	0 %100
93	B57	X	1.899	1.899	0 %100
94	B57	Z	-1.096	-1.096	0 %100
95	B58	X	1.899	1.899	0 %100
96	B58	Z	-1.096	-1.096	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	B59	X	2.859	2.859	0	%100
98	B59	Z	-1.651	-1.651	0	%100
99	B60	X	2.859	2.859	0	%100
100	B60	Z	-1.651	-1.651	0	%100
101	B61	X	2.859	2.859	0	%100
102	B61	Z	-1.651	-1.651	0	%100
103	B62	X	1.899	1.899	0	%100
104	B62	Z	-1.096	-1.096	0	%100
105	B63	X	1.899	1.899	0	%100
106	B63	Z	-1.096	-1.096	0	%100
107	B64	X	1.899	1.899	0	%100
108	B64	Z	-1.096	-1.096	0	%100
109	B65	X	2.859	2.859	0	%100
110	B65	Z	-1.651	-1.651	0	%100
111	B66	X	2.859	2.859	0	%100
112	B66	Z	-1.651	-1.651	0	%100
113	B67	X	2.859	2.859	0	%100
114	B67	Z	-1.651	-1.651	0	%100
115	B68	X	2.72	2.72	0	%100
116	B68	Z	-1.57	-1.57	0	%100
117	B69	X	2.72	2.72	0	%100
118	B69	Z	-1.57	-1.57	0	%100
119	B70	X	2.72	2.72	0	%100
120	B70	Z	-1.57	-1.57	0	%100
121	B71	X	2.72	2.72	0	%100
122	B71	Z	-1.57	-1.57	0	%100
123	B72	X	.487	.487	0	%100
124	B72	Z	-.281	-.281	0	%100
125	B73	X	.487	.487	0	%100
126	B73	Z	-.281	-.281	0	%100
127	B74	X	.648	.648	0	%100
128	B74	Z	-.374	-.374	0	%100
129	B75	X	2.981	2.981	0	%100
130	B75	Z	-1.721	-1.721	0	%100
131	B76	X	.648	.648	0	%100
132	B76	Z	-.374	-.374	0	%100
133	B77	X	2.981	2.981	0	%100
134	B77	Z	-1.721	-1.721	0	%100
135	B78	X	3.261	3.261	0	%100
136	B78	Z	-1.883	-1.883	0	%100
137	B79	X	3.261	3.261	0	%100
138	B79	Z	-1.883	-1.883	0	%100
139	B80	X	2.723	2.723	0	%100
140	B80	Z	-1.572	-1.572	0	%100
141	B81	X	2.723	2.723	0	%100
142	B81	Z	-1.572	-1.572	0	%100
143	B82	X	1.986	1.986	0	%100
144	B82	Z	-1.147	-1.147	0	%100
145	B83	X	1.986	1.986	0	%100
146	B83	Z	-1.147	-1.147	0	%100
147	B84	X	1.957	1.957	0	%100
148	B84	Z	-1.13	-1.13	0	%100
149	B85	X	1.957	1.957	0	%100
150	B85	Z	-1.13	-1.13	0	%100
151	B86	X	2.754	2.754	0	%100
152	B86	Z	-1.59	-1.59	0	%100
153	B87	X	2.754	2.754	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
154	B87	Z	-1.59	-1.59	0 %100
155	MP1B	X	3.572	3.572	0 %100
156	MP1B	Z	-2.063	-2.063	0 %100
157	MP2B	X	3.79	3.79	0 %100
158	MP2B	Z	-2.188	-2.188	0 %100
159	MP3B	X	3.645	3.645	0 %100
160	MP3B	Z	-2.104	-2.104	0 %100
161	MP4B	X	3.572	3.572	0 %100
162	MP4B	Z	-2.063	-2.063	0 %100
163	MP5B	X	3.572	3.572	0 %100
164	MP5B	Z	-2.063	-2.063	0 %100
165	C103	X	1.059	1.059	0 %100
166	C103	Z	-.611	-.611	0 %100
167	C104	X	.519	.519	0 %100
168	C104	Z	-.3	-.3	0 %100
169	C105	X	1.059	1.059	0 %100
170	C105	Z	-.611	-.611	0 %100
171	C106	X	.519	.519	0 %100
172	C106	Z	-.3	-.3	0 %100
173	C107	X	2.124	2.124	0 %100
174	C107	Z	-1.226	-1.226	0 %100
175	C108	X	2.124	2.124	0 %100
176	C108	Z	-1.226	-1.226	0 %100
177	C109	X	2.124	2.124	0 %100
178	C109	Z	-1.226	-1.226	0 %100
179	C110	X	2.635	2.635	0 %100
180	C110	Z	-1.521	-1.521	0 %100
181	C111	X	2.635	2.635	0 %100
182	C111	Z	-1.521	-1.521	0 %100
183	C112	X	2.635	2.635	0 %100
184	C112	Z	-1.521	-1.521	0 %100
185	C113	X	2.124	2.124	0 %100
186	C113	Z	-1.226	-1.226	0 %100
187	C114	X	2.124	2.124	0 %100
188	C114	Z	-1.226	-1.226	0 %100
189	C115	X	2.124	2.124	0 %100
190	C115	Z	-1.226	-1.226	0 %100
191	C116	X	2.635	2.635	0 %100
192	C116	Z	-1.521	-1.521	0 %100
193	C117	X	2.635	2.635	0 %100
194	C117	Z	-1.521	-1.521	0 %100
195	C118	X	2.635	2.635	0 %100
196	C118	Z	-1.521	-1.521	0 %100
197	C119	X	2.72	2.72	0 %100
198	C119	Z	-1.57	-1.57	0 %100
199	C120	X	2.72	2.72	0 %100
200	C120	Z	-1.57	-1.57	0 %100
201	C121	X	2.72	2.72	0 %100
202	C121	Z	-1.57	-1.57	0 %100
203	C122	X	2.72	2.72	0 %100
204	C122	Z	-1.57	-1.57	0 %100
205	C123	X	4.035	4.035	0 %100
206	C123	Z	-2.329	-2.329	0 %100
207	C124	X	4.035	4.035	0 %100
208	C124	Z	-2.329	-2.329	0 %100
209	C125	X	1.195	1.195	0 %100
210	C125	Z	-.69	-.69	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
211	C126	X	2.436	2.436	0 %100
212	C126	Z	-1.407	-1.407	0 %100
213	C127	X	1.195	1.195	0 %100
214	C127	Z	-.69	-.69	0 %100
215	C128	X	2.436	2.436	0 %100
216	C128	Z	-1.407	-1.407	0 %100
217	C129	X	2.963	2.963	0 %100
218	C129	Z	-1.711	-1.711	0 %100
219	C130	X	2.963	2.963	0 %100
220	C130	Z	-1.711	-1.711	0 %100
221	C131	X	2.723	2.723	0 %100
222	C131	Z	-1.572	-1.572	0 %100
223	C132	X	2.723	2.723	0 %100
224	C132	Z	-1.572	-1.572	0 %100
225	C133	X	2.285	2.285	0 %100
226	C133	Z	-1.319	-1.319	0 %100
227	C134	X	2.285	2.285	0 %100
228	C134	Z	-1.319	-1.319	0 %100
229	C135	X	2.144	2.144	0 %100
230	C135	Z	-1.238	-1.238	0 %100
231	C136	X	2.144	2.144	0 %100
232	C136	Z	-1.238	-1.238	0 %100
233	C137	X	2.568	2.568	0 %100
234	C137	Z	-1.483	-1.483	0 %100
235	C138	X	2.568	2.568	0 %100
236	C138	Z	-1.483	-1.483	0 %100
237	MP1C	X	3.572	3.572	0 %100
238	MP1C	Z	-2.063	-2.063	0 %100
239	MP2C	X	3.79	3.79	0 %100
240	MP2C	Z	-2.188	-2.188	0 %100
241	MP3C	X	3.645	3.645	0 %100
242	MP3C	Z	-2.104	-2.104	0 %100
243	MP4C	X	3.572	3.572	0 %100
244	MP4C	Z	-2.063	-2.063	0 %100
245	MP5C	X	3.572	3.572	0 %100
246	MP5C	Z	-2.063	-2.063	0 %100
247	M154	X	1.047	1.047	0 %100
248	M154	Z	-.604	-.604	0 %100
249	M155	X	1.58	1.58	0 %100
250	M155	Z	-.912	-.912	0 %100
251	M156	X	3.215	3.215	0 %100
252	M156	Z	-1.856	-1.856	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.911	.911	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	.911	.911	0 %100
4	A2	Z	0	0	0 %100
5	A3	X	.911	.911	0 %100
6	A3	Z	0	0	0 %100
7	A4	X	.911	.911	0 %100
8	A4	Z	0	0	0 %100
9	A5	X	2.747	2.747	0 %100
10	A5	Z	0	0	0 %100
11	A6	X	2.747	2.747	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
12	A6	Z	0	0	0	%100
13	A7	X	2.747	2.747	0	%100
14	A7	Z	0	0	0	%100
15	A8	X	2.747	2.747	0	%100
16	A8	Z	0	0	0	%100
17	A9	X	2.747	2.747	0	%100
18	A9	Z	0	0	0	%100
19	A10	X	2.747	2.747	0	%100
20	A10	Z	0	0	0	%100
21	A11	X	2.747	2.747	0	%100
22	A11	Z	0	0	0	%100
23	A12	X	2.747	2.747	0	%100
24	A12	Z	0	0	0	%100
25	A13	X	2.747	2.747	0	%100
26	A13	Z	0	0	0	%100
27	A14	X	2.747	2.747	0	%100
28	A14	Z	0	0	0	%100
29	A15	X	2.747	2.747	0	%100
30	A15	Z	0	0	0	%100
31	A16	X	2.747	2.747	0	%100
32	A16	Z	0	0	0	%100
33	A17	X	3.14	3.14	0	%100
34	A17	Z	0	0	0	%100
35	A18	X	3.14	3.14	0	%100
36	A18	Z	0	0	0	%100
37	A19	X	3.14	3.14	0	%100
38	A19	Z	0	0	0	%100
39	A20	X	3.14	3.14	0	%100
40	A20	Z	0	0	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	0	0	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	0	0	0	%100
45	A23	X	2.095	2.095	0	%100
46	A23	Z	0	0	0	%100
47	A24	X	2.095	2.095	0	%100
48	A24	Z	0	0	0	%100
49	A25	X	2.095	2.095	0	%100
50	A25	Z	0	0	0	%100
51	A26	X	2.095	2.095	0	%100
52	A26	Z	0	0	0	%100
53	A27	X	3.03	3.03	0	%100
54	A27	Z	0	0	0	%100
55	A28	X	3.03	3.03	0	%100
56	A28	Z	0	0	0	%100
57	A29	X	3.144	3.144	0	%100
58	A29	Z	0	0	0	%100
59	A30	X	3.144	3.144	0	%100
60	A30	Z	0	0	0	%100
61	A31	X	3.03	3.03	0	%100
62	A31	Z	0	0	0	%100
63	A32	X	3.03	3.03	0	%100
64	A32	Z	0	0	0	%100
65	A33	X	2.72	2.72	0	%100
66	A33	Z	0	0	0	%100
67	A34	X	2.72	2.72	0	%100
68	A34	Z	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
69	A35	X	2.72	2.72	0 %100
70	A35	Z	0	0	0 %100
71	A36	X	2.72	2.72	0 %100
72	A36	Z	0	0	0 %100
73	MP1A	X	4.125	4.125	0 %100
74	MP1A	Z	0	0	0 %100
75	MP2A	X	4.376	4.376	0 %100
76	MP2A	Z	0	0	0 %100
77	MP3A	X	4.209	4.209	0 %100
78	MP3A	Z	0	0	0 %100
79	MP4A	X	4.125	4.125	0 %100
80	MP4A	Z	0	0	0 %100
81	MP5A	X	4.125	4.125	0 %100
82	MP5A	Z	0	0	0 %100
83	B52	X	1.808	1.808	0 %100
84	B52	Z	0	0	0 %100
85	B53	X	.014	.014	0 %100
86	B53	Z	0	0	0 %100
87	B54	X	1.808	1.808	0 %100
88	B54	Z	0	0	0 %100
89	B55	X	.014	.014	0 %100
90	B55	Z	0	0	0 %100
91	B56	X	1.898	1.898	0 %100
92	B56	Z	0	0	0 %100
93	B57	X	1.898	1.898	0 %100
94	B57	Z	0	0	0 %100
95	B58	X	1.898	1.898	0 %100
96	B58	Z	0	0	0 %100
97	B59	X	3.597	3.597	0 %100
98	B59	Z	0	0	0 %100
99	B60	X	3.597	3.597	0 %100
100	B60	Z	0	0	0 %100
101	B61	X	3.597	3.597	0 %100
102	B61	Z	0	0	0 %100
103	B62	X	1.898	1.898	0 %100
104	B62	Z	0	0	0 %100
105	B63	X	1.898	1.898	0 %100
106	B63	Z	0	0	0 %100
107	B64	X	1.898	1.898	0 %100
108	B64	Z	0	0	0 %100
109	B65	X	3.597	3.597	0 %100
110	B65	Z	0	0	0 %100
111	B66	X	3.597	3.597	0 %100
112	B66	Z	0	0	0 %100
113	B67	X	3.597	3.597	0 %100
114	B67	Z	0	0	0 %100
115	B68	X	3.14	3.14	0 %100
116	B68	Z	0	0	0 %100
117	B69	X	3.14	3.14	0 %100
118	B69	Z	0	0	0 %100
119	B70	X	3.14	3.14	0 %100
120	B70	Z	0	0	0 %100
121	B71	X	3.14	3.14	0 %100
122	B71	Z	0	0	0 %100
123	B72	X	2.819	2.819	0 %100
124	B72	Z	0	0	0 %100
125	B73	X	2.819	2.819	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
126	B73	Z	0	0	0	%100
127	B74	X	.032	.032	0	%100
128	B74	Z	0	0	0	%100
129	B75	X	4.16	4.16	0	%100
130	B75	Z	0	0	0	%100
131	B76	X	.032	.032	0	%100
132	B76	Z	0	0	0	%100
133	B77	X	4.16	4.16	0	%100
134	B77	Z	0	0	0	%100
135	B78	X	4.157	4.157	0	%100
136	B78	Z	0	0	0	%100
137	B79	X	4.157	4.157	0	%100
138	B79	Z	0	0	0	%100
139	B80	X	3.144	3.144	0	%100
140	B80	Z	0	0	0	%100
141	B81	X	3.144	3.144	0	%100
142	B81	Z	0	0	0	%100
143	B82	X	1.902	1.902	0	%100
144	B82	Z	0	0	0	%100
145	B83	X	1.902	1.902	0	%100
146	B83	Z	0	0	0	%100
147	B84	X	2.016	2.016	0	%100
148	B84	Z	0	0	0	%100
149	B85	X	2.016	2.016	0	%100
150	B85	Z	0	0	0	%100
151	B86	X	3.425	3.425	0	%100
152	B86	Z	0	0	0	%100
153	B87	X	3.425	3.425	0	%100
154	B87	Z	0	0	0	%100
155	MP1B	X	4.125	4.125	0	%100
156	MP1B	Z	0	0	0	%100
157	MP2B	X	4.376	4.376	0	%100
158	MP2B	Z	0	0	0	%100
159	MP3B	X	4.209	4.209	0	%100
160	MP3B	Z	0	0	0	%100
161	MP4B	X	4.125	4.125	0	%100
162	MP4B	Z	0	0	0	%100
163	MP5B	X	4.125	4.125	0	%100
164	MP5B	Z	0	0	0	%100
165	C103	X	.326	.326	0	%100
166	C103	Z	0	0	0	%100
167	C104	X	1.497	1.497	0	%100
168	C104	Z	0	0	0	%100
169	C105	X	.326	.326	0	%100
170	C105	Z	0	0	0	%100
171	C106	X	1.497	1.497	0	%100
172	C106	Z	0	0	0	%100
173	C107	X	3.302	3.302	0	%100
174	C107	Z	0	0	0	%100
175	C108	X	3.302	3.302	0	%100
176	C108	Z	0	0	0	%100
177	C109	X	3.302	3.302	0	%100
178	C109	Z	0	0	0	%100
179	C110	X	2.193	2.193	0	%100
180	C110	Z	0	0	0	%100
181	C111	X	2.193	2.193	0	%100
182	C111	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
183	C112	X	2.193	2.193	0 %100
184	C112	Z	0	0	0 %100
185	C113	X	3.302	3.302	0 %100
186	C113	Z	0	0	0 %100
187	C114	X	3.302	3.302	0 %100
188	C114	Z	0	0	0 %100
189	C115	X	3.302	3.302	0 %100
190	C115	Z	0	0	0 %100
191	C116	X	2.193	2.193	0 %100
192	C116	Z	0	0	0 %100
193	C117	X	2.193	2.193	0 %100
194	C117	Z	0	0	0 %100
195	C118	X	2.193	2.193	0 %100
196	C118	Z	0	0	0 %100
197	C119	X	3.14	3.14	0 %100
198	C119	Z	0	0	0 %100
199	C120	X	3.14	3.14	0 %100
200	C120	Z	0	0	0 %100
201	C121	X	3.14	3.14	0 %100
202	C121	Z	0	0	0 %100
203	C122	X	3.14	3.14	0 %100
204	C122	Z	0	0	0 %100
205	C123	X	4.242	4.242	0 %100
206	C123	Z	0	0	0 %100
207	C124	X	4.242	4.242	0 %100
208	C124	Z	0	0	0 %100
209	C125	X	3.443	3.443	0 %100
210	C125	Z	0	0	0 %100
211	C126	X	.749	.749	0 %100
212	C126	Z	0	0	0 %100
213	C127	X	3.443	3.443	0 %100
214	C127	Z	0	0	0 %100
215	C128	X	.749	.749	0 %100
216	C128	Z	0	0	0 %100
217	C129	X	2.294	2.294	0 %100
218	C129	Z	0	0	0 %100
219	C130	X	2.294	2.294	0 %100
220	C130	Z	0	0	0 %100
221	C131	X	3.144	3.144	0 %100
222	C131	Z	0	0	0 %100
223	C132	X	3.144	3.144	0 %100
224	C132	Z	0	0	0 %100
225	C133	X	3.765	3.765	0 %100
226	C133	Z	0	0	0 %100
227	C134	X	3.765	3.765	0 %100
228	C134	Z	0	0	0 %100
229	C135	X	3.18	3.18	0 %100
230	C135	Z	0	0	0 %100
231	C136	X	3.18	3.18	0 %100
232	C136	Z	0	0	0 %100
233	C137	X	2.26	2.26	0 %100
234	C137	Z	0	0	0 %100
235	C138	X	2.26	2.26	0 %100
236	C138	Z	0	0	0 %100
237	MP1C	X	4.125	4.125	0 %100
238	MP1C	Z	0	0	0 %100
239	MP2C	X	4.376	4.376	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
240	MP2C	Z	0	0	0	%100
241	MP3C	X	4.209	4.209	0	%100
242	MP3C	Z	0	0	0	%100
243	MP4C	X	4.125	4.125	0	%100
244	MP4C	Z	0	0	0	%100
245	MP5C	X	4.125	4.125	0	%100
246	MP5C	Z	0	0	0	%100
247	M154	X	.003	.003	0	%100
248	M154	Z	0	0	0	%100
249	M155	X	4.403	4.403	0	%100
250	M155	Z	0	0	0	%100
251	M156	X	1.089	1.089	0	%100
252	M156	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	1.472	1.472	0	%100
2	A1	Z	.85	.85	0	%100
3	A2	X	.106	.106	0	%100
4	A2	Z	.061	.061	0	%100
5	A3	X	1.472	1.472	0	%100
6	A3	Z	.85	.85	0	%100
7	A4	X	.106	.106	0	%100
8	A4	Z	.061	.061	0	%100
9	A5	X	1.732	1.732	0	%100
10	A5	Z	1	1	0	%100
11	A6	X	1.732	1.732	0	%100
12	A6	Z	1	1	0	%100
13	A7	X	1.732	1.732	0	%100
14	A7	Z	1	1	0	%100
15	A8	X	3.026	3.026	0	%100
16	A8	Z	1.747	1.747	0	%100
17	A9	X	3.026	3.026	0	%100
18	A9	Z	1.747	1.747	0	%100
19	A10	X	3.026	3.026	0	%100
20	A10	Z	1.747	1.747	0	%100
21	A11	X	1.732	1.732	0	%100
22	A11	Z	1	1	0	%100
23	A12	X	1.732	1.732	0	%100
24	A12	Z	1	1	0	%100
25	A13	X	1.732	1.732	0	%100
26	A13	Z	1	1	0	%100
27	A14	X	3.026	3.026	0	%100
28	A14	Z	1.747	1.747	0	%100
29	A15	X	3.026	3.026	0	%100
30	A15	Z	1.747	1.747	0	%100
31	A16	X	3.026	3.026	0	%100
32	A16	Z	1.747	1.747	0	%100
33	A17	X	2.72	2.72	0	%100
34	A17	Z	1.57	1.57	0	%100
35	A18	X	2.72	2.72	0	%100
36	A18	Z	1.57	1.57	0	%100
37	A19	X	2.72	2.72	0	%100
38	A19	Z	1.57	1.57	0	%100
39	A20	X	2.72	2.72	0	%100
40	A20	Z	1.57	1.57	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	A21	X	1.04	1.04	0 %100
42	A21	Z	.6	.6	0 %100
43	A22	X	1.04	1.04	0 %100
44	A22	Z	.6	.6	0 %100
45	A23	X	.243	.243	0 %100
46	A23	Z	.14	.14	0 %100
47	A24	X	3.386	3.386	0 %100
48	A24	Z	1.955	1.955	0 %100
49	A25	X	.243	.243	0 %100
50	A25	Z	.14	.14	0 %100
51	A26	X	3.386	3.386	0 %100
52	A26	Z	1.955	1.955	0 %100
53	A27	X	3.482	3.482	0 %100
54	A27	Z	2.01	2.01	0 %100
55	A28	X	3.482	3.482	0 %100
56	A28	Z	2.01	2.01	0 %100
57	A29	X	2.723	2.723	0 %100
58	A29	Z	1.572	1.572	0 %100
59	A30	X	2.723	2.723	0 %100
60	A30	Z	1.572	1.572	0 %100
61	A31	X	1.765	1.765	0 %100
62	A31	Z	1.019	1.019	0 %100
63	A32	X	1.765	1.765	0 %100
64	A32	Z	1.019	1.019	0 %100
65	A33	X	1.819	1.819	0 %100
66	A33	Z	1.05	1.05	0 %100
67	A34	X	1.819	1.819	0 %100
68	A34	Z	1.05	1.05	0 %100
69	A35	X	2.892	2.892	0 %100
70	A35	Z	1.67	1.67	0 %100
71	A36	X	2.892	2.892	0 %100
72	A36	Z	1.67	1.67	0 %100
73	MP1A	X	3.572	3.572	0 %100
74	MP1A	Z	2.063	2.063	0 %100
75	MP2A	X	3.79	3.79	0 %100
76	MP2A	Z	2.188	2.188	0 %100
77	MP3A	X	3.645	3.645	0 %100
78	MP3A	Z	2.104	2.104	0 %100
79	MP4A	X	3.572	3.572	0 %100
80	MP4A	Z	2.063	2.063	0 %100
81	MP5A	X	3.572	3.572	0 %100
82	MP5A	Z	2.063	2.063	0 %100
83	B52	X	1.059	1.059	0 %100
84	B52	Z	.611	.611	0 %100
85	B53	X	.519	.519	0 %100
86	B53	Z	.3	.3	0 %100
87	B54	X	1.059	1.059	0 %100
88	B54	Z	.611	.611	0 %100
89	B55	X	.519	.519	0 %100
90	B55	Z	.3	.3	0 %100
91	B56	X	2.124	2.124	0 %100
92	B56	Z	1.226	1.226	0 %100
93	B57	X	2.124	2.124	0 %100
94	B57	Z	1.226	1.226	0 %100
95	B58	X	2.124	2.124	0 %100
96	B58	Z	1.226	1.226	0 %100
97	B59	X	2.635	2.635	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
98	B59	Z	1.521	1.521	0 %100
99	B60	X	2.635	2.635	0 %100
100	B60	Z	1.521	1.521	0 %100
101	B61	X	2.635	2.635	0 %100
102	B61	Z	1.521	1.521	0 %100
103	B62	X	2.124	2.124	0 %100
104	B62	Z	1.226	1.226	0 %100
105	B63	X	2.124	2.124	0 %100
106	B63	Z	1.226	1.226	0 %100
107	B64	X	2.124	2.124	0 %100
108	B64	Z	1.226	1.226	0 %100
109	B65	X	2.635	2.635	0 %100
110	B65	Z	1.521	1.521	0 %100
111	B66	X	2.635	2.635	0 %100
112	B66	Z	1.521	1.521	0 %100
113	B67	X	2.635	2.635	0 %100
114	B67	Z	1.521	1.521	0 %100
115	B68	X	2.72	2.72	0 %100
116	B68	Z	1.57	1.57	0 %100
117	B69	X	2.72	2.72	0 %100
118	B69	Z	1.57	1.57	0 %100
119	B70	X	2.72	2.72	0 %100
120	B70	Z	1.57	1.57	0 %100
121	B71	X	2.72	2.72	0 %100
122	B71	Z	1.57	1.57	0 %100
123	B72	X	4.035	4.035	0 %100
124	B72	Z	2.329	2.329	0 %100
125	B73	X	4.035	4.035	0 %100
126	B73	Z	2.329	2.329	0 %100
127	B74	X	1.195	1.195	0 %100
128	B74	Z	.69	.69	0 %100
129	B75	X	2.436	2.436	0 %100
130	B75	Z	1.407	1.407	0 %100
131	B76	X	1.195	1.195	0 %100
132	B76	Z	.69	.69	0 %100
133	B77	X	2.436	2.436	0 %100
134	B77	Z	1.407	1.407	0 %100
135	B78	X	2.963	2.963	0 %100
136	B78	Z	1.711	1.711	0 %100
137	B79	X	2.963	2.963	0 %100
138	B79	Z	1.711	1.711	0 %100
139	B80	X	2.723	2.723	0 %100
140	B80	Z	1.572	1.572	0 %100
141	B81	X	2.723	2.723	0 %100
142	B81	Z	1.572	1.572	0 %100
143	B82	X	2.285	2.285	0 %100
144	B82	Z	1.319	1.319	0 %100
145	B83	X	2.285	2.285	0 %100
146	B83	Z	1.319	1.319	0 %100
147	B84	X	2.144	2.144	0 %100
148	B84	Z	1.238	1.238	0 %100
149	B85	X	2.144	2.144	0 %100
150	B85	Z	1.238	1.238	0 %100
151	B86	X	2.568	2.568	0 %100
152	B86	Z	1.483	1.483	0 %100
153	B87	X	2.568	2.568	0 %100
154	B87	Z	1.483	1.483	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
155	MP1B	X	3.572	3.572	0 %100
156	MP1B	Z	2.063	2.063	0 %100
157	MP2B	X	3.79	3.79	0 %100
158	MP2B	Z	2.188	2.188	0 %100
159	MP3B	X	3.645	3.645	0 %100
160	MP3B	Z	2.104	2.104	0 %100
161	MP4B	X	3.572	3.572	0 %100
162	MP4B	Z	2.063	2.063	0 %100
163	MP5B	X	3.572	3.572	0 %100
164	MP5B	Z	2.063	2.063	0 %100
165	C103	X	.012	.012	0 %100
166	C103	Z	.007	.007	0 %100
167	C104	X	1.566	1.566	0 %100
168	C104	Z	.904	.904	0 %100
169	C105	X	.012	.012	0 %100
170	C105	Z	.007	.007	0 %100
171	C106	X	1.566	1.566	0 %100
172	C106	Z	.904	.904	0 %100
173	C107	X	3.115	3.115	0 %100
174	C107	Z	1.798	1.798	0 %100
175	C108	X	3.115	3.115	0 %100
176	C108	Z	1.798	1.798	0 %100
177	C109	X	3.115	3.115	0 %100
178	C109	Z	1.798	1.798	0 %100
179	C110	X	1.644	1.644	0 %100
180	C110	Z	.949	.949	0 %100
181	C111	X	1.644	1.644	0 %100
182	C111	Z	.949	.949	0 %100
183	C112	X	1.644	1.644	0 %100
184	C112	Z	.949	.949	0 %100
185	C113	X	3.115	3.115	0 %100
186	C113	Z	1.798	1.798	0 %100
187	C114	X	3.115	3.115	0 %100
188	C114	Z	1.798	1.798	0 %100
189	C115	X	3.115	3.115	0 %100
190	C115	Z	1.798	1.798	0 %100
191	C116	X	1.644	1.644	0 %100
192	C116	Z	.949	.949	0 %100
193	C117	X	1.644	1.644	0 %100
194	C117	Z	.949	.949	0 %100
195	C118	X	1.644	1.644	0 %100
196	C118	Z	.949	.949	0 %100
197	C119	X	2.72	2.72	0 %100
198	C119	Z	1.57	1.57	0 %100
199	C120	X	2.72	2.72	0 %100
200	C120	Z	1.57	1.57	0 %100
201	C121	X	2.72	2.72	0 %100
202	C121	Z	1.57	1.57	0 %100
203	C122	X	2.72	2.72	0 %100
204	C122	Z	1.57	1.57	0 %100
205	C123	X	1.719	1.719	0 %100
206	C123	Z	.992	.992	0 %100
207	C124	X	1.719	1.719	0 %100
208	C124	Z	.992	.992	0 %100
209	C125	X	3.602	3.602	0 %100
210	C125	Z	2.08	2.08	0 %100
211	C126	X	.027	.027	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
212	C126	Z	.016	.016	0 %100
213	C127	X	3.602	3.602	0 %100
214	C127	Z	2.08	2.08	0 %100
215	C128	X	.027	.027	0 %100
216	C128	Z	.016	.016	0 %100
217	C129	X	1.647	1.647	0 %100
218	C129	Z	.951	.951	0 %100
219	C130	X	1.647	1.647	0 %100
220	C130	Z	.951	.951	0 %100
221	C131	X	2.723	2.723	0 %100
222	C131	Z	1.572	1.572	0 %100
223	C132	X	2.723	2.723	0 %100
224	C132	Z	1.572	1.572	0 %100
225	C133	X	3.6	3.6	0 %100
226	C133	Z	2.078	2.078	0 %100
227	C134	X	3.6	3.6	0 %100
228	C134	Z	2.078	2.078	0 %100
229	C135	X	2.966	2.966	0 %100
230	C135	Z	1.712	1.712	0 %100
231	C136	X	2.966	2.966	0 %100
232	C136	Z	1.712	1.712	0 %100
233	C137	X	1.745	1.745	0 %100
234	C137	Z	1.008	1.008	0 %100
235	C138	X	1.745	1.745	0 %100
236	C138	Z	1.008	1.008	0 %100
237	MP1C	X	3.572	3.572	0 %100
238	MP1C	Z	2.063	2.063	0 %100
239	MP2C	X	3.79	3.79	0 %100
240	MP2C	Z	2.188	2.188	0 %100
241	MP3C	X	3.645	3.645	0 %100
242	MP3C	Z	2.104	2.104	0 %100
243	MP4C	X	3.572	3.572	0 %100
244	MP4C	Z	2.063	2.063	0 %100
245	MP5C	X	3.572	3.572	0 %100
246	MP5C	Z	2.063	2.063	0 %100
247	M154	X	1.24	1.24	0 %100
248	M154	Z	.716	.716	0 %100
249	M155	X	4.517	4.517	0 %100
250	M155	Z	2.608	2.608	0 %100
251	M156	X	.012	.012	0 %100
252	M156	Z	.007	.007	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.85	.85	0 %100
2	A1	Z	1.472	1.472	0 %100
3	A2	X	.061	.061	0 %100
4	A2	Z	.106	.106	0 %100
5	A3	X	.85	.85	0 %100
6	A3	Z	1.472	1.472	0 %100
7	A4	X	.061	.061	0 %100
8	A4	Z	.106	.106	0 %100
9	A5	X	1	1	0 %100
10	A5	Z	1.732	1.732	0 %100
11	A6	X	1	1	0 %100
12	A6	Z	1.732	1.732	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	A7	X	1	1	0 %100
14	A7	Z	1.732	1.732	0 %100
15	A8	X	1.747	1.747	0 %100
16	A8	Z	3.026	3.026	0 %100
17	A9	X	1.747	1.747	0 %100
18	A9	Z	3.026	3.026	0 %100
19	A10	X	1.747	1.747	0 %100
20	A10	Z	3.026	3.026	0 %100
21	A11	X	1	1	0 %100
22	A11	Z	1.732	1.732	0 %100
23	A12	X	1	1	0 %100
24	A12	Z	1.732	1.732	0 %100
25	A13	X	1	1	0 %100
26	A13	Z	1.732	1.732	0 %100
27	A14	X	1.747	1.747	0 %100
28	A14	Z	3.026	3.026	0 %100
29	A15	X	1.747	1.747	0 %100
30	A15	Z	3.026	3.026	0 %100
31	A16	X	1.747	1.747	0 %100
32	A16	Z	3.026	3.026	0 %100
33	A17	X	1.57	1.57	0 %100
34	A17	Z	2.72	2.72	0 %100
35	A18	X	1.57	1.57	0 %100
36	A18	Z	2.72	2.72	0 %100
37	A19	X	1.57	1.57	0 %100
38	A19	Z	2.72	2.72	0 %100
39	A20	X	1.57	1.57	0 %100
40	A20	Z	2.72	2.72	0 %100
41	A21	X	1.801	1.801	0 %100
42	A21	Z	3.12	3.12	0 %100
43	A22	X	1.801	1.801	0 %100
44	A22	Z	3.12	3.12	0 %100
45	A23	X	.141	.141	0 %100
46	A23	Z	.243	.243	0 %100
47	A24	X	1.955	1.955	0 %100
48	A24	Z	3.387	3.387	0 %100
49	A25	X	.141	.141	0 %100
50	A25	Z	.243	.243	0 %100
51	A26	X	1.955	1.955	0 %100
52	A26	Z	3.387	3.387	0 %100
53	A27	X	2.01	2.01	0 %100
54	A27	Z	3.482	3.482	0 %100
55	A28	X	2.01	2.01	0 %100
56	A28	Z	3.482	3.482	0 %100
57	A29	X	1.572	1.572	0 %100
58	A29	Z	2.723	2.723	0 %100
59	A30	X	1.572	1.572	0 %100
60	A30	Z	2.723	2.723	0 %100
61	A31	X	1.019	1.019	0 %100
62	A31	Z	1.765	1.765	0 %100
63	A32	X	1.019	1.019	0 %100
64	A32	Z	1.765	1.765	0 %100
65	A33	X	1.05	1.05	0 %100
66	A33	Z	1.819	1.819	0 %100
67	A34	X	1.05	1.05	0 %100
68	A34	Z	1.819	1.819	0 %100
69	A35	X	1.67	1.67	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
70	A35	Z	2.892	2.892	0 %100
71	A36	X	1.67	1.67	0 %100
72	A36	Z	2.892	2.892	0 %100
73	MP1A	X	2.063	2.063	0 %100
74	MP1A	Z	3.572	3.572	0 %100
75	MP2A	X	2.188	2.188	0 %100
76	MP2A	Z	3.79	3.79	0 %100
77	MP3A	X	2.104	2.104	0 %100
78	MP3A	Z	3.645	3.645	0 %100
79	MP4A	X	2.063	2.063	0 %100
80	MP4A	Z	3.572	3.572	0 %100
81	MP5A	X	2.063	2.063	0 %100
82	MP5A	Z	3.572	3.572	0 %100
83	B52	X	.163	.163	0 %100
84	B52	Z	.282	.282	0 %100
85	B53	X	.748	.748	0 %100
86	B53	Z	1.296	1.296	0 %100
87	B54	X	.163	.163	0 %100
88	B54	Z	.282	.282	0 %100
89	B55	X	.748	.748	0 %100
90	B55	Z	1.296	1.296	0 %100
91	B56	X	1.651	1.651	0 %100
92	B56	Z	2.859	2.859	0 %100
93	B57	X	1.651	1.651	0 %100
94	B57	Z	2.859	2.859	0 %100
95	B58	X	1.651	1.651	0 %100
96	B58	Z	2.859	2.859	0 %100
97	B59	X	1.096	1.096	0 %100
98	B59	Z	1.899	1.899	0 %100
99	B60	X	1.096	1.096	0 %100
100	B60	Z	1.899	1.899	0 %100
101	B61	X	1.096	1.096	0 %100
102	B61	Z	1.899	1.899	0 %100
103	B62	X	1.651	1.651	0 %100
104	B62	Z	2.859	2.859	0 %100
105	B63	X	1.651	1.651	0 %100
106	B63	Z	2.859	2.859	0 %100
107	B64	X	1.651	1.651	0 %100
108	B64	Z	2.859	2.859	0 %100
109	B65	X	1.096	1.096	0 %100
110	B65	Z	1.899	1.899	0 %100
111	B66	X	1.096	1.096	0 %100
112	B66	Z	1.899	1.899	0 %100
113	B67	X	1.096	1.096	0 %100
114	B67	Z	1.899	1.899	0 %100
115	B68	X	1.57	1.57	0 %100
116	B68	Z	2.72	2.72	0 %100
117	B69	X	1.57	1.57	0 %100
118	B69	Z	2.72	2.72	0 %100
119	B70	X	1.57	1.57	0 %100
120	B70	Z	2.72	2.72	0 %100
121	B71	X	1.57	1.57	0 %100
122	B71	Z	2.72	2.72	0 %100
123	B72	X	2.121	2.121	0 %100
124	B72	Z	3.674	3.674	0 %100
125	B73	X	2.121	2.121	0 %100
126	B73	Z	3.674	3.674	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
127	B74	X	1.722	1.722	0 %100
128	B74	Z	2.982	2.982	0 %100
129	B75	X	.375	.375	0 %100
130	B75	Z	.649	.649	0 %100
131	B76	X	1.722	1.722	0 %100
132	B76	Z	2.982	2.982	0 %100
133	B77	X	.375	.375	0 %100
134	B77	Z	.649	.649	0 %100
135	B78	X	1.147	1.147	0 %100
136	B78	Z	1.986	1.986	0 %100
137	B79	X	1.147	1.147	0 %100
138	B79	Z	1.986	1.986	0 %100
139	B80	X	1.572	1.572	0 %100
140	B80	Z	2.723	2.723	0 %100
141	B81	X	1.572	1.572	0 %100
142	B81	Z	2.723	2.723	0 %100
143	B82	X	1.883	1.883	0 %100
144	B82	Z	3.261	3.261	0 %100
145	B83	X	1.883	1.883	0 %100
146	B83	Z	3.261	3.261	0 %100
147	B84	X	1.59	1.59	0 %100
148	B84	Z	2.754	2.754	0 %100
149	B85	X	1.59	1.59	0 %100
150	B85	Z	2.754	2.754	0 %100
151	B86	X	1.13	1.13	0 %100
152	B86	Z	1.958	1.958	0 %100
153	B87	X	1.13	1.13	0 %100
154	B87	Z	1.958	1.958	0 %100
155	MP1B	X	2.063	2.063	0 %100
156	MP1B	Z	3.572	3.572	0 %100
157	MP2B	X	2.188	2.188	0 %100
158	MP2B	Z	3.79	3.79	0 %100
159	MP3B	X	2.104	2.104	0 %100
160	MP3B	Z	3.645	3.645	0 %100
161	MP4B	X	2.063	2.063	0 %100
162	MP4B	Z	3.572	3.572	0 %100
163	MP5B	X	2.063	2.063	0 %100
164	MP5B	Z	3.572	3.572	0 %100
165	C103	X	.3	.3	0 %100
166	C103	Z	.519	.519	0 %100
167	C104	X	.611	.611	0 %100
168	C104	Z	1.059	1.059	0 %100
169	C105	X	.3	.3	0 %100
170	C105	Z	.519	.519	0 %100
171	C106	X	.611	.611	0 %100
172	C106	Z	1.059	1.059	0 %100
173	C107	X	1.521	1.521	0 %100
174	C107	Z	2.635	2.635	0 %100
175	C108	X	1.521	1.521	0 %100
176	C108	Z	2.635	2.635	0 %100
177	C109	X	1.521	1.521	0 %100
178	C109	Z	2.635	2.635	0 %100
179	C110	X	1.226	1.226	0 %100
180	C110	Z	2.124	2.124	0 %100
181	C111	X	1.226	1.226	0 %100
182	C111	Z	2.124	2.124	0 %100
183	C112	X	1.226	1.226	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
184	C112	Z	2.124	2.124	0 %100
185	C113	X	1.521	1.521	0 %100
186	C113	Z	2.635	2.635	0 %100
187	C114	X	1.521	1.521	0 %100
188	C114	Z	2.635	2.635	0 %100
189	C115	X	1.521	1.521	0 %100
190	C115	Z	2.635	2.635	0 %100
191	C116	X	1.226	1.226	0 %100
192	C116	Z	2.124	2.124	0 %100
193	C117	X	1.226	1.226	0 %100
194	C117	Z	2.124	2.124	0 %100
195	C118	X	1.226	1.226	0 %100
196	C118	Z	2.124	2.124	0 %100
197	C119	X	1.57	1.57	0 %100
198	C119	Z	2.72	2.72	0 %100
199	C120	X	1.57	1.57	0 %100
200	C120	Z	2.72	2.72	0 %100
201	C121	X	1.57	1.57	0 %100
202	C121	Z	2.72	2.72	0 %100
203	C122	X	1.57	1.57	0 %100
204	C122	Z	2.72	2.72	0 %100
205	C123	X	.072	.072	0 %100
206	C123	Z	.125	.125	0 %100
207	C124	X	.072	.072	0 %100
208	C124	Z	.125	.125	0 %100
209	C125	X	1.406	1.406	0 %100
210	C125	Z	2.435	2.435	0 %100
211	C126	X	.689	.689	0 %100
212	C126	Z	1.194	1.194	0 %100
213	C127	X	1.406	1.406	0 %100
214	C127	Z	2.435	2.435	0 %100
215	C128	X	.689	.689	0 %100
216	C128	Z	1.194	1.194	0 %100
217	C129	X	1.319	1.319	0 %100
218	C129	Z	2.285	2.285	0 %100
219	C130	X	1.319	1.319	0 %100
220	C130	Z	2.285	2.285	0 %100
221	C131	X	1.572	1.572	0 %100
222	C131	Z	2.723	2.723	0 %100
223	C132	X	1.572	1.572	0 %100
224	C132	Z	2.723	2.723	0 %100
225	C133	X	1.711	1.711	0 %100
226	C133	Z	2.963	2.963	0 %100
227	C134	X	1.711	1.711	0 %100
228	C134	Z	2.963	2.963	0 %100
229	C135	X	1.482	1.482	0 %100
230	C135	Z	2.567	2.567	0 %100
231	C136	X	1.482	1.482	0 %100
232	C136	Z	2.567	2.567	0 %100
233	C137	X	1.238	1.238	0 %100
234	C137	Z	2.144	2.144	0 %100
235	C138	X	1.238	1.238	0 %100
236	C138	Z	2.144	2.144	0 %100
237	MP1C	X	2.063	2.063	0 %100
238	MP1C	Z	3.572	3.572	0 %100
239	MP2C	X	2.188	2.188	0 %100
240	MP2C	Z	3.79	3.79	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
241	MP3C	X	2.104	2.104	0	%100
242	MP3C	Z	3.645	3.645	0	%100
243	MP4C	X	2.063	2.063	0	%100
244	MP4C	Z	3.572	3.572	0	%100
245	MP5C	X	2.063	2.063	0	%100
246	MP5C	Z	3.572	3.572	0	%100
247	M154	X	2.033	2.033	0	%100
248	M154	Z	3.521	3.521	0	%100
249	M155	X	1.725	1.725	0	%100
250	M155	Z	2.988	2.988	0	%100
251	M156	X	.781	.781	0	%100
252	M156	Z	1.353	1.353	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	0	0	0	%100
2	A1	Z	.911	.911	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	.911	.911	0	%100
5	A3	X	0	0	0	%100
6	A3	Z	.911	.911	0	%100
7	A4	X	0	0	0	%100
8	A4	Z	.911	.911	0	%100
9	A5	X	0	0	0	%100
10	A5	Z	2.747	2.747	0	%100
11	A6	X	0	0	0	%100
12	A6	Z	2.747	2.747	0	%100
13	A7	X	0	0	0	%100
14	A7	Z	2.747	2.747	0	%100
15	A8	X	0	0	0	%100
16	A8	Z	2.747	2.747	0	%100
17	A9	X	0	0	0	%100
18	A9	Z	2.747	2.747	0	%100
19	A10	X	0	0	0	%100
20	A10	Z	2.747	2.747	0	%100
21	A11	X	0	0	0	%100
22	A11	Z	2.747	2.747	0	%100
23	A12	X	0	0	0	%100
24	A12	Z	2.747	2.747	0	%100
25	A13	X	0	0	0	%100
26	A13	Z	2.747	2.747	0	%100
27	A14	X	0	0	0	%100
28	A14	Z	2.747	2.747	0	%100
29	A15	X	0	0	0	%100
30	A15	Z	2.747	2.747	0	%100
31	A16	X	0	0	0	%100
32	A16	Z	2.747	2.747	0	%100
33	A17	X	0	0	0	%100
34	A17	Z	3.14	3.14	0	%100
35	A18	X	0	0	0	%100
36	A18	Z	3.14	3.14	0	%100
37	A19	X	0	0	0	%100
38	A19	Z	3.14	3.14	0	%100
39	A20	X	0	0	0	%100
40	A20	Z	3.14	3.14	0	%100
41	A21	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	A21	Z	4.804	4.804	0 %100
43	A22	X	0	0	0 %100
44	A22	Z	4.804	4.804	0 %100
45	A23	X	0	0	0 %100
46	A23	Z	2.096	2.096	0 %100
47	A24	X	0	0	0 %100
48	A24	Z	2.096	2.096	0 %100
49	A25	X	0	0	0 %100
50	A25	Z	2.096	2.096	0 %100
51	A26	X	0	0	0 %100
52	A26	Z	2.096	2.096	0 %100
53	A27	X	0	0	0 %100
54	A27	Z	3.03	3.03	0 %100
55	A28	X	0	0	0 %100
56	A28	Z	3.03	3.03	0 %100
57	A29	X	0	0	0 %100
58	A29	Z	3.144	3.144	0 %100
59	A30	X	0	0	0 %100
60	A30	Z	3.144	3.144	0 %100
61	A31	X	0	0	0 %100
62	A31	Z	3.03	3.03	0 %100
63	A32	X	0	0	0 %100
64	A32	Z	3.03	3.03	0 %100
65	A33	X	0	0	0 %100
66	A33	Z	2.72	2.72	0 %100
67	A34	X	0	0	0 %100
68	A34	Z	2.72	2.72	0 %100
69	A35	X	0	0	0 %100
70	A35	Z	2.72	2.72	0 %100
71	A36	X	0	0	0 %100
72	A36	Z	2.72	2.72	0 %100
73	MP1A	X	0	0	0 %100
74	MP1A	Z	4.125	4.125	0 %100
75	MP2A	X	0	0	0 %100
76	MP2A	Z	4.376	4.376	0 %100
77	MP3A	X	0	0	0 %100
78	MP3A	Z	4.209	4.209	0 %100
79	MP4A	X	0	0	0 %100
80	MP4A	Z	4.125	4.125	0 %100
81	MP5A	X	0	0	0 %100
82	MP5A	Z	4.125	4.125	0 %100
83	B52	X	0	0	0 %100
84	B52	Z	.014	.014	0 %100
85	B53	X	0	0	0 %100
86	B53	Z	1.808	1.808	0 %100
87	B54	X	0	0	0 %100
88	B54	Z	.014	.014	0 %100
89	B55	X	0	0	0 %100
90	B55	Z	1.808	1.808	0 %100
91	B56	X	0	0	0 %100
92	B56	Z	3.597	3.597	0 %100
93	B57	X	0	0	0 %100
94	B57	Z	3.597	3.597	0 %100
95	B58	X	0	0	0 %100
96	B58	Z	3.597	3.597	0 %100
97	B59	X	0	0	0 %100
98	B59	Z	1.898	1.898	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
99	B60	X	0	0	0	%100
100	B60	Z	1.898	1.898	0	%100
101	B61	X	0	0	0	%100
102	B61	Z	1.898	1.898	0	%100
103	B62	X	0	0	0	%100
104	B62	Z	3.597	3.597	0	%100
105	B63	X	0	0	0	%100
106	B63	Z	3.597	3.597	0	%100
107	B64	X	0	0	0	%100
108	B64	Z	3.597	3.597	0	%100
109	B65	X	0	0	0	%100
110	B65	Z	1.898	1.898	0	%100
111	B66	X	0	0	0	%100
112	B66	Z	1.898	1.898	0	%100
113	B67	X	0	0	0	%100
114	B67	Z	1.898	1.898	0	%100
115	B68	X	0	0	0	%100
116	B68	Z	3.14	3.14	0	%100
117	B69	X	0	0	0	%100
118	B69	Z	3.14	3.14	0	%100
119	B70	X	0	0	0	%100
120	B70	Z	3.14	3.14	0	%100
121	B71	X	0	0	0	%100
122	B71	Z	3.14	3.14	0	%100
123	B72	X	0	0	0	%100
124	B72	Z	1.985	1.985	0	%100
125	B73	X	0	0	0	%100
126	B73	Z	1.985	1.985	0	%100
127	B74	X	0	0	0	%100
128	B74	Z	4.159	4.159	0	%100
129	B75	X	0	0	0	%100
130	B75	Z	.032	.032	0	%100
131	B76	X	0	0	0	%100
132	B76	Z	4.159	4.159	0	%100
133	B77	X	0	0	0	%100
134	B77	Z	.032	.032	0	%100
135	B78	X	0	0	0	%100
136	B78	Z	1.902	1.902	0	%100
137	B79	X	0	0	0	%100
138	B79	Z	1.902	1.902	0	%100
139	B80	X	0	0	0	%100
140	B80	Z	3.144	3.144	0	%100
141	B81	X	0	0	0	%100
142	B81	Z	3.144	3.144	0	%100
143	B82	X	0	0	0	%100
144	B82	Z	4.157	4.157	0	%100
145	B83	X	0	0	0	%100
146	B83	Z	4.157	4.157	0	%100
147	B84	X	0	0	0	%100
148	B84	Z	3.425	3.425	0	%100
149	B85	X	0	0	0	%100
150	B85	Z	3.425	3.425	0	%100
151	B86	X	0	0	0	%100
152	B86	Z	2.015	2.015	0	%100
153	B87	X	0	0	0	%100
154	B87	Z	2.015	2.015	0	%100
155	MP1B	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
156	MP1B	Z	4.125	4.125	0 %100
157	MP2B	X	0	0	0 %100
158	MP2B	Z	4.376	4.376	0 %100
159	MP3B	X	0	0	0 %100
160	MP3B	Z	4.209	4.209	0 %100
161	MP4B	X	0	0	0 %100
162	MP4B	Z	4.125	4.125	0 %100
163	MP5B	X	0	0	0 %100
164	MP5B	Z	4.125	4.125	0 %100
165	C103	X	0	0	0 %100
166	C103	Z	1.497	1.497	0 %100
167	C104	X	0	0	0 %100
168	C104	Z	.325	.325	0 %100
169	C105	X	0	0	0 %100
170	C105	Z	1.497	1.497	0 %100
171	C106	X	0	0	0 %100
172	C106	Z	.325	.325	0 %100
173	C107	X	0	0	0 %100
174	C107	Z	2.193	2.193	0 %100
175	C108	X	0	0	0 %100
176	C108	Z	2.193	2.193	0 %100
177	C109	X	0	0	0 %100
178	C109	Z	2.193	2.193	0 %100
179	C110	X	0	0	0 %100
180	C110	Z	3.302	3.302	0 %100
181	C111	X	0	0	0 %100
182	C111	Z	3.302	3.302	0 %100
183	C112	X	0	0	0 %100
184	C112	Z	3.302	3.302	0 %100
185	C113	X	0	0	0 %100
186	C113	Z	2.193	2.193	0 %100
187	C114	X	0	0	0 %100
188	C114	Z	2.193	2.193	0 %100
189	C115	X	0	0	0 %100
190	C115	Z	2.193	2.193	0 %100
191	C116	X	0	0	0 %100
192	C116	Z	3.302	3.302	0 %100
193	C117	X	0	0	0 %100
194	C117	Z	3.302	3.302	0 %100
195	C118	X	0	0	0 %100
196	C118	Z	3.302	3.302	0 %100
197	C119	X	0	0	0 %100
198	C119	Z	3.14	3.14	0 %100
199	C120	X	0	0	0 %100
200	C120	Z	3.14	3.14	0 %100
201	C121	X	0	0	0 %100
202	C121	Z	3.14	3.14	0 %100
203	C122	X	0	0	0 %100
204	C122	Z	3.14	3.14	0 %100
205	C123	X	0	0	0 %100
206	C123	Z	.562	.562	0 %100
207	C124	X	0	0	0 %100
208	C124	Z	.562	.562	0 %100
209	C125	X	0	0	0 %100
210	C125	Z	.748	.748	0 %100
211	C126	X	0	0	0 %100
212	C126	Z	3.442	3.442	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
213	C127	X	0	0	0	%100
214	C127	Z	.748	.748	0	%100
215	C128	X	0	0	0	%100
216	C128	Z	3.442	3.442	0	%100
217	C129	X	0	0	0	%100
218	C129	Z	3.765	3.765	0	%100
219	C130	X	0	0	0	%100
220	C130	Z	3.765	3.765	0	%100
221	C131	X	0	0	0	%100
222	C131	Z	3.144	3.144	0	%100
223	C132	X	0	0	0	%100
224	C132	Z	3.144	3.144	0	%100
225	C133	X	0	0	0	%100
226	C133	Z	2.294	2.294	0	%100
227	C134	X	0	0	0	%100
228	C134	Z	2.294	2.294	0	%100
229	C135	X	0	0	0	%100
230	C135	Z	2.26	2.26	0	%100
231	C136	X	0	0	0	%100
232	C136	Z	2.26	2.26	0	%100
233	C137	X	0	0	0	%100
234	C137	Z	3.18	3.18	0	%100
235	C138	X	0	0	0	%100
236	C138	Z	3.18	3.18	0	%100
237	MP1C	X	0	0	0	%100
238	MP1C	Z	4.125	4.125	0	%100
239	MP2C	X	0	0	0	%100
240	MP2C	Z	4.376	4.376	0	%100
241	MP3C	X	0	0	0	%100
242	MP3C	Z	4.209	4.209	0	%100
243	MP4C	X	0	0	0	%100
244	MP4C	Z	4.125	4.125	0	%100
245	MP5C	X	0	0	0	%100
246	MP5C	Z	4.125	4.125	0	%100
247	M154	X	0	0	0	%100
248	M154	Z	5.271	5.271	0	%100
249	M155	X	0	0	0	%100
250	M155	Z	.871	.871	0	%100
251	M156	X	0	0	0	%100
252	M156	Z	4.185	4.185	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
1	A1	X	-.061	-.061	0	%100
2	A1	Z	.106	.106	0	%100
3	A2	X	-.85	-.85	0	%100
4	A2	Z	1.472	1.472	0	%100
5	A3	X	-.061	-.061	0	%100
6	A3	Z	.106	.106	0	%100
7	A4	X	-.85	-.85	0	%100
8	A4	Z	1.472	1.472	0	%100
9	A5	X	-1.747	-1.747	0	%100
10	A5	Z	3.026	3.026	0	%100
11	A6	X	-1.747	-1.747	0	%100
12	A6	Z	3.026	3.026	0	%100
13	A7	X	-1.747	-1.747	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	A7	Z	3.026	3.026	0	%100
15	A8	X	-1	-1	0	%100
16	A8	Z	1.732	1.732	0	%100
17	A9	X	-1	-1	0	%100
18	A9	Z	1.732	1.732	0	%100
19	A10	X	-1	-1	0	%100
20	A10	Z	1.732	1.732	0	%100
21	A11	X	-1.747	-1.747	0	%100
22	A11	Z	3.026	3.026	0	%100
23	A12	X	-1.747	-1.747	0	%100
24	A12	Z	3.026	3.026	0	%100
25	A13	X	-1.747	-1.747	0	%100
26	A13	Z	3.026	3.026	0	%100
27	A14	X	-1	-1	0	%100
28	A14	Z	1.732	1.732	0	%100
29	A15	X	-1	-1	0	%100
30	A15	Z	1.732	1.732	0	%100
31	A16	X	-1	-1	0	%100
32	A16	Z	1.732	1.732	0	%100
33	A17	X	-1.57	-1.57	0	%100
34	A17	Z	2.72	2.72	0	%100
35	A18	X	-1.57	-1.57	0	%100
36	A18	Z	2.72	2.72	0	%100
37	A19	X	-1.57	-1.57	0	%100
38	A19	Z	2.72	2.72	0	%100
39	A20	X	-1.57	-1.57	0	%100
40	A20	Z	2.72	2.72	0	%100
41	A21	X	-1.801	-1.801	0	%100
42	A21	Z	3.12	3.12	0	%100
43	A22	X	-1.801	-1.801	0	%100
44	A22	Z	3.12	3.12	0	%100
45	A23	X	-1.955	-1.955	0	%100
46	A23	Z	3.387	3.387	0	%100
47	A24	X	-.141	-.141	0	%100
48	A24	Z	.243	.243	0	%100
49	A25	X	-1.955	-1.955	0	%100
50	A25	Z	3.387	3.387	0	%100
51	A26	X	-.141	-.141	0	%100
52	A26	Z	.243	.243	0	%100
53	A27	X	-1.019	-1.019	0	%100
54	A27	Z	1.765	1.765	0	%100
55	A28	X	-1.019	-1.019	0	%100
56	A28	Z	1.765	1.765	0	%100
57	A29	X	-1.572	-1.572	0	%100
58	A29	Z	2.723	2.723	0	%100
59	A30	X	-1.572	-1.572	0	%100
60	A30	Z	2.723	2.723	0	%100
61	A31	X	-2.01	-2.01	0	%100
62	A31	Z	3.482	3.482	0	%100
63	A32	X	-2.01	-2.01	0	%100
64	A32	Z	3.482	3.482	0	%100
65	A33	X	-1.67	-1.67	0	%100
66	A33	Z	2.892	2.892	0	%100
67	A34	X	-1.67	-1.67	0	%100
68	A34	Z	2.892	2.892	0	%100
69	A35	X	-1.05	-1.05	0	%100
70	A35	Z	1.819	1.819	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	A36	X	-1.05	-1.05	0 %100
72	A36	Z	1.819	1.819	0 %100
73	MP1A	X	-2.063	-2.063	0 %100
74	MP1A	Z	3.572	3.572	0 %100
75	MP2A	X	-2.188	-2.188	0 %100
76	MP2A	Z	3.79	3.79	0 %100
77	MP3A	X	-2.104	-2.104	0 %100
78	MP3A	Z	3.645	3.645	0 %100
79	MP4A	X	-2.063	-2.063	0 %100
80	MP4A	Z	3.572	3.572	0 %100
81	MP5A	X	-2.063	-2.063	0 %100
82	MP5A	Z	3.572	3.572	0 %100
83	B52	X	-.3	-.3	0 %100
84	B52	Z	.519	.519	0 %100
85	B53	X	-.611	-.611	0 %100
86	B53	Z	1.059	1.059	0 %100
87	B54	X	-.3	-.3	0 %100
88	B54	Z	.519	.519	0 %100
89	B55	X	-.611	-.611	0 %100
90	B55	Z	1.059	1.059	0 %100
91	B56	X	-1.521	-1.521	0 %100
92	B56	Z	2.635	2.635	0 %100
93	B57	X	-1.521	-1.521	0 %100
94	B57	Z	2.635	2.635	0 %100
95	B58	X	-1.521	-1.521	0 %100
96	B58	Z	2.635	2.635	0 %100
97	B59	X	-1.226	-1.226	0 %100
98	B59	Z	2.124	2.124	0 %100
99	B60	X	-1.226	-1.226	0 %100
100	B60	Z	2.124	2.124	0 %100
101	B61	X	-1.226	-1.226	0 %100
102	B61	Z	2.124	2.124	0 %100
103	B62	X	-1.521	-1.521	0 %100
104	B62	Z	2.635	2.635	0 %100
105	B63	X	-1.521	-1.521	0 %100
106	B63	Z	2.635	2.635	0 %100
107	B64	X	-1.521	-1.521	0 %100
108	B64	Z	2.635	2.635	0 %100
109	B65	X	-1.226	-1.226	0 %100
110	B65	Z	2.124	2.124	0 %100
111	B66	X	-1.226	-1.226	0 %100
112	B66	Z	2.124	2.124	0 %100
113	B67	X	-1.226	-1.226	0 %100
114	B67	Z	2.124	2.124	0 %100
115	B68	X	-1.57	-1.57	0 %100
116	B68	Z	2.72	2.72	0 %100
117	B69	X	-1.57	-1.57	0 %100
118	B69	Z	2.72	2.72	0 %100
119	B70	X	-1.57	-1.57	0 %100
120	B70	Z	2.72	2.72	0 %100
121	B71	X	-1.57	-1.57	0 %100
122	B71	Z	2.72	2.72	0 %100
123	B72	X	-.072	-.072	0 %100
124	B72	Z	.125	.125	0 %100
125	B73	X	-.072	-.072	0 %100
126	B73	Z	.125	.125	0 %100
127	B74	X	-1.406	-1.406	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
128	B74	Z	2.435	2.435	0 %100
129	B75	X	-.689	-.689	0 %100
130	B75	Z	1.194	1.194	0 %100
131	B76	X	-1.406	-1.406	0 %100
132	B76	Z	2.435	2.435	0 %100
133	B77	X	-.689	-.689	0 %100
134	B77	Z	1.194	1.194	0 %100
135	B78	X	-1.319	-1.319	0 %100
136	B78	Z	2.285	2.285	0 %100
137	B79	X	-1.319	-1.319	0 %100
138	B79	Z	2.285	2.285	0 %100
139	B80	X	-1.572	-1.572	0 %100
140	B80	Z	2.723	2.723	0 %100
141	B81	X	-1.572	-1.572	0 %100
142	B81	Z	2.723	2.723	0 %100
143	B82	X	-1.711	-1.711	0 %100
144	B82	Z	2.963	2.963	0 %100
145	B83	X	-1.711	-1.711	0 %100
146	B83	Z	2.963	2.963	0 %100
147	B84	X	-1.482	-1.482	0 %100
148	B84	Z	2.567	2.567	0 %100
149	B85	X	-1.482	-1.482	0 %100
150	B85	Z	2.567	2.567	0 %100
151	B86	X	-1.238	-1.238	0 %100
152	B86	Z	2.144	2.144	0 %100
153	B87	X	-1.238	-1.238	0 %100
154	B87	Z	2.144	2.144	0 %100
155	MP1B	X	-2.063	-2.063	0 %100
156	MP1B	Z	3.572	3.572	0 %100
157	MP2B	X	-2.188	-2.188	0 %100
158	MP2B	Z	3.79	3.79	0 %100
159	MP3B	X	-2.104	-2.104	0 %100
160	MP3B	Z	3.645	3.645	0 %100
161	MP4B	X	-2.063	-2.063	0 %100
162	MP4B	Z	3.572	3.572	0 %100
163	MP5B	X	-2.063	-2.063	0 %100
164	MP5B	Z	3.572	3.572	0 %100
165	C103	X	-.904	-.904	0 %100
166	C103	Z	1.566	1.566	0 %100
167	C104	X	-.007	-.007	0 %100
168	C104	Z	.012	.012	0 %100
169	C105	X	-.904	-.904	0 %100
170	C105	Z	1.566	1.566	0 %100
171	C106	X	-.007	-.007	0 %100
172	C106	Z	.012	.012	0 %100
173	C107	X	-.949	-.949	0 %100
174	C107	Z	1.644	1.644	0 %100
175	C108	X	-.949	-.949	0 %100
176	C108	Z	1.644	1.644	0 %100
177	C109	X	-.949	-.949	0 %100
178	C109	Z	1.644	1.644	0 %100
179	C110	X	-1.798	-1.798	0 %100
180	C110	Z	3.115	3.115	0 %100
181	C111	X	-1.798	-1.798	0 %100
182	C111	Z	3.115	3.115	0 %100
183	C112	X	-1.798	-1.798	0 %100
184	C112	Z	3.115	3.115	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
185	C113	X	-0.949	-0.949	0 %100
186	C113	Z	1.644	1.644	0 %100
187	C114	X	-0.949	-0.949	0 %100
188	C114	Z	1.644	1.644	0 %100
189	C115	X	-0.949	-0.949	0 %100
190	C115	Z	1.644	1.644	0 %100
191	C116	X	-1.798	-1.798	0 %100
192	C116	Z	3.115	3.115	0 %100
193	C117	X	-1.798	-1.798	0 %100
194	C117	Z	3.115	3.115	0 %100
195	C118	X	-1.798	-1.798	0 %100
196	C118	Z	3.115	3.115	0 %100
197	C119	X	-1.57	-1.57	0 %100
198	C119	Z	2.72	2.72	0 %100
199	C120	X	-1.57	-1.57	0 %100
200	C120	Z	2.72	2.72	0 %100
201	C121	X	-1.57	-1.57	0 %100
202	C121	Z	2.72	2.72	0 %100
203	C122	X	-1.57	-1.57	0 %100
204	C122	Z	2.72	2.72	0 %100
205	C123	X	-1.409	-1.409	0 %100
206	C123	Z	2.441	2.441	0 %100
207	C124	X	-1.409	-1.409	0 %100
208	C124	Z	2.441	2.441	0 %100
209	C125	X	-0.016	-0.016	0 %100
210	C125	Z	0.028	0.028	0 %100
211	C126	X	-2.08	-2.08	0 %100
212	C126	Z	3.602	3.602	0 %100
213	C127	X	-0.016	-0.016	0 %100
214	C127	Z	0.028	0.028	0 %100
215	C128	X	-2.08	-2.08	0 %100
216	C128	Z	3.602	3.602	0 %100
217	C129	X	-2.078	-2.078	0 %100
218	C129	Z	3.6	3.6	0 %100
219	C130	X	-2.078	-2.078	0 %100
220	C130	Z	3.6	3.6	0 %100
221	C131	X	-1.572	-1.572	0 %100
222	C131	Z	2.723	2.723	0 %100
223	C132	X	-1.572	-1.572	0 %100
224	C132	Z	2.723	2.723	0 %100
225	C133	X	-0.951	-0.951	0 %100
226	C133	Z	1.647	1.647	0 %100
227	C134	X	-0.951	-0.951	0 %100
228	C134	Z	1.647	1.647	0 %100
229	C135	X	-1.008	-1.008	0 %100
230	C135	Z	1.745	1.745	0 %100
231	C136	X	-1.008	-1.008	0 %100
232	C136	Z	1.745	1.745	0 %100
233	C137	X	-1.712	-1.712	0 %100
234	C137	Z	2.966	2.966	0 %100
235	C138	X	-1.712	-1.712	0 %100
236	C138	Z	2.966	2.966	0 %100
237	MP1C	X	-2.063	-2.063	0 %100
238	MP1C	Z	3.572	3.572	0 %100
239	MP2C	X	-2.188	-2.188	0 %100
240	MP2C	Z	3.79	3.79	0 %100
241	MP3C	X	-2.104	-2.104	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
242	MP3C	Z	3.645	3.645	0	%100
243	MP4C	X	-2.063	-2.063	0	%100
244	MP4C	Z	3.572	3.572	0	%100
245	MP5C	X	-2.063	-2.063	0	%100
246	MP5C	Z	3.572	3.572	0	%100
247	M154	X	-1.921	-1.921	0	%100
248	M154	Z	3.328	3.328	0	%100
249	M155	X	-.029	-.029	0	%100
250	M155	Z	.05	.05	0	%100
251	M156	X	-2.63	-2.63	0	%100
252	M156	Z	4.555	4.555	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.106	-.106	0	%100
2	A1	Z	.061	.061	0	%100
3	A2	X	-1.472	-1.472	0	%100
4	A2	Z	.85	.85	0	%100
5	A3	X	-.106	-.106	0	%100
6	A3	Z	.061	.061	0	%100
7	A4	X	-1.472	-1.472	0	%100
8	A4	Z	.85	.85	0	%100
9	A5	X	-3.026	-3.026	0	%100
10	A5	Z	1.747	1.747	0	%100
11	A6	X	-3.026	-3.026	0	%100
12	A6	Z	1.747	1.747	0	%100
13	A7	X	-3.026	-3.026	0	%100
14	A7	Z	1.747	1.747	0	%100
15	A8	X	-1.732	-1.732	0	%100
16	A8	Z	1	1	0	%100
17	A9	X	-1.732	-1.732	0	%100
18	A9	Z	1	1	0	%100
19	A10	X	-1.732	-1.732	0	%100
20	A10	Z	1	1	0	%100
21	A11	X	-3.026	-3.026	0	%100
22	A11	Z	1.747	1.747	0	%100
23	A12	X	-3.026	-3.026	0	%100
24	A12	Z	1.747	1.747	0	%100
25	A13	X	-3.026	-3.026	0	%100
26	A13	Z	1.747	1.747	0	%100
27	A14	X	-1.732	-1.732	0	%100
28	A14	Z	1	1	0	%100
29	A15	X	-1.732	-1.732	0	%100
30	A15	Z	1	1	0	%100
31	A16	X	-1.732	-1.732	0	%100
32	A16	Z	1	1	0	%100
33	A17	X	-2.72	-2.72	0	%100
34	A17	Z	1.57	1.57	0	%100
35	A18	X	-2.72	-2.72	0	%100
36	A18	Z	1.57	1.57	0	%100
37	A19	X	-2.72	-2.72	0	%100
38	A19	Z	1.57	1.57	0	%100
39	A20	X	-2.72	-2.72	0	%100
40	A20	Z	1.57	1.57	0	%100
41	A21	X	-1.04	-1.04	0	%100
42	A21	Z	.6	.6	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	A22	X	-1.04	-1.04	0 %100
44	A22	Z	.6	.6	0 %100
45	A23	X	-3.386	-3.386	0 %100
46	A23	Z	1.955	1.955	0 %100
47	A24	X	-.243	-.243	0 %100
48	A24	Z	.14	.14	0 %100
49	A25	X	-3.386	-3.386	0 %100
50	A25	Z	1.955	1.955	0 %100
51	A26	X	-.243	-.243	0 %100
52	A26	Z	.14	.14	0 %100
53	A27	X	-1.765	-1.765	0 %100
54	A27	Z	1.019	1.019	0 %100
55	A28	X	-1.765	-1.765	0 %100
56	A28	Z	1.019	1.019	0 %100
57	A29	X	-2.723	-2.723	0 %100
58	A29	Z	1.572	1.572	0 %100
59	A30	X	-2.723	-2.723	0 %100
60	A30	Z	1.572	1.572	0 %100
61	A31	X	-3.482	-3.482	0 %100
62	A31	Z	2.01	2.01	0 %100
63	A32	X	-3.482	-3.482	0 %100
64	A32	Z	2.01	2.01	0 %100
65	A33	X	-2.892	-2.892	0 %100
66	A33	Z	1.67	1.67	0 %100
67	A34	X	-2.892	-2.892	0 %100
68	A34	Z	1.67	1.67	0 %100
69	A35	X	-1.819	-1.819	0 %100
70	A35	Z	1.05	1.05	0 %100
71	A36	X	-1.819	-1.819	0 %100
72	A36	Z	1.05	1.05	0 %100
73	MP1A	X	-3.572	-3.572	0 %100
74	MP1A	Z	2.063	2.063	0 %100
75	MP2A	X	-3.79	-3.79	0 %100
76	MP2A	Z	2.188	2.188	0 %100
77	MP3A	X	-3.645	-3.645	0 %100
78	MP3A	Z	2.104	2.104	0 %100
79	MP4A	X	-3.572	-3.572	0 %100
80	MP4A	Z	2.063	2.063	0 %100
81	MP5A	X	-3.572	-3.572	0 %100
82	MP5A	Z	2.063	2.063	0 %100
83	B52	X	-1.296	-1.296	0 %100
84	B52	Z	.748	.748	0 %100
85	B53	X	-.282	-.282	0 %100
86	B53	Z	.163	.163	0 %100
87	B54	X	-1.296	-1.296	0 %100
88	B54	Z	.748	.748	0 %100
89	B55	X	-.282	-.282	0 %100
90	B55	Z	.163	.163	0 %100
91	B56	X	-1.899	-1.899	0 %100
92	B56	Z	1.096	1.096	0 %100
93	B57	X	-1.899	-1.899	0 %100
94	B57	Z	1.096	1.096	0 %100
95	B58	X	-1.899	-1.899	0 %100
96	B58	Z	1.096	1.096	0 %100
97	B59	X	-2.859	-2.859	0 %100
98	B59	Z	1.651	1.651	0 %100
99	B60	X	-2.859	-2.859	0 %100



