



4545 East River Road, Suite 320
West Henrietta, NY 14586

April 2, 2020

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

**RE: Notice of Exempt Modification for Verizon
Crown Site #: 827050
699 Old Main St. Rocky Hill, CT 06067
Lat: 41° 40' 5.49"/ Long: 72° 36' 16.8"**

Dear Ms. Bachman:

Verizon currently maintains twelve (12) total antennas at the 140-foot mount on the existing 151-foot monopole, located at 699 Old Main Street in Rocky Hill. The tower is owned by Crown Castle and the property is owned by the Town of Rocky Hill. Verizon now intends to replace three (3) existing antennas and add three (3) remote radio units to the existing 140-foot mount.

Tower modifications:

- Replace three (3) existing antennas
- Add three (3) new remote radio units

Ground modifications:

- None

Melanie A. Bachman

This facility was approved by the Town of Rocky Hill Planning and Zoning Commission on December 16, 1998.

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.S.C.A. § 16-50j-73, a copy of this letter is being sent to Town Manager John Mehr, Town of Rock Hill, as well as Kim Ricci, Town Planner, Town of Rock Hill, the property owner.

Additionally:

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,



Richard Zajac
Network Real Estate Specialist
4545 East River Road, Suite 320
West Henrietta, NY 14586
585-445-5896
richard.zajac@crowncastle.com

Melanie A. Bachman

cc:

Town of Rocky Hill
Attn: John Mehr
Town Hall
761 Old Main St.
Rocky Hill, CT 06067

Town of Rocky Hill
Kim Ricci, Town Planner
Town Hall
761 Old Main St.
Rocky Hill, CT 06067

From: [Zajac, Richard](#)
To: ["jmehr@rockyhillct.gov"](mailto:jmehr@rockyhillct.gov)
Subject: Connecticut Siting Council exempt modification application notification
Date: Friday, April 3, 2020 10:40:00 AM
Attachments: [CSC Exempt Modification Application - 699 Old Main St.pdf](#)

Good morning Mr. Mehr,

Please see the attached application to the Connecticut Siting Council regarding antenna work on the existing cell tower located at 699 Old Main Street in Rocky Hill.

Should you have any questions/comments/concerns regarding this application, please do not hesitate to contact me.

Thank you,

RICH ZAJAC

Network Real Estate Specialist

T: (585) 445-5896 M: (607) 346-7212

F: (724) 416-4461

CROWN CASTLE

4545 East River Road, Suite 320

West Henrietta, NY 14586

From: [Zajac, Richard](#)
To: ["kricci@rockyhillct.gov"](mailto:kricci@rockyhillct.gov)
Subject: Connecticut Siting Council exempt modification application notification
Date: Friday, April 3, 2020 10:41:00 AM
Attachments: [CSC Exempt Modification Application - 699 Old Main St.pdf](#)

Good morning Ms. Ricci,

Please see the attached application to the Connecticut Siting Council regarding antenna work on the existing cell tower located at 699 Old Main Street in Rocky Hill.

Should you have any questions/comments/concerns regarding this application, please do not hesitate to contact me.

Thank you,

RICH ZAJAC

Network Real Estate Specialist

T: (585) 445-5896 M: (607) 346-7212

F: (724) 416-4461

CROWN CASTLE

4545 East River Road, Suite 320

West Henrietta, NY 14586

Exhibit A

Original Facility Approval



Town of Rocky Hill

699 OLD MAIN STREET • PO BOX 657 • ROCKY HILL, CT 06067 • FAX (860) 258-7638

CERTIFIED

December 18, 1998

Mr. Thomas Gilligan
Omnipoint Communications, Inc.
100 Filley St.
Bloomfield, CT 06002

Ms. Barbara Gilbert Interim Town Manager
Town of Rocky Hill
699 Old Main St.
Rocky Hill, CT 06067

RE: Site Plan Application, 150' monopole Antenna, 699 Old Main Street

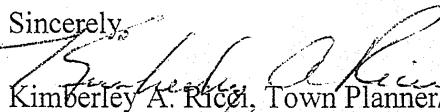
Dear Mr. Gilligan and Ms. Gilbert,

The Rocky Hill Planning and Zoning Commission at their regular meeting of December 16, 1998 voted to approve the aforementioned application. The applicants at the meeting indicated that the fenced-in area could be screened with shrubs and that the antenna could be painted, etc. to better blend with the environment. Please contact the undersigned with your intentions for screening.

Please prepare and submit two (2) sets of the final plans for the Commission's signature. One set of plans is to conform with the enclosed Map Requirements, and the other can be mylar for filing with the Planning and Engineering Departments. The plans are to have signature blocks for the Commission. In addition, there is a \$10.00 per sheet recording fee (one set only) due and payable to the Town of Rocky Hill. Upon receipt of the signed plans and the recording fee, Staff will gladly record the plans with the Town Clerk.

Should you have any questions, please do not hesitate to contact this office at 860-258-2761 or 860-258-2766.