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 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
100	B60	Z	1.651	1.651	0 %100
101	B61	X	-2.859	-2.859	0 %100
102	B61	Z	1.651	1.651	0 %100
103	B62	X	-1.899	-1.899	0 %100
104	B62	Z	1.096	1.096	0 %100
105	B63	X	-1.899	-1.899	0 %100
106	B63	Z	1.096	1.096	0 %100
107	B64	X	-1.899	-1.899	0 %100
108	B64	Z	1.096	1.096	0 %100
109	B65	X	-2.859	-2.859	0 %100
110	B65	Z	1.651	1.651	0 %100
111	B66	X	-2.859	-2.859	0 %100
112	B66	Z	1.651	1.651	0 %100
113	B67	X	-2.859	-2.859	0 %100
114	B67	Z	1.651	1.651	0 %100
115	B68	X	-2.72	-2.72	0 %100
116	B68	Z	1.57	1.57	0 %100
117	B69	X	-2.72	-2.72	0 %100
118	B69	Z	1.57	1.57	0 %100
119	B70	X	-2.72	-2.72	0 %100
120	B70	Z	1.57	1.57	0 %100
121	B71	X	-2.72	-2.72	0 %100
122	B71	Z	1.57	1.57	0 %100
123	B72	X	-.487	-.487	0 %100
124	B72	Z	.281	.281	0 %100
125	B73	X	-.487	-.487	0 %100
126	B73	Z	.281	.281	0 %100
127	B74	X	-.648	-.648	0 %100
128	B74	Z	.374	.374	0 %100
129	B75	X	-2.981	-2.981	0 %100
130	B75	Z	1.721	1.721	0 %100
131	B76	X	-.648	-.648	0 %100
132	B76	Z	.374	.374	0 %100
133	B77	X	-2.981	-2.981	0 %100
134	B77	Z	1.721	1.721	0 %100
135	B78	X	-3.261	-3.261	0 %100
136	B78	Z	1.883	1.883	0 %100
137	B79	X	-3.261	-3.261	0 %100
138	B79	Z	1.883	1.883	0 %100
139	B80	X	-2.723	-2.723	0 %100
140	B80	Z	1.572	1.572	0 %100
141	B81	X	-2.723	-2.723	0 %100
142	B81	Z	1.572	1.572	0 %100
143	B82	X	-1.986	-1.986	0 %100
144	B82	Z	1.147	1.147	0 %100
145	B83	X	-1.986	-1.986	0 %100
146	B83	Z	1.147	1.147	0 %100
147	B84	X	-1.957	-1.957	0 %100
148	B84	Z	1.13	1.13	0 %100
149	B85	X	-1.957	-1.957	0 %100
150	B85	Z	1.13	1.13	0 %100
151	B86	X	-2.754	-2.754	0 %100
152	B86	Z	1.59	1.59	0 %100
153	B87	X	-2.754	-2.754	0 %100
154	B87	Z	1.59	1.59	0 %100
155	MP1B	X	-3.572	-3.572	0 %100
156	MP1B	Z	2.063	2.063	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
157	MP2B	X	-3.79	-3.79	0 %100
158	MP2B	Z	2.188	2.188	0 %100
159	MP3B	X	-3.645	-3.645	0 %100
160	MP3B	Z	2.104	2.104	0 %100
161	MP4B	X	-3.572	-3.572	0 %100
162	MP4B	Z	2.063	2.063	0 %100
163	MP5B	X	-3.572	-3.572	0 %100
164	MP5B	Z	2.063	2.063	0 %100
165	C103	X	-1.059	-1.059	0 %100
166	C103	Z	.611	.611	0 %100
167	C104	X	-519	-519	0 %100
168	C104	Z	3	3	0 %100
169	C105	X	-1.059	-1.059	0 %100
170	C105	Z	.611	.611	0 %100
171	C106	X	-519	-519	0 %100
172	C106	Z	3	3	0 %100
173	C107	X	-2.124	-2.124	0 %100
174	C107	Z	1.226	1.226	0 %100
175	C108	X	-2.124	-2.124	0 %100
176	C108	Z	1.226	1.226	0 %100
177	C109	X	-2.124	-2.124	0 %100
178	C109	Z	1.226	1.226	0 %100
179	C110	X	-2.635	-2.635	0 %100
180	C110	Z	1.521	1.521	0 %100
181	C111	X	-2.635	-2.635	0 %100
182	C111	Z	1.521	1.521	0 %100
183	C112	X	-2.635	-2.635	0 %100
184	C112	Z	1.521	1.521	0 %100
185	C113	X	-2.124	-2.124	0 %100
186	C113	Z	1.226	1.226	0 %100
187	C114	X	-2.124	-2.124	0 %100
188	C114	Z	1.226	1.226	0 %100
189	C115	X	-2.124	-2.124	0 %100
190	C115	Z	1.226	1.226	0 %100
191	C116	X	-2.635	-2.635	0 %100
192	C116	Z	1.521	1.521	0 %100
193	C117	X	-2.635	-2.635	0 %100
194	C117	Z	1.521	1.521	0 %100
195	C118	X	-2.635	-2.635	0 %100
196	C118	Z	1.521	1.521	0 %100
197	C119	X	-2.72	-2.72	0 %100
198	C119	Z	1.57	1.57	0 %100
199	C120	X	-2.72	-2.72	0 %100
200	C120	Z	1.57	1.57	0 %100
201	C121	X	-2.72	-2.72	0 %100
202	C121	Z	1.57	1.57	0 %100
203	C122	X	-2.72	-2.72	0 %100
204	C122	Z	1.57	1.57	0 %100
205	C123	X	-4.035	-4.035	0 %100
206	C123	Z	2.329	2.329	0 %100
207	C124	X	-4.035	-4.035	0 %100
208	C124	Z	2.329	2.329	0 %100
209	C125	X	-1.195	-1.195	0 %100
210	C125	Z	.69	.69	0 %100
211	C126	X	-2.436	-2.436	0 %100
212	C126	Z	1.407	1.407	0 %100
213	C127	X	-1.195	-1.195	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
214	C127	Z	.69	.69	0	%100
215	C128	X	-2.436	-2.436	0	%100
216	C128	Z	1.407	1.407	0	%100
217	C129	X	-2.963	-2.963	0	%100
218	C129	Z	1.711	1.711	0	%100
219	C130	X	-2.963	-2.963	0	%100
220	C130	Z	1.711	1.711	0	%100
221	C131	X	-2.723	-2.723	0	%100
222	C131	Z	1.572	1.572	0	%100
223	C132	X	-2.723	-2.723	0	%100
224	C132	Z	1.572	1.572	0	%100
225	C133	X	-2.285	-2.285	0	%100
226	C133	Z	1.319	1.319	0	%100
227	C134	X	-2.285	-2.285	0	%100
228	C134	Z	1.319	1.319	0	%100
229	C135	X	-2.144	-2.144	0	%100
230	C135	Z	1.238	1.238	0	%100
231	C136	X	-2.144	-2.144	0	%100
232	C136	Z	1.238	1.238	0	%100
233	C137	X	-2.568	-2.568	0	%100
234	C137	Z	1.483	1.483	0	%100
235	C138	X	-2.568	-2.568	0	%100
236	C138	Z	1.483	1.483	0	%100
237	MP1C	X	-3.572	-3.572	0	%100
238	MP1C	Z	2.063	2.063	0	%100
239	MP2C	X	-3.79	-3.79	0	%100
240	MP2C	Z	2.188	2.188	0	%100
241	MP3C	X	-3.645	-3.645	0	%100
242	MP3C	Z	2.104	2.104	0	%100
243	MP4C	X	-3.572	-3.572	0	%100
244	MP4C	Z	2.063	2.063	0	%100
245	MP5C	X	-3.572	-3.572	0	%100
246	MP5C	Z	2.063	2.063	0	%100
247	M154	X	-1.047	-1.047	0	%100
248	M154	Z	.604	.604	0	%100
249	M155	X	-1.58	-1.58	0	%100
250	M155	Z	.912	.912	0	%100
251	M156	X	-3.215	-3.215	0	%100
252	M156	Z	1.856	1.856	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.911	-.911	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	-.911	-.911	0	%100
4	A2	Z	0	0	0	%100
5	A3	X	-.911	-.911	0	%100
6	A3	Z	0	0	0	%100
7	A4	X	-.911	-.911	0	%100
8	A4	Z	0	0	0	%100
9	A5	X	-2.747	-2.747	0	%100
10	A5	Z	0	0	0	%100
11	A6	X	-2.747	-2.747	0	%100
12	A6	Z	0	0	0	%100
13	A7	X	-2.747	-2.747	0	%100
14	A7	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	A8	X	-2.747	-2.747	0 %100
16	A8	Z	0	0	0 %100
17	A9	X	-2.747	-2.747	0 %100
18	A9	Z	0	0	0 %100
19	A10	X	-2.747	-2.747	0 %100
20	A10	Z	0	0	0 %100
21	A11	X	-2.747	-2.747	0 %100
22	A11	Z	0	0	0 %100
23	A12	X	-2.747	-2.747	0 %100
24	A12	Z	0	0	0 %100
25	A13	X	-2.747	-2.747	0 %100
26	A13	Z	0	0	0 %100
27	A14	X	-2.747	-2.747	0 %100
28	A14	Z	0	0	0 %100
29	A15	X	-2.747	-2.747	0 %100
30	A15	Z	0	0	0 %100
31	A16	X	-2.747	-2.747	0 %100
32	A16	Z	0	0	0 %100
33	A17	X	-3.14	-3.14	0 %100
34	A17	Z	0	0	0 %100
35	A18	X	-3.14	-3.14	0 %100
36	A18	Z	0	0	0 %100
37	A19	X	-3.14	-3.14	0 %100
38	A19	Z	0	0	0 %100
39	A20	X	-3.14	-3.14	0 %100
40	A20	Z	0	0	0 %100
41	A21	X	0	0	0 %100
42	A21	Z	0	0	0 %100
43	A22	X	0	0	0 %100
44	A22	Z	0	0	0 %100
45	A23	X	-2.095	-2.095	0 %100
46	A23	Z	0	0	0 %100
47	A24	X	-2.095	-2.095	0 %100
48	A24	Z	0	0	0 %100
49	A25	X	-2.095	-2.095	0 %100
50	A25	Z	0	0	0 %100
51	A26	X	-2.095	-2.095	0 %100
52	A26	Z	0	0	0 %100
53	A27	X	-3.03	-3.03	0 %100
54	A27	Z	0	0	0 %100
55	A28	X	-3.03	-3.03	0 %100
56	A28	Z	0	0	0 %100
57	A29	X	-3.144	-3.144	0 %100
58	A29	Z	0	0	0 %100
59	A30	X	-3.144	-3.144	0 %100
60	A30	Z	0	0	0 %100
61	A31	X	-3.03	-3.03	0 %100
62	A31	Z	0	0	0 %100
63	A32	X	-3.03	-3.03	0 %100
64	A32	Z	0	0	0 %100
65	A33	X	-2.72	-2.72	0 %100
66	A33	Z	0	0	0 %100
67	A34	X	-2.72	-2.72	0 %100
68	A34	Z	0	0	0 %100
69	A35	X	-2.72	-2.72	0 %100
70	A35	Z	0	0	0 %100
71	A36	X	-2.72	-2.72	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
72	A36	Z	0	0	0	%100
73	MP1A	X	-4.125	-4.125	0	%100
74	MP1A	Z	0	0	0	%100
75	MP2A	X	-4.376	-4.376	0	%100
76	MP2A	Z	0	0	0	%100
77	MP3A	X	-4.209	-4.209	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-4.125	-4.125	0	%100
80	MP4A	Z	0	0	0	%100
81	MP5A	X	-4.125	-4.125	0	%100
82	MP5A	Z	0	0	0	%100
83	B52	X	-1.808	-1.808	0	%100
84	B52	Z	0	0	0	%100
85	B53	X	-.014	-.014	0	%100
86	B53	Z	0	0	0	%100
87	B54	X	-1.808	-1.808	0	%100
88	B54	Z	0	0	0	%100
89	B55	X	-.014	-.014	0	%100
90	B55	Z	0	0	0	%100
91	B56	X	-1.898	-1.898	0	%100
92	B56	Z	0	0	0	%100
93	B57	X	-1.898	-1.898	0	%100
94	B57	Z	0	0	0	%100
95	B58	X	-1.898	-1.898	0	%100
96	B58	Z	0	0	0	%100
97	B59	X	-3.597	-3.597	0	%100
98	B59	Z	0	0	0	%100
99	B60	X	-3.597	-3.597	0	%100
100	B60	Z	0	0	0	%100
101	B61	X	-3.597	-3.597	0	%100
102	B61	Z	0	0	0	%100
103	B62	X	-1.898	-1.898	0	%100
104	B62	Z	0	0	0	%100
105	B63	X	-1.898	-1.898	0	%100
106	B63	Z	0	0	0	%100
107	B64	X	-1.898	-1.898	0	%100
108	B64	Z	0	0	0	%100
109	B65	X	-3.597	-3.597	0	%100
110	B65	Z	0	0	0	%100
111	B66	X	-3.597	-3.597	0	%100
112	B66	Z	0	0	0	%100
113	B67	X	-3.597	-3.597	0	%100
114	B67	Z	0	0	0	%100
115	B68	X	-3.14	-3.14	0	%100
116	B68	Z	0	0	0	%100
117	B69	X	-3.14	-3.14	0	%100
118	B69	Z	0	0	0	%100
119	B70	X	-3.14	-3.14	0	%100
120	B70	Z	0	0	0	%100
121	B71	X	-3.14	-3.14	0	%100
122	B71	Z	0	0	0	%100
123	B72	X	-2.819	-2.819	0	%100
124	B72	Z	0	0	0	%100
125	B73	X	-2.819	-2.819	0	%100
126	B73	Z	0	0	0	%100
127	B74	X	-.032	-.032	0	%100
128	B74	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
129	B75	X	-4.16	-4.16	0 %100
130	B75	Z	0	0	0 %100
131	B76	X	-.032	-.032	0 %100
132	B76	Z	0	0	0 %100
133	B77	X	-4.16	-4.16	0 %100
134	B77	Z	0	0	0 %100
135	B78	X	-4.157	-4.157	0 %100
136	B78	Z	0	0	0 %100
137	B79	X	-4.157	-4.157	0 %100
138	B79	Z	0	0	0 %100
139	B80	X	-3.144	-3.144	0 %100
140	B80	Z	0	0	0 %100
141	B81	X	-3.144	-3.144	0 %100
142	B81	Z	0	0	0 %100
143	B82	X	-1.902	-1.902	0 %100
144	B82	Z	0	0	0 %100
145	B83	X	-1.902	-1.902	0 %100
146	B83	Z	0	0	0 %100
147	B84	X	-2.016	-2.016	0 %100
148	B84	Z	0	0	0 %100
149	B85	X	-2.016	-2.016	0 %100
150	B85	Z	0	0	0 %100
151	B86	X	-3.425	-3.425	0 %100
152	B86	Z	0	0	0 %100
153	B87	X	-3.425	-3.425	0 %100
154	B87	Z	0	0	0 %100
155	MP1B	X	-4.125	-4.125	0 %100
156	MP1B	Z	0	0	0 %100
157	MP2B	X	-4.376	-4.376	0 %100
158	MP2B	Z	0	0	0 %100
159	MP3B	X	-4.209	-4.209	0 %100
160	MP3B	Z	0	0	0 %100
161	MP4B	X	-4.125	-4.125	0 %100
162	MP4B	Z	0	0	0 %100
163	MP5B	X	-4.125	-4.125	0 %100
164	MP5B	Z	0	0	0 %100
165	C103	X	-.326	-.326	0 %100
166	C103	Z	0	0	0 %100
167	C104	X	-1.497	-1.497	0 %100
168	C104	Z	0	0	0 %100
169	C105	X	-.326	-.326	0 %100
170	C105	Z	0	0	0 %100
171	C106	X	-1.497	-1.497	0 %100
172	C106	Z	0	0	0 %100
173	C107	X	-3.302	-3.302	0 %100
174	C107	Z	0	0	0 %100
175	C108	X	-3.302	-3.302	0 %100
176	C108	Z	0	0	0 %100
177	C109	X	-3.302	-3.302	0 %100
178	C109	Z	0	0	0 %100
179	C110	X	-2.193	-2.193	0 %100
180	C110	Z	0	0	0 %100
181	C111	X	-2.193	-2.193	0 %100
182	C111	Z	0	0	0 %100
183	C112	X	-2.193	-2.193	0 %100
184	C112	Z	0	0	0 %100
185	C113	X	-3.302	-3.302	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
186	C113	Z	0	0	0	%100
187	C114	X	-3.302	-3.302	0	%100
188	C114	Z	0	0	0	%100
189	C115	X	-3.302	-3.302	0	%100
190	C115	Z	0	0	0	%100
191	C116	X	-2.193	-2.193	0	%100
192	C116	Z	0	0	0	%100
193	C117	X	-2.193	-2.193	0	%100
194	C117	Z	0	0	0	%100
195	C118	X	-2.193	-2.193	0	%100
196	C118	Z	0	0	0	%100
197	C119	X	-3.14	-3.14	0	%100
198	C119	Z	0	0	0	%100
199	C120	X	-3.14	-3.14	0	%100
200	C120	Z	0	0	0	%100
201	C121	X	-3.14	-3.14	0	%100
202	C121	Z	0	0	0	%100
203	C122	X	-3.14	-3.14	0	%100
204	C122	Z	0	0	0	%100
205	C123	X	-4.242	-4.242	0	%100
206	C123	Z	0	0	0	%100
207	C124	X	-4.242	-4.242	0	%100
208	C124	Z	0	0	0	%100
209	C125	X	-3.443	-3.443	0	%100
210	C125	Z	0	0	0	%100
211	C126	X	-.749	-.749	0	%100
212	C126	Z	0	0	0	%100
213	C127	X	-3.443	-3.443	0	%100
214	C127	Z	0	0	0	%100
215	C128	X	-.749	-.749	0	%100
216	C128	Z	0	0	0	%100
217	C129	X	-2.294	-2.294	0	%100
218	C129	Z	0	0	0	%100
219	C130	X	-2.294	-2.294	0	%100
220	C130	Z	0	0	0	%100
221	C131	X	-3.144	-3.144	0	%100
222	C131	Z	0	0	0	%100
223	C132	X	-3.144	-3.144	0	%100
224	C132	Z	0	0	0	%100
225	C133	X	-3.765	-3.765	0	%100
226	C133	Z	0	0	0	%100
227	C134	X	-3.765	-3.765	0	%100
228	C134	Z	0	0	0	%100
229	C135	X	-3.18	-3.18	0	%100
230	C135	Z	0	0	0	%100
231	C136	X	-3.18	-3.18	0	%100
232	C136	Z	0	0	0	%100
233	C137	X	-2.26	-2.26	0	%100
234	C137	Z	0	0	0	%100
235	C138	X	-2.26	-2.26	0	%100
236	C138	Z	0	0	0	%100
237	MP1C	X	-4.125	-4.125	0	%100
238	MP1C	Z	0	0	0	%100
239	MP2C	X	-4.376	-4.376	0	%100
240	MP2C	Z	0	0	0	%100
241	MP3C	X	-4.209	-4.209	0	%100
242	MP3C	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
243	MP4C	X	-4.125	-4.125	0 %100
244	MP4C	Z	0	0	0 %100
245	MP5C	X	-4.125	-4.125	0 %100
246	MP5C	Z	0	0	0 %100
247	M154	X	-.003	-.003	0 %100
248	M154	Z	0	0	0 %100
249	M155	X	-4.403	-4.403	0 %100
250	M155	Z	0	0	0 %100
251	M156	X	-1.089	-1.089	0 %100
252	M156	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-1.472	-1.472	0 %100
2	A1	Z	-.85	-.85	0 %100
3	A2	X	-.106	-.106	0 %100
4	A2	Z	-.061	-.061	0 %100
5	A3	X	-1.472	-1.472	0 %100
6	A3	Z	-.85	-.85	0 %100
7	A4	X	-.106	-.106	0 %100
8	A4	Z	-.061	-.061	0 %100
9	A5	X	-1.732	-1.732	0 %100
10	A5	Z	-1	-1	0 %100
11	A6	X	-1.732	-1.732	0 %100
12	A6	Z	-1	-1	0 %100
13	A7	X	-1.732	-1.732	0 %100
14	A7	Z	-1	-1	0 %100
15	A8	X	-3.026	-3.026	0 %100
16	A8	Z	-1.747	-1.747	0 %100
17	A9	X	-3.026	-3.026	0 %100
18	A9	Z	-1.747	-1.747	0 %100
19	A10	X	-3.026	-3.026	0 %100
20	A10	Z	-1.747	-1.747	0 %100
21	A11	X	-1.732	-1.732	0 %100
22	A11	Z	-1	-1	0 %100
23	A12	X	-1.732	-1.732	0 %100
24	A12	Z	-1	-1	0 %100
25	A13	X	-1.732	-1.732	0 %100
26	A13	Z	-1	-1	0 %100
27	A14	X	-3.026	-3.026	0 %100
28	A14	Z	-1.747	-1.747	0 %100
29	A15	X	-3.026	-3.026	0 %100
30	A15	Z	-1.747	-1.747	0 %100
31	A16	X	-3.026	-3.026	0 %100
32	A16	Z	-1.747	-1.747	0 %100
33	A17	X	-2.72	-2.72	0 %100
34	A17	Z	-1.57	-1.57	0 %100
35	A18	X	-2.72	-2.72	0 %100
36	A18	Z	-1.57	-1.57	0 %100
37	A19	X	-2.72	-2.72	0 %100
38	A19	Z	-1.57	-1.57	0 %100
39	A20	X	-2.72	-2.72	0 %100
40	A20	Z	-1.57	-1.57	0 %100
41	A21	X	-1.04	-1.04	0 %100
42	A21	Z	-.6	-.6	0 %100
43	A22	X	-1.04	-1.04	0 %100