Sincerely,


Kimberley A. Ricci, Town Planner/Assistant ZEO

KAR/mn

cc: Police Chief
Fire Chief

Exhibit B

Property Card

Situs : 761 OLD MAIN STREET

Map ID: 6852

Class: Municipal Comrc'l

Card: 1 of 7

Printed: April 22, 2019

CURRENT OWNER

ROCKY HILL TOWN OF
MUNICIPAL COMPLEX
761 OLD MAIN STREET
ROCKY HILL CT 06067

GENERAL INFORMATION

Living Units
Neighborhood C
Alternate Id 007389
Vol / Pg
District
Zoning R-20
Class EXEMPT

Property Notes



10-045-002 12/07/2012

Land Information

Type	Size	Influence Factors	Influence %	Value
Primary	AC 8.5600			3,046,000

Total Acres: 8.56
Spot:

Location:

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	2,132,200	3,046,000	3,046,000	3,046,000	0
Building	6,736,520	9,623,600	9,623,600	2,670,400	0
Total	8,868,720	12,669,600	12,669,600	5,716,400	0

Manual Override Reason

Value Flag COST APPROACH
Gross Building:
Base Date of Value 10/01/2018
Effective Date of Value 10/01/2018

Entrance Information

Date	ID	Entry Code	Source
10/01/14	CL	Office Review Change	From Conversion
10/09/12	ST	Measured + 1 visit	From Conversion
05/23/07	ST	Reval Inspection	Owner

Permit Information

Date Issued	Number	Price	Purpose	% Complete
01/29/19	2019-170	1,000	EL	Installing A Double Duplex Outlet #
01/16/19	2019-228	20,000	CM	Sprint To Replace Three (3) Antenn
12/20/18	2019-214	20,000	CM	Verizon To Replace Six (6) Antenn
12/13/18	2019-207	5,000	MS	"Build Two Non Load Bearing Wall
11/19/18	2019-183	24,963	WIN	Replacement Of Windows On The

Sales/Ownership History

Transfer Date	Price	Type	Validity
			No Consideration

Deed Reference	Deed Type	Grantee
	No Consideration	ROCKY HILL TOWN OF

Inspection Witnessed By

Quick Zooms

Find Properties

About

Owner:

Parcel ID:

Address:

Clear

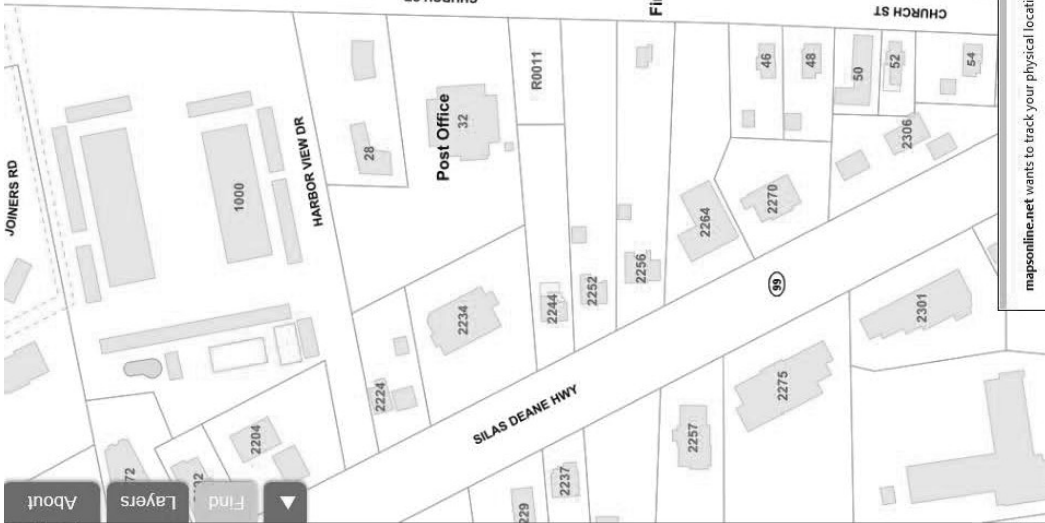
Results Summary

Parcels

Parcel ID	Address	Owner
10-045	699 OLD MAIN STR	ROCKY HILL TOWN

Detail Information

CANA ID	10-045
Address	761 OLD MAIN STREET
Owner	ROCKY HILL TOWN OF
PID	6852
VISION ID	6852
ST. NAME	OLD MAIN STREET
ST. NUM	761
UNIT NUM	
MAP	10
ACCT. NUM	007389
BLOCK	
LOT	045
UNIT	
RE. USE. CODE	901
TOTAL VAL	9857330
IMPRV. VAL	8538600
LAND. VAL	1318720
LINKOUT. VAL	1555610
BLOC. VAL	8259720
BLOC. VAL	8301720
SITE. ID	C
USE. CODE	901
USE. DESC	Municipal Corrd
USE. CODE_2	
USE. DESC_2	
USE. CODE_3	
USE. DESC_3	
ZONE	R-20
ZONE. DESC	
ACREAGE	8.56
NRHD	0001
NRHD. ADJ	
LAND. FRONTAGE	
LAND. ASSES	1318720
CO. OWNER	MUNICIPAL COMPLEX
MAIL. ADDR	761 OLD MAIN STREET
MAIL. ADDR2	



maponline.net wants to track your physical location.