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 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	A22	Z	-6	-6	0 %100
45	A23	X	-.243	-.243	0 %100
46	A23	Z	-.14	-.14	0 %100
47	A24	X	-3.386	-3.386	0 %100
48	A24	Z	-1.955	-1.955	0 %100
49	A25	X	-.243	-.243	0 %100
50	A25	Z	-.14	-.14	0 %100
51	A26	X	-3.386	-3.386	0 %100
52	A26	Z	-1.955	-1.955	0 %100
53	A27	X	-3.482	-3.482	0 %100
54	A27	Z	-2.01	-2.01	0 %100
55	A28	X	-3.482	-3.482	0 %100
56	A28	Z	-2.01	-2.01	0 %100
57	A29	X	-2.723	-2.723	0 %100
58	A29	Z	-1.572	-1.572	0 %100
59	A30	X	-2.723	-2.723	0 %100
60	A30	Z	-1.572	-1.572	0 %100
61	A31	X	-1.765	-1.765	0 %100
62	A31	Z	-1.019	-1.019	0 %100
63	A32	X	-1.765	-1.765	0 %100
64	A32	Z	-1.019	-1.019	0 %100
65	A33	X	-1.819	-1.819	0 %100
66	A33	Z	-1.05	-1.05	0 %100
67	A34	X	-1.819	-1.819	0 %100
68	A34	Z	-1.05	-1.05	0 %100
69	A35	X	-2.892	-2.892	0 %100
70	A35	Z	-1.67	-1.67	0 %100
71	A36	X	-2.892	-2.892	0 %100
72	A36	Z	-1.67	-1.67	0 %100
73	MP1A	X	-3.572	-3.572	0 %100
74	MP1A	Z	-2.063	-2.063	0 %100
75	MP2A	X	-3.79	-3.79	0 %100
76	MP2A	Z	-2.188	-2.188	0 %100
77	MP3A	X	-3.645	-3.645	0 %100
78	MP3A	Z	-2.104	-2.104	0 %100
79	MP4A	X	-3.572	-3.572	0 %100
80	MP4A	Z	-2.063	-2.063	0 %100
81	MP5A	X	-3.572	-3.572	0 %100
82	MP5A	Z	-2.063	-2.063	0 %100
83	B52	X	-1.059	-1.059	0 %100
84	B52	Z	-.611	-.611	0 %100
85	B53	X	-.519	-.519	0 %100
86	B53	Z	-.3	-.3	0 %100
87	B54	X	-1.059	-1.059	0 %100
88	B54	Z	-.611	-.611	0 %100
89	B55	X	-.519	-.519	0 %100
90	B55	Z	-.3	-.3	0 %100
91	B56	X	-2.124	-2.124	0 %100
92	B56	Z	-1.226	-1.226	0 %100
93	B57	X	-2.124	-2.124	0 %100
94	B57	Z	-1.226	-1.226	0 %100
95	B58	X	-2.124	-2.124	0 %100
96	B58	Z	-1.226	-1.226	0 %100
97	B59	X	-2.635	-2.635	0 %100
98	B59	Z	-1.521	-1.521	0 %100
99	B60	X	-2.635	-2.635	0 %100
100	B60	Z	-1.521	-1.521	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
101	B61	X	-2.635	-2.635	0 %100
102	B61	Z	-1.521	-1.521	0 %100
103	B62	X	-2.124	-2.124	0 %100
104	B62	Z	-1.226	-1.226	0 %100
105	B63	X	-2.124	-2.124	0 %100
106	B63	Z	-1.226	-1.226	0 %100
107	B64	X	-2.124	-2.124	0 %100
108	B64	Z	-1.226	-1.226	0 %100
109	B65	X	-2.635	-2.635	0 %100
110	B65	Z	-1.521	-1.521	0 %100
111	B66	X	-2.635	-2.635	0 %100
112	B66	Z	-1.521	-1.521	0 %100
113	B67	X	-2.635	-2.635	0 %100
114	B67	Z	-1.521	-1.521	0 %100
115	B68	X	-2.72	-2.72	0 %100
116	B68	Z	-1.57	-1.57	0 %100
117	B69	X	-2.72	-2.72	0 %100
118	B69	Z	-1.57	-1.57	0 %100
119	B70	X	-2.72	-2.72	0 %100
120	B70	Z	-1.57	-1.57	0 %100
121	B71	X	-2.72	-2.72	0 %100
122	B71	Z	-1.57	-1.57	0 %100
123	B72	X	-4.035	-4.035	0 %100
124	B72	Z	-2.329	-2.329	0 %100
125	B73	X	-4.035	-4.035	0 %100
126	B73	Z	-2.329	-2.329	0 %100
127	B74	X	-1.195	-1.195	0 %100
128	B74	Z	-.69	-.69	0 %100
129	B75	X	-2.436	-2.436	0 %100
130	B75	Z	-1.407	-1.407	0 %100
131	B76	X	-1.195	-1.195	0 %100
132	B76	Z	-.69	-.69	0 %100
133	B77	X	-2.436	-2.436	0 %100
134	B77	Z	-1.407	-1.407	0 %100
135	B78	X	-2.963	-2.963	0 %100
136	B78	Z	-1.711	-1.711	0 %100
137	B79	X	-2.963	-2.963	0 %100
138	B79	Z	-1.711	-1.711	0 %100
139	B80	X	-2.723	-2.723	0 %100
140	B80	Z	-1.572	-1.572	0 %100
141	B81	X	-2.723	-2.723	0 %100
142	B81	Z	-1.572	-1.572	0 %100
143	B82	X	-2.285	-2.285	0 %100
144	B82	Z	-1.319	-1.319	0 %100
145	B83	X	-2.285	-2.285	0 %100
146	B83	Z	-1.319	-1.319	0 %100
147	B84	X	-2.144	-2.144	0 %100
148	B84	Z	-1.238	-1.238	0 %100
149	B85	X	-2.144	-2.144	0 %100
150	B85	Z	-1.238	-1.238	0 %100
151	B86	X	-2.568	-2.568	0 %100
152	B86	Z	-1.483	-1.483	0 %100
153	B87	X	-2.568	-2.568	0 %100
154	B87	Z	-1.483	-1.483	0 %100
155	MP1B	X	-3.572	-3.572	0 %100
156	MP1B	Z	-2.063	-2.063	0 %100
157	MP2B	X	-3.79	-3.79	0 %100



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 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
158	MP2B	Z	-2.188	-2.188	0 %100
159	MP3B	X	-3.645	-3.645	0 %100
160	MP3B	Z	-2.104	-2.104	0 %100
161	MP4B	X	-3.572	-3.572	0 %100
162	MP4B	Z	-2.063	-2.063	0 %100
163	MP5B	X	-3.572	-3.572	0 %100
164	MP5B	Z	-2.063	-2.063	0 %100
165	C103	X	-.012	-.012	0 %100
166	C103	Z	-.007	-.007	0 %100
167	C104	X	-1.566	-1.566	0 %100
168	C104	Z	-.904	-.904	0 %100
169	C105	X	-.012	-.012	0 %100
170	C105	Z	-.007	-.007	0 %100
171	C106	X	-1.566	-1.566	0 %100
172	C106	Z	-.904	-.904	0 %100
173	C107	X	-3.115	-3.115	0 %100
174	C107	Z	-1.798	-1.798	0 %100
175	C108	X	-3.115	-3.115	0 %100
176	C108	Z	-1.798	-1.798	0 %100
177	C109	X	-3.115	-3.115	0 %100
178	C109	Z	-1.798	-1.798	0 %100
179	C110	X	-1.644	-1.644	0 %100
180	C110	Z	-.949	-.949	0 %100
181	C111	X	-1.644	-1.644	0 %100
182	C111	Z	-.949	-.949	0 %100
183	C112	X	-1.644	-1.644	0 %100
184	C112	Z	-.949	-.949	0 %100
185	C113	X	-3.115	-3.115	0 %100
186	C113	Z	-1.798	-1.798	0 %100
187	C114	X	-3.115	-3.115	0 %100
188	C114	Z	-1.798	-1.798	0 %100
189	C115	X	-3.115	-3.115	0 %100
190	C115	Z	-1.798	-1.798	0 %100
191	C116	X	-1.644	-1.644	0 %100
192	C116	Z	-.949	-.949	0 %100
193	C117	X	-1.644	-1.644	0 %100
194	C117	Z	-.949	-.949	0 %100
195	C118	X	-1.644	-1.644	0 %100
196	C118	Z	-.949	-.949	0 %100
197	C119	X	-2.72	-2.72	0 %100
198	C119	Z	-1.57	-1.57	0 %100
199	C120	X	-2.72	-2.72	0 %100
200	C120	Z	-1.57	-1.57	0 %100
201	C121	X	-2.72	-2.72	0 %100
202	C121	Z	-1.57	-1.57	0 %100
203	C122	X	-2.72	-2.72	0 %100
204	C122	Z	-1.57	-1.57	0 %100
205	C123	X	-1.719	-1.719	0 %100
206	C123	Z	-.992	-.992	0 %100
207	C124	X	-1.719	-1.719	0 %100
208	C124	Z	-.992	-.992	0 %100
209	C125	X	-3.602	-3.602	0 %100
210	C125	Z	-2.08	-2.08	0 %100
211	C126	X	-.027	-.027	0 %100
212	C126	Z	-.016	-.016	0 %100
213	C127	X	-3.602	-3.602	0 %100
214	C127	Z	-2.08	-2.08	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
215	C128	X	-0.027	-0.027	0	%100
216	C128	Z	-0.016	-0.016	0	%100
217	C129	X	-1.647	-1.647	0	%100
218	C129	Z	-0.951	-0.951	0	%100
219	C130	X	-1.647	-1.647	0	%100
220	C130	Z	-0.951	-0.951	0	%100
221	C131	X	-2.723	-2.723	0	%100
222	C131	Z	-1.572	-1.572	0	%100
223	C132	X	-2.723	-2.723	0	%100
224	C132	Z	-1.572	-1.572	0	%100
225	C133	X	-3.6	-3.6	0	%100
226	C133	Z	-2.078	-2.078	0	%100
227	C134	X	-3.6	-3.6	0	%100
228	C134	Z	-2.078	-2.078	0	%100
229	C135	X	-2.966	-2.966	0	%100
230	C135	Z	-1.712	-1.712	0	%100
231	C136	X	-2.966	-2.966	0	%100
232	C136	Z	-1.712	-1.712	0	%100
233	C137	X	-1.745	-1.745	0	%100
234	C137	Z	-1.008	-1.008	0	%100
235	C138	X	-1.745	-1.745	0	%100
236	C138	Z	-1.008	-1.008	0	%100
237	MP1C	X	-3.572	-3.572	0	%100
238	MP1C	Z	-2.063	-2.063	0	%100
239	MP2C	X	-3.79	-3.79	0	%100
240	MP2C	Z	-2.188	-2.188	0	%100
241	MP3C	X	-3.645	-3.645	0	%100
242	MP3C	Z	-2.104	-2.104	0	%100
243	MP4C	X	-3.572	-3.572	0	%100
244	MP4C	Z	-2.063	-2.063	0	%100
245	MP5C	X	-3.572	-3.572	0	%100
246	MP5C	Z	-2.063	-2.063	0	%100
247	M154	X	-1.24	-1.24	0	%100
248	M154	Z	-0.716	-0.716	0	%100
249	M155	X	-4.517	-4.517	0	%100
250	M155	Z	-2.608	-2.608	0	%100
251	M156	X	-0.012	-0.012	0	%100
252	M156	Z	-0.007	-0.007	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-0.85	-0.85	0	%100
2	A1	Z	-1.472	-1.472	0	%100
3	A2	X	-0.061	-0.061	0	%100
4	A2	Z	-0.106	-0.106	0	%100
5	A3	X	-0.85	-0.85	0	%100
6	A3	Z	-1.472	-1.472	0	%100
7	A4	X	-0.061	-0.061	0	%100
8	A4	Z	-0.106	-0.106	0	%100
9	A5	X	-1	-1	0	%100
10	A5	Z	-1.732	-1.732	0	%100
11	A6	X	-1	-1	0	%100
12	A6	Z	-1.732	-1.732	0	%100
13	A7	X	-1	-1	0	%100
14	A7	Z	-1.732	-1.732	0	%100
15	A8	X	-1.747	-1.747	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	A8	Z	-3.026	-3.026	0 %100
17	A9	X	-1.747	-1.747	0 %100
18	A9	Z	-3.026	-3.026	0 %100
19	A10	X	-1.747	-1.747	0 %100
20	A10	Z	-3.026	-3.026	0 %100
21	A11	X	-1	-1	0 %100
22	A11	Z	-1.732	-1.732	0 %100
23	A12	X	-1	-1	0 %100
24	A12	Z	-1.732	-1.732	0 %100
25	A13	X	-1	-1	0 %100
26	A13	Z	-1.732	-1.732	0 %100
27	A14	X	-1.747	-1.747	0 %100
28	A14	Z	-3.026	-3.026	0 %100
29	A15	X	-1.747	-1.747	0 %100
30	A15	Z	-3.026	-3.026	0 %100
31	A16	X	-1.747	-1.747	0 %100
32	A16	Z	-3.026	-3.026	0 %100
33	A17	X	-1.57	-1.57	0 %100
34	A17	Z	-2.72	-2.72	0 %100
35	A18	X	-1.57	-1.57	0 %100
36	A18	Z	-2.72	-2.72	0 %100
37	A19	X	-1.57	-1.57	0 %100
38	A19	Z	-2.72	-2.72	0 %100
39	A20	X	-1.57	-1.57	0 %100
40	A20	Z	-2.72	-2.72	0 %100
41	A21	X	-1.801	-1.801	0 %100
42	A21	Z	-3.12	-3.12	0 %100
43	A22	X	-1.801	-1.801	0 %100
44	A22	Z	-3.12	-3.12	0 %100
45	A23	X	-1.141	-1.141	0 %100
46	A23	Z	-2.43	-2.43	0 %100
47	A24	X	-1.955	-1.955	0 %100
48	A24	Z	-3.387	-3.387	0 %100
49	A25	X	-1.141	-1.141	0 %100
50	A25	Z	-2.43	-2.43	0 %100
51	A26	X	-1.955	-1.955	0 %100
52	A26	Z	-3.387	-3.387	0 %100
53	A27	X	-2.01	-2.01	0 %100
54	A27	Z	-3.482	-3.482	0 %100
55	A28	X	-2.01	-2.01	0 %100
56	A28	Z	-3.482	-3.482	0 %100
57	A29	X	-1.572	-1.572	0 %100
58	A29	Z	-2.723	-2.723	0 %100
59	A30	X	-1.572	-1.572	0 %100
60	A30	Z	-2.723	-2.723	0 %100
61	A31	X	-1.019	-1.019	0 %100
62	A31	Z	-1.765	-1.765	0 %100
63	A32	X	-1.019	-1.019	0 %100
64	A32	Z	-1.765	-1.765	0 %100
65	A33	X	-1.05	-1.05	0 %100
66	A33	Z	-1.819	-1.819	0 %100
67	A34	X	-1.05	-1.05	0 %100
68	A34	Z	-1.819	-1.819	0 %100
69	A35	X	-1.67	-1.67	0 %100
70	A35	Z	-2.892	-2.892	0 %100
71	A36	X	-1.67	-1.67	0 %100
72	A36	Z	-2.892	-2.892	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
73	MP1A	X	-2.063	-2.063	0 %100
74	MP1A	Z	-3.572	-3.572	0 %100
75	MP2A	X	-2.188	-2.188	0 %100
76	MP2A	Z	-3.79	-3.79	0 %100
77	MP3A	X	-2.104	-2.104	0 %100
78	MP3A	Z	-3.645	-3.645	0 %100
79	MP4A	X	-2.063	-2.063	0 %100
80	MP4A	Z	-3.572	-3.572	0 %100
81	MP5A	X	-2.063	-2.063	0 %100
82	MP5A	Z	-3.572	-3.572	0 %100
83	B52	X	-.163	-.163	0 %100
84	B52	Z	-.282	-.282	0 %100
85	B53	X	-.748	-.748	0 %100
86	B53	Z	-1.296	-1.296	0 %100
87	B54	X	-.163	-.163	0 %100
88	B54	Z	-.282	-.282	0 %100
89	B55	X	-.748	-.748	0 %100
90	B55	Z	-1.296	-1.296	0 %100
91	B56	X	-1.651	-1.651	0 %100
92	B56	Z	-2.859	-2.859	0 %100
93	B57	X	-1.651	-1.651	0 %100
94	B57	Z	-2.859	-2.859	0 %100
95	B58	X	-1.651	-1.651	0 %100
96	B58	Z	-2.859	-2.859	0 %100
97	B59	X	-1.096	-1.096	0 %100
98	B59	Z	-1.899	-1.899	0 %100
99	B60	X	-1.096	-1.096	0 %100
100	B60	Z	-1.899	-1.899	0 %100
101	B61	X	-1.096	-1.096	0 %100
102	B61	Z	-1.899	-1.899	0 %100
103	B62	X	-1.651	-1.651	0 %100
104	B62	Z	-2.859	-2.859	0 %100
105	B63	X	-1.651	-1.651	0 %100
106	B63	Z	-2.859	-2.859	0 %100
107	B64	X	-1.651	-1.651	0 %100
108	B64	Z	-2.859	-2.859	0 %100
109	B65	X	-1.096	-1.096	0 %100
110	B65	Z	-1.899	-1.899	0 %100
111	B66	X	-1.096	-1.096	0 %100
112	B66	Z	-1.899	-1.899	0 %100
113	B67	X	-1.096	-1.096	0 %100
114	B67	Z	-1.899	-1.899	0 %100
115	B68	X	-1.57	-1.57	0 %100
116	B68	Z	-2.72	-2.72	0 %100
117	B69	X	-1.57	-1.57	0 %100
118	B69	Z	-2.72	-2.72	0 %100
119	B70	X	-1.57	-1.57	0 %100
120	B70	Z	-2.72	-2.72	0 %100
121	B71	X	-1.57	-1.57	0 %100
122	B71	Z	-2.72	-2.72	0 %100
123	B72	X	-2.121	-2.121	0 %100
124	B72	Z	-3.674	-3.674	0 %100
125	B73	X	-2.121	-2.121	0 %100
126	B73	Z	-3.674	-3.674	0 %100
127	B74	X	-1.722	-1.722	0 %100
128	B74	Z	-2.982	-2.982	0 %100
129	B75	X	-.375	-.375	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
130	B75	Z	-0.649	-0.649	0 %100
131	B76	X	-1.722	-1.722	0 %100
132	B76	Z	-2.982	-2.982	0 %100
133	B77	X	-0.375	-0.375	0 %100
134	B77	Z	-0.649	-0.649	0 %100
135	B78	X	-1.147	-1.147	0 %100
136	B78	Z	-1.986	-1.986	0 %100
137	B79	X	-1.147	-1.147	0 %100
138	B79	Z	-1.986	-1.986	0 %100
139	B80	X	-1.572	-1.572	0 %100
140	B80	Z	-2.723	-2.723	0 %100
141	B81	X	-1.572	-1.572	0 %100
142	B81	Z	-2.723	-2.723	0 %100
143	B82	X	-1.883	-1.883	0 %100
144	B82	Z	-3.261	-3.261	0 %100
145	B83	X	-1.883	-1.883	0 %100
146	B83	Z	-3.261	-3.261	0 %100
147	B84	X	-1.59	-1.59	0 %100
148	B84	Z	-2.754	-2.754	0 %100
149	B85	X	-1.59	-1.59	0 %100
150	B85	Z	-2.754	-2.754	0 %100
151	B86	X	-1.13	-1.13	0 %100
152	B86	Z	-1.958	-1.958	0 %100
153	B87	X	-1.13	-1.13	0 %100
154	B87	Z	-1.958	-1.958	0 %100
155	MP1B	X	-2.063	-2.063	0 %100
156	MP1B	Z	-3.572	-3.572	0 %100
157	MP2B	X	-2.188	-2.188	0 %100
158	MP2B	Z	-3.79	-3.79	0 %100
159	MP3B	X	-2.104	-2.104	0 %100
160	MP3B	Z	-3.645	-3.645	0 %100
161	MP4B	X	-2.063	-2.063	0 %100
162	MP4B	Z	-3.572	-3.572	0 %100
163	MP5B	X	-2.063	-2.063	0 %100
164	MP5B	Z	-3.572	-3.572	0 %100
165	C103	X	-0.3	-0.3	0 %100
166	C103	Z	-0.519	-0.519	0 %100
167	C104	X	-0.611	-0.611	0 %100
168	C104	Z	-1.059	-1.059	0 %100
169	C105	X	-0.3	-0.3	0 %100
170	C105	Z	-0.519	-0.519	0 %100
171	C106	X	-0.611	-0.611	0 %100
172	C106	Z	-1.059	-1.059	0 %100
173	C107	X	-1.521	-1.521	0 %100
174	C107	Z	-2.635	-2.635	0 %100
175	C108	X	-1.521	-1.521	0 %100
176	C108	Z	-2.635	-2.635	0 %100
177	C109	X	-1.521	-1.521	0 %100
178	C109	Z	-2.635	-2.635	0 %100
179	C110	X	-1.226	-1.226	0 %100
180	C110	Z	-2.124	-2.124	0 %100
181	C111	X	-1.226	-1.226	0 %100
182	C111	Z	-2.124	-2.124	0 %100
183	C112	X	-1.226	-1.226	0 %100
184	C112	Z	-2.124	-2.124	0 %100
185	C113	X	-1.521	-1.521	0 %100
186	C113	Z	-2.635	-2.635	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
187	C114	X	-1.521	-1.521	0 %100
188	C114	Z	-2.635	-2.635	0 %100
189	C115	X	-1.521	-1.521	0 %100
190	C115	Z	-2.635	-2.635	0 %100
191	C116	X	-1.226	-1.226	0 %100
192	C116	Z	-2.124	-2.124	0 %100
193	C117	X	-1.226	-1.226	0 %100
194	C117	Z	-2.124	-2.124	0 %100
195	C118	X	-1.226	-1.226	0 %100
196	C118	Z	-2.124	-2.124	0 %100
197	C119	X	-1.57	-1.57	0 %100
198	C119	Z	-2.72	-2.72	0 %100
199	C120	X	-1.57	-1.57	0 %100
200	C120	Z	-2.72	-2.72	0 %100
201	C121	X	-1.57	-1.57	0 %100
202	C121	Z	-2.72	-2.72	0 %100
203	C122	X	-1.57	-1.57	0 %100
204	C122	Z	-2.72	-2.72	0 %100
205	C123	X	-.072	-.072	0 %100
206	C123	Z	-.125	-.125	0 %100
207	C124	X	-.072	-.072	0 %100
208	C124	Z	-.125	-.125	0 %100
209	C125	X	-1.406	-1.406	0 %100
210	C125	Z	-2.435	-2.435	0 %100
211	C126	X	-.689	-.689	0 %100
212	C126	Z	-1.194	-1.194	0 %100
213	C127	X	-1.406	-1.406	0 %100
214	C127	Z	-2.435	-2.435	0 %100
215	C128	X	-.689	-.689	0 %100
216	C128	Z	-1.194	-1.194	0 %100
217	C129	X	-1.319	-1.319	0 %100
218	C129	Z	-2.285	-2.285	0 %100
219	C130	X	-1.319	-1.319	0 %100
220	C130	Z	-2.285	-2.285	0 %100
221	C131	X	-1.572	-1.572	0 %100
222	C131	Z	-2.723	-2.723	0 %100
223	C132	X	-1.572	-1.572	0 %100
224	C132	Z	-2.723	-2.723	0 %100
225	C133	X	-1.711	-1.711	0 %100
226	C133	Z	-2.963	-2.963	0 %100
227	C134	X	-1.711	-1.711	0 %100
228	C134	Z	-2.963	-2.963	0 %100
229	C135	X	-1.482	-1.482	0 %100
230	C135	Z	-2.567	-2.567	0 %100
231	C136	X	-1.482	-1.482	0 %100
232	C136	Z	-2.567	-2.567	0 %100
233	C137	X	-1.238	-1.238	0 %100
234	C137	Z	-2.144	-2.144	0 %100
235	C138	X	-1.238	-1.238	0 %100
236	C138	Z	-2.144	-2.144	0 %100
237	MP1C	X	-2.063	-2.063	0 %100
238	MP1C	Z	-3.572	-3.572	0 %100
239	MP2C	X	-2.188	-2.188	0 %100
240	MP2C	Z	-3.79	-3.79	0 %100
241	MP3C	X	-2.104	-2.104	0 %100
242	MP3C	Z	-3.645	-3.645	0 %100
243	MP4C	X	-2.063	-2.063	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
244	MP4C	Z	-3.572	-3.572	0	%100
245	MP5C	X	-2.063	-2.063	0	%100
246	MP5C	Z	-3.572	-3.572	0	%100
247	M154	X	-2.033	-2.033	0	%100
248	M154	Z	-3.521	-3.521	0	%100
249	M155	X	-1.725	-1.725	0	%100
250	M155	Z	-2.988	-2.988	0	%100
251	M156	X	-.781	-.781	0	%100
252	M156	Z	-1.353	-1.353	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	-.051	-.051	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-.051	-.051	0	%100
5	A3	X	0	0	0	%100
6	A3	Z	-.051	-.051	0	%100
7	A4	X	0	0	0	%100
8	A4	Z	-.051	-.051	0	%100
9	A5	X	0	0	0	%100
10	A5	Z	-.435	-.435	0	%100
11	A6	X	0	0	0	%100
12	A6	Z	-.435	-.435	0	%100
13	A7	X	0	0	0	%100
14	A7	Z	-.435	-.435	0	%100
15	A8	X	0	0	0	%100
16	A8	Z	-.435	-.435	0	%100
17	A9	X	0	0	0	%100
18	A9	Z	-.435	-.435	0	%100
19	A10	X	0	0	0	%100
20	A10	Z	-.435	-.435	0	%100
21	A11	X	0	0	0	%100
22	A11	Z	-.435	-.435	0	%100
23	A12	X	0	0	0	%100
24	A12	Z	-.435	-.435	0	%100
25	A13	X	0	0	0	%100
26	A13	Z	-.435	-.435	0	%100
27	A14	X	0	0	0	%100
28	A14	Z	-.435	-.435	0	%100
29	A15	X	0	0	0	%100
30	A15	Z	-.435	-.435	0	%100
31	A16	X	0	0	0	%100
32	A16	Z	-.435	-.435	0	%100
33	A17	X	0	0	0	%100
34	A17	Z	-.448	-.448	0	%100
35	A18	X	0	0	0	%100
36	A18	Z	-.448	-.448	0	%100
37	A19	X	0	0	0	%100
38	A19	Z	-.448	-.448	0	%100
39	A20	X	0	0	0	%100
40	A20	Z	-.448	-.448	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	-.779	-.779	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	-.779	-.779	0	%100



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 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
 3:46 PM
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Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
45	A23	X	0	0	0	%100
46	A23	Z	-.322	-.322	0	%100
47	A24	X	0	0	0	%100
48	A24	Z	-.322	-.322	0	%100
49	A25	X	0	0	0	%100
50	A25	Z	-.322	-.322	0	%100
51	A26	X	0	0	0	%100
52	A26	Z	-.322	-.322	0	%100
53	A27	X	0	0	0	%100
54	A27	Z	-.536	-.536	0	%100
55	A28	X	0	0	0	%100
56	A28	Z	-.536	-.536	0	%100
57	A29	X	0	0	0	%100
58	A29	Z	-.484	-.484	0	%100
59	A30	X	0	0	0	%100
60	A30	Z	-.484	-.484	0	%100
61	A31	X	0	0	0	%100
62	A31	Z	-.536	-.536	0	%100
63	A32	X	0	0	0	%100
64	A32	Z	-.536	-.536	0	%100
65	A33	X	0	0	0	%100
66	A33	Z	-.397	-.397	0	%100
67	A34	X	0	0	0	%100
68	A34	Z	-.397	-.397	0	%100
69	A35	X	0	0	0	%100
70	A35	Z	-.397	-.397	0	%100
71	A36	X	0	0	0	%100
72	A36	Z	-.397	-.397	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	-.644	-.644	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-.644	-.644	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-.644	-.644	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-.644	-.644	0	%100
81	MP5A	X	0	0	0	%100
82	MP5A	Z	-.644	-.644	0	%100
83	B52	X	0	0	0	%100
84	B52	Z	-.000769	-.000769	0	%100
85	B53	X	0	0	0	%100
86	B53	Z	-.101	-.101	0	%100
87	B54	X	0	0	0	%100
88	B54	Z	-.000769	-.000769	0	%100
89	B55	X	0	0	0	%100
90	B55	Z	-.101	-.101	0	%100
91	B56	X	0	0	0	%100
92	B56	Z	-.74	-.74	0	%100
93	B57	X	0	0	0	%100
94	B57	Z	-.74	-.74	0	%100
95	B58	X	0	0	0	%100
96	B58	Z	-.74	-.74	0	%100
97	B59	X	0	0	0	%100
98	B59	Z	-.129	-.129	0	%100
99	B60	X	0	0	0	%100
100	B60	Z	-.129	-.129	0	%100
101	B61	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
102	B61	Z	- .129	- .129	0 %100
103	B62	X	0	0	0 %100
104	B62	Z	- .74	- .74	0 %100
105	B63	X	0	0	0 %100
106	B63	Z	- .74	- .74	0 %100
107	B64	X	0	0	0 %100
108	B64	Z	- .74	- .74	0 %100
109	B65	X	0	0	0 %100
110	B65	Z	- .129	- .129	0 %100
111	B66	X	0	0	0 %100
112	B66	Z	- .129	- .129	0 %100
113	B67	X	0	0	0 %100
114	B67	Z	- .129	- .129	0 %100
115	B68	X	0	0	0 %100
116	B68	Z	- .448	- .448	0 %100
117	B69	X	0	0	0 %100
118	B69	Z	- .448	- .448	0 %100
119	B70	X	0	0	0 %100
120	B70	Z	- .448	- .448	0 %100
121	B71	X	0	0	0 %100
122	B71	Z	- .448	- .448	0 %100
123	B72	X	0	0	0 %100
124	B72	Z	- .322	- .322	0 %100
125	B73	X	0	0	0 %100
126	B73	Z	- .322	- .322	0 %100
127	B74	X	0	0	0 %100
128	B74	Z	- .639	- .639	0 %100
129	B75	X	0	0	0 %100
130	B75	Z	- .005	- .005	0 %100
131	B76	X	0	0	0 %100
132	B76	Z	- .639	- .639	0 %100
133	B77	X	0	0	0 %100
134	B77	Z	- .005	- .005	0 %100
135	B78	X	0	0	0 %100
136	B78	Z	- .13	- .13	0 %100
137	B79	X	0	0	0 %100
138	B79	Z	- .13	- .13	0 %100
139	B80	X	0	0	0 %100
140	B80	Z	- .484	- .484	0 %100
141	B81	X	0	0	0 %100
142	B81	Z	- .484	- .484	0 %100
143	B82	X	0	0	0 %100
144	B82	Z	- .942	- .942	0 %100
145	B83	X	0	0	0 %100
146	B83	Z	- .942	- .942	0 %100
147	B84	X	0	0	0 %100
148	B84	Z	- .5	- .5	0 %100
149	B85	X	0	0	0 %100
150	B85	Z	- .5	- .5	0 %100
151	B86	X	0	0	0 %100
152	B86	Z	- .294	- .294	0 %100
153	B87	X	0	0	0 %100
154	B87	Z	- .294	- .294	0 %100
155	MP1B	X	0	0	0 %100
156	MP1B	Z	- .644	- .644	0 %100
157	MP2B	X	0	0	0 %100
158	MP2B	Z	- .644	- .644	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
159	MP3B	X	0	0	0	%100
160	MP3B	Z	-.644	-.644	0	%100
161	MP4B	X	0	0	0	%100
162	MP4B	Z	-.644	-.644	0	%100
163	MP5B	X	0	0	0	%100
164	MP5B	Z	-.644	-.644	0	%100
165	C103	X	0	0	0	%100
166	C103	Z	-.083	-.083	0	%100
167	C104	X	0	0	0	%100
168	C104	Z	-.018	-.018	0	%100
169	C105	X	0	0	0	%100
170	C105	Z	-.083	-.083	0	%100
171	C106	X	0	0	0	%100
172	C106	Z	-.018	-.018	0	%100
173	C107	X	0	0	0	%100
174	C107	Z	-.235	-.235	0	%100
175	C108	X	0	0	0	%100
176	C108	Z	-.235	-.235	0	%100
177	C109	X	0	0	0	%100
178	C109	Z	-.235	-.235	0	%100
179	C110	X	0	0	0	%100
180	C110	Z	-.634	-.634	0	%100
181	C111	X	0	0	0	%100
182	C111	Z	-.634	-.634	0	%100
183	C112	X	0	0	0	%100
184	C112	Z	-.634	-.634	0	%100
185	C113	X	0	0	0	%100
186	C113	Z	-.235	-.235	0	%100
187	C114	X	0	0	0	%100
188	C114	Z	-.235	-.235	0	%100
189	C115	X	0	0	0	%100
190	C115	Z	-.235	-.235	0	%100
191	C116	X	0	0	0	%100
192	C116	Z	-.634	-.634	0	%100
193	C117	X	0	0	0	%100
194	C117	Z	-.634	-.634	0	%100
195	C118	X	0	0	0	%100
196	C118	Z	-.634	-.634	0	%100
197	C119	X	0	0	0	%100
198	C119	Z	-.448	-.448	0	%100
199	C120	X	0	0	0	%100
200	C120	Z	-.448	-.448	0	%100
201	C121	X	0	0	0	%100
202	C121	Z	-.448	-.448	0	%100
203	C122	X	0	0	0	%100
204	C122	Z	-.448	-.448	0	%100
205	C123	X	0	0	0	%100
206	C123	Z	-.091	-.091	0	%100
207	C124	X	0	0	0	%100
208	C124	Z	-.091	-.091	0	%100
209	C125	X	0	0	0	%100
210	C125	Z	-.115	-.115	0	%100
211	C126	X	0	0	0	%100
212	C126	Z	-.529	-.529	0	%100
213	C127	X	0	0	0	%100
214	C127	Z	-.115	-.115	0	%100
215	C128	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
216	C128	Z	-.529	-.529	0	%100
217	C129	X	0	0	0	%100
218	C129	Z	-.801	-.801	0	%100
219	C130	X	0	0	0	%100
220	C130	Z	-.801	-.801	0	%100
221	C131	X	0	0	0	%100
222	C131	Z	-.484	-.484	0	%100
223	C132	X	0	0	0	%100
224	C132	Z	-.484	-.484	0	%100
225	C133	X	0	0	0	%100
226	C133	Z	-.271	-.271	0	%100
227	C134	X	0	0	0	%100
228	C134	Z	-.271	-.271	0	%100
229	C135	X	0	0	0	%100
230	C135	Z	-.33	-.33	0	%100
231	C136	X	0	0	0	%100
232	C136	Z	-.33	-.33	0	%100
233	C137	X	0	0	0	%100
234	C137	Z	-.464	-.464	0	%100
235	C138	X	0	0	0	%100
236	C138	Z	-.464	-.464	0	%100
237	MP1C	X	0	0	0	%100
238	MP1C	Z	-.644	-.644	0	%100
239	MP2C	X	0	0	0	%100
240	MP2C	Z	-.644	-.644	0	%100
241	MP3C	X	0	0	0	%100
242	MP3C	Z	-.644	-.644	0	%100
243	MP4C	X	0	0	0	%100
244	MP4C	Z	-.644	-.644	0	%100
245	MP5C	X	0	0	0	%100
246	MP5C	Z	-.644	-.644	0	%100
247	M154	X	0	0	0	%100
248	M154	Z	-.901	-.901	0	%100
249	M155	X	0	0	0	%100
250	M155	Z	-.149	-.149	0	%100
251	M156	X	0	0	0	%100
252	M156	Z	-.716	-.716	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.003	.003	0	%100
2	A1	Z	-.006	-.006	0	%100
3	A2	X	.047	.047	0	%100
4	A2	Z	-.082	-.082	0	%100
5	A3	X	.003	.003	0	%100
6	A3	Z	-.006	-.006	0	%100
7	A4	X	.047	.047	0	%100
8	A4	Z	-.082	-.082	0	%100
9	A5	X	.352	.352	0	%100
10	A5	Z	-.609	-.609	0	%100
11	A6	X	.352	.352	0	%100
12	A6	Z	-.609	-.609	0	%100
13	A7	X	.352	.352	0	%100
14	A7	Z	-.609	-.609	0	%100
15	A8	X	.083	.083	0	%100
16	A8	Z	-.144	-.144	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
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Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
17	A9	X	.083	.083	0 %100
18	A9	Z	-.144	-.144	0 %100
19	A10	X	.083	.083	0 %100
20	A10	Z	-.144	-.144	0 %100
21	A11	X	.352	.352	0 %100
22	A11	Z	-.609	-.609	0 %100
23	A12	X	.352	.352	0 %100
24	A12	Z	-.609	-.609	0 %100
25	A13	X	.352	.352	0 %100
26	A13	Z	-.609	-.609	0 %100
27	A14	X	.083	.083	0 %100
28	A14	Z	-.144	-.144	0 %100
29	A15	X	.083	.083	0 %100
30	A15	Z	-.144	-.144	0 %100
31	A16	X	.083	.083	0 %100
32	A16	Z	-.144	-.144	0 %100
33	A17	X	.224	.224	0 %100
34	A17	Z	-.388	-.388	0 %100
35	A18	X	.224	.224	0 %100
36	A18	Z	-.388	-.388	0 %100
37	A19	X	.224	.224	0 %100
38	A19	Z	-.388	-.388	0 %100
39	A20	X	.224	.224	0 %100
40	A20	Z	-.388	-.388	0 %100
41	A21	X	.292	.292	0 %100
42	A21	Z	-.506	-.506	0 %100
43	A22	X	.292	.292	0 %100
44	A22	Z	-.506	-.506	0 %100
45	A23	X	.3	.3	0 %100
46	A23	Z	-.52	-.52	0 %100
47	A24	X	.022	.022	0 %100
48	A24	Z	-.037	-.037	0 %100
49	A25	X	.3	.3	0 %100
50	A25	Z	-.52	-.52	0 %100
51	A26	X	.022	.022	0 %100
52	A26	Z	-.037	-.037	0 %100
53	A27	X	.09	.09	0 %100
54	A27	Z	-.155	-.155	0 %100
55	A28	X	.09	.09	0 %100
56	A28	Z	-.155	-.155	0 %100
57	A29	X	.242	.242	0 %100
58	A29	Z	-.419	-.419	0 %100
59	A30	X	.242	.242	0 %100
60	A30	Z	-.419	-.419	0 %100
61	A31	X	.447	.447	0 %100
62	A31	Z	-.773	-.773	0 %100
63	A32	X	.447	.447	0 %100
64	A32	Z	-.773	-.773	0 %100
65	A33	X	.244	.244	0 %100
66	A33	Z	-.422	-.422	0 %100
67	A34	X	.244	.244	0 %100
68	A34	Z	-.422	-.422	0 %100
69	A35	X	.153	.153	0 %100
70	A35	Z	-.266	-.266	0 %100
71	A36	X	.153	.153	0 %100
72	A36	Z	-.266	-.266	0 %100
73	MP1A	X	.322	.322	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	MP1A	Z	-.557	-.557	0 %100
75	MP2A	X	.322	.322	0 %100
76	MP2A	Z	-.557	-.557	0 %100
77	MP3A	X	.322	.322	0 %100
78	MP3A	Z	-.557	-.557	0 %100
79	MP4A	X	.322	.322	0 %100
80	MP4A	Z	-.557	-.557	0 %100
81	MP5A	X	.322	.322	0 %100
82	MP5A	Z	-.557	-.557	0 %100
83	B52	X	.017	.017	0 %100
84	B52	Z	-.029	-.029	0 %100
85	B53	X	.034	.034	0 %100
86	B53	Z	-.059	-.059	0 %100
87	B54	X	.017	.017	0 %100
88	B54	Z	-.029	-.029	0 %100
89	B55	X	.034	.034	0 %100
90	B55	Z	-.059	-.059	0 %100
91	B56	X	.27	.27	0 %100
92	B56	Z	-.468	-.468	0 %100
93	B57	X	.27	.27	0 %100
94	B57	Z	-.468	-.468	0 %100
95	B58	X	.27	.27	0 %100
96	B58	Z	-.468	-.468	0 %100
97	B59	X	.164	.164	0 %100
98	B59	Z	-.284	-.284	0 %100
99	B60	X	.164	.164	0 %100
100	B60	Z	-.284	-.284	0 %100
101	B61	X	.164	.164	0 %100
102	B61	Z	-.284	-.284	0 %100
103	B62	X	.27	.27	0 %100
104	B62	Z	-.468	-.468	0 %100
105	B63	X	.27	.27	0 %100
106	B63	Z	-.468	-.468	0 %100
107	B64	X	.27	.27	0 %100
108	B64	Z	-.468	-.468	0 %100
109	B65	X	.164	.164	0 %100
110	B65	Z	-.284	-.284	0 %100
111	B66	X	.164	.164	0 %100
112	B66	Z	-.284	-.284	0 %100
113	B67	X	.164	.164	0 %100
114	B67	Z	-.284	-.284	0 %100
115	B68	X	.224	.224	0 %100
116	B68	Z	-.388	-.388	0 %100
117	B69	X	.224	.224	0 %100
118	B69	Z	-.388	-.388	0 %100
119	B70	X	.224	.224	0 %100
120	B70	Z	-.388	-.388	0 %100
121	B71	X	.224	.224	0 %100
122	B71	Z	-.388	-.388	0 %100
123	B72	X	.012	.012	0 %100
124	B72	Z	-.02	-.02	0 %100
125	B73	X	.012	.012	0 %100
126	B73	Z	-.02	-.02	0 %100
127	B74	X	.216	.216	0 %100
128	B74	Z	-.374	-.374	0 %100
129	B75	X	.106	.106	0 %100
130	B75	Z	-.183	-.183	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
131	B76	X	.216	.216	0 %100
132	B76	Z	-.374	-.374	0 %100
133	B77	X	.106	.106	0 %100
134	B77	Z	-.183	-.183	0 %100
135	B78	X	.198	.198	0 %100
136	B78	Z	-.342	-.342	0 %100
137	B79	X	.198	.198	0 %100
138	B79	Z	-.342	-.342	0 %100
139	B80	X	.242	.242	0 %100
140	B80	Z	-.419	-.419	0 %100
141	B81	X	.242	.242	0 %100
142	B81	Z	-.419	-.419	0 %100
143	B82	X	.339	.339	0 %100
144	B82	Z	-.586	-.586	0 %100
145	B83	X	.339	.339	0 %100
146	B83	Z	-.586	-.586	0 %100
147	B84	X	.216	.216	0 %100
148	B84	Z	-.375	-.375	0 %100
149	B85	X	.216	.216	0 %100
150	B85	Z	-.375	-.375	0 %100
151	B86	X	.181	.181	0 %100
152	B86	Z	-.313	-.313	0 %100
153	B87	X	.181	.181	0 %100
154	B87	Z	-.313	-.313	0 %100
155	MP1B	X	.322	.322	0 %100
156	MP1B	Z	-.557	-.557	0 %100
157	MP2B	X	.322	.322	0 %100
158	MP2B	Z	-.557	-.557	0 %100
159	MP3B	X	.322	.322	0 %100
160	MP3B	Z	-.557	-.557	0 %100
161	MP4B	X	.322	.322	0 %100
162	MP4B	Z	-.557	-.557	0 %100
163	MP5B	X	.322	.322	0 %100
164	MP5B	Z	-.557	-.557	0 %100
165	C103	X	.05	.05	0 %100
166	C103	Z	-.087	-.087	0 %100
167	C104	X	.000387	.000387	0 %100
168	C104	Z	-.000671	-.000671	0 %100
169	C105	X	.05	.05	0 %100
170	C105	Z	-.087	-.087	0 %100
171	C106	X	.000387	.000387	0 %100
172	C106	Z	-.000671	-.000671	0 %100
173	C107	X	.064	.064	0 %100
174	C107	Z	-.112	-.112	0 %100
175	C108	X	.064	.064	0 %100
176	C108	Z	-.112	-.112	0 %100
177	C109	X	.064	.064	0 %100
178	C109	Z	-.112	-.112	0 %100
179	C110	X	.37	.37	0 %100
180	C110	Z	-.641	-.641	0 %100
181	C111	X	.37	.37	0 %100
182	C111	Z	-.641	-.641	0 %100
183	C112	X	.37	.37	0 %100
184	C112	Z	-.641	-.641	0 %100
185	C113	X	.064	.064	0 %100
186	C113	Z	-.112	-.112	0 %100
187	C114	X	.064	.064	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
188	C114	Z	-.112	-.112	0 %100
189	C115	X	.064	.064	0 %100
190	C115	Z	-.112	-.112	0 %100
191	C116	X	.37	.37	0 %100
192	C116	Z	-.641	-.641	0 %100
193	C117	X	.37	.37	0 %100
194	C117	Z	-.641	-.641	0 %100
195	C118	X	.37	.37	0 %100
196	C118	Z	-.641	-.641	0 %100
197	C119	X	.224	.224	0 %100
198	C119	Z	-.388	-.388	0 %100
199	C120	X	.224	.224	0 %100
200	C120	Z	-.388	-.388	0 %100
201	C121	X	.224	.224	0 %100
202	C121	Z	-.388	-.388	0 %100
203	C122	X	.224	.224	0 %100
204	C122	Z	-.388	-.388	0 %100
205	C123	X	.229	.229	0 %100
206	C123	Z	-.396	-.396	0 %100
207	C124	X	.229	.229	0 %100
208	C124	Z	-.396	-.396	0 %100
209	C125	X	.002	.002	0 %100
210	C125	Z	-.004	-.004	0 %100
211	C126	X	.319	.319	0 %100
212	C126	Z	-.553	-.553	0 %100
213	C127	X	.002	.002	0 %100
214	C127	Z	-.004	-.004	0 %100
215	C128	X	.319	.319	0 %100
216	C128	Z	-.553	-.553	0 %100
217	C129	X	.471	.471	0 %100
218	C129	Z	-.816	-.816	0 %100
219	C130	X	.471	.471	0 %100
220	C130	Z	-.816	-.816	0 %100
221	C131	X	.242	.242	0 %100
222	C131	Z	-.419	-.419	0 %100
223	C132	X	.242	.242	0 %100
224	C132	Z	-.419	-.419	0 %100
225	C133	X	.065	.065	0 %100
226	C133	Z	-.113	-.113	0 %100
227	C134	X	.065	.065	0 %100
228	C134	Z	-.113	-.113	0 %100
229	C135	X	.147	.147	0 %100
230	C135	Z	-.255	-.255	0 %100
231	C136	X	.147	.147	0 %100
232	C136	Z	-.255	-.255	0 %100
233	C137	X	.25	.25	0 %100
234	C137	Z	-.433	-.433	0 %100
235	C138	X	.25	.25	0 %100
236	C138	Z	-.433	-.433	0 %100
237	MP1C	X	.322	.322	0 %100
238	MP1C	Z	-.557	-.557	0 %100
239	MP2C	X	.322	.322	0 %100
240	MP2C	Z	-.557	-.557	0 %100
241	MP3C	X	.322	.322	0 %100
242	MP3C	Z	-.557	-.557	0 %100
243	MP4C	X	.322	.322	0 %100
244	MP4C	Z	-.557	-.557	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
245	MP5C	X	.322	.322	0 %100
246	MP5C	Z	-.557	-.557	0 %100
247	M154	X	.329	.329	0 %100
248	M154	Z	-.569	-.569	0 %100
249	M155	X	.005	.005	0 %100
250	M155	Z	-.009	-.009	0 %100
251	M156	X	.45	.45	0 %100
252	M156	Z	-.779	-.779	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.006	.006	0 %100
2	A1	Z	-.003	-.003	0 %100
3	A2	X	.082	.082	0 %100
4	A2	Z	-.047	-.047	0 %100
5	A3	X	.006	.006	0 %100
6	A3	Z	-.003	-.003	0 %100
7	A4	X	.082	.082	0 %100
8	A4	Z	-.047	-.047	0 %100
9	A5	X	.609	.609	0 %100
10	A5	Z	-.352	-.352	0 %100
11	A6	X	.609	.609	0 %100
12	A6	Z	-.352	-.352	0 %100
13	A7	X	.609	.609	0 %100
14	A7	Z	-.352	-.352	0 %100
15	A8	X	.144	.144	0 %100
16	A8	Z	-.083	-.083	0 %100
17	A9	X	.144	.144	0 %100
18	A9	Z	-.083	-.083	0 %100
19	A10	X	.144	.144	0 %100
20	A10	Z	-.083	-.083	0 %100
21	A11	X	.609	.609	0 %100
22	A11	Z	-.352	-.352	0 %100
23	A12	X	.609	.609	0 %100
24	A12	Z	-.352	-.352	0 %100
25	A13	X	.609	.609	0 %100
26	A13	Z	-.352	-.352	0 %100
27	A14	X	.144	.144	0 %100
28	A14	Z	-.083	-.083	0 %100
29	A15	X	.144	.144	0 %100
30	A15	Z	-.083	-.083	0 %100
31	A16	X	.144	.144	0 %100
32	A16	Z	-.083	-.083	0 %100
33	A17	X	.388	.388	0 %100
34	A17	Z	-.224	-.224	0 %100
35	A18	X	.388	.388	0 %100
36	A18	Z	-.224	-.224	0 %100
37	A19	X	.388	.388	0 %100
38	A19	Z	-.224	-.224	0 %100
39	A20	X	.388	.388	0 %100
40	A20	Z	-.224	-.224	0 %100
41	A21	X	.169	.169	0 %100
42	A21	Z	-.097	-.097	0 %100
43	A22	X	.169	.169	0 %100
44	A22	Z	-.097	-.097	0 %100
45	A23	X	.52	.52	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	A23	Z	-.3	-.3	0 %100
47	A24	X	.037	.037	0 %100
48	A24	Z	-.022	-.022	0 %100
49	A25	X	.52	.52	0 %100
50	A25	Z	-.3	-.3	0 %100
51	A26	X	.037	.037	0 %100
52	A26	Z	-.022	-.022	0 %100
53	A27	X	.155	.155	0 %100
54	A27	Z	-.09	-.09	0 %100
55	A28	X	.155	.155	0 %100
56	A28	Z	-.09	-.09	0 %100
57	A29	X	.419	.419	0 %100
58	A29	Z	-.242	-.242	0 %100
59	A30	X	.419	.419	0 %100
60	A30	Z	-.242	-.242	0 %100
61	A31	X	.773	.773	0 %100
62	A31	Z	-.447	-.447	0 %100
63	A32	X	.773	.773	0 %100
64	A32	Z	-.447	-.447	0 %100
65	A33	X	.422	.422	0 %100
66	A33	Z	-.244	-.244	0 %100
67	A34	X	.422	.422	0 %100
68	A34	Z	-.244	-.244	0 %100
69	A35	X	.265	.265	0 %100
70	A35	Z	-.153	-.153	0 %100
71	A36	X	.265	.265	0 %100
72	A36	Z	-.153	-.153	0 %100
73	MP1A	X	.557	.557	0 %100
74	MP1A	Z	-.322	-.322	0 %100
75	MP2A	X	.557	.557	0 %100
76	MP2A	Z	-.322	-.322	0 %100
77	MP3A	X	.557	.557	0 %100
78	MP3A	Z	-.322	-.322	0 %100
79	MP4A	X	.557	.557	0 %100
80	MP4A	Z	-.322	-.322	0 %100
81	MP5A	X	.557	.557	0 %100
82	MP5A	Z	-.322	-.322	0 %100
83	B52	X	.072	.072	0 %100
84	B52	Z	-.042	-.042	0 %100
85	B53	X	.016	.016	0 %100
86	B53	Z	-.009	-.009	0 %100
87	B54	X	.072	.072	0 %100
88	B54	Z	-.042	-.042	0 %100
89	B55	X	.016	.016	0 %100
90	B55	Z	-.009	-.009	0 %100
91	B56	X	.204	.204	0 %100
92	B56	Z	-.118	-.118	0 %100
93	B57	X	.204	.204	0 %100
94	B57	Z	-.118	-.118	0 %100
95	B58	X	.204	.204	0 %100
96	B58	Z	-.118	-.118	0 %100
97	B59	X	.549	.549	0 %100
98	B59	Z	-.317	-.317	0 %100
99	B60	X	.549	.549	0 %100
100	B60	Z	-.317	-.317	0 %100
101	B61	X	.549	.549	0 %100
102	B61	Z	-.317	-.317	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
103	B62	X	.204	.204	0 %100
104	B62	Z	-.118	-.118	0 %100
105	B63	X	.204	.204	0 %100
106	B63	Z	-.118	-.118	0 %100
107	B64	X	.204	.204	0 %100
108	B64	Z	-.118	-.118	0 %100
109	B65	X	.549	.549	0 %100
110	B65	Z	-.317	-.317	0 %100
111	B66	X	.549	.549	0 %100
112	B66	Z	-.317	-.317	0 %100
113	B67	X	.549	.549	0 %100
114	B67	Z	-.317	-.317	0 %100
115	B68	X	.388	.388	0 %100
116	B68	Z	-.224	-.224	0 %100
117	B69	X	.388	.388	0 %100
118	B69	Z	-.224	-.224	0 %100
119	B70	X	.388	.388	0 %100
120	B70	Z	-.224	-.224	0 %100
121	B71	X	.388	.388	0 %100
122	B71	Z	-.224	-.224	0 %100
123	B72	X	.079	.079	0 %100
124	B72	Z	-.046	-.046	0 %100
125	B73	X	.079	.079	0 %100
126	B73	Z	-.046	-.046	0 %100
127	B74	X	.099	.099	0 %100
128	B74	Z	-.057	-.057	0 %100
129	B75	X	.458	.458	0 %100
130	B75	Z	-.264	-.264	0 %100
131	B76	X	.099	.099	0 %100
132	B76	Z	-.057	-.057	0 %100
133	B77	X	.458	.458	0 %100
134	B77	Z	-.264	-.264	0 %100
135	B78	X	.694	.694	0 %100
136	B78	Z	-.401	-.401	0 %100
137	B79	X	.694	.694	0 %100
138	B79	Z	-.401	-.401	0 %100
139	B80	X	.419	.419	0 %100
140	B80	Z	-.242	-.242	0 %100
141	B81	X	.419	.419	0 %100
142	B81	Z	-.242	-.242	0 %100
143	B82	X	.235	.235	0 %100
144	B82	Z	-.136	-.136	0 %100
145	B83	X	.235	.235	0 %100
146	B83	Z	-.136	-.136	0 %100
147	B84	X	.286	.286	0 %100
148	B84	Z	-.165	-.165	0 %100
149	B85	X	.286	.286	0 %100
150	B85	Z	-.165	-.165	0 %100
151	B86	X	.402	.402	0 %100
152	B86	Z	-.232	-.232	0 %100
153	B87	X	.402	.402	0 %100
154	B87	Z	-.232	-.232	0 %100
155	MP1B	X	.557	.557	0 %100
156	MP1B	Z	-.322	-.322	0 %100
157	MP2B	X	.557	.557	0 %100
158	MP2B	Z	-.322	-.322	0 %100
159	MP3B	X	.557	.557	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
160	MP3B	Z	-.322	-.322	0 %100
161	MP4B	X	.557	.557	0 %100
162	MP4B	Z	-.322	-.322	0 %100
163	MP5B	X	.557	.557	0 %100
164	MP5B	Z	-.322	-.322	0 %100
165	C103	X	.059	.059	0 %100
166	C103	Z	-.034	-.034	0 %100
167	C104	X	.029	.029	0 %100
168	C104	Z	-.017	-.017	0 %100
169	C105	X	.059	.059	0 %100
170	C105	Z	-.034	-.034	0 %100
171	C106	X	.029	.029	0 %100
172	C106	Z	-.017	-.017	0 %100
173	C107	X	.284	.284	0 %100
174	C107	Z	-.164	-.164	0 %100
175	C108	X	.284	.284	0 %100
176	C108	Z	-.164	-.164	0 %100
177	C109	X	.284	.284	0 %100
178	C109	Z	-.164	-.164	0 %100
179	C110	X	.468	.468	0 %100
180	C110	Z	-.27	-.27	0 %100
181	C111	X	.468	.468	0 %100
182	C111	Z	-.27	-.27	0 %100
183	C112	X	.468	.468	0 %100
184	C112	Z	-.27	-.27	0 %100
185	C113	X	.284	.284	0 %100
186	C113	Z	-.164	-.164	0 %100
187	C114	X	.284	.284	0 %100
188	C114	Z	-.164	-.164	0 %100
189	C115	X	.284	.284	0 %100
190	C115	Z	-.164	-.164	0 %100
191	C116	X	.468	.468	0 %100
192	C116	Z	-.27	-.27	0 %100
193	C117	X	.468	.468	0 %100
194	C117	Z	-.27	-.27	0 %100
195	C118	X	.468	.468	0 %100
196	C118	Z	-.27	-.27	0 %100
197	C119	X	.388	.388	0 %100
198	C119	Z	-.224	-.224	0 %100
199	C120	X	.388	.388	0 %100
200	C120	Z	-.224	-.224	0 %100
201	C121	X	.388	.388	0 %100
202	C121	Z	-.224	-.224	0 %100
203	C122	X	.388	.388	0 %100
204	C122	Z	-.224	-.224	0 %100
205	C123	X	.654	.654	0 %100
206	C123	Z	-.378	-.378	0 %100
207	C124	X	.654	.654	0 %100
208	C124	Z	-.378	-.378	0 %100
209	C125	X	.183	.183	0 %100
210	C125	Z	-.106	-.106	0 %100
211	C126	X	.374	.374	0 %100
212	C126	Z	-.216	-.216	0 %100
213	C127	X	.183	.183	0 %100
214	C127	Z	-.106	-.106	0 %100
215	C128	X	.374	.374	0 %100
216	C128	Z	-.216	-.216	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
217	C129	X	.586	.586	0	%100
218	C129	Z	-.339	-.339	0	%100
219	C130	X	.586	.586	0	%100
220	C130	Z	-.339	-.339	0	%100
221	C131	X	.419	.419	0	%100
222	C131	Z	-.242	-.242	0	%100
223	C132	X	.419	.419	0	%100
224	C132	Z	-.242	-.242	0	%100
225	C133	X	.342	.342	0	%100
226	C133	Z	-.198	-.198	0	%100
227	C134	X	.342	.342	0	%100
228	C134	Z	-.198	-.198	0	%100
229	C135	X	.313	.313	0	%100
230	C135	Z	-.181	-.181	0	%100
231	C136	X	.313	.313	0	%100
232	C136	Z	-.181	-.181	0	%100
233	C137	X	.375	.375	0	%100
234	C137	Z	-.216	-.216	0	%100
235	C138	X	.375	.375	0	%100
236	C138	Z	-.216	-.216	0	%100
237	MP1C	X	.557	.557	0	%100
238	MP1C	Z	-.322	-.322	0	%100
239	MP2C	X	.557	.557	0	%100
240	MP2C	Z	-.322	-.322	0	%100
241	MP3C	X	.557	.557	0	%100
242	MP3C	Z	-.322	-.322	0	%100
243	MP4C	X	.557	.557	0	%100
244	MP4C	Z	-.322	-.322	0	%100
245	MP5C	X	.557	.557	0	%100
246	MP5C	Z	-.322	-.322	0	%100
247	M154	X	.179	.179	0	%100
248	M154	Z	-.103	-.103	0	%100
249	M155	X	.27	.27	0	%100
250	M155	Z	-.156	-.156	0	%100
251	M156	X	.55	.55	0	%100
252	M156	Z	-.317	-.317	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.051	.051	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	.051	.051	0	%100
4	A2	Z	0	0	0	%100
5	A3	X	.051	.051	0	%100
6	A3	Z	0	0	0	%100
7	A4	X	.051	.051	0	%100
8	A4	Z	0	0	0	%100
9	A5	X	.435	.435	0	%100
10	A5	Z	0	0	0	%100
11	A6	X	.435	.435	0	%100
12	A6	Z	0	0	0	%100
13	A7	X	.435	.435	0	%100
14	A7	Z	0	0	0	%100
15	A8	X	.435	.435	0	%100
16	A8	Z	0	0	0	%100
17	A9	X	.435	.435	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	A9	Z	0	0	0	%100
19	A10	X	.435	.435	0	%100
20	A10	Z	0	0	0	%100
21	A11	X	.435	.435	0	%100
22	A11	Z	0	0	0	%100
23	A12	X	.435	.435	0	%100
24	A12	Z	0	0	0	%100
25	A13	X	.435	.435	0	%100
26	A13	Z	0	0	0	%100
27	A14	X	.435	.435	0	%100
28	A14	Z	0	0	0	%100
29	A15	X	.435	.435	0	%100
30	A15	Z	0	0	0	%100
31	A16	X	.435	.435	0	%100
32	A16	Z	0	0	0	%100
33	A17	X	.448	.448	0	%100
34	A17	Z	0	0	0	%100
35	A18	X	.448	.448	0	%100
36	A18	Z	0	0	0	%100
37	A19	X	.448	.448	0	%100
38	A19	Z	0	0	0	%100
39	A20	X	.448	.448	0	%100
40	A20	Z	0	0	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	0	0	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	0	0	0	%100
45	A23	X	.322	.322	0	%100
46	A23	Z	0	0	0	%100
47	A24	X	.322	.322	0	%100
48	A24	Z	0	0	0	%100
49	A25	X	.322	.322	0	%100
50	A25	Z	0	0	0	%100
51	A26	X	.322	.322	0	%100
52	A26	Z	0	0	0	%100
53	A27	X	.536	.536	0	%100
54	A27	Z	0	0	0	%100
55	A28	X	.536	.536	0	%100
56	A28	Z	0	0	0	%100
57	A29	X	.484	.484	0	%100
58	A29	Z	0	0	0	%100
59	A30	X	.484	.484	0	%100
60	A30	Z	0	0	0	%100
61	A31	X	.536	.536	0	%100
62	A31	Z	0	0	0	%100
63	A32	X	.536	.536	0	%100
64	A32	Z	0	0	0	%100
65	A33	X	.397	.397	0	%100
66	A33	Z	0	0	0	%100
67	A34	X	.397	.397	0	%100
68	A34	Z	0	0	0	%100
69	A35	X	.397	.397	0	%100
70	A35	Z	0	0	0	%100
71	A36	X	.397	.397	0	%100
72	A36	Z	0	0	0	%100
73	MP1A	X	.644	.644	0	%100
74	MP1A	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
75	MP2A	X	.644	.644	0 %100
76	MP2A	Z	0	0	0 %100
77	MP3A	X	.644	.644	0 %100
78	MP3A	Z	0	0	0 %100
79	MP4A	X	.644	.644	0 %100
80	MP4A	Z	0	0	0 %100
81	MP5A	X	.644	.644	0 %100
82	MP5A	Z	0	0	0 %100
83	B52	X	.101	.101	0 %100
84	B52	Z	0	0	0 %100
85	B53	X	.000774	.000774	0 %100
86	B53	Z	0	0	0 %100
87	B54	X	.101	.101	0 %100
88	B54	Z	0	0	0 %100
89	B55	X	.000774	.000774	0 %100
90	B55	Z	0	0	0 %100
91	B56	X	.129	.129	0 %100
92	B56	Z	0	0	0 %100
93	B57	X	.129	.129	0 %100
94	B57	Z	0	0	0 %100
95	B58	X	.129	.129	0 %100
96	B58	Z	0	0	0 %100
97	B59	X	.74	.74	0 %100
98	B59	Z	0	0	0 %100
99	B60	X	.74	.74	0 %100
100	B60	Z	0	0	0 %100
101	B61	X	.74	.74	0 %100
102	B61	Z	0	0	0 %100
103	B62	X	.129	.129	0 %100
104	B62	Z	0	0	0 %100
105	B63	X	.129	.129	0 %100
106	B63	Z	0	0	0 %100
107	B64	X	.129	.129	0 %100
108	B64	Z	0	0	0 %100
109	B65	X	.74	.74	0 %100
110	B65	Z	0	0	0 %100
111	B66	X	.74	.74	0 %100
112	B66	Z	0	0	0 %100
113	B67	X	.74	.74	0 %100
114	B67	Z	0	0	0 %100
115	B68	X	.448	.448	0 %100
116	B68	Z	0	0	0 %100
117	B69	X	.448	.448	0 %100
118	B69	Z	0	0	0 %100
119	B70	X	.448	.448	0 %100
120	B70	Z	0	0	0 %100
121	B71	X	.448	.448	0 %100
122	B71	Z	0	0	0 %100
123	B72	X	.457	.457	0 %100
124	B72	Z	0	0	0 %100
125	B73	X	.457	.457	0 %100
126	B73	Z	0	0	0 %100
127	B74	X	.005	.005	0 %100
128	B74	Z	0	0	0 %100
129	B75	X	.639	.639	0 %100
130	B75	Z	0	0	0 %100
131	B76	X	.005	.005	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
132	B76	Z	0	0	0	%100
133	B77	X	.639	.639	0	%100
134	B77	Z	0	0	0	%100
135	B78	X	.942	.942	0	%100
136	B78	Z	0	0	0	%100
137	B79	X	.942	.942	0	%100
138	B79	Z	0	0	0	%100
139	B80	X	.484	.484	0	%100
140	B80	Z	0	0	0	%100
141	B81	X	.484	.484	0	%100
142	B81	Z	0	0	0	%100
143	B82	X	.13	.13	0	%100
144	B82	Z	0	0	0	%100
145	B83	X	.13	.13	0	%100
146	B83	Z	0	0	0	%100
147	B84	X	.294	.294	0	%100
148	B84	Z	0	0	0	%100
149	B85	X	.294	.294	0	%100
150	B85	Z	0	0	0	%100
151	B86	X	.5	.5	0	%100
152	B86	Z	0	0	0	%100
153	B87	X	.5	.5	0	%100
154	B87	Z	0	0	0	%100
155	MP1B	X	.644	.644	0	%100
156	MP1B	Z	0	0	0	%100
157	MP2B	X	.644	.644	0	%100
158	MP2B	Z	0	0	0	%100
159	MP3B	X	.644	.644	0	%100
160	MP3B	Z	0	0	0	%100
161	MP4B	X	.644	.644	0	%100
162	MP4B	Z	0	0	0	%100
163	MP5B	X	.644	.644	0	%100
164	MP5B	Z	0	0	0	%100
165	C103	X	.018	.018	0	%100
166	C103	Z	0	0	0	%100
167	C104	X	.083	.083	0	%100
168	C104	Z	0	0	0	%100
169	C105	X	.018	.018	0	%100
170	C105	Z	0	0	0	%100
171	C106	X	.083	.083	0	%100
172	C106	Z	0	0	0	%100
173	C107	X	.634	.634	0	%100
174	C107	Z	0	0	0	%100
175	C108	X	.634	.634	0	%100
176	C108	Z	0	0	0	%100
177	C109	X	.634	.634	0	%100
178	C109	Z	0	0	0	%100
179	C110	X	.235	.235	0	%100
180	C110	Z	0	0	0	%100
181	C111	X	.235	.235	0	%100
182	C111	Z	0	0	0	%100
183	C112	X	.235	.235	0	%100
184	C112	Z	0	0	0	%100
185	C113	X	.634	.634	0	%100
186	C113	Z	0	0	0	%100
187	C114	X	.634	.634	0	%100
188	C114	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
189	C115	X	.634	.634	0 %100
190	C115	Z	0	0	0 %100
191	C116	X	.235	.235	0 %100
192	C116	Z	0	0	0 %100
193	C117	X	.235	.235	0 %100
194	C117	Z	0	0	0 %100
195	C118	X	.235	.235	0 %100
196	C118	Z	0	0	0 %100
197	C119	X	.448	.448	0 %100
198	C119	Z	0	0	0 %100
199	C120	X	.448	.448	0 %100
200	C120	Z	0	0	0 %100
201	C121	X	.448	.448	0 %100
202	C121	Z	0	0	0 %100
203	C122	X	.448	.448	0 %100
204	C122	Z	0	0	0 %100
205	C123	X	.688	.688	0 %100
206	C123	Z	0	0	0 %100
207	C124	X	.688	.688	0 %100
208	C124	Z	0	0	0 %100
209	C125	X	.529	.529	0 %100
210	C125	Z	0	0	0 %100
211	C126	X	.115	.115	0 %100
212	C126	Z	0	0	0 %100
213	C127	X	.529	.529	0 %100
214	C127	Z	0	0	0 %100
215	C128	X	.115	.115	0 %100
216	C128	Z	0	0	0 %100
217	C129	X	.271	.271	0 %100
218	C129	Z	0	0	0 %100
219	C130	X	.271	.271	0 %100
220	C130	Z	0	0	0 %100
221	C131	X	.484	.484	0 %100
222	C131	Z	0	0	0 %100
223	C132	X	.484	.484	0 %100
224	C132	Z	0	0	0 %100
225	C133	X	.801	.801	0 %100
226	C133	Z	0	0	0 %100
227	C134	X	.801	.801	0 %100
228	C134	Z	0	0	0 %100
229	C135	X	.464	.464	0 %100
230	C135	Z	0	0	0 %100
231	C136	X	.464	.464	0 %100
232	C136	Z	0	0	0 %100
233	C137	X	.33	.33	0 %100
234	C137	Z	0	0	0 %100
235	C138	X	.33	.33	0 %100
236	C138	Z	0	0	0 %100
237	MP1C	X	.644	.644	0 %100
238	MP1C	Z	0	0	0 %100
239	MP2C	X	.644	.644	0 %100
240	MP2C	Z	0	0	0 %100
241	MP3C	X	.644	.644	0 %100
242	MP3C	Z	0	0	0 %100
243	MP4C	X	.644	.644	0 %100
244	MP4C	Z	0	0	0 %100
245	MP5C	X	.644	.644	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
246	MP5C	Z	0	0	0	%100
247	M154	X	.000536	.000536	0	%100
248	M154	Z	0	0	0	%100
249	M155	X	.753	.753	0	%100
250	M155	Z	0	0	0	%100
251	M156	X	.186	.186	0	%100
252	M156	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	.082	.082	0	%100
2	A1	Z	.047	.047	0	%100
3	A2	X	.006	.006	0	%100
4	A2	Z	.003	.003	0	%100
5	A3	X	.082	.082	0	%100
6	A3	Z	.047	.047	0	%100
7	A4	X	.006	.006	0	%100
8	A4	Z	.003	.003	0	%100
9	A5	X	.144	.144	0	%100
10	A5	Z	.083	.083	0	%100
11	A6	X	.144	.144	0	%100
12	A6	Z	.083	.083	0	%100
13	A7	X	.144	.144	0	%100
14	A7	Z	.083	.083	0	%100
15	A8	X	.609	.609	0	%100
16	A8	Z	.352	.352	0	%100
17	A9	X	.609	.609	0	%100
18	A9	Z	.352	.352	0	%100
19	A10	X	.609	.609	0	%100
20	A10	Z	.352	.352	0	%100
21	A11	X	.144	.144	0	%100
22	A11	Z	.083	.083	0	%100
23	A12	X	.144	.144	0	%100
24	A12	Z	.083	.083	0	%100
25	A13	X	.144	.144	0	%100
26	A13	Z	.083	.083	0	%100
27	A14	X	.609	.609	0	%100
28	A14	Z	.352	.352	0	%100
29	A15	X	.609	.609	0	%100
30	A15	Z	.352	.352	0	%100
31	A16	X	.609	.609	0	%100
32	A16	Z	.352	.352	0	%100
33	A17	X	.388	.388	0	%100
34	A17	Z	.224	.224	0	%100
35	A18	X	.388	.388	0	%100
36	A18	Z	.224	.224	0	%100
37	A19	X	.388	.388	0	%100
38	A19	Z	.224	.224	0	%100
39	A20	X	.388	.388	0	%100
40	A20	Z	.224	.224	0	%100
41	A21	X	.169	.169	0	%100
42	A21	Z	.097	.097	0	%100
43	A22	X	.169	.169	0	%100
44	A22	Z	.097	.097	0	%100
45	A23	X	.037	.037	0	%100
46	A23	Z	.022	.022	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
47	A24	X	.52	.52	0	%100
48	A24	Z	.3	.3	0	%100
49	A25	X	.037	.037	0	%100
50	A25	Z	.022	.022	0	%100
51	A26	X	.52	.52	0	%100
52	A26	Z	.3	.3	0	%100
53	A27	X	.773	.773	0	%100
54	A27	Z	.447	.447	0	%100
55	A28	X	.773	.773	0	%100
56	A28	Z	.447	.447	0	%100
57	A29	X	.419	.419	0	%100
58	A29	Z	.242	.242	0	%100
59	A30	X	.419	.419	0	%100
60	A30	Z	.242	.242	0	%100
61	A31	X	.155	.155	0	%100
62	A31	Z	.09	.09	0	%100
63	A32	X	.155	.155	0	%100
64	A32	Z	.09	.09	0	%100
65	A33	X	.265	.265	0	%100
66	A33	Z	.153	.153	0	%100
67	A34	X	.265	.265	0	%100
68	A34	Z	.153	.153	0	%100
69	A35	X	.422	.422	0	%100
70	A35	Z	.244	.244	0	%100
71	A36	X	.422	.422	0	%100
72	A36	Z	.244	.244	0	%100
73	MP1A	X	.557	.557	0	%100
74	MP1A	Z	.322	.322	0	%100
75	MP2A	X	.557	.557	0	%100
76	MP2A	Z	.322	.322	0	%100
77	MP3A	X	.557	.557	0	%100
78	MP3A	Z	.322	.322	0	%100
79	MP4A	X	.557	.557	0	%100
80	MP4A	Z	.322	.322	0	%100
81	MP5A	X	.557	.557	0	%100
82	MP5A	Z	.322	.322	0	%100
83	B52	X	.059	.059	0	%100
84	B52	Z	.034	.034	0	%100
85	B53	X	.029	.029	0	%100
86	B53	Z	.017	.017	0	%100
87	B54	X	.059	.059	0	%100
88	B54	Z	.034	.034	0	%100
89	B55	X	.029	.029	0	%100
90	B55	Z	.017	.017	0	%100
91	B56	X	.284	.284	0	%100
92	B56	Z	.164	.164	0	%100
93	B57	X	.284	.284	0	%100
94	B57	Z	.164	.164	0	%100
95	B58	X	.284	.284	0	%100
96	B58	Z	.164	.164	0	%100
97	B59	X	.468	.468	0	%100
98	B59	Z	.27	.27	0	%100
99	B60	X	.468	.468	0	%100
100	B60	Z	.27	.27	0	%100
101	B61	X	.468	.468	0	%100
102	B61	Z	.27	.27	0	%100
103	B62	X	.284	.284	0	%100



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 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
104	B62	Z	.164	.164	0 %100
105	B63	X	.284	.284	0 %100
106	B63	Z	.164	.164	0 %100
107	B64	X	.284	.284	0 %100
108	B64	Z	.164	.164	0 %100
109	B65	X	.468	.468	0 %100
110	B65	Z	.27	.27	0 %100
111	B66	X	.468	.468	0 %100
112	B66	Z	.27	.27	0 %100
113	B67	X	.468	.468	0 %100
114	B67	Z	.27	.27	0 %100
115	B68	X	.388	.388	0 %100
116	B68	Z	.224	.224	0 %100
117	B69	X	.388	.388	0 %100
118	B69	Z	.224	.224	0 %100
119	B70	X	.388	.388	0 %100
120	B70	Z	.224	.224	0 %100
121	B71	X	.388	.388	0 %100
122	B71	Z	.224	.224	0 %100
123	B72	X	.654	.654	0 %100
124	B72	Z	.378	.378	0 %100
125	B73	X	.654	.654	0 %100
126	B73	Z	.378	.378	0 %100
127	B74	X	.183	.183	0 %100
128	B74	Z	.106	.106	0 %100
129	B75	X	.374	.374	0 %100
130	B75	Z	.216	.216	0 %100
131	B76	X	.183	.183	0 %100
132	B76	Z	.106	.106	0 %100
133	B77	X	.374	.374	0 %100
134	B77	Z	.216	.216	0 %100
135	B78	X	.586	.586	0 %100
136	B78	Z	.339	.339	0 %100
137	B79	X	.586	.586	0 %100
138	B79	Z	.339	.339	0 %100
139	B80	X	.419	.419	0 %100
140	B80	Z	.242	.242	0 %100
141	B81	X	.419	.419	0 %100
142	B81	Z	.242	.242	0 %100
143	B82	X	.342	.342	0 %100
144	B82	Z	.198	.198	0 %100
145	B83	X	.342	.342	0 %100
146	B83	Z	.198	.198	0 %100
147	B84	X	.313	.313	0 %100
148	B84	Z	.181	.181	0 %100
149	B85	X	.313	.313	0 %100
150	B85	Z	.181	.181	0 %100
151	B86	X	.375	.375	0 %100
152	B86	Z	.216	.216	0 %100
153	B87	X	.375	.375	0 %100
154	B87	Z	.216	.216	0 %100
155	MP1B	X	.557	.557	0 %100
156	MP1B	Z	.322	.322	0 %100
157	MP2B	X	.557	.557	0 %100
158	MP2B	Z	.322	.322	0 %100
159	MP3B	X	.557	.557	0 %100
160	MP3B	Z	.322	.322	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
161	MP4B	X	.557	.557	0 %100
162	MP4B	Z	.322	.322	0 %100
163	MP5B	X	.557	.557	0 %100
164	MP5B	Z	.322	.322	0 %100
165	C103	X	.000666	.000666	0 %100
166	C103	Z	.000385	.000385	0 %100
167	C104	X	.087	.087	0 %100
168	C104	Z	.05	.05	0 %100
169	C105	X	.000666	.000666	0 %100
170	C105	Z	.000385	.000385	0 %100
171	C106	X	.087	.087	0 %100
172	C106	Z	.05	.05	0 %100
173	C107	X	.641	.641	0 %100
174	C107	Z	.37	.37	0 %100
175	C108	X	.641	.641	0 %100
176	C108	Z	.37	.37	0 %100
177	C109	X	.641	.641	0 %100
178	C109	Z	.37	.37	0 %100
179	C110	X	.112	.112	0 %100
180	C110	Z	.064	.064	0 %100
181	C111	X	.112	.112	0 %100
182	C111	Z	.064	.064	0 %100
183	C112	X	.112	.112	0 %100
184	C112	Z	.064	.064	0 %100
185	C113	X	.641	.641	0 %100
186	C113	Z	.37	.37	0 %100
187	C114	X	.641	.641	0 %100
188	C114	Z	.37	.37	0 %100
189	C115	X	.641	.641	0 %100
190	C115	Z	.37	.37	0 %100
191	C116	X	.112	.112	0 %100
192	C116	Z	.064	.064	0 %100
193	C117	X	.112	.112	0 %100
194	C117	Z	.064	.064	0 %100
195	C118	X	.112	.112	0 %100
196	C118	Z	.064	.064	0 %100
197	C119	X	.388	.388	0 %100
198	C119	Z	.224	.224	0 %100
199	C120	X	.388	.388	0 %100
200	C120	Z	.224	.224	0 %100
201	C121	X	.388	.388	0 %100
202	C121	Z	.224	.224	0 %100
203	C122	X	.388	.388	0 %100
204	C122	Z	.224	.224	0 %100
205	C123	X	.279	.279	0 %100
206	C123	Z	.161	.161	0 %100
207	C124	X	.279	.279	0 %100
208	C124	Z	.161	.161	0 %100
209	C125	X	.553	.553	0 %100
210	C125	Z	.319	.319	0 %100
211	C126	X	.004	.004	0 %100
212	C126	Z	.002	.002	0 %100
213	C127	X	.553	.553	0 %100
214	C127	Z	.319	.319	0 %100
215	C128	X	.004	.004	0 %100
216	C128	Z	.002	.002	0 %100
217	C129	X	.113	.113	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
218	C129	Z	.065	.065	0	%100
219	C130	X	.113	.113	0	%100
220	C130	Z	.065	.065	0	%100
221	C131	X	.419	.419	0	%100
222	C131	Z	.242	.242	0	%100
223	C132	X	.419	.419	0	%100
224	C132	Z	.242	.242	0	%100
225	C133	X	.816	.816	0	%100
226	C133	Z	.471	.471	0	%100
227	C134	X	.816	.816	0	%100
228	C134	Z	.471	.471	0	%100
229	C135	X	.433	.433	0	%100
230	C135	Z	.25	.25	0	%100
231	C136	X	.433	.433	0	%100
232	C136	Z	.25	.25	0	%100
233	C137	X	.255	.255	0	%100
234	C137	Z	.147	.147	0	%100
235	C138	X	.255	.255	0	%100
236	C138	Z	.147	.147	0	%100
237	MP1C	X	.557	.557	0	%100
238	MP1C	Z	.322	.322	0	%100
239	MP2C	X	.557	.557	0	%100
240	MP2C	Z	.322	.322	0	%100
241	MP3C	X	.557	.557	0	%100
242	MP3C	Z	.322	.322	0	%100
243	MP4C	X	.557	.557	0	%100
244	MP4C	Z	.322	.322	0	%100
245	MP5C	X	.557	.557	0	%100
246	MP5C	Z	.322	.322	0	%100
247	M154	X	.212	.212	0	%100
248	M154	Z	.122	.122	0	%100
249	M155	X	.772	.772	0	%100
250	M155	Z	.446	.446	0	%100
251	M156	X	.002	.002	0	%100
252	M156	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.047	.047	0	%100
2	A1	Z	.082	.082	0	%100
3	A2	X	.003	.003	0	%100
4	A2	Z	.006	.006	0	%100
5	A3	X	.047	.047	0	%100
6	A3	Z	.082	.082	0	%100
7	A4	X	.003	.003	0	%100
8	A4	Z	.006	.006	0	%100
9	A5	X	.083	.083	0	%100
10	A5	Z	.144	.144	0	%100
11	A6	X	.083	.083	0	%100
12	A6	Z	.144	.144	0	%100
13	A7	X	.083	.083	0	%100
14	A7	Z	.144	.144	0	%100
15	A8	X	.352	.352	0	%100
16	A8	Z	.609	.609	0	%100
17	A9	X	.352	.352	0	%100
18	A9	Z	.609	.609	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	A10	X	.352	.352	0	%100
20	A10	Z	.609	.609	0	%100
21	A11	X	.083	.083	0	%100
22	A11	Z	.144	.144	0	%100
23	A12	X	.083	.083	0	%100
24	A12	Z	.144	.144	0	%100
25	A13	X	.083	.083	0	%100
26	A13	Z	.144	.144	0	%100
27	A14	X	.352	.352	0	%100
28	A14	Z	.609	.609	0	%100
29	A15	X	.352	.352	0	%100
30	A15	Z	.609	.609	0	%100
31	A16	X	.352	.352	0	%100
32	A16	Z	.609	.609	0	%100
33	A17	X	.224	.224	0	%100
34	A17	Z	.388	.388	0	%100
35	A18	X	.224	.224	0	%100
36	A18	Z	.388	.388	0	%100
37	A19	X	.224	.224	0	%100
38	A19	Z	.388	.388	0	%100
39	A20	X	.224	.224	0	%100
40	A20	Z	.388	.388	0	%100
41	A21	X	.292	.292	0	%100
42	A21	Z	.506	.506	0	%100
43	A22	X	.292	.292	0	%100
44	A22	Z	.506	.506	0	%100
45	A23	X	.022	.022	0	%100
46	A23	Z	.037	.037	0	%100
47	A24	X	.3	.3	0	%100
48	A24	Z	.52	.52	0	%100
49	A25	X	.022	.022	0	%100
50	A25	Z	.037	.037	0	%100
51	A26	X	.3	.3	0	%100
52	A26	Z	.52	.52	0	%100
53	A27	X	.447	.447	0	%100
54	A27	Z	.773	.773	0	%100
55	A28	X	.447	.447	0	%100
56	A28	Z	.773	.773	0	%100
57	A29	X	.242	.242	0	%100
58	A29	Z	.419	.419	0	%100
59	A30	X	.242	.242	0	%100
60	A30	Z	.419	.419	0	%100
61	A31	X	.09	.09	0	%100
62	A31	Z	.155	.155	0	%100
63	A32	X	.09	.09	0	%100
64	A32	Z	.155	.155	0	%100
65	A33	X	.153	.153	0	%100
66	A33	Z	.266	.266	0	%100
67	A34	X	.153	.153	0	%100
68	A34	Z	.266	.266	0	%100
69	A35	X	.244	.244	0	%100
70	A35	Z	.422	.422	0	%100
71	A36	X	.244	.244	0	%100
72	A36	Z	.422	.422	0	%100
73	MP1A	X	.322	.322	0	%100
74	MP1A	Z	.557	.557	0	%100
75	MP2A	X	.322	.322	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
76	MP2A	Z	.557	.557	0 %100
77	MP3A	X	.322	.322	0 %100
78	MP3A	Z	.557	.557	0 %100
79	MP4A	X	.322	.322	0 %100
80	MP4A	Z	.557	.557	0 %100
81	MP5A	X	.322	.322	0 %100
82	MP5A	Z	.557	.557	0 %100
83	B52	X	.009	.009	0 %100
84	B52	Z	.016	.016	0 %100
85	B53	X	.042	.042	0 %100
86	B53	Z	.072	.072	0 %100
87	B54	X	.009	.009	0 %100
88	B54	Z	.016	.016	0 %100
89	B55	X	.042	.042	0 %100
90	B55	Z	.072	.072	0 %100
91	B56	X	.317	.317	0 %100
92	B56	Z	.549	.549	0 %100
93	B57	X	.317	.317	0 %100
94	B57	Z	.549	.549	0 %100
95	B58	X	.317	.317	0 %100
96	B58	Z	.549	.549	0 %100
97	B59	X	.118	.118	0 %100
98	B59	Z	.204	.204	0 %100
99	B60	X	.118	.118	0 %100
100	B60	Z	.204	.204	0 %100
101	B61	X	.118	.118	0 %100
102	B61	Z	.204	.204	0 %100
103	B62	X	.317	.317	0 %100
104	B62	Z	.549	.549	0 %100
105	B63	X	.317	.317	0 %100
106	B63	Z	.549	.549	0 %100
107	B64	X	.317	.317	0 %100
108	B64	Z	.549	.549	0 %100
109	B65	X	.118	.118	0 %100
110	B65	Z	.204	.204	0 %100
111	B66	X	.118	.118	0 %100
112	B66	Z	.204	.204	0 %100
113	B67	X	.118	.118	0 %100
114	B67	Z	.204	.204	0 %100
115	B68	X	.224	.224	0 %100
116	B68	Z	.388	.388	0 %100
117	B69	X	.224	.224	0 %100
118	B69	Z	.388	.388	0 %100
119	B70	X	.224	.224	0 %100
120	B70	Z	.388	.388	0 %100
121	B71	X	.224	.224	0 %100
122	B71	Z	.388	.388	0 %100
123	B72	X	.344	.344	0 %100
124	B72	Z	.596	.596	0 %100
125	B73	X	.344	.344	0 %100
126	B73	Z	.596	.596	0 %100
127	B74	X	.264	.264	0 %100
128	B74	Z	.458	.458	0 %100
129	B75	X	.058	.058	0 %100
130	B75	Z	.1	.1	0 %100
131	B76	X	.264	.264	0 %100
132	B76	Z	.458	.458	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
133	B77	X	.058	.058	0 %100
134	B77	Z	.1	.1	0 %100
135	B78	X	.136	.136	0 %100
136	B78	Z	.235	.235	0 %100
137	B79	X	.136	.136	0 %100
138	B79	Z	.235	.235	0 %100
139	B80	X	.242	.242	0 %100
140	B80	Z	.419	.419	0 %100
141	B81	X	.242	.242	0 %100
142	B81	Z	.419	.419	0 %100
143	B82	X	.401	.401	0 %100
144	B82	Z	.694	.694	0 %100
145	B83	X	.401	.401	0 %100
146	B83	Z	.694	.694	0 %100
147	B84	X	.232	.232	0 %100
148	B84	Z	.402	.402	0 %100
149	B85	X	.232	.232	0 %100
150	B85	Z	.402	.402	0 %100
151	B86	X	.165	.165	0 %100
152	B86	Z	.286	.286	0 %100
153	B87	X	.165	.165	0 %100
154	B87	Z	.286	.286	0 %100
155	MP1B	X	.322	.322	0 %100
156	MP1B	Z	.557	.557	0 %100
157	MP2B	X	.322	.322	0 %100
158	MP2B	Z	.557	.557	0 %100
159	MP3B	X	.322	.322	0 %100
160	MP3B	Z	.557	.557	0 %100
161	MP4B	X	.322	.322	0 %100
162	MP4B	Z	.557	.557	0 %100
163	MP5B	X	.322	.322	0 %100
164	MP5B	Z	.557	.557	0 %100
165	C103	X	.017	.017	0 %100
166	C103	Z	.029	.029	0 %100
167	C104	X	.034	.034	0 %100
168	C104	Z	.059	.059	0 %100
169	C105	X	.017	.017	0 %100
170	C105	Z	.029	.029	0 %100
171	C106	X	.034	.034	0 %100
172	C106	Z	.059	.059	0 %100
173	C107	X	.27	.27	0 %100
174	C107	Z	.468	.468	0 %100
175	C108	X	.27	.27	0 %100
176	C108	Z	.468	.468	0 %100
177	C109	X	.27	.27	0 %100
178	C109	Z	.468	.468	0 %100
179	C110	X	.164	.164	0 %100
180	C110	Z	.284	.284	0 %100
181	C111	X	.164	.164	0 %100
182	C111	Z	.284	.284	0 %100
183	C112	X	.164	.164	0 %100
184	C112	Z	.284	.284	0 %100
185	C113	X	.27	.27	0 %100
186	C113	Z	.468	.468	0 %100
187	C114	X	.27	.27	0 %100
188	C114	Z	.468	.468	0 %100
189	C115	X	.27	.27	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
190	C115	Z	.468	.468	0 %100
191	C116	X	.164	.164	0 %100
192	C116	Z	.284	.284	0 %100
193	C117	X	.164	.164	0 %100
194	C117	Z	.284	.284	0 %100
195	C118	X	.164	.164	0 %100
196	C118	Z	.284	.284	0 %100
197	C119	X	.224	.224	0 %100
198	C119	Z	.388	.388	0 %100
199	C120	X	.224	.224	0 %100
200	C120	Z	.388	.388	0 %100
201	C121	X	.224	.224	0 %100
202	C121	Z	.388	.388	0 %100
203	C122	X	.224	.224	0 %100
204	C122	Z	.388	.388	0 %100
205	C123	X	.012	.012	0 %100
206	C123	Z	.02	.02	0 %100
207	C124	X	.012	.012	0 %100
208	C124	Z	.02	.02	0 %100
209	C125	X	.216	.216	0 %100
210	C125	Z	.374	.374	0 %100
211	C126	X	.106	.106	0 %100
212	C126	Z	.183	.183	0 %100
213	C127	X	.216	.216	0 %100
214	C127	Z	.374	.374	0 %100
215	C128	X	.106	.106	0 %100
216	C128	Z	.183	.183	0 %100
217	C129	X	.198	.198	0 %100
218	C129	Z	.342	.342	0 %100
219	C130	X	.198	.198	0 %100
220	C130	Z	.342	.342	0 %100
221	C131	X	.242	.242	0 %100
222	C131	Z	.419	.419	0 %100
223	C132	X	.242	.242	0 %100
224	C132	Z	.419	.419	0 %100
225	C133	X	.339	.339	0 %100
226	C133	Z	.586	.586	0 %100
227	C134	X	.339	.339	0 %100
228	C134	Z	.586	.586	0 %100
229	C135	X	.216	.216	0 %100
230	C135	Z	.375	.375	0 %100
231	C136	X	.216	.216	0 %100
232	C136	Z	.375	.375	0 %100
233	C137	X	.181	.181	0 %100
234	C137	Z	.313	.313	0 %100
235	C138	X	.181	.181	0 %100
236	C138	Z	.313	.313	0 %100
237	MP1C	X	.322	.322	0 %100
238	MP1C	Z	.557	.557	0 %100
239	MP2C	X	.322	.322	0 %100
240	MP2C	Z	.557	.557	0 %100
241	MP3C	X	.322	.322	0 %100
242	MP3C	Z	.557	.557	0 %100
243	MP4C	X	.322	.322	0 %100
244	MP4C	Z	.557	.557	0 %100
245	MP5C	X	.322	.322	0 %100
246	MP5C	Z	.557	.557	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
247	M154	X	.348	.348	0	%100
248	M154	Z	.602	.602	0	%100
249	M155	X	.295	.295	0	%100
250	M155	Z	.511	.511	0	%100
251	M156	X	.134	.134	0	%100
252	M156	Z	.231	.231	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	0	0	0	%100
2	A1	Z	.051	.051	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	.051	.051	0	%100
5	A3	X	0	0	0	%100
6	A3	Z	.051	.051	0	%100
7	A4	X	0	0	0	%100
8	A4	Z	.051	.051	0	%100
9	A5	X	0	0	0	%100
10	A5	Z	.435	.435	0	%100
11	A6	X	0	0	0	%100
12	A6	Z	.435	.435	0	%100
13	A7	X	0	0	0	%100
14	A7	Z	.435	.435	0	%100
15	A8	X	0	0	0	%100
16	A8	Z	.435	.435	0	%100
17	A9	X	0	0	0	%100
18	A9	Z	.435	.435	0	%100
19	A10	X	0	0	0	%100
20	A10	Z	.435	.435	0	%100
21	A11	X	0	0	0	%100
22	A11	Z	.435	.435	0	%100
23	A12	X	0	0	0	%100
24	A12	Z	.435	.435	0	%100
25	A13	X	0	0	0	%100
26	A13	Z	.435	.435	0	%100
27	A14	X	0	0	0	%100
28	A14	Z	.435	.435	0	%100
29	A15	X	0	0	0	%100
30	A15	Z	.435	.435	0	%100
31	A16	X	0	0	0	%100
32	A16	Z	.435	.435	0	%100
33	A17	X	0	0	0	%100
34	A17	Z	.448	.448	0	%100
35	A18	X	0	0	0	%100
36	A18	Z	.448	.448	0	%100
37	A19	X	0	0	0	%100
38	A19	Z	.448	.448	0	%100
39	A20	X	0	0	0	%100
40	A20	Z	.448	.448	0	%100
41	A21	X	0	0	0	%100
42	A21	Z	.779	.779	0	%100
43	A22	X	0	0	0	%100
44	A22	Z	.779	.779	0	%100
45	A23	X	0	0	0	%100
46	A23	Z	.322	.322	0	%100
47	A24	X	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
48	A24	Z	.322	.322	0 %100
49	A25	X	0	0	0 %100
50	A25	Z	.322	.322	0 %100
51	A26	X	0	0	0 %100
52	A26	Z	.322	.322	0 %100
53	A27	X	0	0	0 %100
54	A27	Z	.536	.536	0 %100
55	A28	X	0	0	0 %100
56	A28	Z	.536	.536	0 %100
57	A29	X	0	0	0 %100
58	A29	Z	.484	.484	0 %100
59	A30	X	0	0	0 %100
60	A30	Z	.484	.484	0 %100
61	A31	X	0	0	0 %100
62	A31	Z	.536	.536	0 %100
63	A32	X	0	0	0 %100
64	A32	Z	.536	.536	0 %100
65	A33	X	0	0	0 %100
66	A33	Z	.397	.397	0 %100
67	A34	X	0	0	0 %100
68	A34	Z	.397	.397	0 %100
69	A35	X	0	0	0 %100
70	A35	Z	.397	.397	0 %100
71	A36	X	0	0	0 %100
72	A36	Z	.397	.397	0 %100
73	MP1A	X	0	0	0 %100
74	MP1A	Z	.644	.644	0 %100
75	MP2A	X	0	0	0 %100
76	MP2A	Z	.644	.644	0 %100
77	MP3A	X	0	0	0 %100
78	MP3A	Z	.644	.644	0 %100
79	MP4A	X	0	0	0 %100
80	MP4A	Z	.644	.644	0 %100
81	MP5A	X	0	0	0 %100
82	MP5A	Z	.644	.644	0 %100
83	B52	X	0	0	0 %100
84	B52	Z	.000769	.000769	0 %100
85	B53	X	0	0	0 %100
86	B53	Z	.101	.101	0 %100
87	B54	X	0	0	0 %100
88	B54	Z	.000769	.000769	0 %100
89	B55	X	0	0	0 %100
90	B55	Z	.101	.101	0 %100
91	B56	X	0	0	0 %100
92	B56	Z	.74	.74	0 %100
93	B57	X	0	0	0 %100
94	B57	Z	.74	.74	0 %100
95	B58	X	0	0	0 %100
96	B58	Z	.74	.74	0 %100
97	B59	X	0	0	0 %100
98	B59	Z	.129	.129	0 %100
99	B60	X	0	0	0 %100
100	B60	Z	.129	.129	0 %100
101	B61	X	0	0	0 %100
102	B61	Z	.129	.129	0 %100
103	B62	X	0	0	0 %100
104	B62	Z	.74	.74	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
105	B63	X	0	0	%100
106	B63	Z	.74	.74	%100
107	B64	X	0	0	%100
108	B64	Z	.74	.74	%100
109	B65	X	0	0	%100
110	B65	Z	.129	.129	%100
111	B66	X	0	0	%100
112	B66	Z	.129	.129	%100
113	B67	X	0	0	%100
114	B67	Z	.129	.129	%100
115	B68	X	0	0	%100
116	B68	Z	.448	.448	%100
117	B69	X	0	0	%100
118	B69	Z	.448	.448	%100
119	B70	X	0	0	%100
120	B70	Z	.448	.448	%100
121	B71	X	0	0	%100
122	B71	Z	.448	.448	%100
123	B72	X	0	0	%100
124	B72	Z	.322	.322	%100
125	B73	X	0	0	%100
126	B73	Z	.322	.322	%100
127	B74	X	0	0	%100
128	B74	Z	.639	.639	%100
129	B75	X	0	0	%100
130	B75	Z	.005	.005	%100
131	B76	X	0	0	%100
132	B76	Z	.639	.639	%100
133	B77	X	0	0	%100
134	B77	Z	.005	.005	%100
135	B78	X	0	0	%100
136	B78	Z	.13	.13	%100
137	B79	X	0	0	%100
138	B79	Z	.13	.13	%100
139	B80	X	0	0	%100
140	B80	Z	.484	.484	%100
141	B81	X	0	0	%100
142	B81	Z	.484	.484	%100
143	B82	X	0	0	%100
144	B82	Z	.942	.942	%100
145	B83	X	0	0	%100
146	B83	Z	.942	.942	%100
147	B84	X	0	0	%100
148	B84	Z	.5	.5	%100
149	B85	X	0	0	%100
150	B85	Z	.5	.5	%100
151	B86	X	0	0	%100
152	B86	Z	.294	.294	%100
153	B87	X	0	0	%100
154	B87	Z	.294	.294	%100
155	MP1B	X	0	0	%100
156	MP1B	Z	.644	.644	%100
157	MP2B	X	0	0	%100
158	MP2B	Z	.644	.644	%100
159	MP3B	X	0	0	%100
160	MP3B	Z	.644	.644	%100
161	MP4B	X	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
162	MP4B	Z	.644	.644	0 %100
163	MP5B	X	0	0	0 %100
164	MP5B	Z	.644	.644	0 %100
165	C103	X	0	0	0 %100
166	C103	Z	.083	.083	0 %100
167	C104	X	0	0	0 %100
168	C104	Z	.018	.018	0 %100
169	C105	X	0	0	0 %100
170	C105	Z	.083	.083	0 %100
171	C106	X	0	0	0 %100
172	C106	Z	.018	.018	0 %100
173	C107	X	0	0	0 %100
174	C107	Z	.235	.235	0 %100
175	C108	X	0	0	0 %100
176	C108	Z	.235	.235	0 %100
177	C109	X	0	0	0 %100
178	C109	Z	.235	.235	0 %100
179	C110	X	0	0	0 %100
180	C110	Z	.634	.634	0 %100
181	C111	X	0	0	0 %100
182	C111	Z	.634	.634	0 %100
183	C112	X	0	0	0 %100
184	C112	Z	.634	.634	0 %100
185	C113	X	0	0	0 %100
186	C113	Z	.235	.235	0 %100
187	C114	X	0	0	0 %100
188	C114	Z	.235	.235	0 %100
189	C115	X	0	0	0 %100
190	C115	Z	.235	.235	0 %100
191	C116	X	0	0	0 %100
192	C116	Z	.634	.634	0 %100
193	C117	X	0	0	0 %100
194	C117	Z	.634	.634	0 %100
195	C118	X	0	0	0 %100
196	C118	Z	.634	.634	0 %100
197	C119	X	0	0	0 %100
198	C119	Z	.448	.448	0 %100
199	C120	X	0	0	0 %100
200	C120	Z	.448	.448	0 %100
201	C121	X	0	0	0 %100
202	C121	Z	.448	.448	0 %100
203	C122	X	0	0	0 %100
204	C122	Z	.448	.448	0 %100
205	C123	X	0	0	0 %100
206	C123	Z	.091	.091	0 %100
207	C124	X	0	0	0 %100
208	C124	Z	.091	.091	0 %100
209	C125	X	0	0	0 %100
210	C125	Z	.115	.115	0 %100
211	C126	X	0	0	0 %100
212	C126	Z	.529	.529	0 %100
213	C127	X	0	0	0 %100
214	C127	Z	.115	.115	0 %100
215	C128	X	0	0	0 %100
216	C128	Z	.529	.529	0 %100
217	C129	X	0	0	0 %100
218	C129	Z	.801	.801	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
219	C130	X	0	0	0	%100
220	C130	Z	.801	.801	0	%100
221	C131	X	0	0	0	%100
222	C131	Z	.484	.484	0	%100
223	C132	X	0	0	0	%100
224	C132	Z	.484	.484	0	%100
225	C133	X	0	0	0	%100
226	C133	Z	.271	.271	0	%100
227	C134	X	0	0	0	%100
228	C134	Z	.271	.271	0	%100
229	C135	X	0	0	0	%100
230	C135	Z	.33	.33	0	%100
231	C136	X	0	0	0	%100
232	C136	Z	.33	.33	0	%100
233	C137	X	0	0	0	%100
234	C137	Z	.464	.464	0	%100
235	C138	X	0	0	0	%100
236	C138	Z	.464	.464	0	%100
237	MP1C	X	0	0	0	%100
238	MP1C	Z	.644	.644	0	%100
239	MP2C	X	0	0	0	%100
240	MP2C	Z	.644	.644	0	%100
241	MP3C	X	0	0	0	%100
242	MP3C	Z	.644	.644	0	%100
243	MP4C	X	0	0	0	%100
244	MP4C	Z	.644	.644	0	%100
245	MP5C	X	0	0	0	%100
246	MP5C	Z	.644	.644	0	%100
247	M154	X	0	0	0	%100
248	M154	Z	.901	.901	0	%100
249	M155	X	0	0	0	%100
250	M155	Z	.149	.149	0	%100
251	M156	X	0	0	0	%100
252	M156	Z	.716	.716	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.003	-.003	0	%100
2	A1	Z	.006	.006	0	%100
3	A2	X	-.047	-.047	0	%100
4	A2	Z	.082	.082	0	%100
5	A3	X	-.003	-.003	0	%100
6	A3	Z	.006	.006	0	%100
7	A4	X	-.047	-.047	0	%100
8	A4	Z	.082	.082	0	%100
9	A5	X	-.352	-.352	0	%100
10	A5	Z	.609	.609	0	%100
11	A6	X	-.352	-.352	0	%100
12	A6	Z	.609	.609	0	%100
13	A7	X	-.352	-.352	0	%100
14	A7	Z	.609	.609	0	%100
15	A8	X	-.083	-.083	0	%100
16	A8	Z	.144	.144	0	%100
17	A9	X	-.083	-.083	0	%100
18	A9	Z	.144	.144	0	%100
19	A10	X	-.083	-.083	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	A10	Z	.144	.144	0 %100
21	A11	X	-.352	-.352	0 %100
22	A11	Z	.609	.609	0 %100
23	A12	X	-.352	-.352	0 %100
24	A12	Z	.609	.609	0 %100
25	A13	X	-.352	-.352	0 %100
26	A13	Z	.609	.609	0 %100
27	A14	X	-.083	-.083	0 %100
28	A14	Z	.144	.144	0 %100
29	A15	X	-.083	-.083	0 %100
30	A15	Z	.144	.144	0 %100
31	A16	X	-.083	-.083	0 %100
32	A16	Z	.144	.144	0 %100
33	A17	X	-.224	-.224	0 %100
34	A17	Z	.388	.388	0 %100
35	A18	X	-.224	-.224	0 %100
36	A18	Z	.388	.388	0 %100
37	A19	X	-.224	-.224	0 %100
38	A19	Z	.388	.388	0 %100
39	A20	X	-.224	-.224	0 %100
40	A20	Z	.388	.388	0 %100
41	A21	X	-.292	-.292	0 %100
42	A21	Z	.506	.506	0 %100
43	A22	X	-.292	-.292	0 %100
44	A22	Z	.506	.506	0 %100
45	A23	X	-.3	-.3	0 %100
46	A23	Z	.52	.52	0 %100
47	A24	X	-.022	-.022	0 %100
48	A24	Z	.037	.037	0 %100
49	A25	X	-.3	-.3	0 %100
50	A25	Z	.52	.52	0 %100
51	A26	X	-.022	-.022	0 %100
52	A26	Z	.037	.037	0 %100
53	A27	X	-.09	-.09	0 %100
54	A27	Z	.155	.155	0 %100
55	A28	X	-.09	-.09	0 %100
56	A28	Z	.155	.155	0 %100
57	A29	X	-.242	-.242	0 %100
58	A29	Z	.419	.419	0 %100
59	A30	X	-.242	-.242	0 %100
60	A30	Z	.419	.419	0 %100
61	A31	X	-.447	-.447	0 %100
62	A31	Z	.773	.773	0 %100
63	A32	X	-.447	-.447	0 %100
64	A32	Z	.773	.773	0 %100
65	A33	X	-.244	-.244	0 %100
66	A33	Z	.422	.422	0 %100
67	A34	X	-.244	-.244	0 %100
68	A34	Z	.422	.422	0 %100
69	A35	X	-.153	-.153	0 %100
70	A35	Z	.266	.266	0 %100
71	A36	X	-.153	-.153	0 %100
72	A36	Z	.266	.266	0 %100
73	MP1A	X	-.322	-.322	0 %100
74	MP1A	Z	.557	.557	0 %100
75	MP2A	X	-.322	-.322	0 %100
76	MP2A	Z	.557	.557	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	MP3A	X	-.322	-.322	0 %100
78	MP3A	Z	.557	.557	0 %100
79	MP4A	X	-.322	-.322	0 %100
80	MP4A	Z	.557	.557	0 %100
81	MP5A	X	-.322	-.322	0 %100
82	MP5A	Z	.557	.557	0 %100
83	B52	X	-.017	-.017	0 %100
84	B52	Z	.029	.029	0 %100
85	B53	X	-.034	-.034	0 %100
86	B53	Z	.059	.059	0 %100
87	B54	X	-.017	-.017	0 %100
88	B54	Z	.029	.029	0 %100
89	B55	X	-.034	-.034	0 %100
90	B55	Z	.059	.059	0 %100
91	B56	X	-.27	-.27	0 %100
92	B56	Z	.468	.468	0 %100
93	B57	X	-.27	-.27	0 %100
94	B57	Z	.468	.468	0 %100
95	B58	X	-.27	-.27	0 %100
96	B58	Z	.468	.468	0 %100
97	B59	X	-.164	-.164	0 %100
98	B59	Z	.284	.284	0 %100
99	B60	X	-.164	-.164	0 %100
100	B60	Z	.284	.284	0 %100
101	B61	X	-.164	-.164	0 %100
102	B61	Z	.284	.284	0 %100
103	B62	X	-.27	-.27	0 %100
104	B62	Z	.468	.468	0 %100
105	B63	X	-.27	-.27	0 %100
106	B63	Z	.468	.468	0 %100
107	B64	X	-.27	-.27	0 %100
108	B64	Z	.468	.468	0 %100
109	B65	X	-.164	-.164	0 %100
110	B65	Z	.284	.284	0 %100
111	B66	X	-.164	-.164	0 %100
112	B66	Z	.284	.284	0 %100
113	B67	X	-.164	-.164	0 %100
114	B67	Z	.284	.284	0 %100
115	B68	X	-.224	-.224	0 %100
116	B68	Z	.388	.388	0 %100
117	B69	X	-.224	-.224	0 %100
118	B69	Z	.388	.388	0 %100
119	B70	X	-.224	-.224	0 %100
120	B70	Z	.388	.388	0 %100
121	B71	X	-.224	-.224	0 %100
122	B71	Z	.388	.388	0 %100
123	B72	X	-.012	-.012	0 %100
124	B72	Z	.02	.02	0 %100
125	B73	X	-.012	-.012	0 %100
126	B73	Z	.02	.02	0 %100
127	B74	X	-.216	-.216	0 %100
128	B74	Z	.374	.374	0 %100
129	B75	X	-.106	-.106	0 %100
130	B75	Z	.183	.183	0 %100
131	B76	X	-.216	-.216	0 %100
132	B76	Z	.374	.374	0 %100
133	B77	X	-.106	-.106	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
134	B77	Z	.183	.183	0 %100
135	B78	X	-.198	-.198	0 %100
136	B78	Z	.342	.342	0 %100
137	B79	X	-.198	-.198	0 %100
138	B79	Z	.342	.342	0 %100
139	B80	X	-.242	-.242	0 %100
140	B80	Z	.419	.419	0 %100
141	B81	X	-.242	-.242	0 %100
142	B81	Z	.419	.419	0 %100
143	B82	X	-.339	-.339	0 %100
144	B82	Z	.586	.586	0 %100
145	B83	X	-.339	-.339	0 %100
146	B83	Z	.586	.586	0 %100
147	B84	X	-.216	-.216	0 %100
148	B84	Z	.375	.375	0 %100
149	B85	X	-.216	-.216	0 %100
150	B85	Z	.375	.375	0 %100
151	B86	X	-.181	-.181	0 %100
152	B86	Z	.313	.313	0 %100
153	B87	X	-.181	-.181	0 %100
154	B87	Z	.313	.313	0 %100
155	MP1B	X	-.322	-.322	0 %100
156	MP1B	Z	.557	.557	0 %100
157	MP2B	X	-.322	-.322	0 %100
158	MP2B	Z	.557	.557	0 %100
159	MP3B	X	-.322	-.322	0 %100
160	MP3B	Z	.557	.557	0 %100
161	MP4B	X	-.322	-.322	0 %100
162	MP4B	Z	.557	.557	0 %100
163	MP5B	X	-.322	-.322	0 %100
164	MP5B	Z	.557	.557	0 %100
165	C103	X	-.05	-.05	0 %100
166	C103	Z	.087	.087	0 %100
167	C104	X	-.000387	-.000387	0 %100
168	C104	Z	.000671	.000671	0 %100
169	C105	X	-.05	-.05	0 %100
170	C105	Z	.087	.087	0 %100
171	C106	X	-.000387	-.000387	0 %100
172	C106	Z	.000671	.000671	0 %100
173	C107	X	-.064	-.064	0 %100
174	C107	Z	.112	.112	0 %100
175	C108	X	-.064	-.064	0 %100
176	C108	Z	.112	.112	0 %100
177	C109	X	-.064	-.064	0 %100
178	C109	Z	.112	.112	0 %100
179	C110	X	-.37	-.37	0 %100
180	C110	Z	.641	.641	0 %100
181	C111	X	-.37	-.37	0 %100
182	C111	Z	.641	.641	0 %100
183	C112	X	-.37	-.37	0 %100
184	C112	Z	.641	.641	0 %100
185	C113	X	-.064	-.064	0 %100
186	C113	Z	.112	.112	0 %100
187	C114	X	-.064	-.064	0 %100
188	C114	Z	.112	.112	0 %100
189	C115	X	-.064	-.064	0 %100
190	C115	Z	.112	.112	0 %100