Options for this site

Allow once

Map Info

699 Old Main St, Rocky Hill, CT 06067

Directions

SAVE

SEND TO YOUR PHONE

NEARBY



At this location



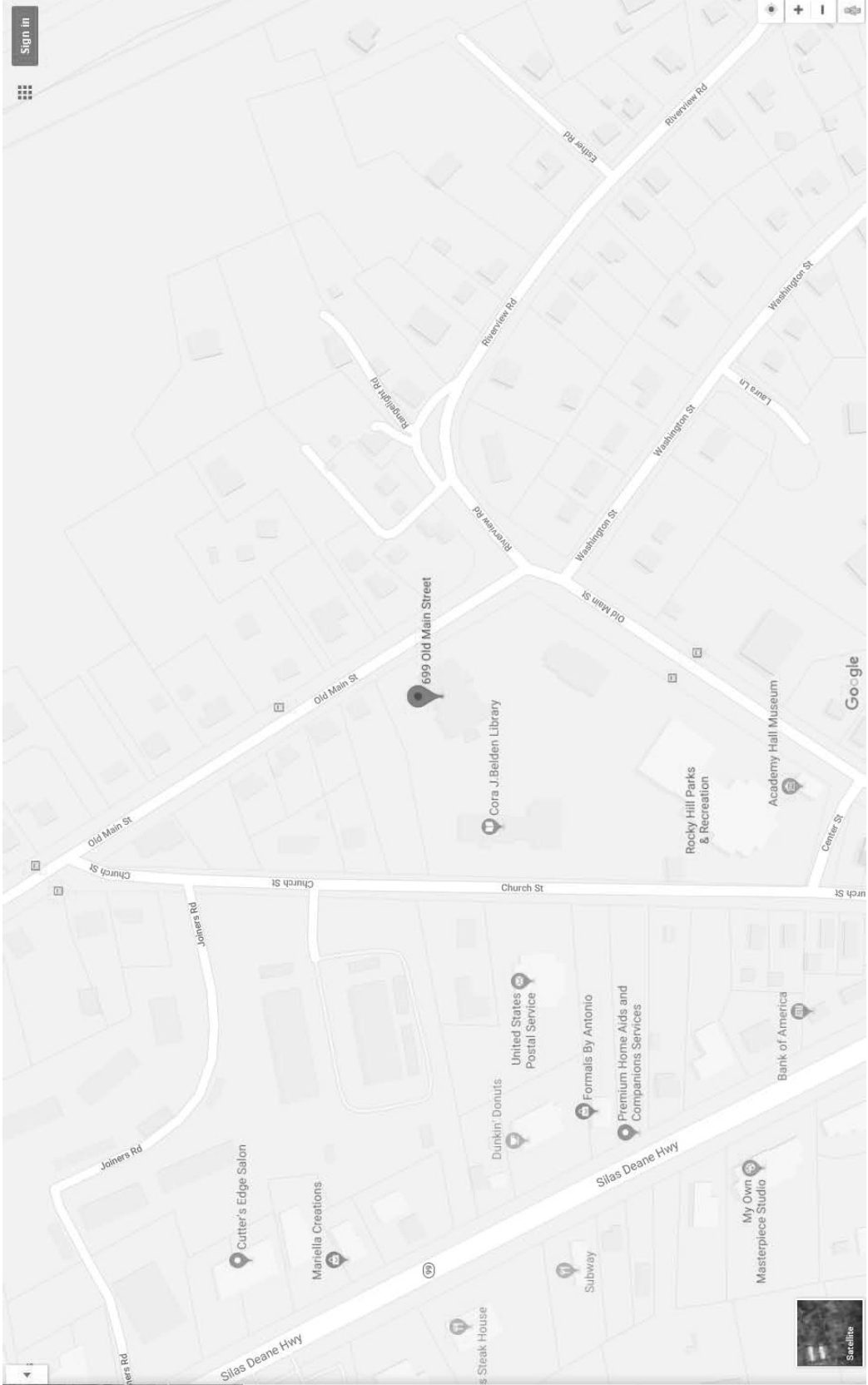
Rocky Hill Human Services Department
5.0 ★★★★★ (1)
Social Services Organization · 699 Old Main St



Rocky Hill Mini Bus Transportation
City Government Office · 699 Old Main St



Rocky Hill Police Department
5.0 ★★★★★ (1)
Police Department · 699 Old Main St



Sign in

Exhibit C

Construction Drawings



CROWN SITE NAME:

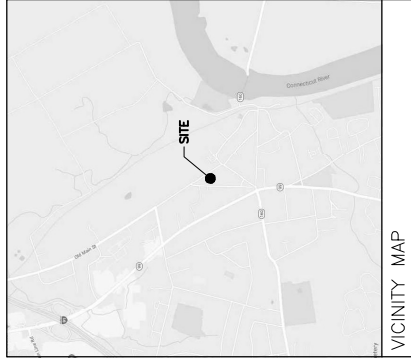
ROCKY HILL/RTE 160__1

BUN: 827050

ORDER ID: 506777



LC: 468400



DIRECTIONS

FROM GREENBUSH, GET ON I-90 E FROM US-4 S AND FOLLOW I-90 E FOR 4.3 MILES. MERGE ONTO I-90 E, FOLLOW I-90 E FOR 1.3 MILES. TAKE EXIT 4 TO MERGE ONTO I-90 E TOWARD JACONIC PARK/ROSTON. FOLLOW FOR 463.7 MILES. TAKE EXIT 4 TO MERGE ONTO I-91 S TOWARD SPRINGFIELD. FOLLOW FOR 46.6 MILES. TAKE EXIT 24 TO MERGE ONTO I-91 S TOWARD ROCKY HILL. FOLLOW FOR 40.3 MILES. MERGE ONTO I-91 S, FOLLOW FOR 40.4 MILES. TURN LEFT ONTO MARSHALL RD. FOLLOW FOR 40.4 MILES. FOLLOW RIGHT ONTO OLD MAIN ST. FOLLOW FOR 40.8 MILES.