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 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
191	C116	X	-.37	-.37	0 %100
192	C116	Z	.641	.641	0 %100
193	C117	X	-.37	-.37	0 %100
194	C117	Z	.641	.641	0 %100
195	C118	X	-.37	-.37	0 %100
196	C118	Z	.641	.641	0 %100
197	C119	X	-.224	-.224	0 %100
198	C119	Z	.388	.388	0 %100
199	C120	X	-.224	-.224	0 %100
200	C120	Z	.388	.388	0 %100
201	C121	X	-.224	-.224	0 %100
202	C121	Z	.388	.388	0 %100
203	C122	X	-.224	-.224	0 %100
204	C122	Z	.388	.388	0 %100
205	C123	X	-.229	-.229	0 %100
206	C123	Z	.396	.396	0 %100
207	C124	X	-.229	-.229	0 %100
208	C124	Z	.396	.396	0 %100
209	C125	X	-.002	-.002	0 %100
210	C125	Z	.004	.004	0 %100
211	C126	X	-.319	-.319	0 %100
212	C126	Z	.553	.553	0 %100
213	C127	X	-.002	-.002	0 %100
214	C127	Z	.004	.004	0 %100
215	C128	X	-.319	-.319	0 %100
216	C128	Z	.553	.553	0 %100
217	C129	X	-.471	-.471	0 %100
218	C129	Z	.816	.816	0 %100
219	C130	X	-.471	-.471	0 %100
220	C130	Z	.816	.816	0 %100
221	C131	X	-.242	-.242	0 %100
222	C131	Z	.419	.419	0 %100
223	C132	X	-.242	-.242	0 %100
224	C132	Z	.419	.419	0 %100
225	C133	X	-.065	-.065	0 %100
226	C133	Z	.113	.113	0 %100
227	C134	X	-.065	-.065	0 %100
228	C134	Z	.113	.113	0 %100
229	C135	X	-.147	-.147	0 %100
230	C135	Z	.255	.255	0 %100
231	C136	X	-.147	-.147	0 %100
232	C136	Z	.255	.255	0 %100
233	C137	X	-.25	-.25	0 %100
234	C137	Z	.433	.433	0 %100
235	C138	X	-.25	-.25	0 %100
236	C138	Z	.433	.433	0 %100
237	MP1C	X	-.322	-.322	0 %100
238	MP1C	Z	.557	.557	0 %100
239	MP2C	X	-.322	-.322	0 %100
240	MP2C	Z	.557	.557	0 %100
241	MP3C	X	-.322	-.322	0 %100
242	MP3C	Z	.557	.557	0 %100
243	MP4C	X	-.322	-.322	0 %100
244	MP4C	Z	.557	.557	0 %100
245	MP5C	X	-.322	-.322	0 %100
246	MP5C	Z	.557	.557	0 %100
247	M154	X	-.329	-.329	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
248	M154	Z	.569	.569	0	%100
249	M155	X	-.005	-.005	0	%100
250	M155	Z	.009	.009	0	%100
251	M156	X	-.45	-.45	0	%100
252	M156	Z	.779	.779	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.006	-.006	0	%100
2	A1	Z	.003	.003	0	%100
3	A2	X	-.082	-.082	0	%100
4	A2	Z	.047	.047	0	%100
5	A3	X	-.006	-.006	0	%100
6	A3	Z	.003	.003	0	%100
7	A4	X	-.082	-.082	0	%100
8	A4	Z	.047	.047	0	%100
9	A5	X	-.609	-.609	0	%100
10	A5	Z	.352	.352	0	%100
11	A6	X	-.609	-.609	0	%100
12	A6	Z	.352	.352	0	%100
13	A7	X	-.609	-.609	0	%100
14	A7	Z	.352	.352	0	%100
15	A8	X	-.144	-.144	0	%100
16	A8	Z	.083	.083	0	%100
17	A9	X	-.144	-.144	0	%100
18	A9	Z	.083	.083	0	%100
19	A10	X	-.144	-.144	0	%100
20	A10	Z	.083	.083	0	%100
21	A11	X	-.609	-.609	0	%100
22	A11	Z	.352	.352	0	%100
23	A12	X	-.609	-.609	0	%100
24	A12	Z	.352	.352	0	%100
25	A13	X	-.609	-.609	0	%100
26	A13	Z	.352	.352	0	%100
27	A14	X	-.144	-.144	0	%100
28	A14	Z	.083	.083	0	%100
29	A15	X	-.144	-.144	0	%100
30	A15	Z	.083	.083	0	%100
31	A16	X	-.144	-.144	0	%100
32	A16	Z	.083	.083	0	%100
33	A17	X	-.388	-.388	0	%100
34	A17	Z	.224	.224	0	%100
35	A18	X	-.388	-.388	0	%100
36	A18	Z	.224	.224	0	%100
37	A19	X	-.388	-.388	0	%100
38	A19	Z	.224	.224	0	%100
39	A20	X	-.388	-.388	0	%100
40	A20	Z	.224	.224	0	%100
41	A21	X	-.169	-.169	0	%100
42	A21	Z	.097	.097	0	%100
43	A22	X	-.169	-.169	0	%100
44	A22	Z	.097	.097	0	%100
45	A23	X	-.52	-.52	0	%100
46	A23	Z	.3	.3	0	%100
47	A24	X	-.037	-.037	0	%100
48	A24	Z	.022	.022	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
49	A25	X	-.52	-.52	0 %100
50	A25	Z	.3	.3	0 %100
51	A26	X	-.037	-.037	0 %100
52	A26	Z	.022	.022	0 %100
53	A27	X	-.155	-.155	0 %100
54	A27	Z	.09	.09	0 %100
55	A28	X	-.155	-.155	0 %100
56	A28	Z	.09	.09	0 %100
57	A29	X	-.419	-.419	0 %100
58	A29	Z	.242	.242	0 %100
59	A30	X	-.419	-.419	0 %100
60	A30	Z	.242	.242	0 %100
61	A31	X	-.773	-.773	0 %100
62	A31	Z	.447	.447	0 %100
63	A32	X	-.773	-.773	0 %100
64	A32	Z	.447	.447	0 %100
65	A33	X	-.422	-.422	0 %100
66	A33	Z	.244	.244	0 %100
67	A34	X	-.422	-.422	0 %100
68	A34	Z	.244	.244	0 %100
69	A35	X	-.265	-.265	0 %100
70	A35	Z	.153	.153	0 %100
71	A36	X	-.265	-.265	0 %100
72	A36	Z	.153	.153	0 %100
73	MP1A	X	-.557	-.557	0 %100
74	MP1A	Z	.322	.322	0 %100
75	MP2A	X	-.557	-.557	0 %100
76	MP2A	Z	.322	.322	0 %100
77	MP3A	X	-.557	-.557	0 %100
78	MP3A	Z	.322	.322	0 %100
79	MP4A	X	-.557	-.557	0 %100
80	MP4A	Z	.322	.322	0 %100
81	MP5A	X	-.557	-.557	0 %100
82	MP5A	Z	.322	.322	0 %100
83	B52	X	-.072	-.072	0 %100
84	B52	Z	.042	.042	0 %100
85	B53	X	-.016	-.016	0 %100
86	B53	Z	.009	.009	0 %100
87	B54	X	-.072	-.072	0 %100
88	B54	Z	.042	.042	0 %100
89	B55	X	-.016	-.016	0 %100
90	B55	Z	.009	.009	0 %100
91	B56	X	-.204	-.204	0 %100
92	B56	Z	.118	.118	0 %100
93	B57	X	-.204	-.204	0 %100
94	B57	Z	.118	.118	0 %100
95	B58	X	-.204	-.204	0 %100
96	B58	Z	.118	.118	0 %100
97	B59	X	-.549	-.549	0 %100
98	B59	Z	.317	.317	0 %100
99	B60	X	-.549	-.549	0 %100
100	B60	Z	.317	.317	0 %100
101	B61	X	-.549	-.549	0 %100
102	B61	Z	.317	.317	0 %100
103	B62	X	-.204	-.204	0 %100
104	B62	Z	.118	.118	0 %100
105	B63	X	-.204	-.204	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
106	B63	Z	.118	.118	0 %100
107	B64	X	-.204	-.204	0 %100
108	B64	Z	.118	.118	0 %100
109	B65	X	-.549	-.549	0 %100
110	B65	Z	.317	.317	0 %100
111	B66	X	-.549	-.549	0 %100
112	B66	Z	.317	.317	0 %100
113	B67	X	-.549	-.549	0 %100
114	B67	Z	.317	.317	0 %100
115	B68	X	-.388	-.388	0 %100
116	B68	Z	.224	.224	0 %100
117	B69	X	-.388	-.388	0 %100
118	B69	Z	.224	.224	0 %100
119	B70	X	-.388	-.388	0 %100
120	B70	Z	.224	.224	0 %100
121	B71	X	-.388	-.388	0 %100
122	B71	Z	.224	.224	0 %100
123	B72	X	-.079	-.079	0 %100
124	B72	Z	.046	.046	0 %100
125	B73	X	-.079	-.079	0 %100
126	B73	Z	.046	.046	0 %100
127	B74	X	-.099	-.099	0 %100
128	B74	Z	.057	.057	0 %100
129	B75	X	-.458	-.458	0 %100
130	B75	Z	.264	.264	0 %100
131	B76	X	-.099	-.099	0 %100
132	B76	Z	.057	.057	0 %100
133	B77	X	-.458	-.458	0 %100
134	B77	Z	.264	.264	0 %100
135	B78	X	-.694	-.694	0 %100
136	B78	Z	.401	.401	0 %100
137	B79	X	-.694	-.694	0 %100
138	B79	Z	.401	.401	0 %100
139	B80	X	-.419	-.419	0 %100
140	B80	Z	.242	.242	0 %100
141	B81	X	-.419	-.419	0 %100
142	B81	Z	.242	.242	0 %100
143	B82	X	-.235	-.235	0 %100
144	B82	Z	.136	.136	0 %100
145	B83	X	-.235	-.235	0 %100
146	B83	Z	.136	.136	0 %100
147	B84	X	-.286	-.286	0 %100
148	B84	Z	.165	.165	0 %100
149	B85	X	-.286	-.286	0 %100
150	B85	Z	.165	.165	0 %100
151	B86	X	-.402	-.402	0 %100
152	B86	Z	.232	.232	0 %100
153	B87	X	-.402	-.402	0 %100
154	B87	Z	.232	.232	0 %100
155	MP1B	X	-.557	-.557	0 %100
156	MP1B	Z	.322	.322	0 %100
157	MP2B	X	-.557	-.557	0 %100
158	MP2B	Z	.322	.322	0 %100
159	MP3B	X	-.557	-.557	0 %100
160	MP3B	Z	.322	.322	0 %100
161	MP4B	X	-.557	-.557	0 %100
162	MP4B	Z	.322	.322	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
163	MP5B	X	-.557	-.557	0 %100
164	MP5B	Z	.322	.322	0 %100
165	C103	X	-.059	-.059	0 %100
166	C103	Z	.034	.034	0 %100
167	C104	X	-.029	-.029	0 %100
168	C104	Z	.017	.017	0 %100
169	C105	X	-.059	-.059	0 %100
170	C105	Z	.034	.034	0 %100
171	C106	X	-.029	-.029	0 %100
172	C106	Z	.017	.017	0 %100
173	C107	X	-.284	-.284	0 %100
174	C107	Z	.164	.164	0 %100
175	C108	X	-.284	-.284	0 %100
176	C108	Z	.164	.164	0 %100
177	C109	X	-.284	-.284	0 %100
178	C109	Z	.164	.164	0 %100
179	C110	X	-.468	-.468	0 %100
180	C110	Z	.27	.27	0 %100
181	C111	X	-.468	-.468	0 %100
182	C111	Z	.27	.27	0 %100
183	C112	X	-.468	-.468	0 %100
184	C112	Z	.27	.27	0 %100
185	C113	X	-.284	-.284	0 %100
186	C113	Z	.164	.164	0 %100
187	C114	X	-.284	-.284	0 %100
188	C114	Z	.164	.164	0 %100
189	C115	X	-.284	-.284	0 %100
190	C115	Z	.164	.164	0 %100
191	C116	X	-.468	-.468	0 %100
192	C116	Z	.27	.27	0 %100
193	C117	X	-.468	-.468	0 %100
194	C117	Z	.27	.27	0 %100
195	C118	X	-.468	-.468	0 %100
196	C118	Z	.27	.27	0 %100
197	C119	X	-.388	-.388	0 %100
198	C119	Z	.224	.224	0 %100
199	C120	X	-.388	-.388	0 %100
200	C120	Z	.224	.224	0 %100
201	C121	X	-.388	-.388	0 %100
202	C121	Z	.224	.224	0 %100
203	C122	X	-.388	-.388	0 %100
204	C122	Z	.224	.224	0 %100
205	C123	X	-.654	-.654	0 %100
206	C123	Z	.378	.378	0 %100
207	C124	X	-.654	-.654	0 %100
208	C124	Z	.378	.378	0 %100
209	C125	X	-.183	-.183	0 %100
210	C125	Z	.106	.106	0 %100
211	C126	X	-.374	-.374	0 %100
212	C126	Z	.216	.216	0 %100
213	C127	X	-.183	-.183	0 %100
214	C127	Z	.106	.106	0 %100
215	C128	X	-.374	-.374	0 %100
216	C128	Z	.216	.216	0 %100
217	C129	X	-.586	-.586	0 %100
218	C129	Z	.339	.339	0 %100
219	C130	X	-.586	-.586	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
220	C130	Z	.339	.339	0 %100
221	C131	X	-.419	-.419	0 %100
222	C131	Z	.242	.242	0 %100
223	C132	X	-.419	-.419	0 %100
224	C132	Z	.242	.242	0 %100
225	C133	X	-.342	-.342	0 %100
226	C133	Z	.198	.198	0 %100
227	C134	X	-.342	-.342	0 %100
228	C134	Z	.198	.198	0 %100
229	C135	X	-.313	-.313	0 %100
230	C135	Z	.181	.181	0 %100
231	C136	X	-.313	-.313	0 %100
232	C136	Z	.181	.181	0 %100
233	C137	X	-.375	-.375	0 %100
234	C137	Z	.216	.216	0 %100
235	C138	X	-.375	-.375	0 %100
236	C138	Z	.216	.216	0 %100
237	MP1C	X	-.557	-.557	0 %100
238	MP1C	Z	.322	.322	0 %100
239	MP2C	X	-.557	-.557	0 %100
240	MP2C	Z	.322	.322	0 %100
241	MP3C	X	-.557	-.557	0 %100
242	MP3C	Z	.322	.322	0 %100
243	MP4C	X	-.557	-.557	0 %100
244	MP4C	Z	.322	.322	0 %100
245	MP5C	X	-.557	-.557	0 %100
246	MP5C	Z	.322	.322	0 %100
247	M154	X	-.179	-.179	0 %100
248	M154	Z	.103	.103	0 %100
249	M155	X	-.27	-.27	0 %100
250	M155	Z	.156	.156	0 %100
251	M156	X	-.55	-.55	0 %100
252	M156	Z	.317	.317	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.051	-.051	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	-.051	-.051	0 %100
4	A2	Z	0	0	0 %100
5	A3	X	-.051	-.051	0 %100
6	A3	Z	0	0	0 %100
7	A4	X	-.051	-.051	0 %100
8	A4	Z	0	0	0 %100
9	A5	X	-.435	-.435	0 %100
10	A5	Z	0	0	0 %100
11	A6	X	-.435	-.435	0 %100
12	A6	Z	0	0	0 %100
13	A7	X	-.435	-.435	0 %100
14	A7	Z	0	0	0 %100
15	A8	X	-.435	-.435	0 %100
16	A8	Z	0	0	0 %100
17	A9	X	-.435	-.435	0 %100
18	A9	Z	0	0	0 %100
19	A10	X	-.435	-.435	0 %100
20	A10	Z	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	A11	X	-.435	-.435	0 %100
22	A11	Z	0	0	0 %100
23	A12	X	-.435	-.435	0 %100
24	A12	Z	0	0	0 %100
25	A13	X	-.435	-.435	0 %100
26	A13	Z	0	0	0 %100
27	A14	X	-.435	-.435	0 %100
28	A14	Z	0	0	0 %100
29	A15	X	-.435	-.435	0 %100
30	A15	Z	0	0	0 %100
31	A16	X	-.435	-.435	0 %100
32	A16	Z	0	0	0 %100
33	A17	X	-.448	-.448	0 %100
34	A17	Z	0	0	0 %100
35	A18	X	-.448	-.448	0 %100
36	A18	Z	0	0	0 %100
37	A19	X	-.448	-.448	0 %100
38	A19	Z	0	0	0 %100
39	A20	X	-.448	-.448	0 %100
40	A20	Z	0	0	0 %100
41	A21	X	0	0	0 %100
42	A21	Z	0	0	0 %100
43	A22	X	0	0	0 %100
44	A22	Z	0	0	0 %100
45	A23	X	-.322	-.322	0 %100
46	A23	Z	0	0	0 %100
47	A24	X	-.322	-.322	0 %100
48	A24	Z	0	0	0 %100
49	A25	X	-.322	-.322	0 %100
50	A25	Z	0	0	0 %100
51	A26	X	-.322	-.322	0 %100
52	A26	Z	0	0	0 %100
53	A27	X	-.536	-.536	0 %100
54	A27	Z	0	0	0 %100
55	A28	X	-.536	-.536	0 %100
56	A28	Z	0	0	0 %100
57	A29	X	-.484	-.484	0 %100
58	A29	Z	0	0	0 %100
59	A30	X	-.484	-.484	0 %100
60	A30	Z	0	0	0 %100
61	A31	X	-.536	-.536	0 %100
62	A31	Z	0	0	0 %100
63	A32	X	-.536	-.536	0 %100
64	A32	Z	0	0	0 %100
65	A33	X	-.397	-.397	0 %100
66	A33	Z	0	0	0 %100
67	A34	X	-.397	-.397	0 %100
68	A34	Z	0	0	0 %100
69	A35	X	-.397	-.397	0 %100
70	A35	Z	0	0	0 %100
71	A36	X	-.397	-.397	0 %100
72	A36	Z	0	0	0 %100
73	MP1A	X	-.644	-.644	0 %100
74	MP1A	Z	0	0	0 %100
75	MP2A	X	-.644	-.644	0 %100
76	MP2A	Z	0	0	0 %100
77	MP3A	X	-.644	-.644	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-.644	-.644	0	%100
80	MP4A	Z	0	0	0	%100
81	MP5A	X	-.644	-.644	0	%100
82	MP5A	Z	0	0	0	%100
83	B52	X	-.101	-.101	0	%100
84	B52	Z	0	0	0	%100
85	B53	X	-.000774	-.000774	0	%100
86	B53	Z	0	0	0	%100
87	B54	X	-.101	-.101	0	%100
88	B54	Z	0	0	0	%100
89	B55	X	-.000774	-.000774	0	%100
90	B55	Z	0	0	0	%100
91	B56	X	-.129	-.129	0	%100
92	B56	Z	0	0	0	%100
93	B57	X	-.129	-.129	0	%100
94	B57	Z	0	0	0	%100
95	B58	X	-.129	-.129	0	%100
96	B58	Z	0	0	0	%100
97	B59	X	-.74	-.74	0	%100
98	B59	Z	0	0	0	%100
99	B60	X	-.74	-.74	0	%100
100	B60	Z	0	0	0	%100
101	B61	X	-.74	-.74	0	%100
102	B61	Z	0	0	0	%100
103	B62	X	-.129	-.129	0	%100
104	B62	Z	0	0	0	%100
105	B63	X	-.129	-.129	0	%100
106	B63	Z	0	0	0	%100
107	B64	X	-.129	-.129	0	%100
108	B64	Z	0	0	0	%100
109	B65	X	-.74	-.74	0	%100
110	B65	Z	0	0	0	%100
111	B66	X	-.74	-.74	0	%100
112	B66	Z	0	0	0	%100
113	B67	X	-.74	-.74	0	%100
114	B67	Z	0	0	0	%100
115	B68	X	-.448	-.448	0	%100
116	B68	Z	0	0	0	%100
117	B69	X	-.448	-.448	0	%100
118	B69	Z	0	0	0	%100
119	B70	X	-.448	-.448	0	%100
120	B70	Z	0	0	0	%100
121	B71	X	-.448	-.448	0	%100
122	B71	Z	0	0	0	%100
123	B72	X	-.457	-.457	0	%100
124	B72	Z	0	0	0	%100
125	B73	X	-.457	-.457	0	%100
126	B73	Z	0	0	0	%100
127	B74	X	-.005	-.005	0	%100
128	B74	Z	0	0	0	%100
129	B75	X	-.639	-.639	0	%100
130	B75	Z	0	0	0	%100
131	B76	X	-.005	-.005	0	%100
132	B76	Z	0	0	0	%100
133	B77	X	-.639	-.639	0	%100
134	B77	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
135	B78	X	-.942	- .942	0 %100
136	B78	Z	0	0	0 %100
137	B79	X	- .942	- .942	0 %100
138	B79	Z	0	0	0 %100
139	B80	X	- .484	- .484	0 %100
140	B80	Z	0	0	0 %100
141	B81	X	- .484	- .484	0 %100
142	B81	Z	0	0	0 %100
143	B82	X	- .13	- .13	0 %100
144	B82	Z	0	0	0 %100
145	B83	X	- .13	- .13	0 %100
146	B83	Z	0	0	0 %100
147	B84	X	- .294	- .294	0 %100
148	B84	Z	0	0	0 %100
149	B85	X	- .294	- .294	0 %100
150	B85	Z	0	0	0 %100
151	B86	X	- .5	- .5	0 %100
152	B86	Z	0	0	0 %100
153	B87	X	- .5	- .5	0 %100
154	B87	Z	0	0	0 %100
155	MP1B	X	- .644	- .644	0 %100
156	MP1B	Z	0	0	0 %100
157	MP2B	X	- .644	- .644	0 %100
158	MP2B	Z	0	0	0 %100
159	MP3B	X	- .644	- .644	0 %100
160	MP3B	Z	0	0	0 %100
161	MP4B	X	- .644	- .644	0 %100
162	MP4B	Z	0	0	0 %100
163	MP5B	X	- .644	- .644	0 %100
164	MP5B	Z	0	0	0 %100
165	C103	X	- .018	- .018	0 %100
166	C103	Z	0	0	0 %100
167	C104	X	- .083	- .083	0 %100
168	C104	Z	0	0	0 %100
169	C105	X	- .018	- .018	0 %100
170	C105	Z	0	0	0 %100
171	C106	X	- .083	- .083	0 %100
172	C106	Z	0	0	0 %100
173	C107	X	- .634	- .634	0 %100
174	C107	Z	0	0	0 %100
175	C108	X	- .634	- .634	0 %100
176	C108	Z	0	0	0 %100
177	C109	X	- .634	- .634	0 %100
178	C109	Z	0	0	0 %100
179	C110	X	- .235	- .235	0 %100
180	C110	Z	0	0	0 %100
181	C111	X	- .235	- .235	0 %100
182	C111	Z	0	0	0 %100
183	C112	X	- .235	- .235	0 %100
184	C112	Z	0	0	0 %100
185	C113	X	- .634	- .634	0 %100
186	C113	Z	0	0	0 %100
187	C114	X	- .634	- .634	0 %100
188	C114	Z	0	0	0 %100
189	C115	X	- .634	- .634	0 %100
190	C115	Z	0	0	0 %100
191	C116	X	- .235	- .235	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
192	C116	Z	0	0	0	%100
193	C117	X	-.235	-.235	0	%100
194	C117	Z	0	0	0	%100
195	C118	X	-.235	-.235	0	%100
196	C118	Z	0	0	0	%100
197	C119	X	-.448	-.448	0	%100
198	C119	Z	0	0	0	%100
199	C120	X	-.448	-.448	0	%100
200	C120	Z	0	0	0	%100
201	C121	X	-.448	-.448	0	%100
202	C121	Z	0	0	0	%100
203	C122	X	-.448	-.448	0	%100
204	C122	Z	0	0	0	%100
205	C123	X	-.688	-.688	0	%100
206	C123	Z	0	0	0	%100
207	C124	X	-.688	-.688	0	%100
208	C124	Z	0	0	0	%100
209	C125	X	-.529	-.529	0	%100
210	C125	Z	0	0	0	%100
211	C126	X	-.115	-.115	0	%100
212	C126	Z	0	0	0	%100
213	C127	X	-.529	-.529	0	%100
214	C127	Z	0	0	0	%100
215	C128	X	-.115	-.115	0	%100
216	C128	Z	0	0	0	%100
217	C129	X	-.271	-.271	0	%100
218	C129	Z	0	0	0	%100
219	C130	X	-.271	-.271	0	%100
220	C130	Z	0	0	0	%100
221	C131	X	-.484	-.484	0	%100
222	C131	Z	0	0	0	%100
223	C132	X	-.484	-.484	0	%100
224	C132	Z	0	0	0	%100
225	C133	X	-.801	-.801	0	%100
226	C133	Z	0	0	0	%100
227	C134	X	-.801	-.801	0	%100
228	C134	Z	0	0	0	%100
229	C135	X	-.464	-.464	0	%100
230	C135	Z	0	0	0	%100
231	C136	X	-.464	-.464	0	%100
232	C136	Z	0	0	0	%100
233	C137	X	-.33	-.33	0	%100
234	C137	Z	0	0	0	%100
235	C138	X	-.33	-.33	0	%100
236	C138	Z	0	0	0	%100
237	MP1C	X	-.644	-.644	0	%100
238	MP1C	Z	0	0	0	%100
239	MP2C	X	-.644	-.644	0	%100
240	MP2C	Z	0	0	0	%100
241	MP3C	X	-.644	-.644	0	%100
242	MP3C	Z	0	0	0	%100
243	MP4C	X	-.644	-.644	0	%100
244	MP4C	Z	0	0	0	%100
245	MP5C	X	-.644	-.644	0	%100
246	MP5C	Z	0	0	0	%100
247	M154	X	-.000536	-.000536	0	%100
248	M154	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
249	M155	X	- .753	- .753	0	%100
250	M155	Z	0	0	0	%100
251	M156	X	- .186	- .186	0	%100
252	M156	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	- .082	- .082	0	%100
2	A1	Z	- .047	- .047	0	%100
3	A2	X	- .006	- .006	0	%100
4	A2	Z	- .003	- .003	0	%100
5	A3	X	- .082	- .082	0	%100
6	A3	Z	- .047	- .047	0	%100
7	A4	X	- .006	- .006	0	%100
8	A4	Z	- .003	- .003	0	%100
9	A5	X	- .144	- .144	0	%100
10	A5	Z	- .083	- .083	0	%100
11	A6	X	- .144	- .144	0	%100
12	A6	Z	- .083	- .083	0	%100
13	A7	X	- .144	- .144	0	%100
14	A7	Z	- .083	- .083	0	%100
15	A8	X	- .609	- .609	0	%100
16	A8	Z	- .352	- .352	0	%100
17	A9	X	- .609	- .609	0	%100
18	A9	Z	- .352	- .352	0	%100
19	A10	X	- .609	- .609	0	%100
20	A10	Z	- .352	- .352	0	%100
21	A11	X	- .144	- .144	0	%100
22	A11	Z	- .083	- .083	0	%100
23	A12	X	- .144	- .144	0	%100
24	A12	Z	- .083	- .083	0	%100
25	A13	X	- .144	- .144	0	%100
26	A13	Z	- .083	- .083	0	%100
27	A14	X	- .609	- .609	0	%100
28	A14	Z	- .352	- .352	0	%100
29	A15	X	- .609	- .609	0	%100
30	A15	Z	- .352	- .352	0	%100
31	A16	X	- .609	- .609	0	%100
32	A16	Z	- .352	- .352	0	%100
33	A17	X	- .388	- .388	0	%100
34	A17	Z	- .224	- .224	0	%100
35	A18	X	- .388	- .388	0	%100
36	A18	Z	- .224	- .224	0	%100
37	A19	X	- .388	- .388	0	%100
38	A19	Z	- .224	- .224	0	%100
39	A20	X	- .388	- .388	0	%100
40	A20	Z	- .224	- .224	0	%100
41	A21	X	- .169	- .169	0	%100
42	A21	Z	- .097	- .097	0	%100
43	A22	X	- .169	- .169	0	%100
44	A22	Z	- .097	- .097	0	%100
45	A23	X	- .037	- .037	0	%100
46	A23	Z	- .022	- .022	0	%100
47	A24	X	- .52	- .52	0	%100
48	A24	Z	- .3	- .3	0	%100
49	A25	X	- .037	- .037	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	A25	Z	-0.22	-0.22	0 %100
51	A26	X	-0.52	-0.52	0 %100
52	A26	Z	-0.3	-0.3	0 %100
53	A27	X	-0.773	-0.773	0 %100
54	A27	Z	-0.447	-0.447	0 %100
55	A28	X	-0.773	-0.773	0 %100
56	A28	Z	-0.447	-0.447	0 %100
57	A29	X	-0.419	-0.419	0 %100
58	A29	Z	-0.242	-0.242	0 %100
59	A30	X	-0.419	-0.419	0 %100
60	A30	Z	-0.242	-0.242	0 %100
61	A31	X	-0.155	-0.155	0 %100
62	A31	Z	-0.09	-0.09	0 %100
63	A32	X	-0.155	-0.155	0 %100
64	A32	Z	-0.09	-0.09	0 %100
65	A33	X	-0.265	-0.265	0 %100
66	A33	Z	-0.153	-0.153	0 %100
67	A34	X	-0.265	-0.265	0 %100
68	A34	Z	-0.153	-0.153	0 %100
69	A35	X	-0.422	-0.422	0 %100
70	A35	Z	-0.244	-0.244	0 %100
71	A36	X	-0.422	-0.422	0 %100
72	A36	Z	-0.244	-0.244	0 %100
73	MP1A	X	-0.557	-0.557	0 %100
74	MP1A	Z	-0.322	-0.322	0 %100
75	MP2A	X	-0.557	-0.557	0 %100
76	MP2A	Z	-0.322	-0.322	0 %100
77	MP3A	X	-0.557	-0.557	0 %100
78	MP3A	Z	-0.322	-0.322	0 %100
79	MP4A	X	-0.557	-0.557	0 %100
80	MP4A	Z	-0.322	-0.322	0 %100
81	MP5A	X	-0.557	-0.557	0 %100
82	MP5A	Z	-0.322	-0.322	0 %100
83	B52	X	-0.059	-0.059	0 %100
84	B52	Z	-0.034	-0.034	0 %100
85	B53	X	-0.029	-0.029	0 %100
86	B53	Z	-0.017	-0.017	0 %100
87	B54	X	-0.059	-0.059	0 %100
88	B54	Z	-0.034	-0.034	0 %100
89	B55	X	-0.029	-0.029	0 %100
90	B55	Z	-0.017	-0.017	0 %100
91	B56	X	-0.284	-0.284	0 %100
92	B56	Z	-0.164	-0.164	0 %100
93	B57	X	-0.284	-0.284	0 %100
94	B57	Z	-0.164	-0.164	0 %100
95	B58	X	-0.284	-0.284	0 %100
96	B58	Z	-0.164	-0.164	0 %100
97	B59	X	-0.468	-0.468	0 %100
98	B59	Z	-0.27	-0.27	0 %100
99	B60	X	-0.468	-0.468	0 %100
100	B60	Z	-0.27	-0.27	0 %100
101	B61	X	-0.468	-0.468	0 %100
102	B61	Z	-0.27	-0.27	0 %100
103	B62	X	-0.284	-0.284	0 %100
104	B62	Z	-0.164	-0.164	0 %100
105	B63	X	-0.284	-0.284	0 %100
106	B63	Z	-0.164	-0.164	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
107	B64	X	-.284	-.284	0 %100
108	B64	Z	-.164	-.164	0 %100
109	B65	X	-.468	-.468	0 %100
110	B65	Z	-.27	-.27	0 %100
111	B66	X	-.468	-.468	0 %100
112	B66	Z	-.27	-.27	0 %100
113	B67	X	-.468	-.468	0 %100
114	B67	Z	-.27	-.27	0 %100
115	B68	X	-.388	-.388	0 %100
116	B68	Z	-.224	-.224	0 %100
117	B69	X	-.388	-.388	0 %100
118	B69	Z	-.224	-.224	0 %100
119	B70	X	-.388	-.388	0 %100
120	B70	Z	-.224	-.224	0 %100
121	B71	X	-.388	-.388	0 %100
122	B71	Z	-.224	-.224	0 %100
123	B72	X	-.654	-.654	0 %100
124	B72	Z	-.378	-.378	0 %100
125	B73	X	-.654	-.654	0 %100
126	B73	Z	-.378	-.378	0 %100
127	B74	X	-.183	-.183	0 %100
128	B74	Z	-.106	-.106	0 %100
129	B75	X	-.374	-.374	0 %100
130	B75	Z	-.216	-.216	0 %100
131	B76	X	-.183	-.183	0 %100
132	B76	Z	-.106	-.106	0 %100
133	B77	X	-.374	-.374	0 %100
134	B77	Z	-.216	-.216	0 %100
135	B78	X	-.586	-.586	0 %100
136	B78	Z	-.339	-.339	0 %100
137	B79	X	-.586	-.586	0 %100
138	B79	Z	-.339	-.339	0 %100
139	B80	X	-.419	-.419	0 %100
140	B80	Z	-.242	-.242	0 %100
141	B81	X	-.419	-.419	0 %100
142	B81	Z	-.242	-.242	0 %100
143	B82	X	-.342	-.342	0 %100
144	B82	Z	-.198	-.198	0 %100
145	B83	X	-.342	-.342	0 %100
146	B83	Z	-.198	-.198	0 %100
147	B84	X	-.313	-.313	0 %100
148	B84	Z	-.181	-.181	0 %100
149	B85	X	-.313	-.313	0 %100
150	B85	Z	-.181	-.181	0 %100
151	B86	X	-.375	-.375	0 %100
152	B86	Z	-.216	-.216	0 %100
153	B87	X	-.375	-.375	0 %100
154	B87	Z	-.216	-.216	0 %100
155	MP1B	X	-.557	-.557	0 %100
156	MP1B	Z	-.322	-.322	0 %100
157	MP2B	X	-.557	-.557	0 %100
158	MP2B	Z	-.322	-.322	0 %100
159	MP3B	X	-.557	-.557	0 %100
160	MP3B	Z	-.322	-.322	0 %100
161	MP4B	X	-.557	-.557	0 %100
162	MP4B	Z	-.322	-.322	0 %100
163	MP5B	X	-.557	-.557	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
164	MP5B	Z	-.322	-.322	0 %100
165	C103	X	-.000666	-.000666	0 %100
166	C103	Z	-.000385	-.000385	0 %100
167	C104	X	-.087	-.087	0 %100
168	C104	Z	-.05	-.05	0 %100
169	C105	X	-.000666	-.000666	0 %100
170	C105	Z	-.000385	-.000385	0 %100
171	C106	X	-.087	-.087	0 %100
172	C106	Z	-.05	-.05	0 %100
173	C107	X	-.641	-.641	0 %100
174	C107	Z	-.37	-.37	0 %100
175	C108	X	-.641	-.641	0 %100
176	C108	Z	-.37	-.37	0 %100
177	C109	X	-.641	-.641	0 %100
178	C109	Z	-.37	-.37	0 %100
179	C110	X	-.112	-.112	0 %100
180	C110	Z	-.064	-.064	0 %100
181	C111	X	-.112	-.112	0 %100
182	C111	Z	-.064	-.064	0 %100
183	C112	X	-.112	-.112	0 %100
184	C112	Z	-.064	-.064	0 %100
185	C113	X	-.641	-.641	0 %100
186	C113	Z	-.37	-.37	0 %100
187	C114	X	-.641	-.641	0 %100
188	C114	Z	-.37	-.37	0 %100
189	C115	X	-.641	-.641	0 %100
190	C115	Z	-.37	-.37	0 %100
191	C116	X	-.112	-.112	0 %100
192	C116	Z	-.064	-.064	0 %100
193	C117	X	-.112	-.112	0 %100
194	C117	Z	-.064	-.064	0 %100
195	C118	X	-.112	-.112	0 %100
196	C118	Z	-.064	-.064	0 %100
197	C119	X	-.388	-.388	0 %100
198	C119	Z	-.224	-.224	0 %100
199	C120	X	-.388	-.388	0 %100
200	C120	Z	-.224	-.224	0 %100
201	C121	X	-.388	-.388	0 %100
202	C121	Z	-.224	-.224	0 %100
203	C122	X	-.388	-.388	0 %100
204	C122	Z	-.224	-.224	0 %100
205	C123	X	-.279	-.279	0 %100
206	C123	Z	-.161	-.161	0 %100
207	C124	X	-.279	-.279	0 %100
208	C124	Z	-.161	-.161	0 %100
209	C125	X	-.553	-.553	0 %100
210	C125	Z	-.319	-.319	0 %100
211	C126	X	-.004	-.004	0 %100
212	C126	Z	-.002	-.002	0 %100
213	C127	X	-.553	-.553	0 %100
214	C127	Z	-.319	-.319	0 %100
215	C128	X	-.004	-.004	0 %100
216	C128	Z	-.002	-.002	0 %100
217	C129	X	-.113	-.113	0 %100
218	C129	Z	-.065	-.065	0 %100
219	C130	X	-.113	-.113	0 %100
220	C130	Z	-.065	-.065	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
221	C131	X	-419	-419	0	%100
222	C131	Z	-.242	-.242	0	%100
223	C132	X	-419	-419	0	%100
224	C132	Z	-.242	-.242	0	%100
225	C133	X	-.816	-.816	0	%100
226	C133	Z	-.471	-.471	0	%100
227	C134	X	-.816	-.816	0	%100
228	C134	Z	-.471	-.471	0	%100
229	C135	X	-.433	-.433	0	%100
230	C135	Z	-.25	-.25	0	%100
231	C136	X	-.433	-.433	0	%100
232	C136	Z	-.25	-.25	0	%100
233	C137	X	-.255	-.255	0	%100
234	C137	Z	-.147	-.147	0	%100
235	C138	X	-.255	-.255	0	%100
236	C138	Z	-.147	-.147	0	%100
237	MP1C	X	-.557	-.557	0	%100
238	MP1C	Z	-.322	-.322	0	%100
239	MP2C	X	-.557	-.557	0	%100
240	MP2C	Z	-.322	-.322	0	%100
241	MP3C	X	-.557	-.557	0	%100
242	MP3C	Z	-.322	-.322	0	%100
243	MP4C	X	-.557	-.557	0	%100
244	MP4C	Z	-.322	-.322	0	%100
245	MP5C	X	-.557	-.557	0	%100
246	MP5C	Z	-.322	-.322	0	%100
247	M154	X	-.212	-.212	0	%100
248	M154	Z	-.122	-.122	0	%100
249	M155	X	-.772	-.772	0	%100
250	M155	Z	-.446	-.446	0	%100
251	M156	X	-.002	-.002	0	%100
252	M156	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	A1	X	-.047	-.047	0	%100
2	A1	Z	-.082	-.082	0	%100
3	A2	X	-.003	-.003	0	%100
4	A2	Z	-.006	-.006	0	%100
5	A3	X	-.047	-.047	0	%100
6	A3	Z	-.082	-.082	0	%100
7	A4	X	-.003	-.003	0	%100
8	A4	Z	-.006	-.006	0	%100
9	A5	X	-.083	-.083	0	%100
10	A5	Z	-.144	-.144	0	%100
11	A6	X	-.083	-.083	0	%100
12	A6	Z	-.144	-.144	0	%100
13	A7	X	-.083	-.083	0	%100
14	A7	Z	-.144	-.144	0	%100
15	A8	X	-.352	-.352	0	%100
16	A8	Z	-.609	-.609	0	%100
17	A9	X	-.352	-.352	0	%100
18	A9	Z	-.609	-.609	0	%100
19	A10	X	-.352	-.352	0	%100
20	A10	Z	-.609	-.609	0	%100
21	A11	X	-.083	-.083	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	A11	Z	-144	-144	0 %100
23	A12	X	-083	-083	0 %100
24	A12	Z	-144	-144	0 %100
25	A13	X	-083	-083	0 %100
26	A13	Z	-144	-144	0 %100
27	A14	X	-352	-352	0 %100
28	A14	Z	-609	-609	0 %100
29	A15	X	-352	-352	0 %100
30	A15	Z	-609	-609	0 %100
31	A16	X	-352	-352	0 %100
32	A16	Z	-609	-609	0 %100
33	A17	X	-224	-224	0 %100
34	A17	Z	-388	-388	0 %100
35	A18	X	-224	-224	0 %100
36	A18	Z	-388	-388	0 %100
37	A19	X	-224	-224	0 %100
38	A19	Z	-388	-388	0 %100
39	A20	X	-224	-224	0 %100
40	A20	Z	-388	-388	0 %100
41	A21	X	-292	-292	0 %100
42	A21	Z	-506	-506	0 %100
43	A22	X	-292	-292	0 %100
44	A22	Z	-506	-506	0 %100
45	A23	X	-022	-022	0 %100
46	A23	Z	-037	-037	0 %100
47	A24	X	-3	-3	0 %100
48	A24	Z	-52	-52	0 %100
49	A25	X	-022	-022	0 %100
50	A25	Z	-037	-037	0 %100
51	A26	X	-3	-3	0 %100
52	A26	Z	-52	-52	0 %100
53	A27	X	-447	-447	0 %100
54	A27	Z	-773	-773	0 %100
55	A28	X	-447	-447	0 %100
56	A28	Z	-773	-773	0 %100
57	A29	X	-242	-242	0 %100
58	A29	Z	-419	-419	0 %100
59	A30	X	-242	-242	0 %100
60	A30	Z	-419	-419	0 %100
61	A31	X	-09	-09	0 %100
62	A31	Z	-155	-155	0 %100
63	A32	X	-09	-09	0 %100
64	A32	Z	-155	-155	0 %100
65	A33	X	-153	-153	0 %100
66	A33	Z	-266	-266	0 %100
67	A34	X	-153	-153	0 %100
68	A34	Z	-266	-266	0 %100
69	A35	X	-244	-244	0 %100
70	A35	Z	-422	-422	0 %100
71	A36	X	-244	-244	0 %100
72	A36	Z	-422	-422	0 %100
73	MP1A	X	-322	-322	0 %100
74	MP1A	Z	-557	-557	0 %100
75	MP2A	X	-322	-322	0 %100
76	MP2A	Z	-557	-557	0 %100
77	MP3A	X	-322	-322	0 %100
78	MP3A	Z	-557	-557	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	MP4A	X	-.322	-.322	0 %100
80	MP4A	Z	-.557	-.557	0 %100
81	MP5A	X	-.322	-.322	0 %100
82	MP5A	Z	-.557	-.557	0 %100
83	B52	X	-.009	-.009	0 %100
84	B52	Z	-.016	-.016	0 %100
85	B53	X	-.042	-.042	0 %100
86	B53	Z	-.072	-.072	0 %100
87	B54	X	-.009	-.009	0 %100
88	B54	Z	-.016	-.016	0 %100
89	B55	X	-.042	-.042	0 %100
90	B55	Z	-.072	-.072	0 %100
91	B56	X	-.317	-.317	0 %100
92	B56	Z	-.549	-.549	0 %100
93	B57	X	-.317	-.317	0 %100
94	B57	Z	-.549	-.549	0 %100
95	B58	X	-.317	-.317	0 %100
96	B58	Z	-.549	-.549	0 %100
97	B59	X	-.118	-.118	0 %100
98	B59	Z	-.204	-.204	0 %100
99	B60	X	-.118	-.118	0 %100
100	B60	Z	-.204	-.204	0 %100
101	B61	X	-.118	-.118	0 %100
102	B61	Z	-.204	-.204	0 %100
103	B62	X	-.317	-.317	0 %100
104	B62	Z	-.549	-.549	0 %100
105	B63	X	-.317	-.317	0 %100
106	B63	Z	-.549	-.549	0 %100
107	B64	X	-.317	-.317	0 %100
108	B64	Z	-.549	-.549	0 %100
109	B65	X	-.118	-.118	0 %100
110	B65	Z	-.204	-.204	0 %100
111	B66	X	-.118	-.118	0 %100
112	B66	Z	-.204	-.204	0 %100
113	B67	X	-.118	-.118	0 %100
114	B67	Z	-.204	-.204	0 %100
115	B68	X	-.224	-.224	0 %100
116	B68	Z	-.388	-.388	0 %100
117	B69	X	-.224	-.224	0 %100
118	B69	Z	-.388	-.388	0 %100
119	B70	X	-.224	-.224	0 %100
120	B70	Z	-.388	-.388	0 %100
121	B71	X	-.224	-.224	0 %100
122	B71	Z	-.388	-.388	0 %100
123	B72	X	-.344	-.344	0 %100
124	B72	Z	-.596	-.596	0 %100
125	B73	X	-.344	-.344	0 %100
126	B73	Z	-.596	-.596	0 %100
127	B74	X	-.264	-.264	0 %100
128	B74	Z	-.458	-.458	0 %100
129	B75	X	-.058	-.058	0 %100
130	B75	Z	-.1	-.1	0 %100
131	B76	X	-.264	-.264	0 %100
132	B76	Z	-.458	-.458	0 %100
133	B77	X	-.058	-.058	0 %100
134	B77	Z	-.1	-.1	0 %100
135	B78	X	-.136	-.136	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
136	B78	Z	-.235	-.235	0 %100
137	B79	X	-.136	-.136	0 %100
138	B79	Z	-.235	-.235	0 %100
139	B80	X	-.242	-.242	0 %100
140	B80	Z	-.419	-.419	0 %100
141	B81	X	-.242	-.242	0 %100
142	B81	Z	-.419	-.419	0 %100
143	B82	X	-.401	-.401	0 %100
144	B82	Z	-.694	-.694	0 %100
145	B83	X	-.401	-.401	0 %100
146	B83	Z	-.694	-.694	0 %100
147	B84	X	-.232	-.232	0 %100
148	B84	Z	-.402	-.402	0 %100
149	B85	X	-.232	-.232	0 %100
150	B85	Z	-.402	-.402	0 %100
151	B86	X	-.165	-.165	0 %100
152	B86	Z	-.286	-.286	0 %100
153	B87	X	-.165	-.165	0 %100
154	B87	Z	-.286	-.286	0 %100
155	MP1B	X	-.322	-.322	0 %100
156	MP1B	Z	-.557	-.557	0 %100
157	MP2B	X	-.322	-.322	0 %100
158	MP2B	Z	-.557	-.557	0 %100
159	MP3B	X	-.322	-.322	0 %100
160	MP3B	Z	-.557	-.557	0 %100
161	MP4B	X	-.322	-.322	0 %100
162	MP4B	Z	-.557	-.557	0 %100
163	MP5B	X	-.322	-.322	0 %100
164	MP5B	Z	-.557	-.557	0 %100
165	C103	X	-.017	-.017	0 %100
166	C103	Z	-.029	-.029	0 %100
167	C104	X	-.034	-.034	0 %100
168	C104	Z	-.059	-.059	0 %100
169	C105	X	-.017	-.017	0 %100
170	C105	Z	-.029	-.029	0 %100
171	C106	X	-.034	-.034	0 %100
172	C106	Z	-.059	-.059	0 %100
173	C107	X	-.27	-.27	0 %100
174	C107	Z	-.468	-.468	0 %100
175	C108	X	-.27	-.27	0 %100
176	C108	Z	-.468	-.468	0 %100
177	C109	X	-.27	-.27	0 %100
178	C109	Z	-.468	-.468	0 %100
179	C110	X	-.164	-.164	0 %100
180	C110	Z	-.284	-.284	0 %100
181	C111	X	-.164	-.164	0 %100
182	C111	Z	-.284	-.284	0 %100
183	C112	X	-.164	-.164	0 %100
184	C112	Z	-.284	-.284	0 %100
185	C113	X	-.27	-.27	0 %100
186	C113	Z	-.468	-.468	0 %100
187	C114	X	-.27	-.27	0 %100
188	C114	Z	-.468	-.468	0 %100
189	C115	X	-.27	-.27	0 %100
190	C115	Z	-.468	-.468	0 %100
191	C116	X	-.164	-.164	0 %100
192	C116	Z	-.284	-.284	0 %100



Company : Colliers Engineering & Design
 Designer :
 Job Number :
 Model Name : 5000246277-VZW_MT_LO_H

Nov 10, 2023
 3:46 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
193	C117	X	-.164	-.164	0 %100
194	C117	Z	-.284	-.284	0 %100
195	C118	X	-.164	-.164	0 %100
196	C118	Z	-.284	-.284	0 %100
197	C119	X	-.224	-.224	0 %100
198	C119	Z	-.388	-.388	0 %100
199	C120	X	-.224	-.224	0 %100
200	C120	Z	-.388	-.388	0 %100
201	C121	X	-.224	-.224	0 %100
202	C121	Z	-.388	-.388	0 %100
203	C122	X	-.224	-.224	0 %100
204	C122	Z	-.388	-.388	0 %100
205	C123	X	-.012	-.012	0 %100
206	C123	Z	-.02	-.02	0 %100
207	C124	X	-.012	-.012	0 %100
208	C124	Z	-.02	-.02	0 %100
209	C125	X	-.216	-.216	0 %100
210	C125	Z	-.374	-.374	0 %100
211	C126	X	-.106	-.106	0 %100
212	C126	Z	-.183	-.183	0 %100
213	C127	X	-.216	-.216	0 %100
214	C127	Z	-.374	-.374	0 %100
215	C128	X	-.106	-.106	0 %100
216	C128	Z	-.183	-.183	0 %100
217	C129	X	-.198	-.198	0 %100
218	C129	Z	-.342	-.342	0 %100
219	C130	X	-.198	-.198	0 %100
220	C130	Z	-.342	-.342	0 %100
221	C131	X	-.242	-.242	0 %100
222	C131	Z	-.419	-.419	0 %100
223	C132	X	-.242	-.242	0 %100
224	C132	Z	-.419	-.419	0 %100
225	C133	X	-.339	-.339	0 %100
226	C133	Z	-.586	-.586	0 %100
227	C134	X	-.339	-.339	0 %100
228	C134	Z	-.586	-.586	0 %100
229	C135	X	-.216	-.216	0 %100
230	C135	Z	-.375	-.375	0 %100
231	C136	X	-.216	-.216	0 %100
232	C136	Z	-.375	-.375	0 %100
233	C137	X	-.181	-.181	0 %100
234	C137	Z	-.313	-.313	0 %100
235	C138	X	-.181	-.181	0 %100
236	C138	Z	-.313	-.313	0 %100
237	MP1C	X	-.322	-.322	0 %100
238	MP1C	Z	-.557	-.557	0 %100
239	MP2C	X	-.322	-.322	0 %100
240	MP2C	Z	-.557	-.557	0 %100
241	MP3C	X	-.322	-.322	0 %100
242	MP3C	Z	-.557	-.557	0 %100
243	MP4C	X	-.322	-.322	0 %100
244	MP4C	Z	-.557	-.557	0 %100
245	MP5C	X	-.322	-.322	0 %100
246	MP5C	Z	-.557	-.557	0 %100
247	M154	X	-.348	-.348	0 %100
248	M154	Z	-.602	-.602	0 %100
249	M155	X	-.295	-.295	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
250 M155	Z	-511	-511	0	%100
251 M156	X	-134	-134	0	%100
252 M156	Z	-231	-231	0	%100

Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1 A12	max	1258.317	9	1822.514	21	1354.586	2	-.053	72	0	.75	.073	49
2	min	-1606.518	3	428.709	67	-3930.116	20	-.229	14	0	1	-.049	50
3 A3	max	1018.956	33	1023.476	15	3622.157	14	-.036	65	0	.75	.053	49
4	min	-646.596	39	239.571	73	-352.106	8	-.16	20	0	1	-.038	50
5 B75	max	-413.743	10	952.155	19	-22.892	12	.063	22	0	.75	-.035	69
6	min	-3121.704	16	233.461	65	-1397.882	18	.008	5	0	1	-.141	24
7 B84	max	3403.846	22	1681.16	13	1517.169	24	.094	22	0	.75	-.049	71
8	min	-410.925	4	404.189	71	-359.608	6	.019	65	0	1	-.197	16
9 C147	max	3412.686	23	923.105	22	-99.406	2	.079	23	0	.75	.136	17
10	min	-1135.328	5	225.528	69	-1773.449	20	.008	5	0	1	.015	11
11 C156	max	684.439	10	1727.334	17	1925.977	14	.12	23	0	.75	.194	17
12	min	-3187.774	16	415.611	75	-353.019	8	.002	5	0	1	.044	75
13 N219	max	1028.914	3	116.253	15	2309.446	9	0	75	0	.75	0	75
14	min	-1016.438	9	35.675	73	-2375.335	3	0	1	0	1	0	1
15 N220	max	2130.016	5	112.22	23	125.927	1	0	75	0	.75	0	75
16	min	-2150.186	11	34.475	69	-123.162	7	0	1	0	1	0	1
17 N222	max	855.778	1	87.925	13	491.01	1	0	75	0	.75	0	75
18	min	-860.85	7	26.898	71	-486.215	7	0	1	0	1	0	1
19 Totals:	max	4517.149	10	8422.729	19	4722.649	1						
20	min	-4517.153	4	2046.705	71	-4722.651	7						

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

Member	Shape	Code Check	Loc[ft]	LC Shear	Loc[ft]	Dir	LC phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn
1 A1	PL3/8X3.5	.318	.25	14	.048	.25	z 20	40839.9...	42525	.332	3.101	1...H1-1b
2 A2	PL3/8X3.5	.368	0	14	.066	0	y 49	40839.9...	42525	.332	3.101	1...H1-1b
3 A3	PL3/8X3.5	.454	.25	21	.061	.25	z 14	40839.9...	42525	.332	3.101	1...H1-1b
4 A4	PL3/8X3.5	.543	0	16	.070	0	z 49	40839.9...	42525	.332	3.101	1...H1-1b
5 A5	PL3/8x2.75	.383	.182	3	.119	.182	y 2	32689.1...	33404.4	.262	1.914	1...H1-1b
6 A6	PL3/8x2.75	.113	.182	24	.083	0	y 21	32689.1...	33404.4	.262	1.914	1...H1-1b
7 A7	PL3/8x2.75	.017	.182	17	.025	.182	y 6	32689.1...	33404.4	.262	1.914	1...H1-1b*
8 A8	PL3/8x2.75	.019	.182	15	.010	0	y 50	32689.1...	33404.4	.262	1.914	1...H1-1b*
9 A9	PL3/8x2.75	.137	.182	14	.101	.182	y 14	32689.1...	33404.4	.262	1.914	1...H1-1b
10 A10	PL3/8x2.75	.109	.182	14	.085	0	y 15	32689.1...	33404.4	.262	1.914	1...H1-1b
11 A11	PL3/8x2.75	.523	.182	3	.124	.182	y 2	32689.1...	33404.4	.262	1.914	1...H1-1b
12 A12	PL3/8x2.75	.072	.182	47	.056	0	y 38	32689.1...	33404.4	.262	1.914	1...H1-1b
13 A13	PL3/8x2.75	.124	.182	23	.091	.182	y 18	32689.1...	33404.4	.262	1.914	1...H1-1b
14 A14	PL3/8x2.75	.153	.182	15	.105	.182	y 18	32689.1...	33404.4	.262	1.914	1...H1-1b
15 A15	PL3/8x2.75	.106	.182	15	.076	.182	y 18	32689.1...	33404.4	.262	1.914	1...H1-1b
16 A16	PL3/8x2.75	.015	0	14	.016	0	y 49	32689.1...	33404.4	.262	1.914	1...H1-1b*
17 A17	Rohn 1.5x1...	.155	2.854	21	.013	2.854	12	6571.991	8276.625	.317	.317	1...H1-1b*
18 A18	Rohn 1.5x1...	.082	2.854	17	.020	2.854	6	6571.991	8276.625	.317	.317	1...H1-1b*
19 A19	Rohn 1.5x1...	.092	2.854	15	.007	2.854	1	6571.991	8276.625	.317	.317	1...H1-1b*



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

Member	Shape	Code Check	Loc[ft]	LC Shear	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Egn		
20	A20	Rohn 1.5x1...	.197	2.854	16	.007	0	49	6571.991	8276.625	.317	.317	1	H1-1b*	
21	A21	PIPE 2.5	.138	3.281	49	.092	3.281	31	10110.2...	50715	3.596	3.596	2	H1-1b	
22	A22	PIPE 2.5	.122	3.281	49	.100	3.281	1	10110.2...	50715	3.596	3.596	2	H1-1b	
23	A23	PIPE 2.0	.219	.491	14	.088	5.343	19	21179.0...	32130	1.872	1.872	1	H1-1b	
24	A24	PIPE 2.0	.191	.491	15	.128	5.343	2	21179.0...	32130	1.872	1.872	1	H1-1b	
25	A25	PIPE 2.0	.314	.43	18	.108	0	15	21179.0...	32130	1.872	1.872	2	H1-1b	
26	A26	PIPE 2.0	.262	.43	21	.156	5.343	8	21179.0...	32130	1.872	1.872	2	H1-1b	
27	A27	PL3/8X3.5	.013	.281	14	.012	0	y	49	40403.7...	42525	.332	3.101	1	H1-1b*
28	A28	PL3/8X3.5	.013	.281	14	.012	0	y	49	40403.7...	42525	.332	3.101	1	H1-1b*
29	A29	PIPE 2.0	.018	2.292	14	.002	0	6	30169.2...	32130	1.872	1.872	1	H1-1b*	
30	A30	PIPE 2.0	.972	.907	3	.162	0	3	30169.2...	32130	1.872	1.872	1	H1-1b	
31	A31	PL3/8X3.5	.596	.281	3	.097	0	y	2	40403.7...	42525	.332	3.101	1	H1-1b
32	A32	PL3/8X3.5	.418	0	3	.073	.281	y	2	40403.7...	42525	.332	3.101	1	H1-1b
33	A33	Rohn 1.5x1...	.285	1.829	13	.010	0	2	5574.442	8276.625	.317	.317	1	H1-1a	
34	A34	Rohn 1.5x1...	.132	1.868	13	.010	3.736	1	5574.442	8276.625	.317	.317	1	H1-1b	
35	A35	Rohn 1.5x1...	.218	1.129	21	.017	0	6	5574.442	8276.625	.317	.317	1	H1-1a	
36	A36	Rohn 1.5x1...	.096	1.868	16	.014	3.736	5	5574.442	8276.625	.317	.317	1	H1-1b	
37	MP1A	PIPE 2.0	.205	4.87	49	.037	1.547	49	22356.0...	32130	1.872	1.872	2	H1-1b	
38	MP2A	PIPE 2.0	.320	2.99	7	.087	2.99	5	17855.0...	32130	1.872	1.872	2	H1-1b	
39	MP3A	PIPE 2.0	.076	5.5	49	.024	5.5	3	20866.7...	32130	1.872	1.872	2	H1-1b	
40	MP4A	PIPE 2.0	.093	4.87	18	.031	1.547	6	22356.0...	32130	1.872	1.872	2	H1-1b	
41	MP5A	PIPE 2.0	.182	4.87	50	.027	1.547	50	22356.0...	32130	1.872	1.872	2	H1-1b	
42	B52	PL3/8X3.5	.228	.25	18	.049	.25	y	24	40839.9...	42525	.332	3.101	1	H1-1b
43	B53	PL3/8X3.5	.408	0	16	.041	0	y	5	40839.9...	42525	.332	3.101	1	H1-1b
44	B54	PL3/8X3.5	.341	.25	23	.060	.25	z	16	40839.9...	42525	.332	3.101	1	H1-1b
45	B55	PL3/8X3.5	.563	0	20	.054	0	z	19	40839.9...	42525	.332	3.101	1	H1-1b
46	B56	PL3/8x2.75	.063	.182	18	.047	0	y	14	32689.1...	33404.4	.262	1.914	1	H1-1b
47	B57	PL3/8x2.75	.087	.182	22	.069	0	y	13	32689.1...	33404.4	.262	1.914	1	H1-1b
48	B58	PL3/8x2.75	.011	.182	22	.008	.182	y	13	32689.1...	33404.4	.262	1.914	1	H1-1b*
49	B59	PL3/8x2.75	.021	.182	19	.028	.182	y	6	32689.1...	33404.4	.262	1.914	1	H1-1b*
50	B60	PL3/8x2.75	.148	.182	19	.114	0	y	19	32689.1...	33404.4	.262	1.914	1	H1-1b
51	B61	PL3/8x2.75	.128	.182	13	.094	.182	y	15	32689.1...	33404.4	.262	1.914	1	H1-1b
52	B62	PL3/8x2.75	.008	.182	11	.016	.182	y	6	32689.1...	33404.4	.262	1.914	1	H1-1b
53	B63	PL3/8x2.75	.059	.182	23	.052	.182	y	13	32689.1...	33404.4	.262	1.914	1	H1-1b
54	B64	PL3/8x2.75	.096	.182	22	.073	.182	y	13	32689.1...	33404.4	.262	1.914	1	H1-1b
55	B65	PL3/8x2.75	.167	.182	19	.124	0	y	13	32689.1...	33404.4	.262	1.914	1	H1-1b
56	B66	PL3/8x2.75	.122	.182	19	.096	.182	y	19	32689.1...	33404.4	.262	1.914	1	H1-1b
57	B67	PL3/8x2.75	.019	0	19	.056	.182	y	1	32689.1...	33404.4	.262	1.914	1	H1-1b*
58	B68	Rohn 1.5x1...	.116	2.854	23	.008	2.854	6	6571.991	8276.625	.317	.317	1	H1-1b*	
59	B69	Rohn 1.5x1...	.056	2.854	22	.009	2.854	12	6571.991	8276.625	.317	.317	1	H1-1b*	
60	B70	PIPE 1.5	.034	2.854	19	.007	0	6	20236.5...	23593.5	1.105	1.105	1	H1-1b*	
61	B71	Rohn 1.5x1...	.216	1.576	24	.011	2.854	1	6571.991	8276.625	.317	.317	1	H1-1a	
62	B72	PIPE 2.5	.251	3.125	1	.119	.469	1	10110.2...	50715	3.596	3.596	2	H1-1b	
63	B73	PIPE 2.5	.407	3.125	1	.103	3.281	6	10110.2...	50715	3.596	3.596	1	H1-1b	
64	B74	PIPE 2.0	.244	.491	16	.100	5.343	13	21179.0...	32130	1.872	1.872	1	H1-1b	
65	B75	PIPE 2.0	.133	.491	18	.054	5.343	16	21179.0...	32130	1.872	1.872	1	H1-1b	
66	B76	PIPE 2.0	.330	.43	21	.110	0	19	21179.0...	32130	1.872	1.872	2	H1-1b	
67	B77	PIPE 2.0	.198	.43	23	.073	0	15	21179.0...	32130	1.872	1.872	2	H1-1b	
68	B78	PL3/8X3.5	.015	.281	19	.043	0	y	1	40403.7...	42525	.332	3.101	1	H1-1b*
69	B79	PL3/8X3.5	.016	.281	19	.043	.281	y	1	40403.7...	42525	.332	3.101	1	H1-1b*
70	B80	PIPE 2.0	.022	2.292	19	.007	0	1	30169.2...	32130	1.872	1.872	1	H1-1b*	
71	B81	PIPE 2.0	.009	2.292	23	.003	0	6	30169.2...	32130	1.872	1.872	1	H1-1b*	
72	B82	PL3/8X3.5	.009	.281	10	.012	0	y	6	40403.7...	42525	.332	3.101	1	H1-1b
73	B83	PL3/8X3.5	.009	0	10	.012	.281	y	6	40403.7...	42525	.332	3.101	1	H1-1b
74	B84	Rohn 1.5x1...	.301	1.829	17	.029	0	1	5574.442	8276.625	.317	.317	1	H1-1a	
75	B85	Rohn 1.5x1...	.228	1.245	19	.045	0	7	5574.442	8276.625	.317	.317	1	H1-1a	
76	B86	Rohn 1.5x1...	.117	1.868	20	.010	0	7	5574.442	8276.625	.317	.317	1	H1-1b	



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

Member	Shape	Code Check	Loc[ft]	LC Shear	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn		
77	B87	Rohn 1.5x1...	.090	1.868	20	.018	0	7	5574.442	8276.625	.317	.317	1...	H1-1b	
78	MP1B	PIPE 2.0	.279	2.234	1	.134	2.234	1	22356.0...	32130	1.872	1.872	2...	H1-1b	
79	MP2B	PIPE 2.0	.315	2.99	11	.092	2.99	1	17855.0...	32130	1.872	1.872	2...	H1-1b	
80	MP3B	PIPE 2.0	.053	3.75	17	.026	2.125	3	20866.7...	32130	1.872	1.872	1...	H1-1b	
81	MP4B	PIPE 2.0	.083	4.87	23	.032	1.49	10	22356.0...	32130	1.872	1.872	1...	H1-1b	
82	MP5B	PIPE 2.0	.038	1.547	13	.011	1.547	23	22356.0...	32130	1.872	1.872	2...	H1-1b	
83	C103	PL3/8X3.5	.261	.25	17	.049	.25	y	4	40839.9...	42525	.332	3.101	1...	H1-1b
84	C104	PL3/8X3.5	.379	0	23	.080	0	y	11	40839.9...	42525	.332	3.101	1...	H1-1b
85	C105	PL3/8X3.5	.410	.25	17	.058	.25	z	22	40839.9...	42525	.332	3.101	1...	H1-1b
86	C106	PL3/8X3.5	.557	0	23	.061	0	z	16	40839.9...	42525	.332	3.101	1...	H1-1b
87	C107	PL3/8x2.75	.685	.182	11	.138	.182	y	11	32689.1...	33404.4	.262	1.914	1...	H1-1b
88	C108	PL3/8x2.75	.103	.182	20	.078	.182	y	23	32689.1...	33404.4	.262	1.914	1...	H1-1b
89	C109	PL3/8x2.75	.013	.182	17	.034	.182	y	11	32689.1...	33404.4	.262	1.914	1...	H1-1b*
90	C110	PL3/8x2.75	.019	.182	23	.018	.182	y	11	32689.1...	33404.4	.262	1.914	1...	H1-1b*
91	C111	PL3/8x2.75	.142	.182	23	.110	0	y	23	32689.1...	33404.4	.262	1.914	1...	H1-1b
92	C112	PL3/8x2.75	.114	.182	23	.094	0	y	23	32689.1...	33404.4	.262	1.914	1...	H1-1b
93	C113	PL3/8x2.75	.165	.182	11	.047	.182	y	5	32689.1...	33404.4	.262	1.914	1...	H1-1b
94	C114	PL3/8x2.75	.079	.182	19	.075	.182	y	5	32689.1...	33404.4	.262	1.914	1...	H1-1b
95	C115	PL3/8x2.75	.113	.182	19	.084	0	y	23	32689.1...	33404.4	.262	1.914	1...	H1-1b
96	C116	PL3/8x2.75	.158	.182	23	.109	.182	y	23	32689.1...	33404.4	.262	1.914	1...	H1-1b
97	C117	PL3/8x2.75	.108	.182	23	.083	.182	y	23	32689.1...	33404.4	.262	1.914	1...	H1-1b
98	C118	PL3/8x2.75	.016	0	22	.021	.182	y	11	32689.1...	33404.4	.262	1.914	1...	H1-1b*
99	C119	Rohn 1.5x1...	.147	2.854	17	.015	2.854	11	6571.991	8276.625	.317	.317	1...	H1-1b*	
100	C120	Rohn 1.5x1...	.067	2.854	17	.026	0	11	6571.991	8276.625	.317	.317	1...	H1-1b*	
101	C121	Rohn 1.5x1...	.094	2.854	23	.016	2.854	11	6571.991	8276.625	.317	.317	1...	H1-1b*	
102	C122	Rohn 1.5x1...	.210	1.576	23	.014	2.854	11	6571.991	8276.625	.317	.317	1...	H1-1a	
103	C123	PIPE 2.5	.133	11.094	5	.070	11.25	5	10110.2...	50715	3.596	3.596	1...	H1-1b	
104	C124	PIPE 2.5	.119	7.187	4	.096	3.281	9	10110.2...	50715	3.596	3.596	1...	H1-1b	
105	C125	PIPE 2.0	.225	.491	23	.087	5.343	15	21179.0...	32130	1.872	1.872	1...	H1-1b	
106	C126	PIPE 2.0	.203	5.282	11	.213	5.343	11	21179.0...	32130	1.872	1.872	2...	H1-1b	
107	C127	PIPE 2.0	.321	.43	24	.109	0	23	21179.0...	32130	1.872	1.872	2...	H1-1b	
108	C128	PIPE 2.0	.240	.43	17	.083	0	19	21179.0...	32130	1.872	1.872	2...	H1-1b	
109	C129	PL3/8X3.5	.013	.281	22	.016	0	y	11	40403.7...	42525	.332	3.101	1...	H1-1b*
110	C130	PL3/8X3.5	.014	.281	22	.016	.281	y	11	40403.7...	42525	.332	3.101	1...	H1-1b*
111	C131	PIPE 2.0	.018	2.292	22	.003	0	11	30169.2...	32130	1.872	1.872	1...	H1-1b*	
112	C132	PIPE 2.0	.509	2.029	5	.187	2.292	11	30169.2...	32130	1.872	1.872	1...	H1-1b	
113	C133	PL3/8X3.5	.191	.281	5	.036	0	y	5	40403.7...	42525	.332	3.101	1...	H1-1b
114	C134	PL3/8X3.5	.811	0	5	.108	.281	y	5	40403.7...	42525	.332	3.101	1...	H1-1b
115	C135	Rohn 1.5x1...	.291	1.829	22	.012	0	11	5574.442	8276.625	.317	.317	1...	H1-1a	
116	C136	Rohn 1.5x1...	.134	1.868	22	.011	0	10	5574.442	8276.625	.317	.317	1...	H1-1b	
117	C137	Rohn 1.5x1...	.128	1.868	21	.013	3.736	2	5574.442	8276.625	.317	.317	1...	H1-1b	
118	C138	Rohn 1.5x1...	.099	1.868	20	.029	0	11	5574.442	8276.625	.317	.317	1...	H1-1b	
119	MP1C	PIPE 2.0	.110	1.547	14	.030	1.547	11	22356.0...	32130	1.872	1.872	1...	H1-1b	
120	MP2C	PIPE 2.0	.315	2.99	3	.094	6.417	11	17855.0...	32130	1.872	1.872	2...	H1-1b	
121	MP3C	PIPE 2.0	.157	5.5	11	.052	3.75	11	20866.7...	32130	1.872	1.872	1...	H1-1b	
122	MP4C	PIPE 2.0	.150	1.547	5	.036	4.87	5	22356.0...	32130	1.872	1.872	2...	H1-1b	
123	MP5C	PIPE 2.0	.047	4.87	11	.019	1.547	5	22356.0...	32130	1.872	1.872	1...	H1-1b	
124	M154	PIPE 3.0	.074	5.677	7	.006	11.354	19	32702.5...	65205	5.749	5.749	1...	H1-1b	
125	M155	PIPE 3.0	.086	5.875	11	.006	11.75	23	31138.7...	65205	5.749	5.749	1...	H1-1b	
126	M156	PIPE 3.0	.039	4.432	20	.005	0	20	42820.5...	65205	5.749	5.749	1...	H1-1b	



FOX HILL TELECOM

Radio Frequency Emissions Analysis Report

Prepared for:



Crown Site ID: 806378_HRT 086 943248

Verizon Wireless Site Name: Somers CT

Verizon Wireless FUZE ID: 16272371

Site Address:

126 Pioneer Heights Road
Somers, CT 06071

June 27, 2024

Fox Hill Telecom Project Number: 240174

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	16.60 %



June 27, 2024

Crown Castle
1800 W. Park Drive
Westborough, MA 01581

Emissions Analysis for:

Crown Castle Site: **806378 – HRT 086 943248**

Verizon Wireless Site: Somers CT

Fox Hill Telecom, Inc (“Fox Hill”) was directed to analyze the proposed upgrades for Verizon Wireless to the Crown Castle facility located at **126 Pioneer Heights Road, Somers, CT**, for the purpose of determining whether the emissions from the Proposed Verizon Wireless Antenna Installation, in addition to all existing radio systems located on this property, are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.



General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz band & the 850 MHz cellular band are approximately $497 \mu\text{W}/\text{cm}^2$ and $586 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 3700 MHz (C band) frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report the percentage of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed upgrades to the Crown Castle facility for Verizon Wireless located at **126 Pioneer Heights Road, Somers, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65 for far field modeling calculations.

In OET-65, plane wave power densities in the far field of an antenna are calculated by considering antenna gain and reflective waves that would contribute to exposure.

Since the radiation pattern of an antenna has developed in the **far field** region the power gain in specific directions needs to be considered in exposure predictions to yield an Effective Radiated Power (ERP) in each specific direction from the antenna. Also, since the vertical radiation pattern of the antenna is considered, the exposure calculations would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels. To determine a worst-case scenario at each point along the calculation radials, each point was calculated using the antenna gain value at each angle of incident and compared against the result using an isotropic radiator at the antenna height with the greater of the two used to yield the more pessimistic far field value for each point along the calculation radial.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential 1.6 times increase in power density in calculating far field power density values.

With these factors considered, the worst case **far field prediction model** utilized in this analysis is determined by the following equation:

Equation 9 per FCC OET65 for Far Field Modeling

$$S = \frac{33.4 \text{ ERP}}{R^2}$$

S = Power Density (in $\mu\text{w}/\text{cm}^2$)

ERP = Effective Radiated Power from antenna (watts)

R = Distance from the antenna (meters)

Predicted far field power density values for all carriers identified in this report were calculated 6 feet above the ground level and are displayed as a percentage of the applicable FCC standards. All emissions values for other carriers were calculated using the same Far Field model outlined above, using industry standard radio configurations and frequency band selection based upon available licenses in this geographic area for emissions contribution estimates.



For each Verizon Wireless sector, the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
LTE	700 MHz	4	40
LTE / 5G	850 MHz	4	40
LTE	1900 MHz (PCS)	4	40
LTE	2100 MHz (AWS)	4	40
5G	3700 MHz (C Band)	2	160

Table 1: Channel Data Table



The following **Verizon Wireless** antennas listed in *Table 2 – Antenna Data* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 3700 MHz (C Band) frequency bands. This is based on feedback from Verizon Wireless regarding anticipated antenna selection. Maximum gain values for all antennas are listed in *Table 3 – Verizon Wireless Inventory and Power Data* below.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Commscope NHH-65B-R2B	159
A	2	Commscope NHH-65B-R2B	159
A	3	Samsung MT6413-77A	159
B	1	Commscope NHH-65B-R2B	159
B	2	Commscope NHH-65B-R2B	159
B	3	Samsung MT6413-77A	159
C	1	Commscope NHH-65B-R2B	159
C	2	Commscope NHH-65B-R2B	159
C	3	Samsung MT6413-77A	159

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



RESULTS

Per the calculations completed for the proposed Verizon Wireless configurations *Table 3* shows resulting emissions power levels and percentages of the FCC’s allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Commscope NHH-65B-R2B	700 MHz / 850 MHz	12.75 / 12.85	8	320	6,097.88	0.96
Antenna A2	Commscope NHH-65B-R2B	1900 MHz (PCS) / 2100 MHz (AWS)	15.75 / 16.25	8	320	12,760.54	0.50
Antenna A3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	2.12
Sector A Composite MPE%							3.58
Antenna B1	Commscope NHH-65B-R2B	700 MHz / 850 MHz	12.75 / 12.85	8	320	6,097.88	0.96
Antenna B2	Commscope NHH-65B-R2B	1900 MHz (PCS) / 2100 MHz (AWS)	15.75 / 16.25	8	320	12,760.54	0.50
Antenna B3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	2.12
Sector B Composite MPE%							3.58
Antenna C1	Commscope NHH-65B-R2B	700 MHz / 850 MHz	12.75 / 12.85	8	320	6,097.88	0.96
Antenna C2	Commscope NHH-65B-R2B	1900 MHz (PCS) / 2100 MHz (AWS)	15.75 / 16.25	8	320	12,760.54	0.50
Antenna C3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	2.12
Sector C Composite MPE%							3.58

Table 3: Verizon Wireless Inventory and Power Data table



Table 4: All Carrier MPE Contributions shows all additional identified carriers on site and their emissions contribution estimates, along with the newly calculated maximum Verizon Wireless far field emissions contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas the highest recorded sector value be used for composite site emissions values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three Verizon Wireless sectors have the same configuration yielding the same results for all three sectors. *Table 5* below shows a summary for each Verizon Wireless Sector as well as the composite estimated emissions value for the site.

Site Composite MPE%	
Carrier	MPE%
Verizon Wireless – Max Per Sector Value	3.58 %
Dish Wireless	1.76 %
AT&T	5.43 %
Sprint	1.95 %
TMO	3.88 %
Site Total MPE %:	16.60 %

Table 4: All Carrier MPE Contributions

Verizon Wireless Sector A Total:	3.58 %
Verizon Wireless Sector B Total:	3.58 %
Verizon Wireless Sector C Total:	3.58 %
Site Total:	
	16.60 %

Table 5: Site MPE Summary



Table 6 below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated Verizon sector(s). For this site, all three Verizon Wireless sectors have the same configuration yielding the same results for all three sectors.

Verizon Wireless _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
Verizon Wireless 700 MHz LTE	4	753.46	159	2.63	700 MHz	497	0.53%
Verizon Wireless 850 MHz LTE / 5G	4	771.01	159	2.52	850 MHz	586	0.43%
Verizon Wireless 1900 MHz (PCS) LTE	4	1,503.35	159	2.50	1900 MHz (PCS)	1000	0.25%
Verizon Wireless 2100 MHz (AWS) LTE	4	1,686.79	159	2.50	2100 MHz (AWS)	1000	0.25%
Verizon Wireless 3700 MHz (C Band) 5G	2	33,046.08	159	21.20	3700 MHz (C Band)	1000	2.12%
						Total:	3.58 %

Table 6: Verizon Wireless Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the Verizon Wireless facility as well as the site composite emissions estimates value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Verizon Wireless Sector	Power Density Value (%)
Sector A:	3.58 %
Sector B:	3.58 %
Sector C:	3.58 %
Verizon Wireless Maximum Total (per sector):	3.58 %
Site Total:	16.60 %
Site Compliance Status:	COMPLIANT

The estimated composite emissions value for this site, assuming all carriers present, is **16.60 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon the far field calculations performed for all carriers identified in this report.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite estimated values calculated were well within the allowable 100% threshold standard per the federal government.