PROJECT DESCRIPTION

- THE PROPOSED WORK ON AN EXISTING MONOPOLE CONSISTS OF:
- REMOVE (3) EXISTING ANTENNAS
 - REMOVE (2) EXISTING 6X12 NON-LOW INDUCTANCE HYBRID CABLES
 - INSTALL (3) PROPOSED ANTENNAS
 - INSTALL (2) PROPOSED RRH'S
 - INSTALL (2) PROPOSED 6X12 LOW INDUCTANCE HYBRID CABLES

PROJECT SUMMARY

SITE ADDRESS:	699 OLD MAIN ST. ROCKY HILL, CT 06067
MUNICIPALITY:	TOWN OF ROCKY HILL
COUNTY:	HARTFORD COUNTY
TAX MAP NUMBER:	10-0-45
STRUCTURE COORDINATES:	41.668194° / 41° 40' 5.77" N -72.637990° / 72° 38' 16.93" W
GROUND ELEVATION:	100'± AMSL
PROPERTY OWNER:	TOWN OF ROCKY HILL MUNI. CPLX. 761 OLD MAIN STREET ROCKY HILL, CT 06067
STRUCTURE OWNER:	CROWN CASTLE 3 CORPORATE PARK DR, STE 101 CLIFTON PARK, NY 12065
APPLICANT:	CROWN CASTLE 3 CORPORATE PARK DR, STE 101 CLIFTON PARK, NY 12065 CONTACT: JEFFREY GATES (518) 373-3517
TENANT:	VERIZON WIRELESS 20 ALEXANDER DR, 2ND FLOOR WALLINGFORD, CT 06492

NOTES

ESTIMATED LENGTH(S) OF HYBRID CABLES IS 202'±. POWER SHIFT MAY BE REQUIRED. CONTRACTOR TO VERIFY EXISTING HYBRID CABLE LENGTHS IN FIELD.

SHT NO.	DESCRIPTION	REV NO.	REVISION DATE
T-1	TITLE SHEET	2	3/26/20
C-1	SITE PLAN & NOTES	2	3/26/20
C-2	ELEVATIONS	2	3/26/20
C-3	ANTENNA ORIENTATIONS	2	3/26/20
C-4	SCHEDULES & NOTES	2	3/26/20
C-5	PRK KIT SPEC SHEET	2	3/26/20
C-6	PRK KIT SPEC SHEET	2	3/26/20
C-7	PRK KIT SPEC SHEET	2	3/26/20
SHEET INDEX			
THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNLESS ALL SHEETS HAVE BEEN REVIEWED, APPROVED, AND EACH OF THE DRAWINGS HAS BEEN REVISED AND ISSUED FOR CONSTRUCTION.			

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED FOR 11"x17". OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL UTILITIES AT THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



3 CORPORATE PARK DR, STE 101
CLIFTON PARK, NY 12065



20 ALEXANDER DR, 2ND FLOOR
WALLINGFORD, CT 06492



Tectonic
725 Riverside Drive
Riverside, CT 06458
Tel: 860.336.1234
Fax: 860.336.1235
www.tectonicinc.com

WORK ORDER NUMBER
9810.827050

NO. DATE ISSUE NO.

0	1/13/20	FOR PERMIT
1	3/9/20	FOR CONSTRUCTION
2	3/26/20	PER COMMENTS

RELEASED BY
DATE



UNAUTHORIZED ALTERATION OF ANY PART OF A PLAN DRAWING THE SEAL OF A LICENSED ENGINEER OF CONSTRUCTION IS A VIOLATION OF THE STATE OF CONNECTICUT PROFESSIONAL ENGINEERING ACT.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE SIGNATURE OF THE ENGINEER OR ARCHITECT ARE NOT VALID. FOR ORIGINAL, THE SIGNATURE OF THE ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES

CROWN SITE INFORMATION

ROCKY HILL/RTE 160__1

BUN: 827050

ORDER ID: 506777

VERIZON WIRELESS SITE INFORMATION

ROCKY HILL EAST CT

LC: 468400

SITE ADDRESS

699 OLD MAIN ST.

TOWN OF ROCKY HILL

HARTFORD COUNTY

CT 06067

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



NORTH ORIENTATION

1. NORTH ORIENTATION ESTABLISHED BY COMPASS OBSERVATION.

(6) EXISTING COAX CABLES & (2) EXISTING 6X12 NON-LOW INDUCTANCE HYBRID CABLES & (2) PROPOSED 6X12 LOW INDUCTANCE HYBRID CABLES ROUTED ALONG EXISTING CABLE BRIDGE. CONTRACTOR TO REMOVE (2) EXISTING 6X12 NON-LOW INDUCTANCE HYBRID CABLES (APPROX LENGTH = 202'±)



SITE PLAN

C-1

SCALE: 1" = 10'

GENERAL NOTES

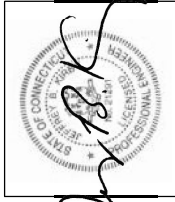
1. THIS PROJECT CONCERNS THE INSTALLATION, MAINTENANCE, AND REPAIR OF A PUBLIC UTILITY/PERSONAL WIRELESS SERVICE.
2. THE PROPOSED UPGRADE IS UNMANNED AND DOES NOT REQUIRE A MEANS OF WATER SUPPLY, SEWAGE DISPOSAL, OR HANDICAPPED ACCESS.
3. THE PROPOSED UPGRADE IS MINIMAL, WILL CREATE NEGLIGIBLE ADDITIONAL STORMWATER RUNOFF, AND WILL, THEREFORE, NOT IMPACT THE EXISTING STORMWATER DRAINAGE SYSTEM.
4. THE PROPOSED UPGRADE DOES NOT INCLUDE OUTDOOR STORAGE, SOLID WASTE RECEPTACLES, OR PLUMBING.
5. ADEQUATE PARKING EXISTS FOR ONE VEHICLE FOR MAINTENANCE OR EMERGENCY SERVICE ONCE A MONTH.
6. THERE ARE NO NEW STREETS, CURBS, SIDEWALKS, OR WALKWAYS PROPOSED.
7. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS UPGRADE.

SITE NOTES

1. ALL WORK SHALL BE AS INDICATED ON THE DRAWINGS.
2. DEBRIS AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

NO.	DATE	ISSUE
0	1/31/20	FOR PERMIT
1	3/9/20	FOR CONSTRUCTION
2	3/26/20	PER COMMENTS

RELEASED BY	DATE
-------------	------



UNAUTHORIZED ALTERATION OR ADDITIONS TO A PLAN BEARING THE SEAL OF A LICENSED ENGINEER OR LAND SURVEYOR IS A VIOLATION IN THE STATE OF CONNECTICUT.



ORIGINAL SIZE IN INCHES
CROWN SITE INFORMATION

CROWN SITE INFORMATION	
DOCK#	1111 / DTF 100 1

BUN: 827050

[illegible]

ORDER ID: 506777

ORDER (Dkt. 000077)
VERIZON WIRELESS SITE INFORMATION

VERIZON WIRELESS SITE INFORMATION

ROCKY HILL EAST CT

IC: 468400

SITE ADDRESS

COO OLD MAIN CT
SITE ADDRESS

699 OLD MAIN ST.

TOWN OF ROCKY HILL

TOWN OF ROCKY HILL
INSTEADS COUNTY

CT 06067

100007

SHEET TITLE

SITE PLAN & NOTES

SHEET NUMBER

1



NO.	DATE	ISSUE	NO.
0	1/17/20	FOR PERMIT	
1	3/9/20	FOR CONSTRUCTION	
2	3/26/20	PER COMMENTS	

RELEASED BY	DATE



UNAUTHORIZED ALTERATION OF ANYTHING TO A PLAN DRAWING THE SEAL OF A LICENSED ENGINEER OF CONSTRUCTION IS A VIOLATION OF THE STATE OF CONNECTICUT. THIS DOCUMENT IS NOT TO BE USED FOR ANY OTHER PURPOSE. COPIES OF THIS DOCUMENT WITHOUT A LICENSED ENGINEER'S SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF SIZE OR ORIGINATING FIRM IN BLUE OR RED INK SHALL NOT BE CONSIDERED VALID COPIES.

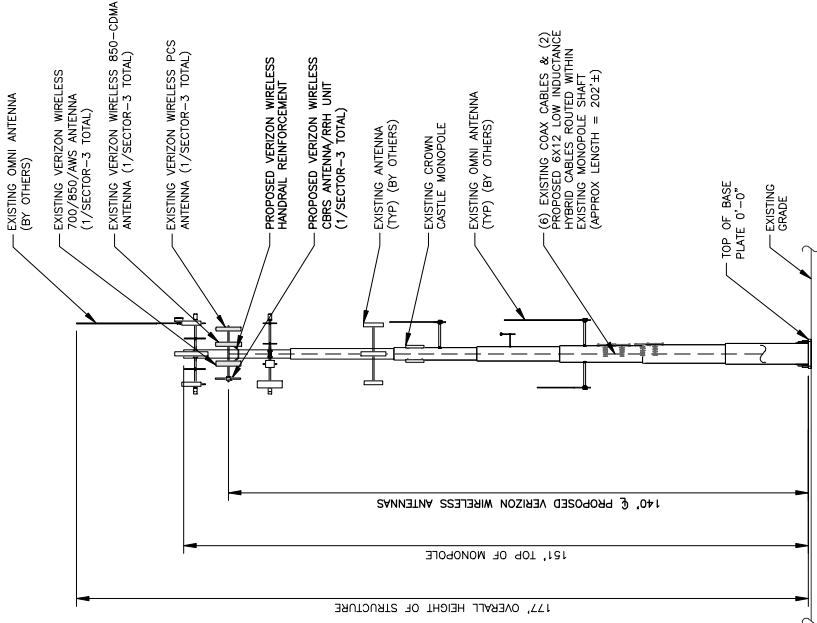
VERIZON WIRELESS SITE INFORMATION
ROCKY HILL/RTE 160_1
BUN: 827050
ORDER ID: 506777

VERIZON WIRELESS SITE INFORMATION
ROCKY HILL EAST CT
LC: 468400

SITE ADDRESS
699 OLD MAIN ST.
TOWN OF ROCKY HILL
HARTFORD COUNTY
CT 06067

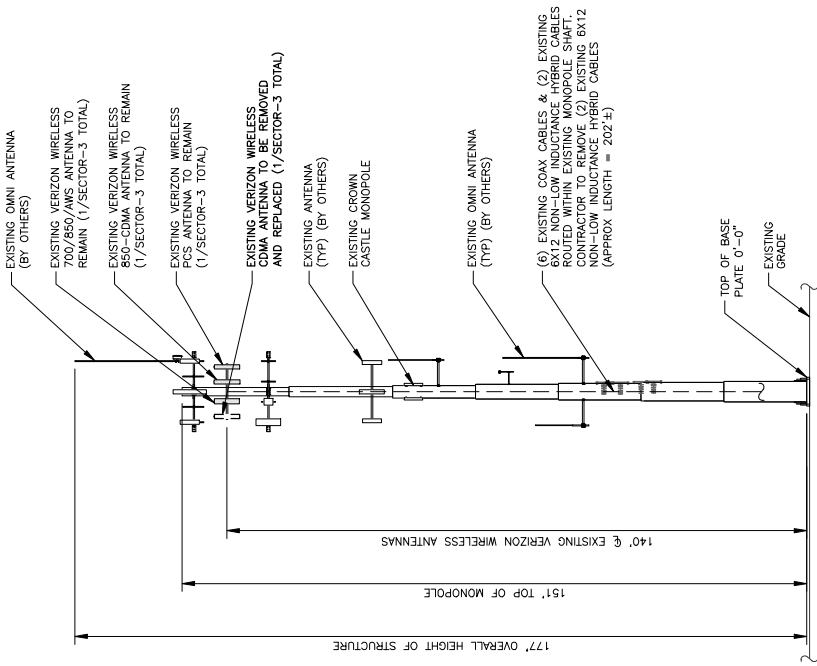
SHEET TITLE
ELEVATIONS

SHEET NUMBER
C-2

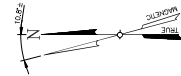


NOTE: SEE SHEET C-3 FOR ANTENNA ORIENTATIONS & SHEET C-4 FOR MOUNTING DETAILS.

2 PROPOSED ELEVATION
C-2 SCALE: 1" = 30'



1 EXISTING ELEVATION
C-2 SCALE: 1" = 30'



NO.	DATE	ISSUE	NO.
0	1/31/20	FOR PERMIT	
1	3/9/20	FOR CONSTRUCTION	
2	3/26/20	PER COMMENTS	

RELEASED BY	DATE



UNAUTHORIZED ALTERATION OF ANY PART OF THIS PLAN VIOLATES THE SEAL OF A LICENSED ENGINEER OF CONNECTICUT. IT IS A VIOLATION OF THE STATE OF CONNECTICUT'S PROFESSIONAL ENGINEERING ACT.

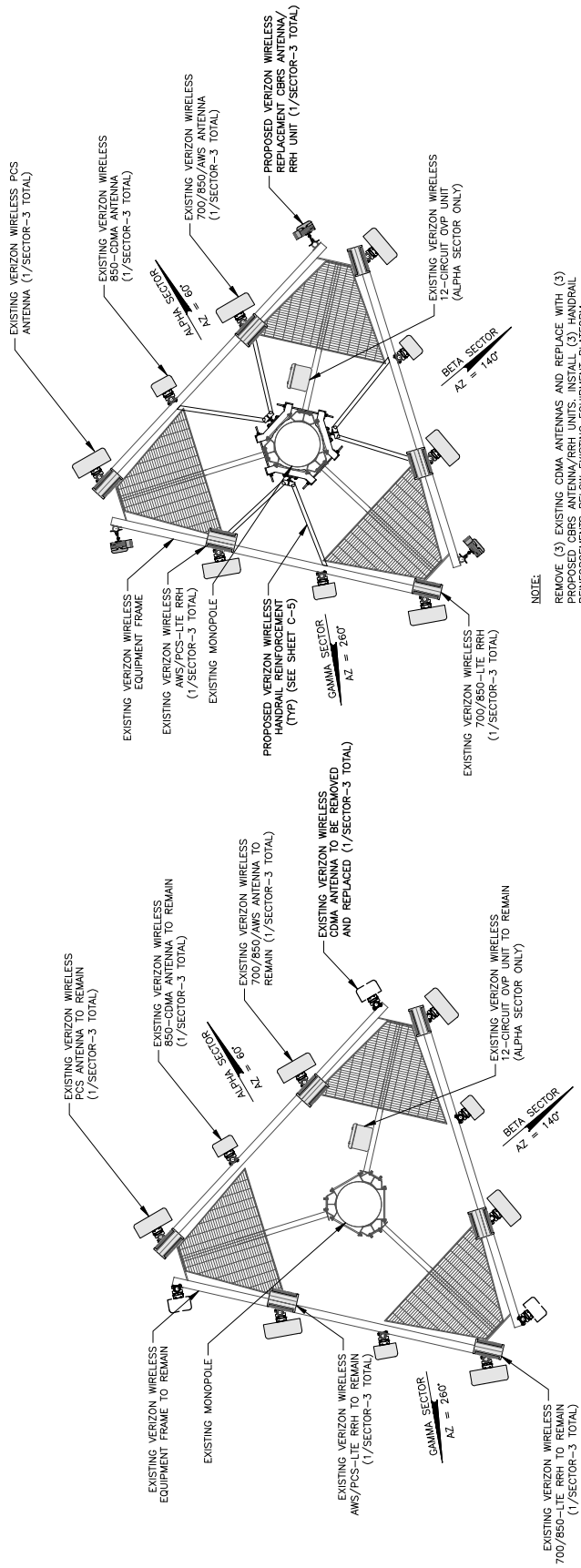
COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE SIGNATURE OF THE ENGINEER ARE NOT VALID FOR ANY PURPOSE. THE ORIGINAL SIGNATURE OF THE ENGINEER SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES
CROWN SITE INFORMATION
ROCKY HILL/RTE 160_1
BUN: 827050
ORDER ID: 506777
VERIZON WIRELESS SITE INFORMATION
ROCKY HILL EAST CT
LC: 468400

SITE ADDRESS
699 OLD MAIN ST.
TOWN OF ROCKY HILL
HARTFORD COUNTY
CT 06067

SHEET TITLE
ANTENNA ORIENTATIONS

SHEET NUMBER
C-3

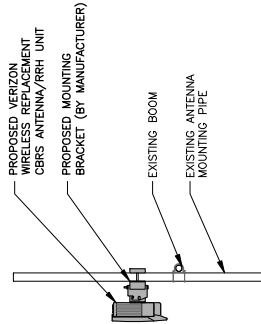


NOTE:
REMOVE (3) EXISTING COMA ANTENNAS AND REPLACE WITH (3) PROPOSED CBR ANTENNA/RRH UNITS. INSTALL (3) HANDRAIL REINFORCEMENTS BELOW EXISTING EQUIPMENT PLATFORM.

1
C-3
EXISTING ANTENNA ORIENTATION
SCALE: 1" = 5'

2
C-3
PROPOSED ANTENNA ORIENTATION
SCALE: 1" = 5'

NOTE:
ANTENNA AND HYBRID CABLE SCHEDULE BASED ON AN RF
ANTENNA DESIGN SHEET DATED 03/03/2020, RFD ID: 15685255



1 EQUIPMENT MOUNTING SECTION
SCALE: 1" = 3'

ANTENNA MOUNTING NOTES

- THE DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO ANSI/TIA-222-G-2005 "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS", THE CONNECTICUT STATE BUILDING CODE (CURRENT EDITION) AND ALL OTHER APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DESIGN OF THE ANTENNA MOUNTING BRACKETS, SUPPORTS, AND ALL COMPONENTS THEREOF AND ATTACHMENT THERETO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THE OWNER DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. MANUFACTURER SHALL ALSO PROVIDE THE OWNER WITH A STATEMENT OF COMPLIANCE, INDICATING THAT THE ANTENNA SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-G-2005 "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS" AND A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

ANTENNA AND CABLE SCHEDULE

SECTOR	STATUS	FREQUENCY	ANTENNA DATA	AZIMUTH (TRUE NORTH)	# OF ANTENNAS PER SECTOR	ANTENNA & HEIGHT (AGL)	# OF CABLES	CABLE LENGTH
ALPHA	EXISTING	PCS	72" x 19.6" x 7.8", 78.5 LBS (COMM. P/N: NNHH-65B-R4)	60°	1	140'	JUMPERS FROM RRH	N/A
ALPHA	EXISTING	850-CDMA	80.6" x 11.9" x 7.1", 32.2 LBS (COMM. P/N: LNX-6514DS-A1M)	60°	1	140'	(2) EXISTING COAX	N/A
ALPHA	EXISTING/ PROPOSED	700/850/AWS	72" x 19.6" x 7.8", 78.5 LBS (COMM. P/N: NNHH-65B-R4)	60°	1	140'	JUMPERS FROM RRH	N/A
ALPHA	PROPOSED	CBRS	11.39" x 5.45" x 16.16", 23.14 LBS (SAMSUNG P/N: RT4401-48A)	60°	1	140'	JUMPERS FROM RRH	2'±
BETA	EXISTING	PCS	72" x 19.6" x 7.8", 78.5 LBS (COMM. P/N: NNHH-65B-R4)	140°	1	140'	EXISTING COAX	N/A
BETA	EXISTING	850-CDMA	80.6" x 11.9" x 7.1", 32.2 LBS (COMM. P/N: LNX-6514DS-A1M)	140°	1	140'	(2) EXISTING COAX	N/A
BETA	EXISTING/ PROPOSED	700/850/AWS	72" x 19.6" x 7.8", 78.5 LBS (COMM. P/N: NNHH-65B-R4)	140°	1	140'	JUMPERS FROM RRH	N/A
BETA	PROPOSED	CBRS	11.39" x 5.45" x 16.16", 23.14 LBS (SAMSUNG P/N: RT4401-48A)	140°	1	140'	JUMPERS FROM RRH	2'±
GAMMA	EXISTING	PCS	72" x 19.6" x 7.8", 78.5 LBS (COMM. P/N: NNHH-65B-R4)	260°	1	140'	EXISTING COAX	N/A
GAMMA	EXISTING	850-CDMA	80.6" x 11.9" x 7.1", 32.2 LBS (COMM. P/N: LNX-6514DS-A1M)	260°	1	140'	(2) EXISTING COAX	N/A
GAMMA	EXISTING/ PROPOSED	700/850/AWS	72" x 19.6" x 7.8", 78.5 LBS (COMM. P/N: NNHH-65B-R4)	260°	1	140'	JUMPERS FROM RRH	N/A
GAMMA	PROPOSED	CBRS	11.39" x 5.45" x 16.16", 23.14 LBS (SAMSUNG P/N: RT4401-48A)	260°	1	140'	JUMPERS FROM RRH	2'±

NOTES:

- CONTRACTOR TO TAG HYBRID CABLE AT BOTH ENDS WITH ANTENNA DESIGNATION AS PER COLOR CODING SHEET PROVIDED BY VERIZON WIRELESS AND AS DIRECTED BY VERIZON WIRELESS EQUIPMENT ENGINEER.
- CONTRACTOR TO OBTAIN ALL ELECTRICAL AND MECHANICAL DOWNTILTS FROM THE FINAL RF ANTENNA DESIGN SHEET.

RRH/OVP AND HYBRID SCHEDULE

SECTOR	STATUS	UNITS	UNIT DATA	# OF UNITS	CABLE TYPE	# OF CABLES	CABLE LENGTH
ALPHA	EXISTING	6B27 OVP	25.68" x 15.73" x 10.25", 32 LBS (RAYCAP P/N: RXXOC-3315-PT-48)	1	PROPOSED 6X12 HYBRID	2	202'±
ALPHA	PROPOSED	CBRS RRH	11.39" x 5.45" x 16.16", 23.14 LBS (SAMSUNG P/N: 20W CBRS)	1	POWER/FIBER CABLE FROM OVP	1	12'±
ALPHA	EXISTING	700/850-LTE RRH	15.0" x 15.0" x 8.1", 70.3 LBS (SAMSUNG P/N: RV01U-32A)	1	POWER/FIBER CABLE FROM OVP	1	N/A
ALPHA	EXISTING	PCS-LTE/AWS RRH	15.0" x 15.0" x 10.0", 84.4 LBS (SAMSUNG P/N: RV01U-31A)	1	POWER/FIBER CABLE FROM OVP	1	N/A
BETA	PROPOSED	CBRS RRH	11.39" x 5.45" x 16.16", 23.14 LBS (SAMSUNG P/N: 20W CBRS)	1	POWER/FIBER CABLE FROM OVP	1	24'±
BETA	EXISTING	700/850-LTE RRH	15.0" x 15.0" x 8.1", 70.3 LBS (SAMSUNG P/N: RV01U-32A)	1	POWER/FIBER CABLE FROM OVP	1	N/A
BETA	EXISTING	PCS-LTE/AWS RRH	15.0" x 15.0" x 10.0", 84.4 LBS (SAMSUNG P/N: RV01U-31A)	1	POWER/FIBER CABLE FROM OVP	1	N/A
GAMMA	PROPOSED	CBRS RRH	11.39" x 5.45" x 16.16", 23.14 LBS (SAMSUNG P/N: 20W CBRS)	1	POWER/FIBER CABLE FROM OVP	1	24'±
GAMMA	EXISTING	700/850-LTE RRH	15.0" x 15.0" x 8.1", 70.3 LBS (SAMSUNG P/N: RV01U-32A)	1	POWER/FIBER CABLE FROM OVP	1	N/A
GAMMA	EXISTING	PCS-LTE/AWS RRH	15.0" x 15.0" x 10.0", 84.4 LBS (SAMSUNG P/N: RV01U-31A)	1	POWER/FIBER CABLE FROM OVP	1	N/A

STRUCTURAL NOTES

- ALL WORK SHALL CONFORM TO ANSI/TIA-222-G-2005 "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS", THE CONNECTICUT STATE BUILDING CODE (CURRENT EDITION) AND ALL OTHER APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
- REFER TO MOUNT MODIFICATION REPORT PREPARED BY ETS, DATED NOVEMBER 13, 2019.
- MODIFICATIONS TO THE EXISTING ANTENNA FRAME AS INDICATED IN THE ABOVE STRUCTURAL REPORT SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND EQUIPMENT.



WORK ORDER NUMBER: 9810/827050
DRAWN BY: [signature]
NO. DATE: 1/31/20
FOR PERMIT: 1/31/20
FOR CONSTRUCTION: 3/26/20
PER COMMENTS: 3/26/20

RELEASED BY: [signature]
DATE: [signature]



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ORIGINAL SIZE IN INCHES: 11" x 17"
CROWN SITE INFORMATION: 11" x 17"

ROCKY HILL/RTE 160_1
BUN: 827050
ORDER ID: 506777
VERIZON WIRELESS SITE INFORMATION
ROCKY HILL EAST CT
LC: 468400

SITE ADDRESS
699 OLD MAIN ST.
TOWN OF ROCKY HILL
HARTFORD COUNTY
CT 06067

SCHEDULES & NOTES
SHEET TITLE
SHEET NUMBER

C-4

3 CORPORATE PARK DR. STE 101
CLIFTON PARK, NY 12065



20 ALEXANDER DR., 2ND FLOOR
MILLIS, MASS. 02046



Tectonic Engineering & Surveying Consultants, P.C.
70, Pleasant Hill Road
Suite 37
Mauritaville, NY 10963
Project Contact: 849
18 Brilliant American Blvd.
Suite 101
Latham, NY 12110
Phone: (518) 783-1430
www.tectonicsurveying.com

WORK ORDER NUMBER	DRAWN BY
9810.827050	MQ

NO.	DATE	ISSUE

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4	7/10/20	FOR PERMIT

	FOR CONSTRUCTION	PER COMMENTS
1	3/9/20	
2	3/26/20	

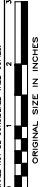
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RELEASED BY	DATE
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1101



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CROWN SITE INFORMATION

RUCKY HILL/RIE 160-1
DUN. 907050

BUN: 82078
ORDER ID: 500777

ORDER ID: 506111

ROCKY HILL EAST CT

LC: 468400

SITE ADDRESS

699 OLD MAIN ST.

TOWN OF ROCKY HILL

HARTFORD COUNTY

CT 06067

SHEET TITLE

PRK KIT SPEC
SHEET

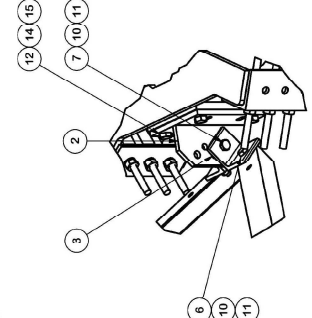
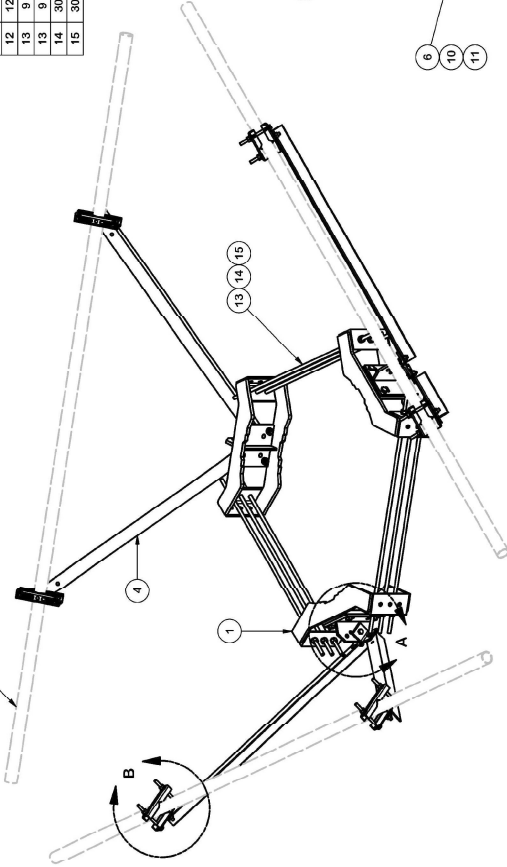
SHEET

SHEET NUMBER

1

ITEM QTY			PART NO.		PARTS LIST			LENGTH	UNIT WT.	NET WT.
1	3	X1WRM			RING NUT W/ELMENT			68.61	206.42	
2	3	X1TBW			T-BRACKET W/ELMENT		3 in	13.60	40.80	
3	6	S10HCL			CHAIN NUT TIGHTENER BRACKET			1.86	11.15	
4	6	X332687			TRPD-HD DIAGONAL ANGLE - SITE PRO