Scott Heffernan
Principal RF Engineer
Fox Hill Telecom, Inc
Worcester, MA 01609
(978)660-3998



VERIZON SITE NUMBER: 5000246277
VERIZON SITE NAME: SOMERS CT
VERIZON PROJECT: 16272371
SITE TYPE: SELF SUPPORT TOWER
TOWER HEIGHT: 160'-0"

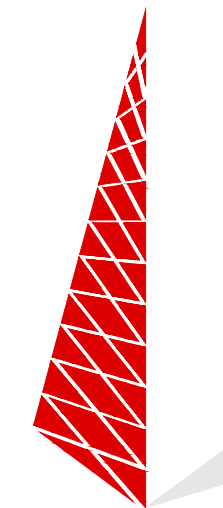
BUSINESS UNIT #: 806378
SITE ADDRESS: 126 PIONEER HEIGHTS
SOMERS, CT 06071
COUNTY: TOLLAND
JURISDICTION: TOWN OF SOMERS



20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492



1200 MACARTHUR BLVD, SUITE 200
 MAHWAH, NJ 07430



TOWER
 ENGINEERING
 PROFESSIONALS

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

TEP JOB #: 25720.944604

VERIZON SITE NUMBER:
5000246277

BU #: 806378

CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
 SOMERS, CT 06071

EXISTING 160'-0" SELF
 SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SPK
1	06/04/24	GBP	CONSTRUCTION	SBS
2	06/13/24	GBP	CONSTRUCTION	SPK

SITE INFORMATION

CROWN CASTLE USA INC.
 SITE NAME: HRT 086 943248
 BU NUMBER: 806378

TOWER OWNER: CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317

CARRIER/APPLICANT: VERIZON WIRELESS
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

SITE ADDRESS: 126 PIONEER HEIGHTS
 SOMERS, CT 06071
 COUNTY: TOLLAND

LATITUDE: 41° 56' 56.35" (41.948936°)
 LONGITUDE: -72° 29' 31.51" (-72.49203°)
 LAT/LONG TYPE: NAD83
 GROUND ELEVATION: 398'+/- AMSL

AREA OF CONSTRUCTION: EXISTING
 CURRENT ZONING: A-1
 MAP/PARCEL #: 09013129-1814

OCCUPANCY CLASSIFICATION: U
 TYPE OF CONSTRUCTION: IIB
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER: FARNHAM LENA G & FAYE F GATELY
 PMB 353 4017 WASHINGTON R
 MCMURRAY, PA 15317

JURISDICTION: TOWN OF SOMERS
 600 MAIN ST
 SOMERS, CT 06071

ELECTRIC PROVIDER: NORTHEAST UTILITIES
 (800) 286-2000

TELCO PROVIDER: UNKNOWN

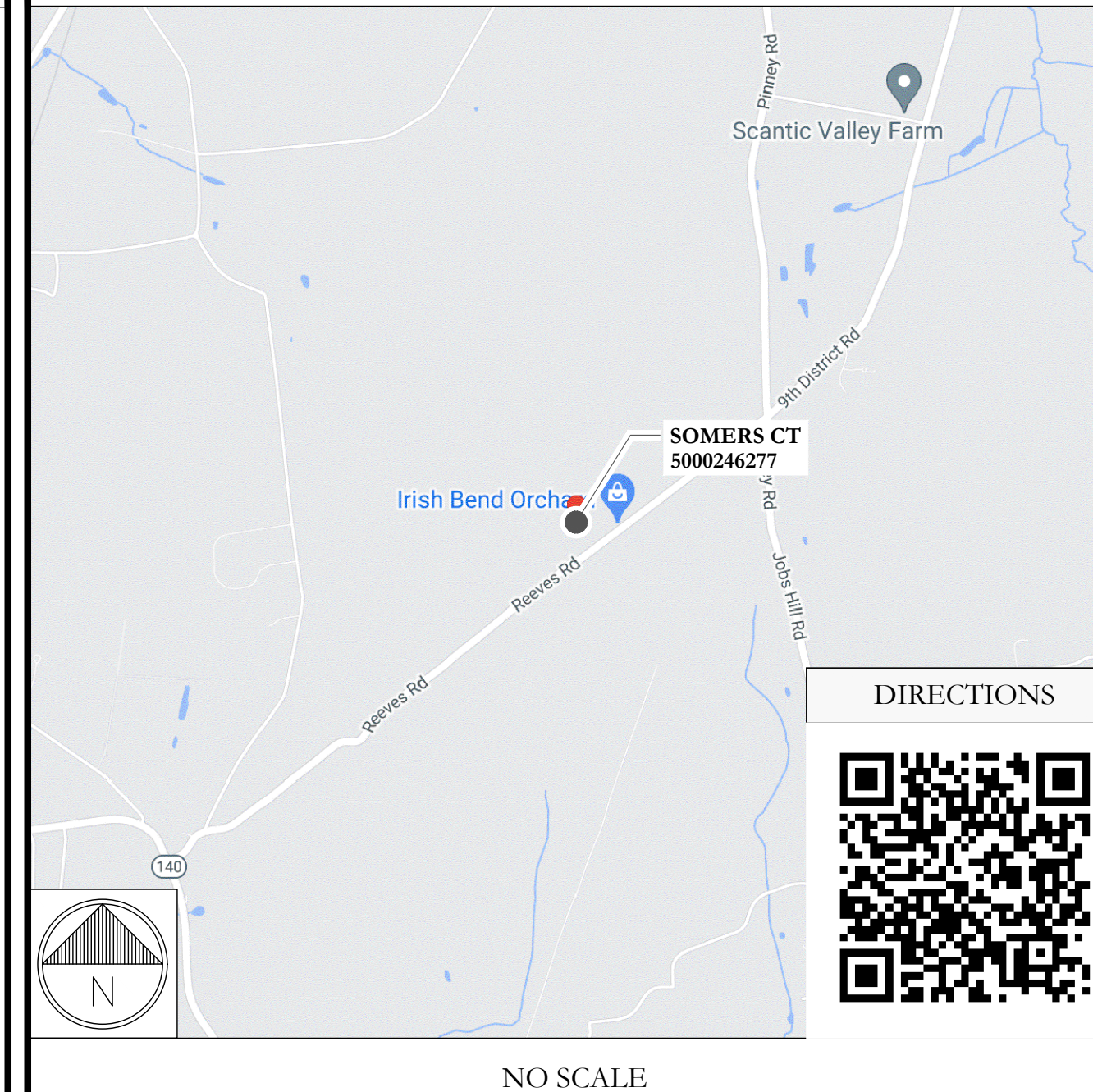
DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	COMPOUND PLAN
C-2	TOWER ELEVATIONS
C-3	ANTENNA PLANS
C-4	FINAL EQUIPMENT SCHEDULE
C-5	EQUIPMENT DETAILS & SPECIFICATIONS
C-7	COLOR CODE MATRIX
G-1	GROUNDING DETAILS
ATTACHED	MOUNT MODIFICATION (BY OTHERS)

APPROVALS

VERIZON SIGNATURE BLOCK		
APPROVAL	SIGNATURE	DATE
SITE ACQUISITION		
CONSTRUCTION		
RADIO		
MICROWAVE		
TELCO		
EQUIPMENT		
PROJECT ADMINISTRATOR		
WO ADMINISTRATOR		
CROWN CASTLE USA INC. SINGNATURE BLOCK		
APPROVAL		
SITE ACQUISITION		
PLANNER		
CONSTRUCTION		
PROJECT MANAGER		
UTILITY MANAGER		
LANDLORD		

LOCATION MAP



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 (6) ANDREW - HBXX-6517DS-A2M ANTENNA
 - REMOVE (3) COMMSCOPE - LNX-6514DS-A1M ANTENNA
 - REMOVE (2) ANTEL - LPA-80063-4CF ANTENNA
 - REMOVE (2) ANTEL - LPA-80063-4CFX5 ANTENNA
 - REMOVE (2) RFS/CELWAVE - APL866513-42T6 ANTENNA
 - REMOVE (3) NOKIA - UHIC B4 RRH 2X60-4R RADIO
 - REMOVE (1) RAYCAP - RRFDC-3315-PF-48 6-OVP BOX
 - REMOVE (6) 1-5/8" COAX
 - REMOVE (1) 6x12 HYBRIFLEX HYBRID CABLE
 - INSTALL (6) COMMSCOPE - NHH-65B-R2B ANTENNA
 - INSTALL (3) SAMSUNG - MT6413-77A ANTENNA
 - INSTALL (3) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A) RADIO
 - INSTALL (3) SAMSUNG - RF4461D-13A RADIO
 - INSTALL (1) RAYCAP - RVZDC-6627-PF-48 12-OVP BOX
 - INSTALL (1) COMMSCOPE - 12x24 HYBRIFLEX HYBRID CABLE
 - INSTALL (3) SIDE BY SIDE ANTENNA BRACKETS

- GROUND SCOPE OF WORK:
- REMOVE (3) NOKIA - UHBA B13 RRH 4X30 RADIO
 - INSTALL (1) RAYCAP - RVZDC-4520-RM-48 OVP BOX
 - INSTALL (19) QUAD - RACK ANCHLARY OTHER
 - INSTALL (1) ABB-109142980 POWER PLANT
 - INSTALL (1) ABB-109157434 POWER PLANT
 - INSTALL (8) ABB-109163473 POWER PLANT
 - INSTALL (1) ABB-1600390862A POWER PLANT
 - INSTALL (1) ABB-848817635 POWER PLANT
 - INSTALL (1) ABB-848822321 POWER PLANT
 - INSTALL (1) COMMSCOPE - RS485-CARD UPCONVERTER
 - INSTALL (6) COMMSCOPE - PS-1600-73-VZ UPCONVERTER
 - INSTALL (6) COMMSCOPE - PS-BYPASS-1-VZ UPCONVERTER
 - INSTALL (1) COMMSCOPE - PS-R-1600-VZ UPCONVERTER
 - INSTALL (1) COMMSCOPE - PULSAR-EDGE-CNTRL UPCONVERTER
 - INSTALL (4) ABB - 109142881 POWER PLANT
 - INSTALL (6) ABBINC-001 - 109142881 POWER PLANT

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	2022 CONNECTICUT SBC/2021 IBC
MECHANICAL	2022 CONNECTICUT SBC/2021 IMC
ELECTRICAL	2022 CONNECTICUT SBC/2020 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	B+T GROUP
DATED:	05/20/2024
MOUNT ANALYSIS:	COLLIERS ENGINEERING & DESIGN
DATED:	NOVEMBER 15, 2023
RFDS REVISION:	REV1
DATED:	04/09/2024
STRUCTURAL ANALYSIS ORDER ID:	669070
REVISION:	0
CONSTRUCTION DRAWING ORDER ID:	659420
REVISION:	0

INSTALLER NOTE:

NO PROPOSED LOADING TO BE ADDED UNTIL TOWER MODIFICATIONS ARE INSTALLED PER TOWER MODIFICATION DESIGN BY COLLIERS ENGINEERING & DESIGN DATED 11/15/2023.

PROJECT TEAM

A&E FIRM: TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 (91) 661-6351

SEAN B. SMITH - PROJECT MANAGER

SCOTT C. BRANTLEY - CIVIL ENGINEER

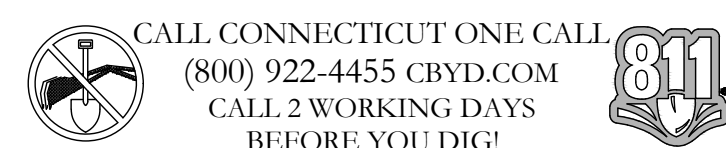
CROWN CASTLE USA INC. DISTRICT CONTACTS:
 1200 MACARTHUR BLVD, SUITE 200
 MAHWAH, NJ 07430

ALEXANDER MABBETT - PROJECT MANAGER
 ALEXANDER.MABBETT@CROWNCastle.COM

HEATHER MILLER - A&E SPECIALIST
 HEATHER.MILLER@CROWNCastle.COM

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

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. 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.



CONTRACTOR PMI REQUIREMENTS

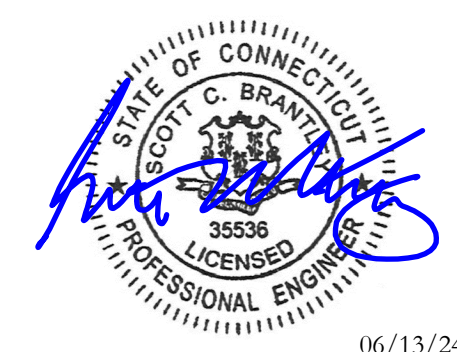
PMI ACCESSED AT	https://pmi.vzwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	10213564
VzW LOCATION CODE (PSLC)	467177
VzW MDG LOCATION CODE	5000246277
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT	

MOUNT MODIFICATION REQUIRED

Y

VzW APPROVED SMART KIT VENDORS

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



06/13/24

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:

2

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 RIGGING 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-OF-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 ANTIOXIDANT 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 (WWF) 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 THE 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. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90° ABOVE GRADE CONDUIT TO BE SCH 80 PVC OR IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.
- 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 SCREW 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 SPECIMATE 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 AVOID 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/SPPARE 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
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	POS (+)	RED**
	NEG (-)	BLACK**

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

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
RET	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

APWA UNIFORM COLOR CODE:

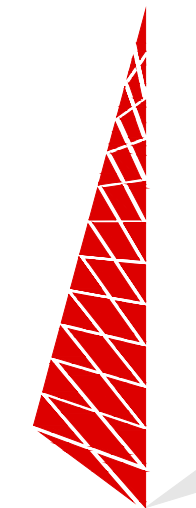
WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER,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



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



TOWER
ENGINEERING
PROFESSIONALS

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

TEP JOB #: 25720.944604

VERIZON SITE NUMBER:
5000246277

BU #: **806378**

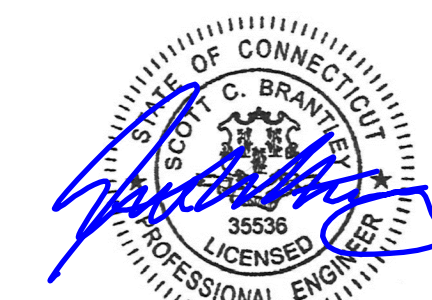
CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
SOMERS, CT 06071

EXISTING 160'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SBS
1	06/04/24	GBP	CONSTRUCTION	SBS



06/04/24

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-2

REVISION:

1

NOTE:
 SITE PLAN SHOWN BELOW WAS REPRODUCED FROM INFORMATION PROVIDED BY CROWN CASTLE. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.

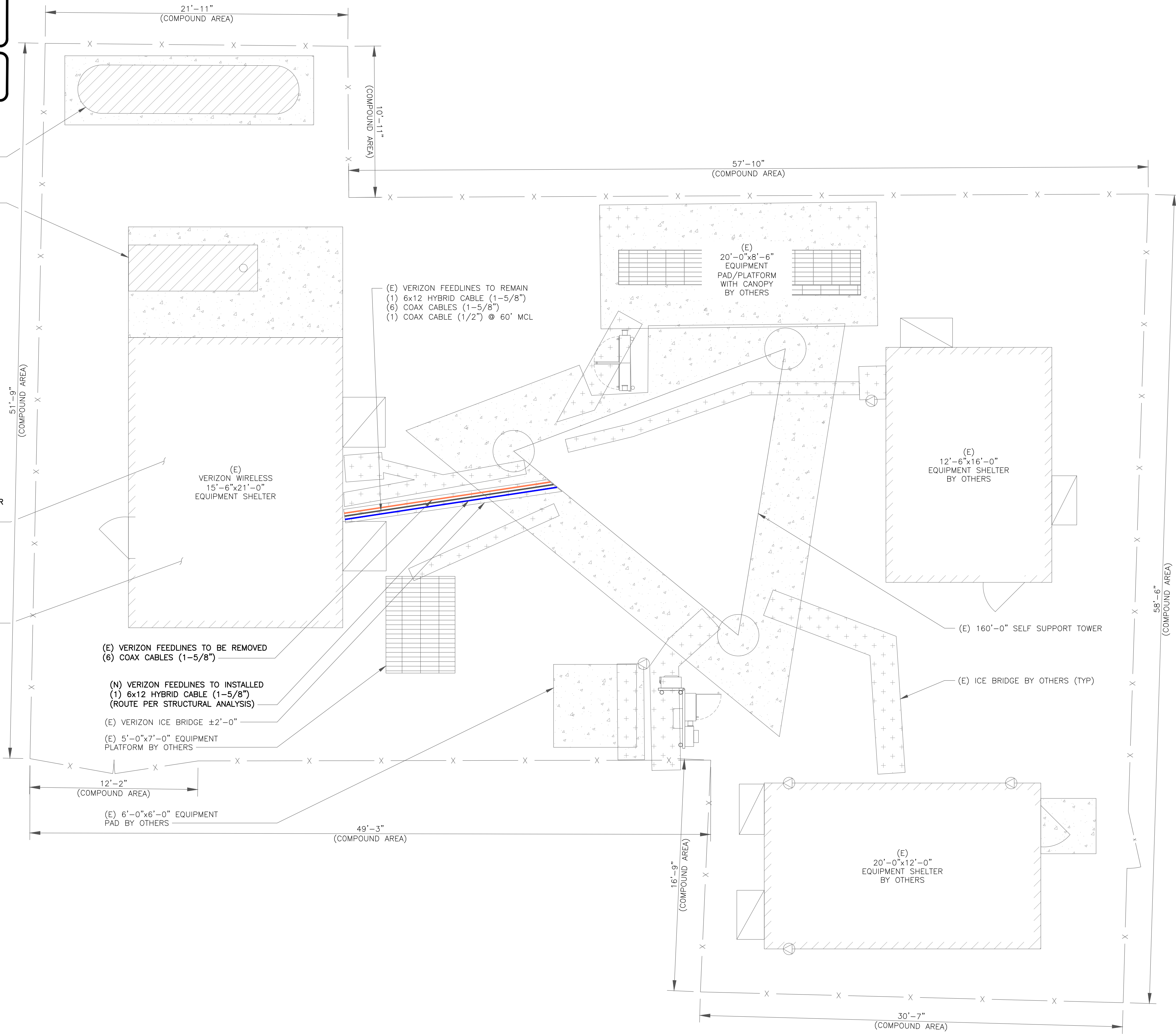
FLOODPLAIN NOTE:
 THE TOWER IS LOCATED IN ZONE "X" AREAS OF MINIMAL FLOODING ACCORDING TO FEMA COMMUNITY PANEL #0901120016D, DATED 08/16/2006.

(E) VERIZON 18'-0"x5'-0" TANK PAD AREA

(E) VERIZON 15'-6"x8'-0" GENERATOR PAD AREA

(N) VERIZON EQUIPMENT TO BE INSTALLED WITHIN EXISTING EQUIPMENT SHELTER
 (1) RAYCAP - RVZDC-4520-RM-48 OVP BOX
 (19) QUAD - RACK ANCILLARY OTHER
 (1) ABB-109142980 POWER PLANT
 (1) ABB-109157434 POWER PLANT
 (8) ABB-109163473 POWER PLANT
 (1) ABB-1600390862A POWER PLANT
 (1) ABB-848817635 POWER PLANT
 (1) ABB-848822321 POWER PLANT
 (1) COMMSCOPE - RS485-CARD UPCONVERTER
 (6) COMMSCOPE - PS-1600-73-VZ UPCONVERTER
 (6) COMMSCOPE - PS-BYPASS-1-VZ UPCONVERTER
 (1) COMMSCOPE - PS-R-1600-VZ UPCONVERTER
 (1) COMMSCOPE - PULSAR-EDGE-CNTRL UPCONVERTER
 (4) ABB - 109142881 POWER PLANT
 (6) ABBINC-001 - 109142881 POWER PLANT

(E) VERIZON EQUIPMENT TO BE REMOVED
 (3) NOKIA - UHBA B13 RRH 4X30 RADIO



TEMPLATENAME_DATEOFGENERATION

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

verizon
 20 ALEXANDER DRIVE
 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 #: 25720.944604

VERIZON SITE NUMBER:
5000246277
 BU #: **806378**
 CROWN CASTLE SITE NAME
HRT 086 943248
 126 PIONEER HEIGHTS
 SOMERS, CT 06071
 EXISTING 160'-0" SELF SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SBS
1	06/04/24	GBP	CONSTRUCTION	SBS

STATE OF CONNECTICUT
 SCOTT C. BRANNETT
 LICENSED PROFESSIONAL ENGINEER
 06/04/24

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-1**
 REVISION: **1**



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS

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

TEP JOB #: 25720.944604

VERIZON SITE NUMBER:
5000246277

BU #: **806378**

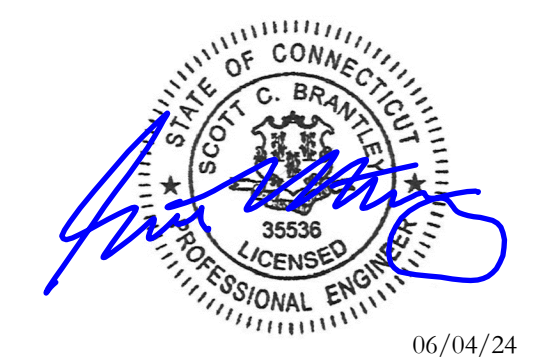
CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
SOMERS, CT 06071

EXISTING 160'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SBS
1	06/04/24	GBP	CONSTRUCTION	SBS



06/04/24

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SHEET NUMBER: **C-2**

REVISION: **1**

VERIZON EQUIPMENT
ANTENNA CL: 159'-0"
MOUNT CL: 156'-0"

FAA APPROVED HEIGHT:
NONE

TOP OF STRUCTURE WITH APPURTENANCE
ELEV. = 162'-0"

TOP OF TOWER
ELEV. = 160'-0"

VERIZON ANTENNA CENTERLINE
ELEV. = 159'-0"

VERIZON MOUNT CENTERLINE
ELEV. = 156'-0"

(N) VERIZON EQUIPMENT TO INSTALLED
(6) COMMSCOPE - NHH-65B-R2B ANTENNA
(3) SAMSUNG - SAMSUNG - SFG-ARM1A01VZ RRH/ANTENNA
(3) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A) RADIO
(3) SAMSUNG - SFG-ARR57201VZ RADIO
(3) COMMSCOPE - BSAMNT-SBS-1-2 MOUNT
(1) RAYCAP - RVZDC-6627-PF-48 12-OVP BOX

(E) VERIZON MOUNTS TO BE MODIFIED PER SPECIFICATION OF PASSING MA BY COLLIER ENGINEERING & DESIGN DATED, NOVEMBER 15, 2023.

INSTALLER NOTE:
EXISTING AND PROPOSED ANTENNA /EQUIPMENT POSITIONING SHOWN PER MOUNT ANALYSIS. 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 MOUNT 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.

INSTALLER NOTE:
NO PROPOSED LOADING TO BE ADDED UNTIL TOWER MODIFICATIONS ARE INSTALLED PER TOWER MODIFICATION DESIGN BY COLLIER ENGINEERING & DESIGN DATED 11/15/2023.

TOP OF STRUCTURE WITH APPURTENANCE
ELEV. = 162'-10"

TOP OF TOWER
ELEV. = 160'-0"

VERIZON ANTENNA CENTERLINE
ELEV. = 159'-0"

VERIZON MOUNT CENTERLINE
ELEV. = 156'-0"

(E) VERIZON EQUIPMENT TO REMOVED
(6) ANDREW - HBXX-6517DS-A2M ANTENNA
(3) COMMSCOPE - LNX-6514DS-A1M ANTENNA
(2) ANTEL - LPA-80063-4CF ANTENNAS
(2) ANTEL - LPA-80063-4CFX5 ANTENNAS
(3) RFS/CELWAVE - APL866513-42T6 ANTENNAS
(3) NOKIA - UHIC B4 RRH 2x60-4R RADIO
(1) RAYCAP - RRFDC-3315-PF-48 6-OVP BOX

EXISTING EQUIPMENT BY OTHERS
MCL = 150'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 145'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 139'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 135'-0"

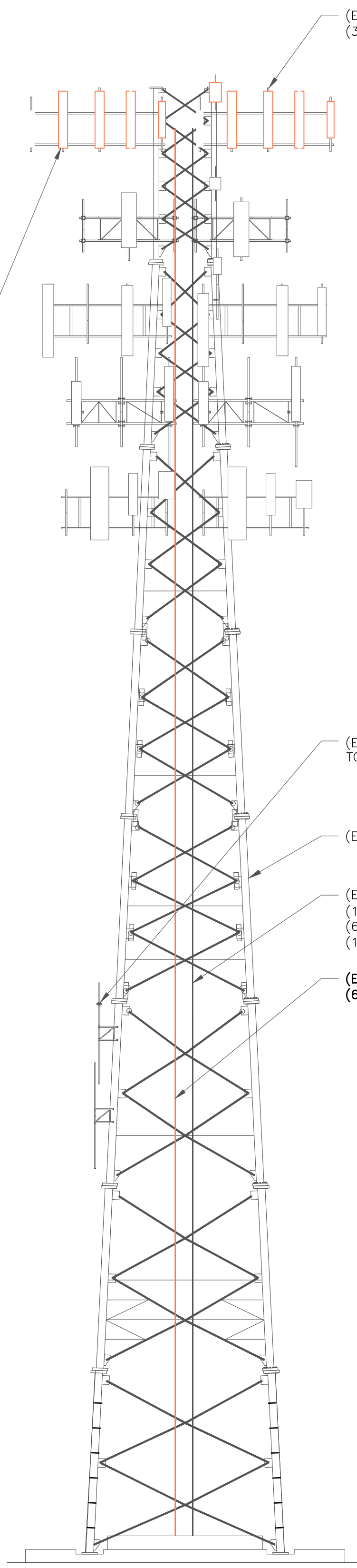
EXISTING EQUIPMENT BY OTHERS
MCL = 125'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 114'-0"

VERIZON ANTENNA CENTERLINE
ELEV. = 60'-0"

VERIZON MOUNT CENTERLINE
ELEV. = 57'-0"

BOTTOM OF TOWER
ELEV. = 0"



1 EXISTING TOWER ELEVATION
SCALE: 1"=10'-0" (FULL SIZE)
1"=20'-0" (11x17)

VERIZON ANTENNA CENTERLINE
ELEV. = 60'-0"

VERIZON MOUNT CENTERLINE
ELEV. = 57'-0"

BOTTOM OF TOWER
ELEV. = 0"

TOP OF STRUCTURE WITH APPURTENANCE
ELEV. = 162'-0"

TOP OF TOWER
ELEV. = 160'-0"

VERIZON ANTENNA CENTERLINE
ELEV. = 159'-0"

VERIZON MOUNT CENTERLINE
ELEV. = 156'-0"

(E) VERIZON GPS ANTENNA TO REMAIN

(E) 160'-0" SELF SUPPORT TOWER

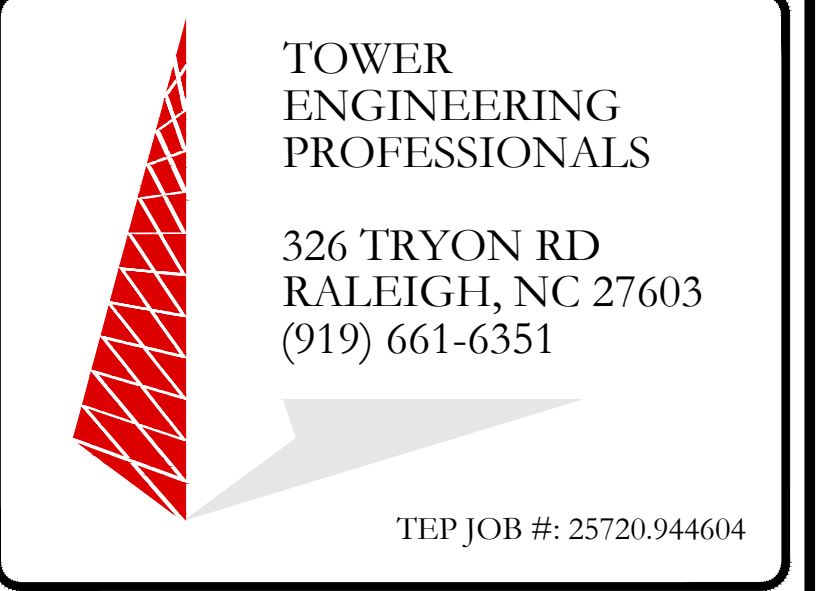
(E) VERIZON FEEDLINES TO REMAIN
(1) 6x12 HYBRID CABLE (1-5/8")
(6) COAX CABLES (1-5/8") (UNUSED)
(1) COAX CABLE (1/2") @ 60' MCL

(E) VERIZON FEEDLINES TO BE REMOVED
(6) COAX CABLES (1-5/8")

(N) VERIZON FEEDLINES TO INSTALLED
(1) 6x12 HYBRID CABLE (1-5/8")
(ROUTE PER STRUCTURAL ANALYSIS)

2 FINAL TOWER ELEVATION
SCALE: 1"=10'-0" (FULL SIZE)
1"=20'-0" (11x17)

TEMPLATENAME_DATEOFGENERATION



VERIZON SITE NUMBER:
5000246277

BU #: **806378**

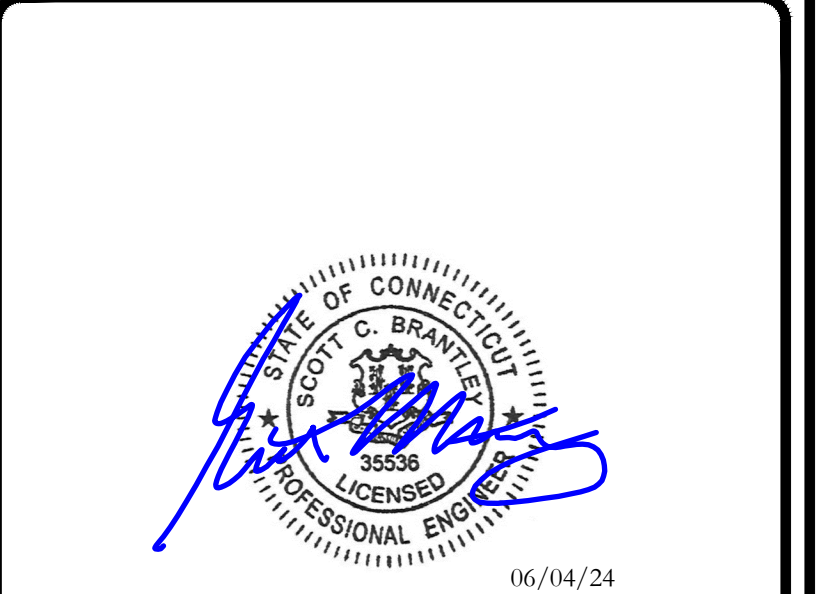
CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
SOMERS, CT 06071

EXISTING 160'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SBS
1	06/04/24	GBP	CONSTRUCTION	SBS



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SHEET NUMBER: **C-3** REVISION: **1**

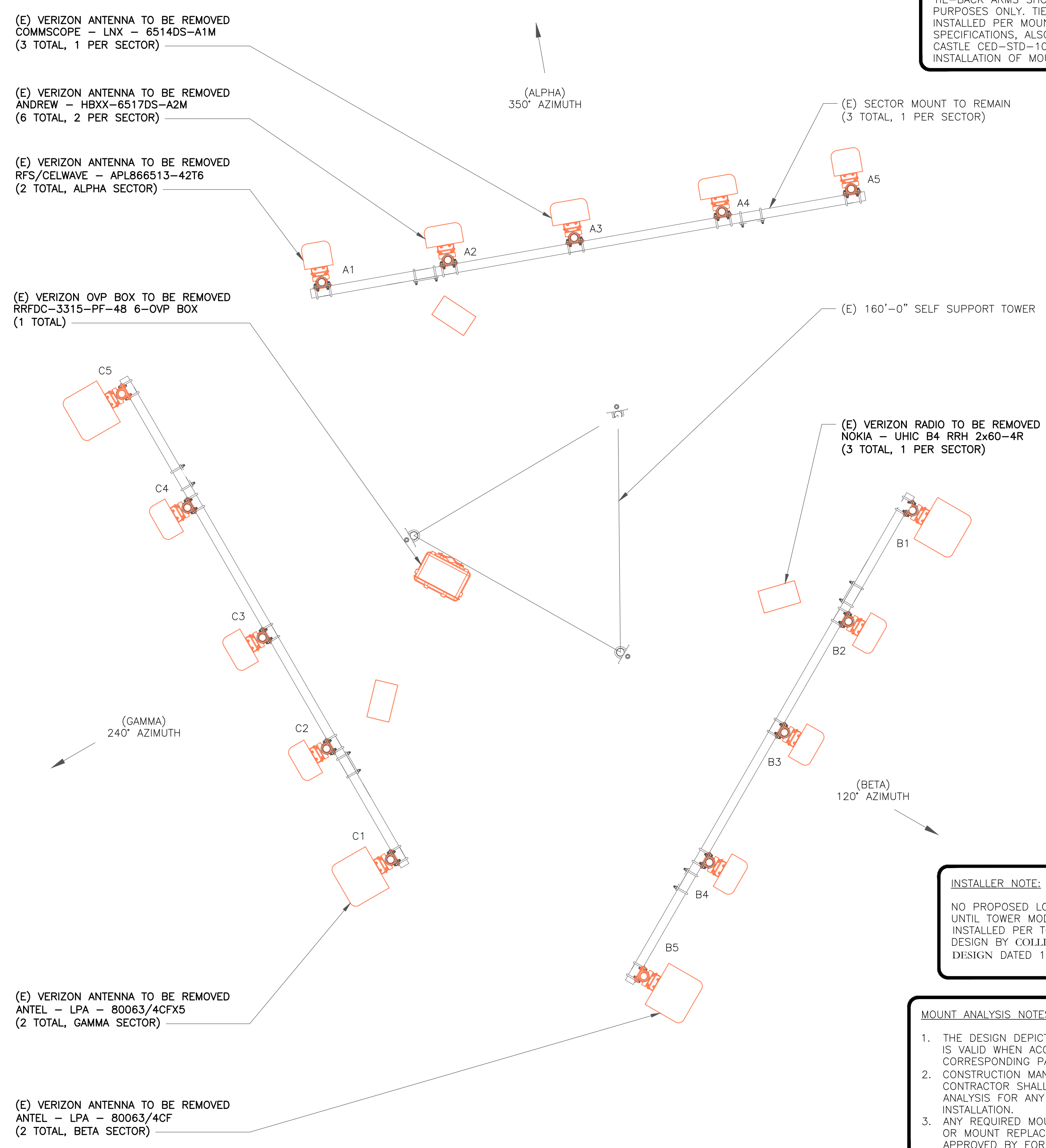
INSTALLER NOTE:
EXISTING AND PROPOSED ANTENNA AND EQUIPMENT POSITIONING SHOWN PER MOUNT ANALYSIS. FIELD CONDITIONS MAY VARY.

TIE-BACK ARM NOTE:
TIE-BACK ARMS SHOWN ARE FOR REFERENCE PURPOSES ONLY. TIE-BACK ARMS TO BE INSTALLED PER MOUNT MANUFACTURERS SPECIFICATIONS, ALSO ADHERING TO CROWN CASTLE CED-STD-10294 STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES.

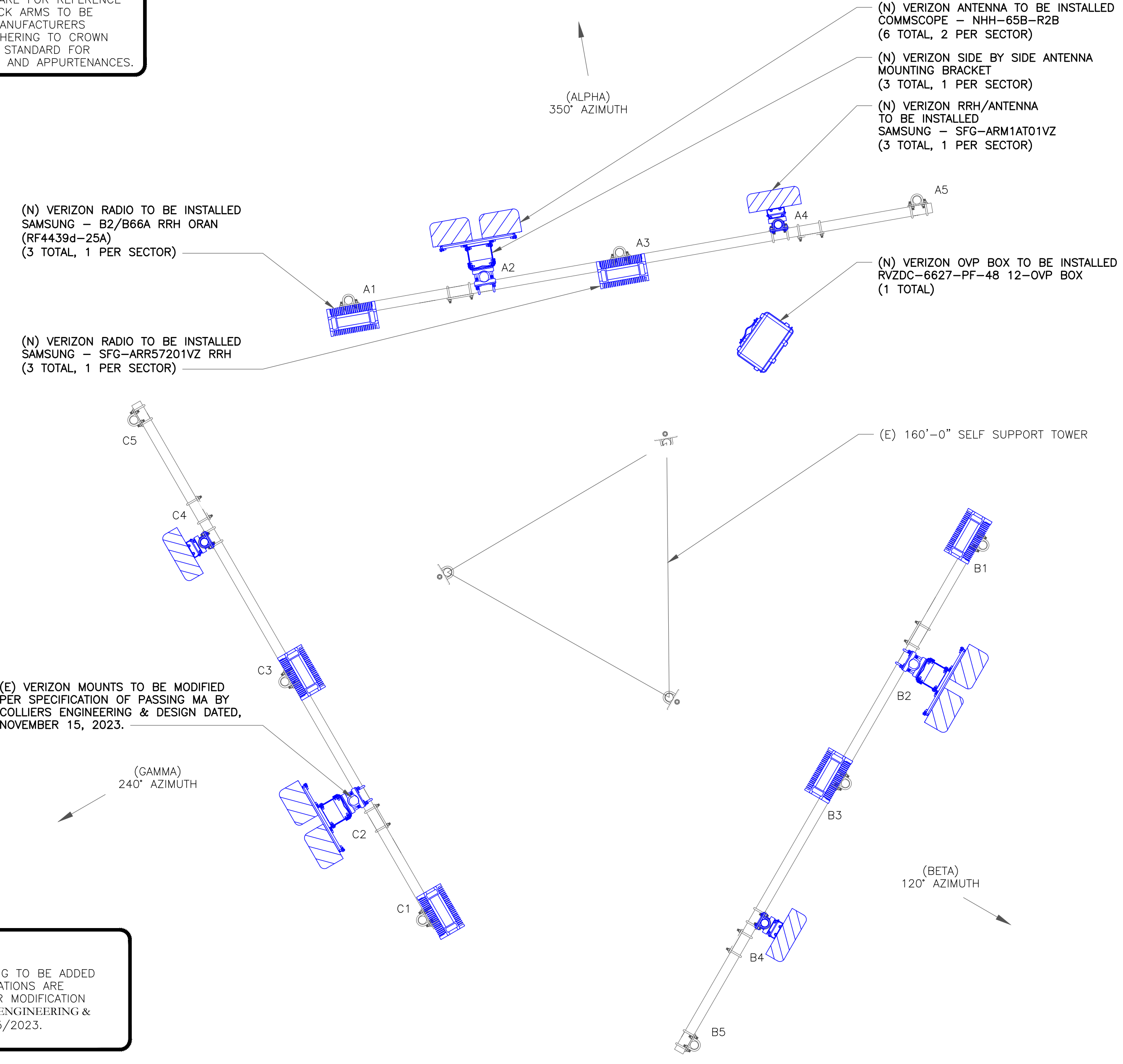
INSTALLER NOTE:
NO PROPOSED LOADING TO BE ADDED UNTIL TOWER MODIFICATIONS ARE INSTALLED PER TOWER MODIFICATION DESIGN BY COLLIERS ENGINEERING & DESIGN DATED 11/15/2023.

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.



1 EXISTING ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



2 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

TEMPLATE NAME DATE OF GENERATION

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	-	-	-	-	1	(N) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A)	TOWER	-	-	-	-	-	1	(N) RAYCAP - RVZDC-6627-PF-48	1	(E) HYBRID CABLE	1-5/8"	209'
A2	700 850 AWS	(N) COMMSCOPE - NHH-65B-R2B	350°	159'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700 850 1900	(N) COMMSCOPE - NHH-65B-R2B	350°	159'-0"														
A3	-	-	-	-	1	(N) SAMSUNG - SFG-ARR57201VZ RADIO	TOWER	-	-	-	-	-	-	-	-	-	-	-
A4	L-SUB6	(N) SAMSUNG - SFG-ARM1A01VZ	350°	159'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B1	-	-	-	-	1	(N) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A)	TOWER	-	-	-	-	-	-	-	1	(N) HYBRID CABLE	1-5/8"	209'
B2	700 850 AWS	(N) COMMSCOPE - NHH-65B-R2B	120°	159'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700 850 1900	(N) COMMSCOPE - NHH-65B-R2B	120°	159'-0"														
B3	-	-	-	-	1	(N) SAMSUNG - SFG-ARR57201VZ RADIO	TOWER	-	-	-	-	-	-	-	-	-	-	-
B4	L-SUB6	(N) SAMSUNG - SFG-ARM1A01VZ	120°	159'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C1	-	-	-	-	1	(N) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A)	TOWER	-	-	-	-	-	-	-	-	-	-	-
C2	700 850 AWS	(N) COMMSCOPE - NHH-65B-R2B	240°	159'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700 850 1900	(N) COMMSCOPE - NHH-65B-R2B	240°	159'-0"														
C3	-	-	-	-	1	(N) SAMSUNG - SFG-ARR57201VZ RADIO	TOWER	-	-	-	-	-	-	-	-	-	-	-
C4	L-SUB6	(N) SAMSUNG - SFG-ARM1A01VZ	240°	159'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNUSED FEEDLINES

6	(E) COAX	1-5/8"	208'
-	-	-	-

1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN CASTLE

1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
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RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25720.944604

VERIZON SITE NUMBER:
5000246277

BU #: **806378**

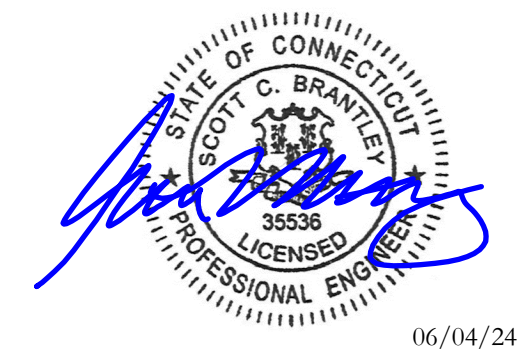
CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
SOMERS, CT 06071

EXISTING 160'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SBS
1	06/04/24	GBP	CONSTRUCTION	SBS



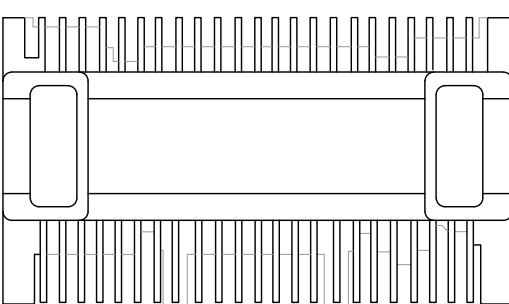
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SHEET NUMBER:

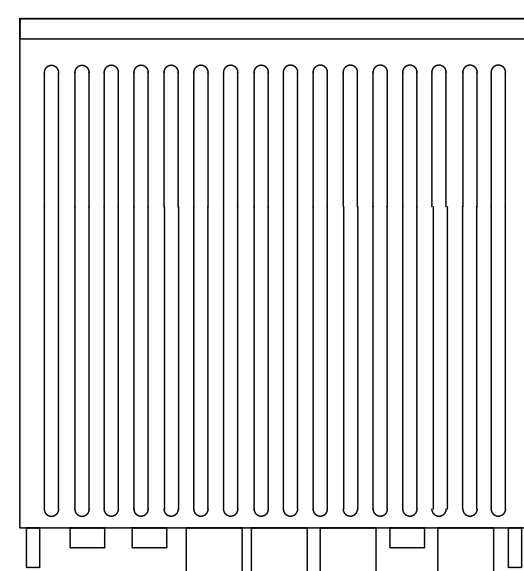
C-4

REVISION:

1



PLAN

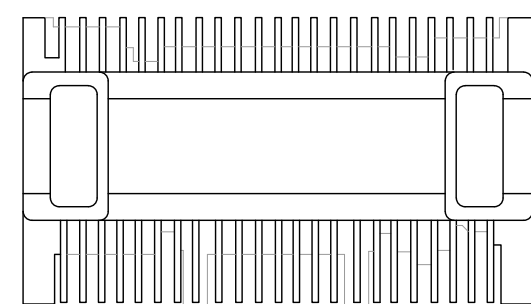


FRONT

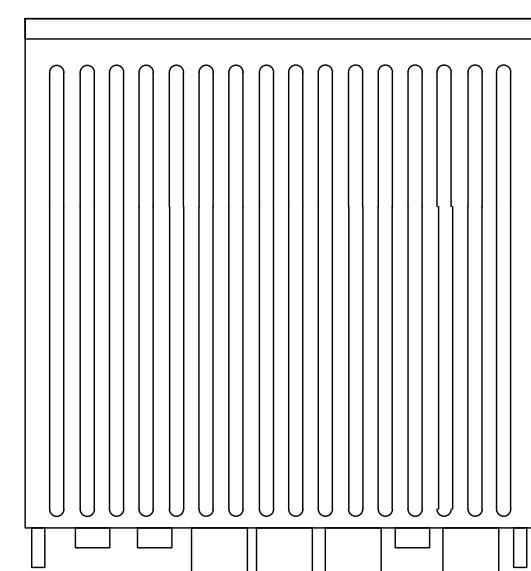
SAMSUNG - RF4439D-25A
WEIGHT: 74.7 LBS
SIZE (HxWxD): 14.96x14.96x10.04 IN.

NOTE:
1. MOUNTING OF RRU TO PIPE MAST SHALL BE PER MANUFACTURER DIRECTION.

1 SAMSUNG - RF4439D-25A
SCALE: NOT TO SCALE



PLAN



FRONT

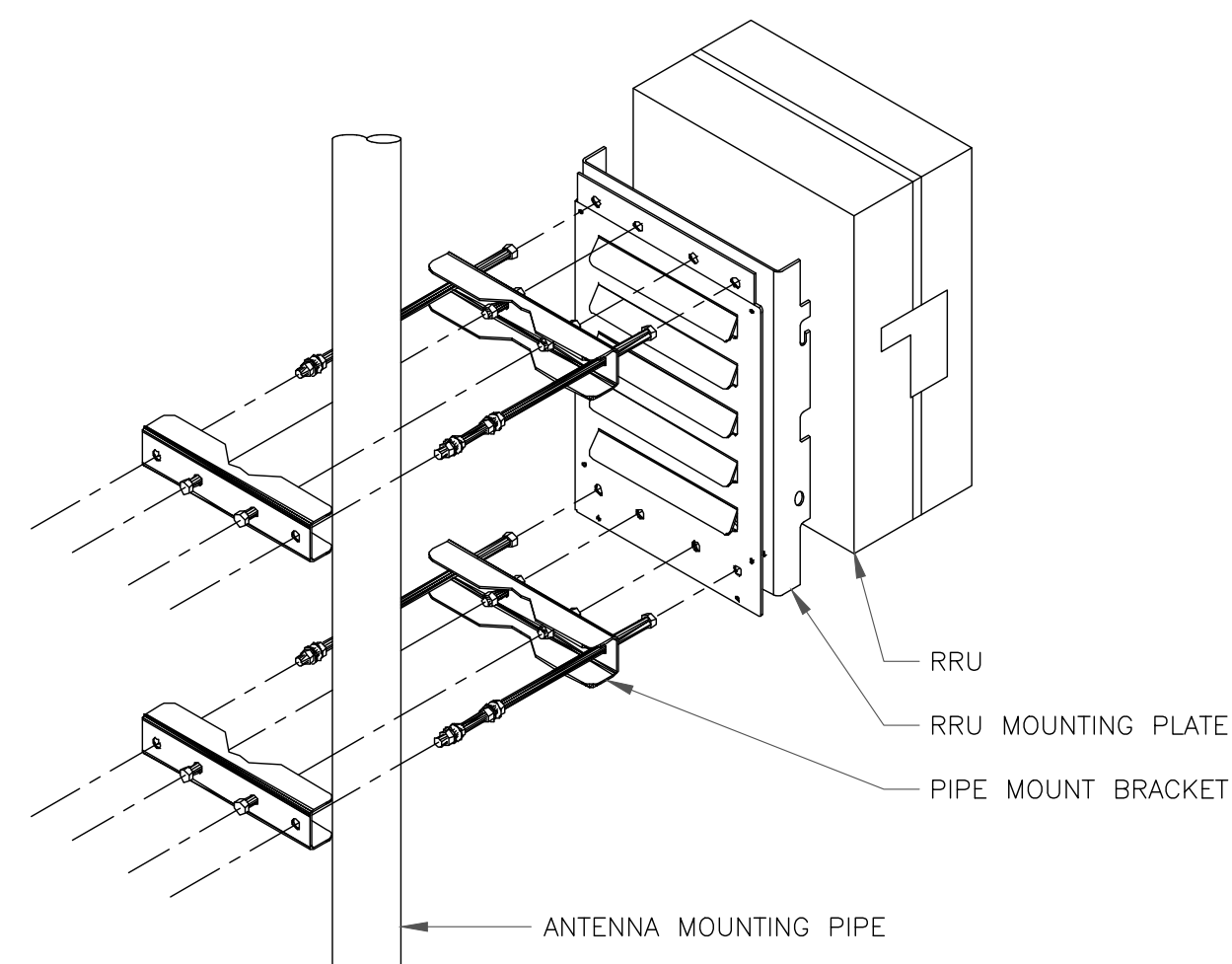
SAMSUNG - RF4461D-13A
WEIGHT: 79.10 LBS
SIZE (HxWxD): 14.96x14.96x10.23 IN.

NOTE:
1. MOUNTING OF RRU TO PIPE MAST SHALL BE PER MANUFACTURER DIRECTION.

2 SAMSUNG - SFG-ARR57201VZ
SCALE: NOT TO SCALE

INSTALLER NOTES:

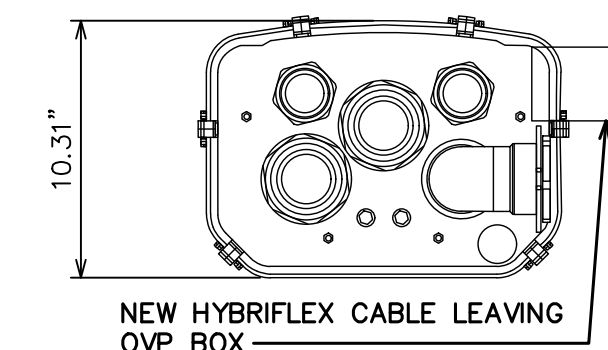
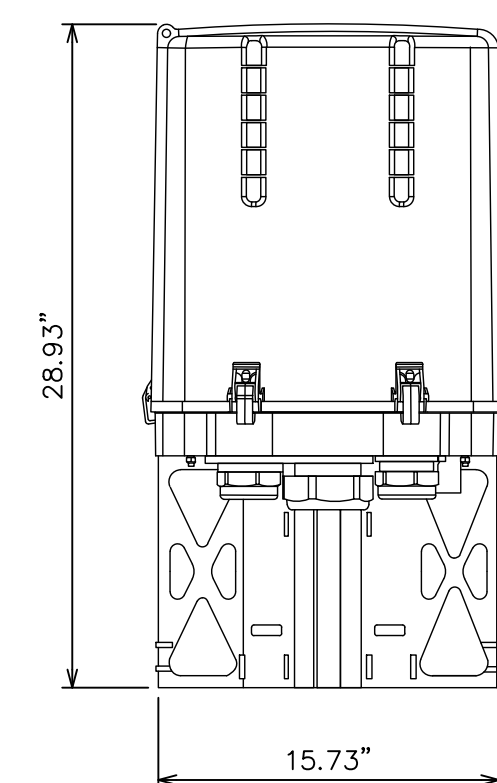
1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRUS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRU PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
4. ANTENNA NOT SHOWN FOR CLARITY



3 RRU MOUNTING DETAIL
SCALE: NOT TO SCALE

FRONT

TOP



RAYCAP - RVZDC-6627-PF-48
WEIGHT: 32.00 LBS
SIZE (HxWxD): 28.93x15.73x10.31 IN.

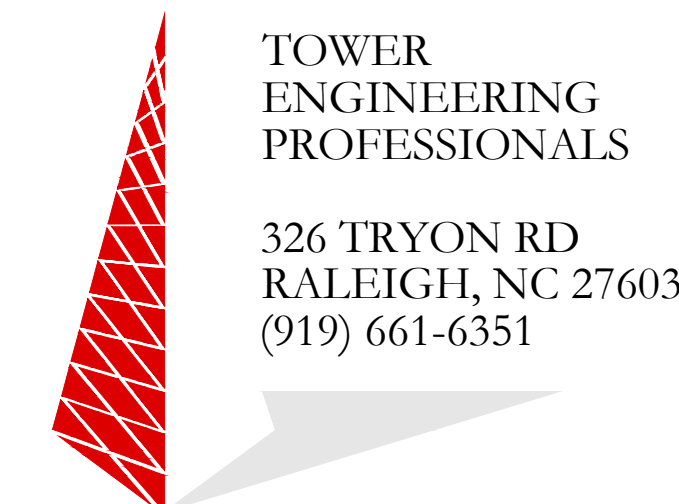
4 RAYCAP - RVZDC-6627-PF-48
SCALE: NOT TO SCALE



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



TOWER
ENGINEERING
PROFESSIONALS

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

TEP JOB #: 25720.944604

VERIZON SITE NUMBER:
5000246277

BU #: 806378

CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
SOMERS, CT 06071

EXISTING 160'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SPK
1	06/04/24	GBP	CONSTRUCTION	SBS
2	06/13/24	GBP	CONSTRUCTION	SPK



06/13/24

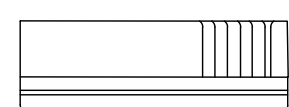
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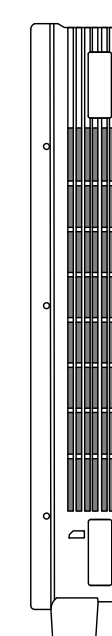
C-5

REVISION:

2



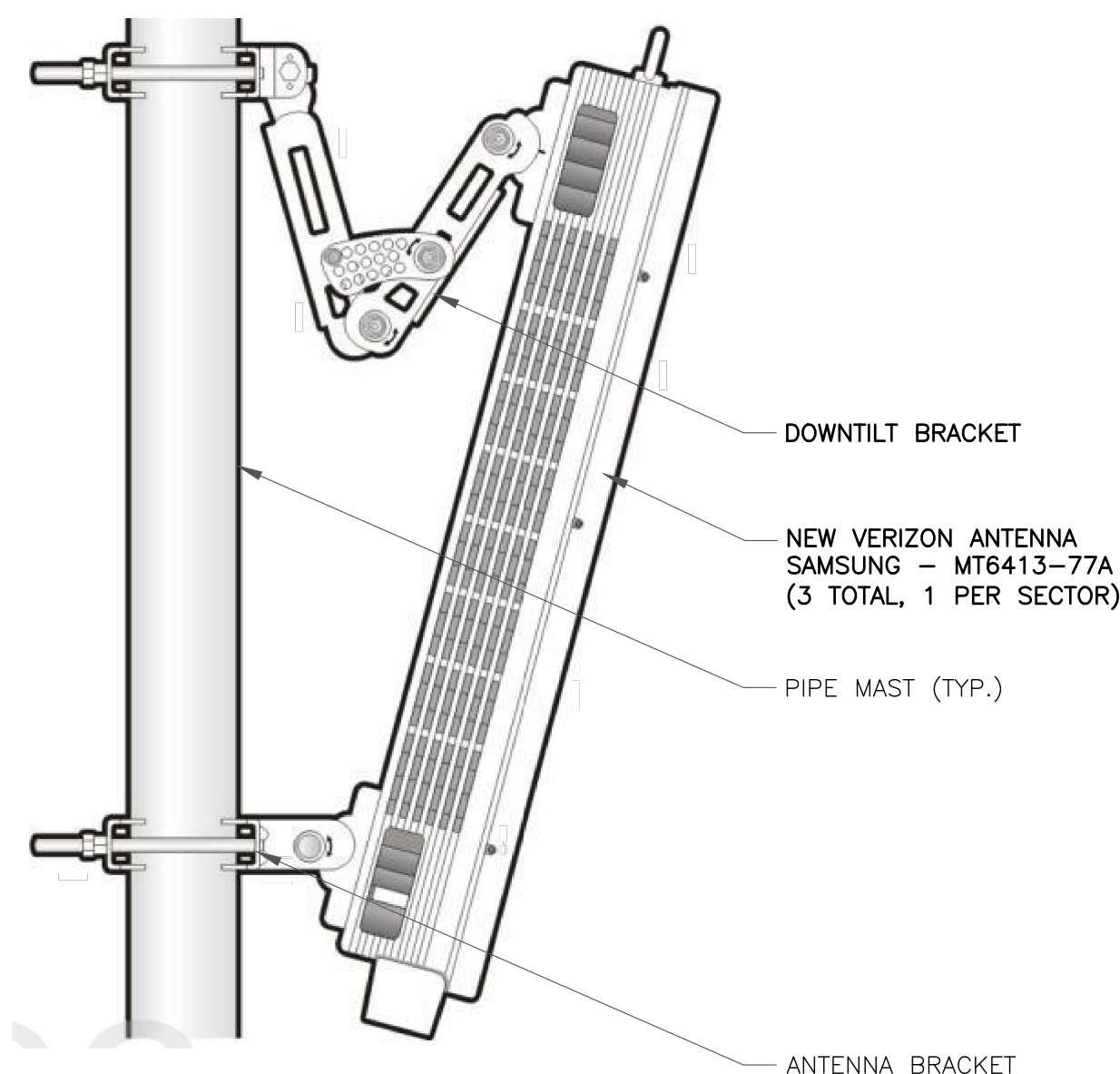
FRONT



SIDE

SAMSUNG TELECOMMUNICATIONS - SFG-ARM1A01VZ RRU/ANTENNA
WEIGHT: 57.30 LBS
SIZE (HxWxD): 28.90x15.75x5.51 IN.

5 SAMSUNG - SFG-ARM1A01VZ RRU/ANTENNA
SCALE: NOT TO SCALE

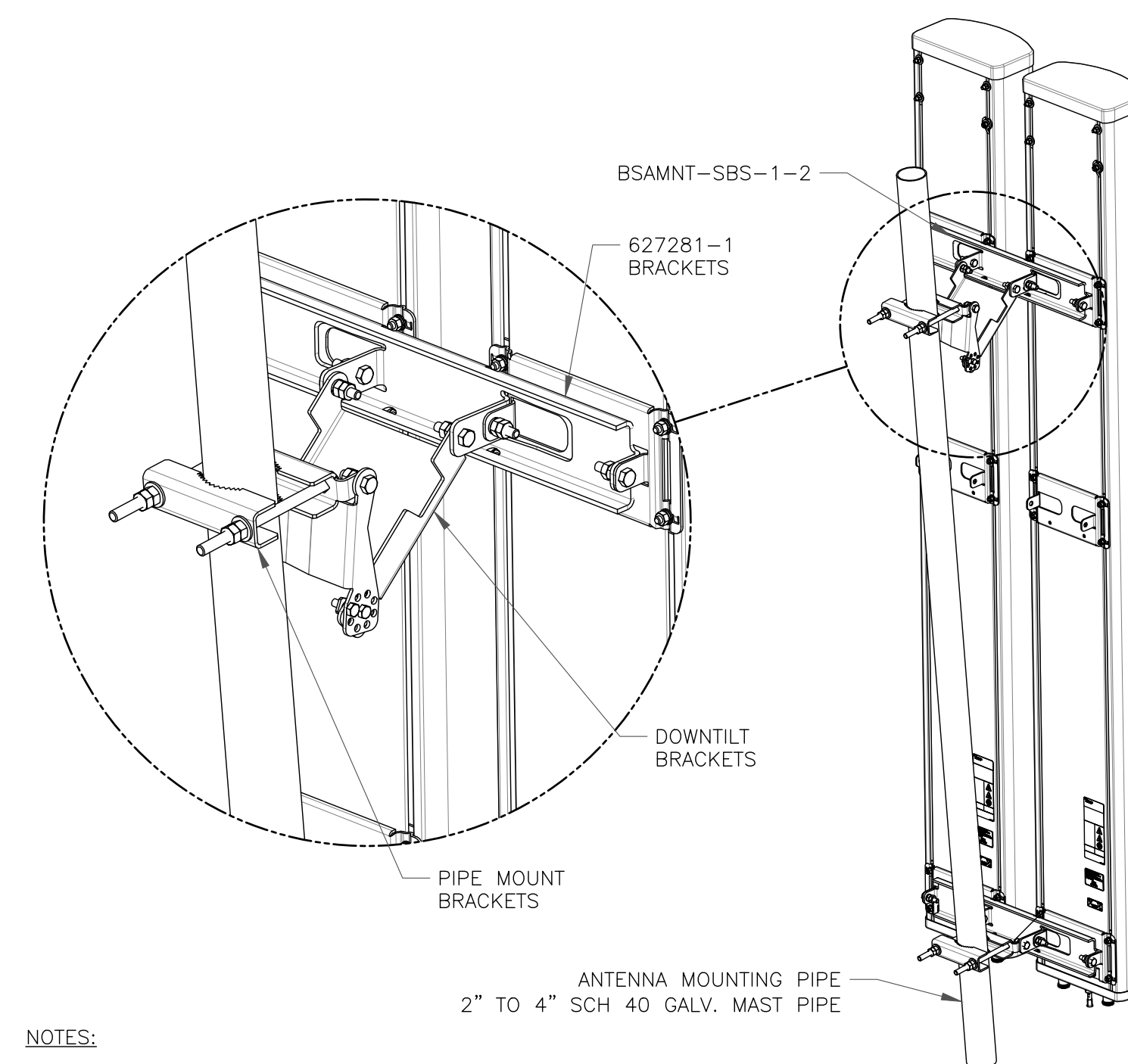
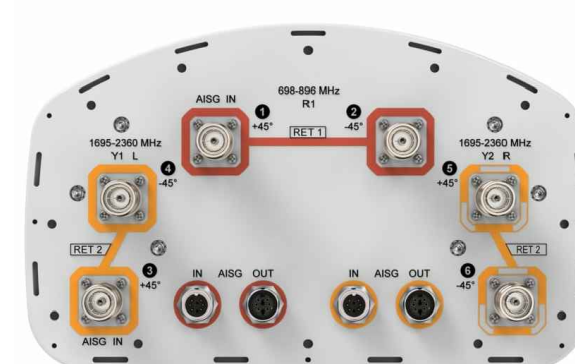


6 SAMSUNG ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



COMMSCOPE - NNH-65B-R2B ANTENNA
WEIGHT: 43.65 LBS
SIZE (HxWxD): 71.97x11.85x7.08 IN.

7 COMMSCOPE - NNH-65B-R2B
SCALE: NOT TO SCALE



NOTES:

- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

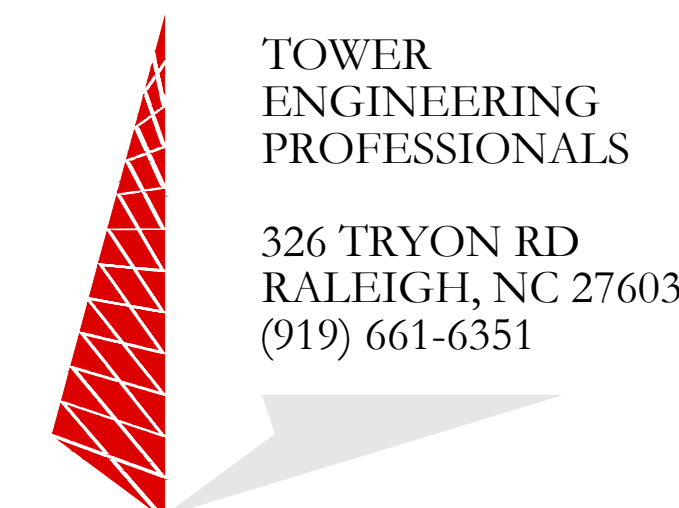
8 COMMSCOPE - BSAMNT-SBS-1-2
SCALE: NOT TO SCALE



20 ALEXANDER DRIVE
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06/04/24

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SHEET NUMBER:

C-6

REVISION:

1

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 28GHz	Brown	Red	Brown		
5G 39GHz	Blue	Red	Blue		
LAA	Gray	Red	Gray		
CBRS	White	Red	White		
L-Sub6 (C-Band)	Red	Red	Red		

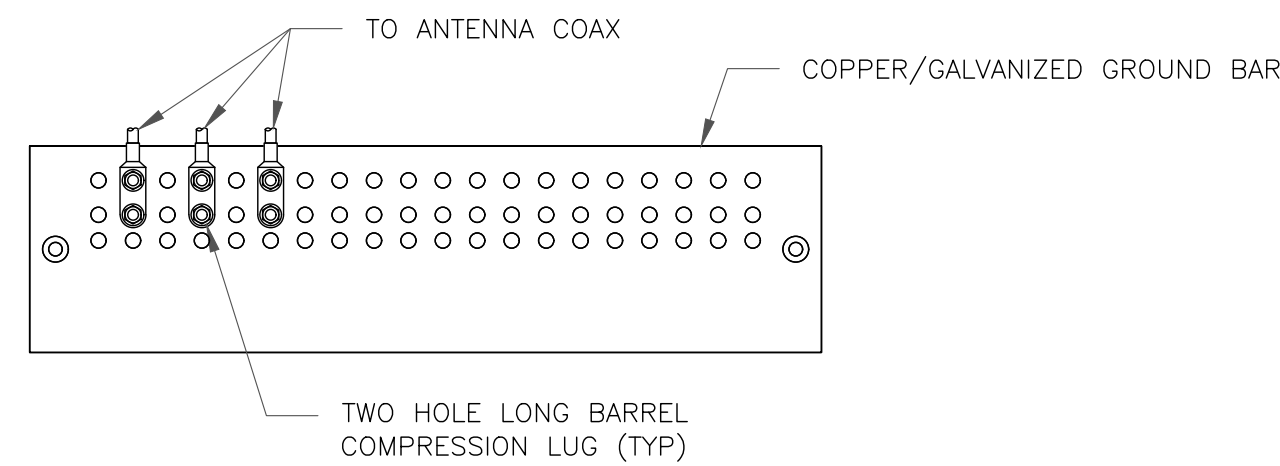
Azimuth (2) Beta					
Cell (850 CDMA)	Blue				
PCS2 (1900 LTE)	Pink	Blue	Pink		
700 LTE	Lt. Green	Blue	Lt. Green		
850 LTE	Purple	Blue	Purple		
2100 LTE	Orange	Blue	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple
5G 28GHz	Brown	Blue	Brown		
5G 39GHz	Blue	Blue	Blue		
LAA	Gray	Blue	Gray		
CBRS	White	Blue	White		
L-Sub6 (C-Band)	Red	Blue	Red		

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 28GHz	Brown	Yellow	Brown		
5G 39GHz	Blue	Yellow	Blue		
LAA	Gray	Yellow	Gray		
CBRS	White	Yellow	White		
L-Sub6 (C-Band)	Red	Yellow	Red		

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 28GHz	Brown	Orange	Brown		
5G 39GHz	Blue	Orange	Blue		
LAA	Gray	Orange	Gray		
CBRS	White	Orange	White		
L-Sub6 (C-Band)	Red	Orange	Red		

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 28GHz	Brown	White	Brown		
5G 39GHz	Blue	White	Blue		
LAA	Gray	White	Gray		
CBRS	White	White	White		
L-Sub6 (C-Band)	Red	White	Red		

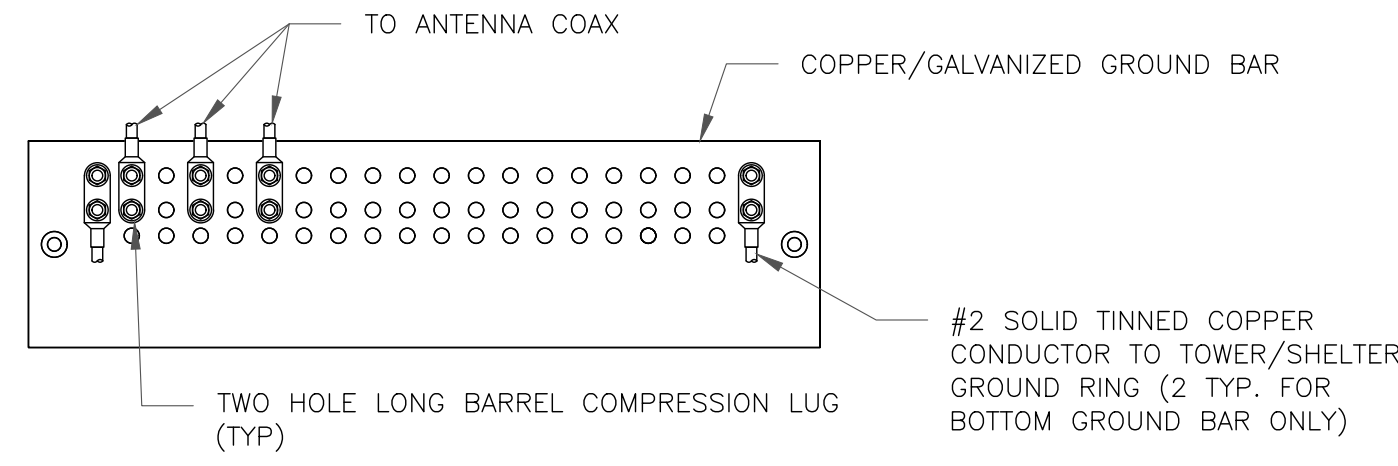
Azimuth (6) Zeta					
Cell (850 CDMA)	Gray				
PCS2 (1900 LTE)	Pink	Gray	Pink		
700 LTE	Lt. Green	Gray	Lt. Green		
850 LTE	Purple	Gray	Purple		
2100 LTE	Orange	Gray	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple
5G 28GHz	Brown	Gray	Brown		
5G 39GHz	Blue	Gray	Blue		
LAA	Gray	Gray	Gray		
CBRS	White	Gray	White		
L-Sub6 (C-Band)	Red	Gray	Red		



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

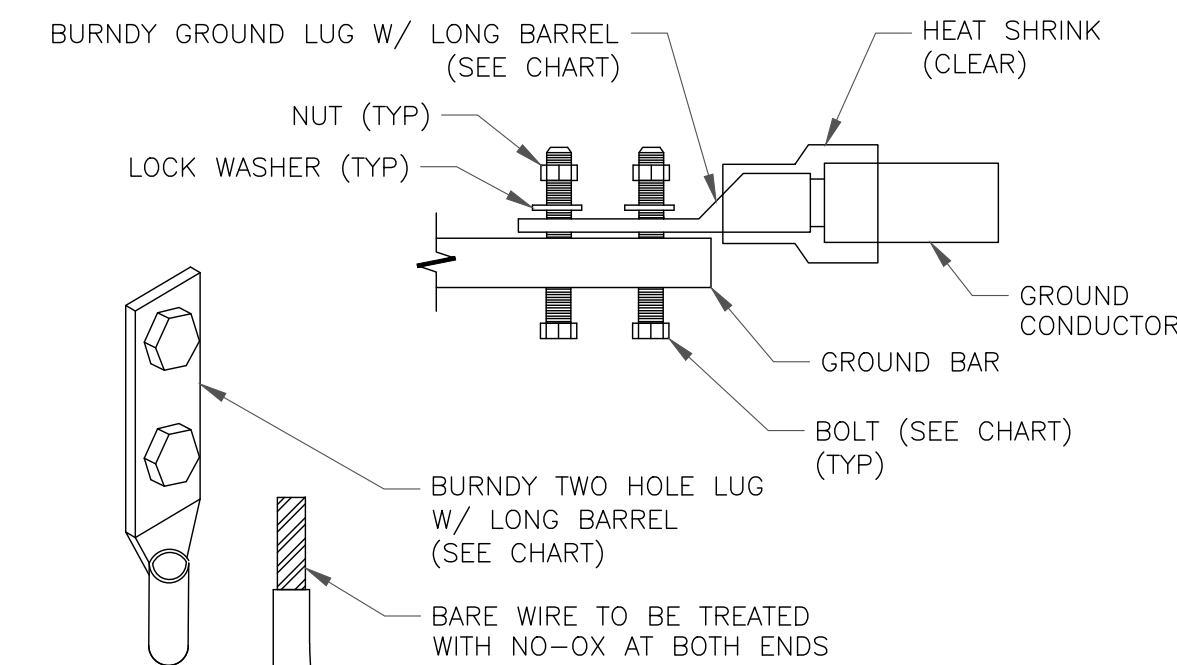


NOTES:

- 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

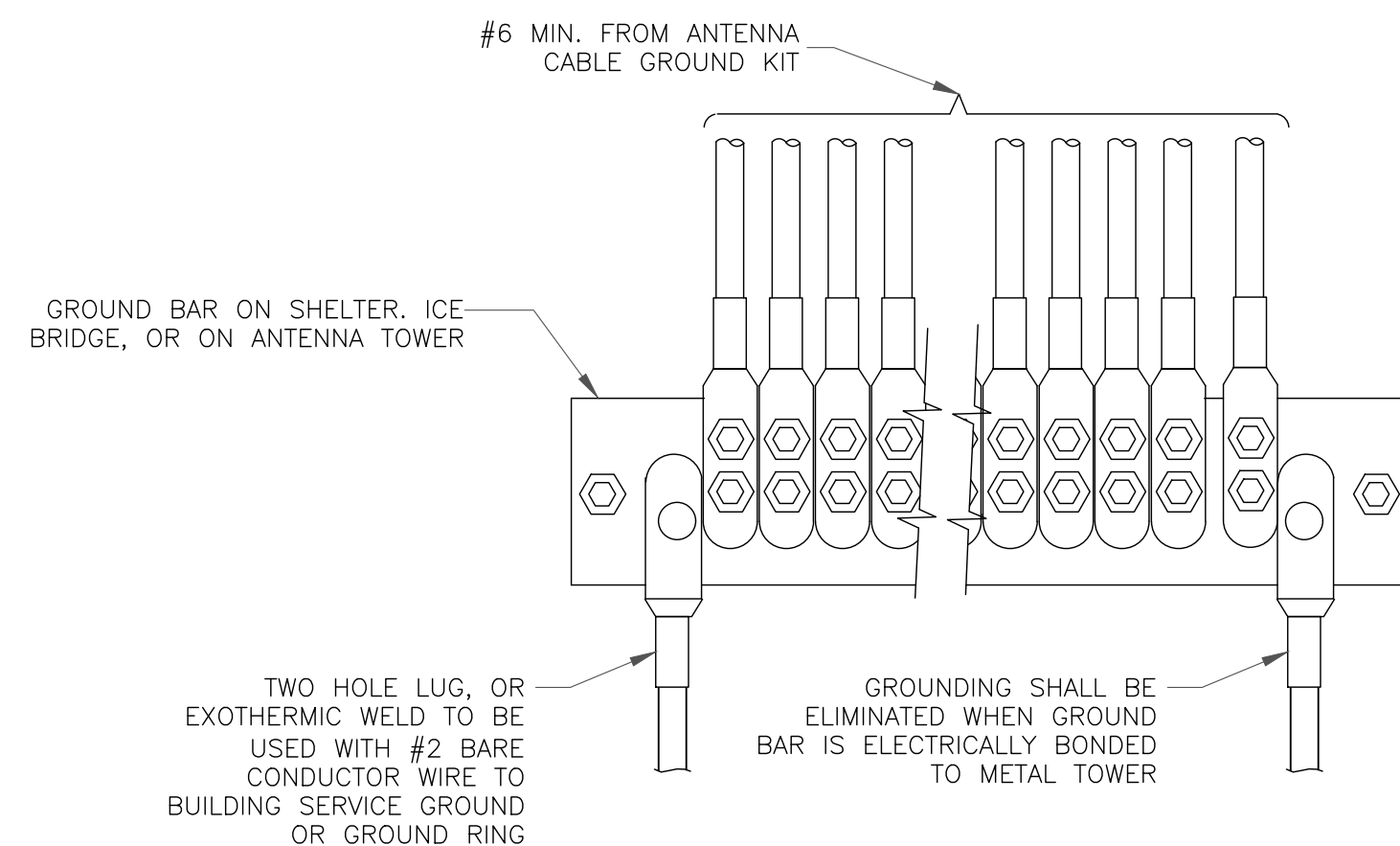
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



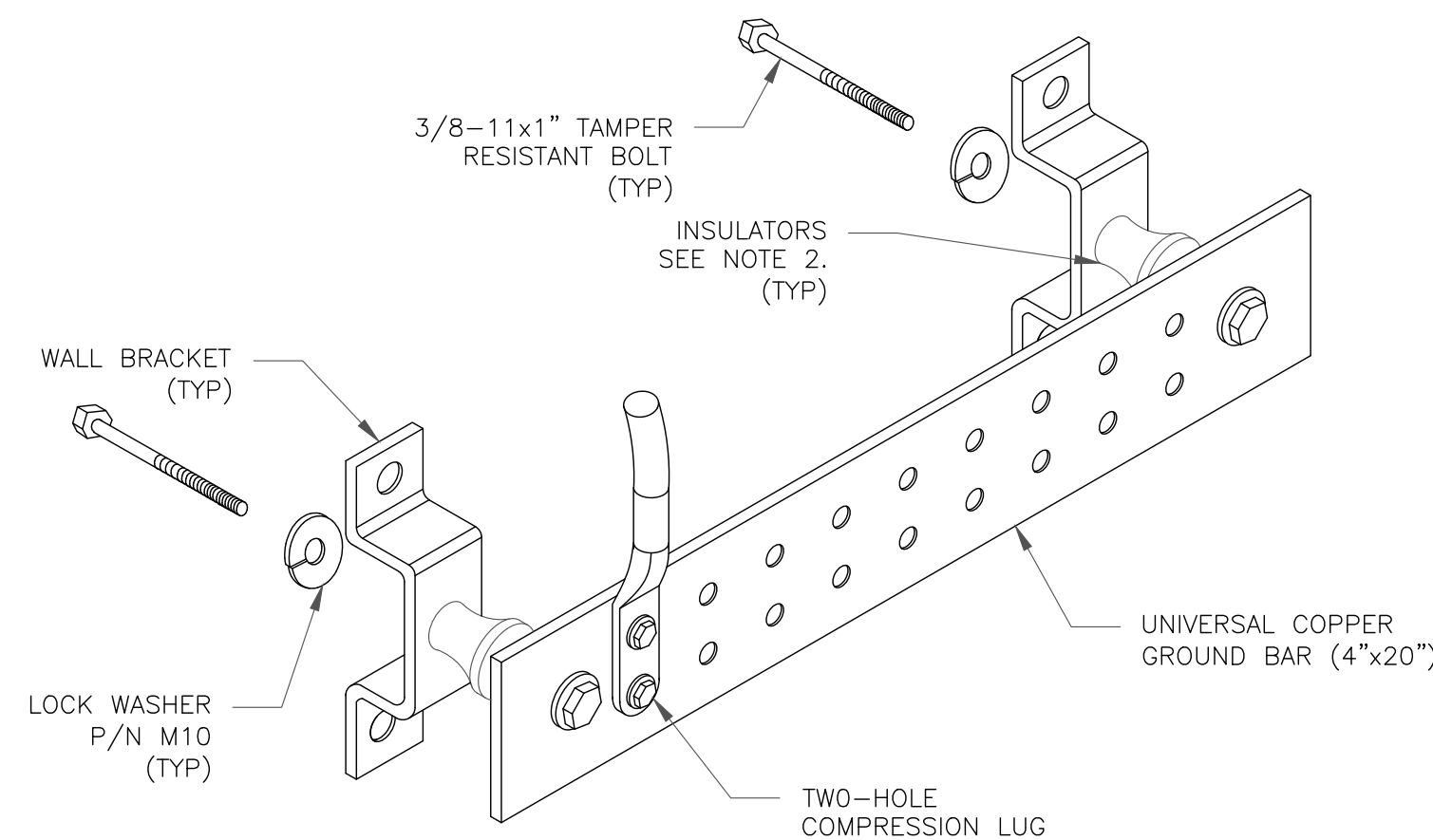
NOTE:

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.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



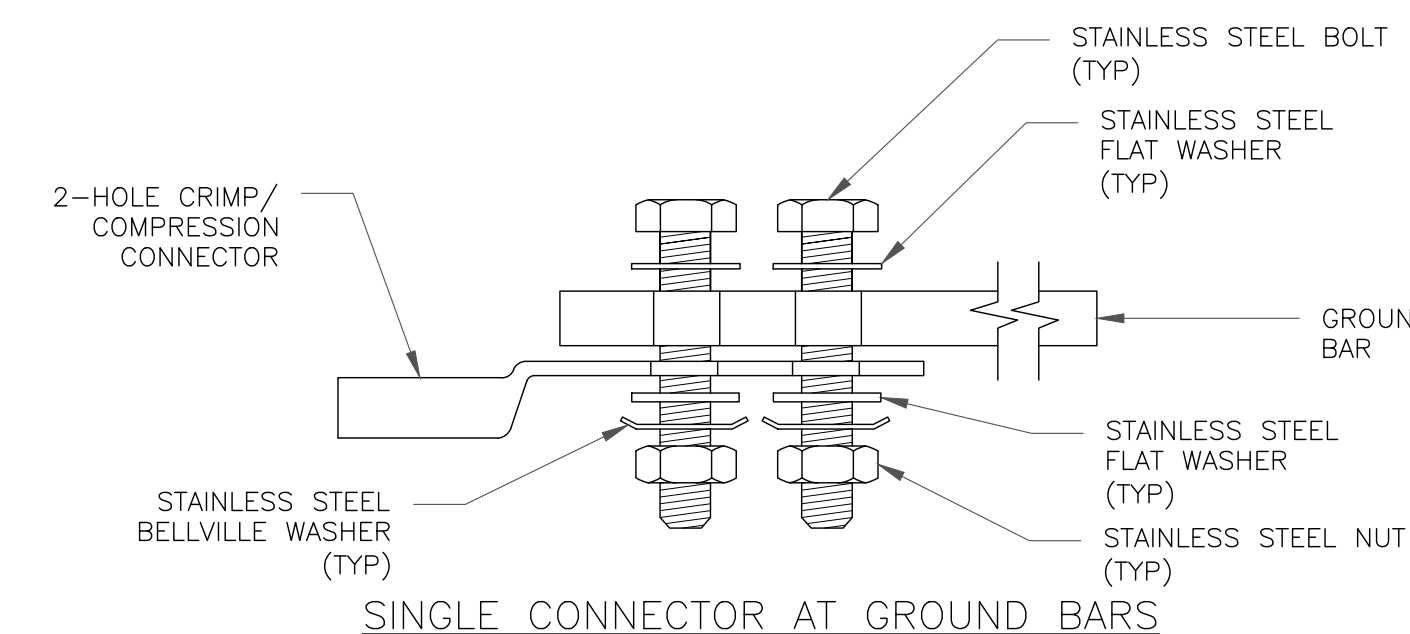
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



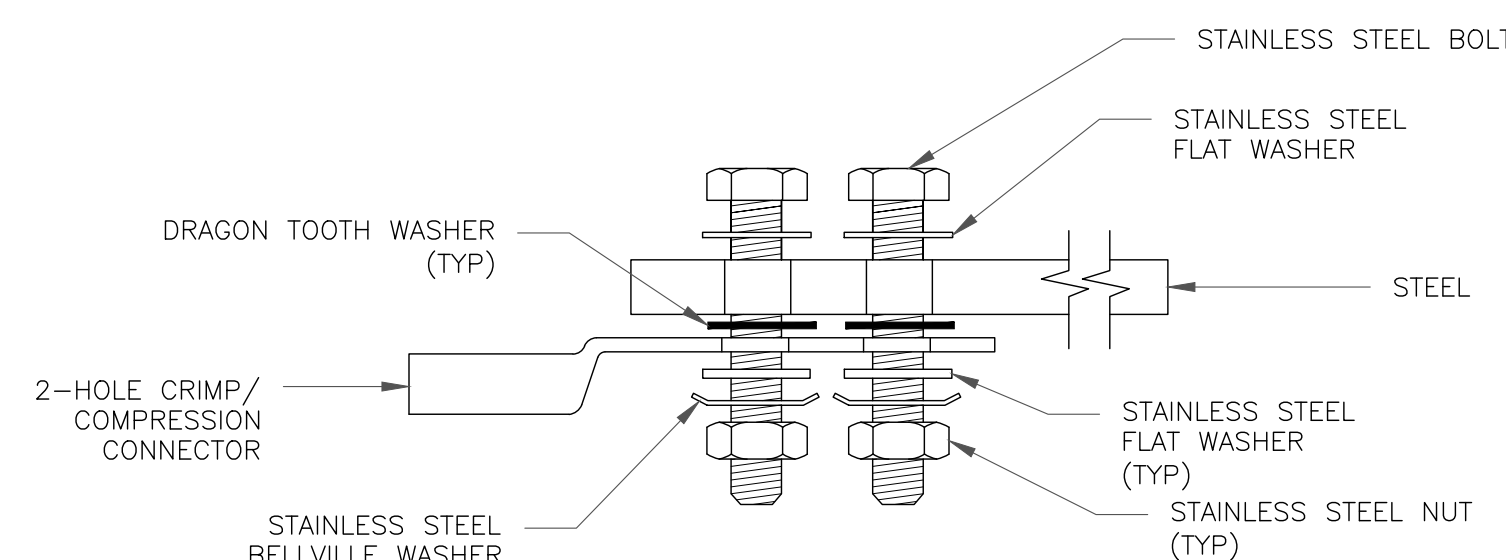
NOTES:

- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-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.
- OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

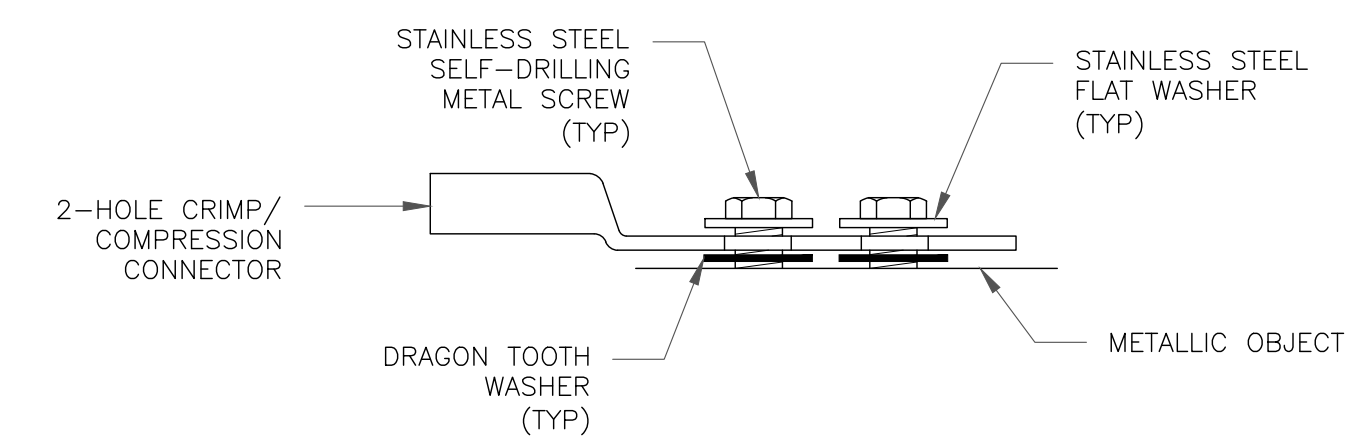
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

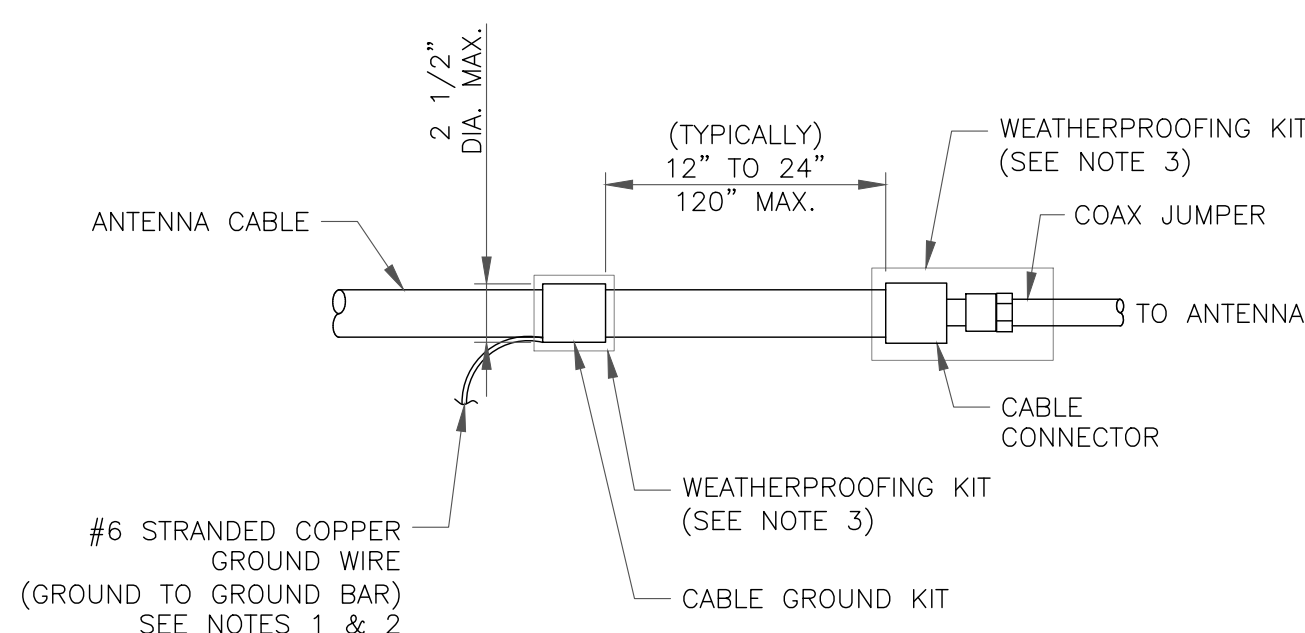


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

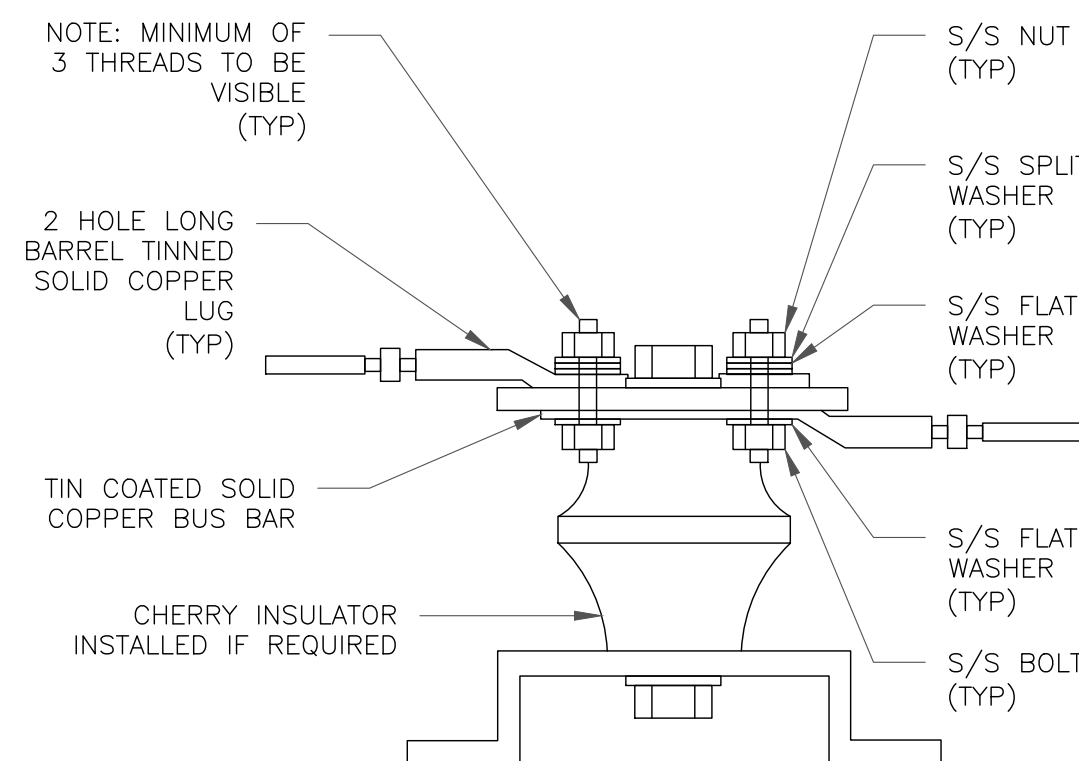
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

verizon

20 ALEXANDER DRIVE
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 #: 25720.944604

VERIZON SITE NUMBER:
5000246277

BU #: 806378

CROWN CASTLE SITE NAME
HRT 086 943248

126 PIONEER HEIGHTS
SOMERS, CT 06071

EXISTING 160'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	04/08/24	GBP	CONSTRUCTION	SBS
1	06/04/24	GBP	CONSTRUCTION	SBS



06/04/24

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SHEET NUMBER:

G-1

REVISION:

1



Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C
 1055 Washington Boulevard
 Stamford, CT 06901
 203.324.0800
 peter.albano@collierseng.com

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
157.50	159.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		1	Raycap	RVZDC-6627-PF-48	

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:

- All engineering services are performed on the basis that the information provided to Colliers Engineering & Design 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 Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
- 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.
- For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- 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.
- 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.
- All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10213564
 Colliers Engineering & Design Project #: 21777130 (Rev 1)

November 15, 2023

Site Information

Site ID: 5000246277-VZW / SOMERS CT
 Site Name: SOMERS CT
 Carrier Name: Verizon Wireless
 Address: 126 Pioneer Heights Rd
 Somers, Connecticut 06071
 Tolland County
 Latitude: 41.948986°
 Longitude: -72.492030°

Structure Information

Tower Type: 161-Ft Self Support
 Mount Type: 15.00-Ft Sector Frame

FUZE ID # 16272371

Analysis Results

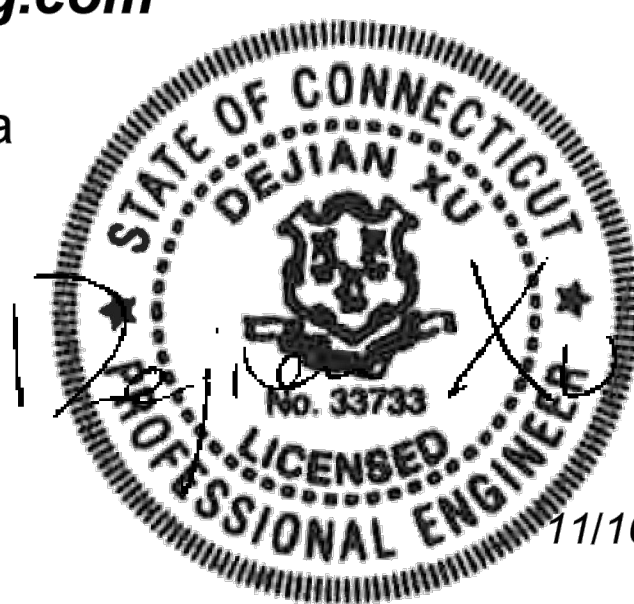
Sector Frame: 97.2% Pass w/ Hardware Upgrades*

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

*****Contractor PMI Requirements:**

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

Report Prepared By: Gianna Argentina



11/16/2023

Requirements:

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

Contractor shall replace existing position 2 mount pipe with new 84" long PIPE 2 SCH40 pipe (in all sectors). Install 41" from position 1 pipe. Top of pipe shall be 36" above top face horizontal. Attach using VZWSMART MSK1 crossover plates. Refer to placement diagrams.

Contractor shall install proposed OVP to top right (as seen from behind mount) Alpha sector standoff.

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:

- Contractor Required Post Installation Inspection (PMI) Report Deliverables
- Antenna Placement Diagrams
- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations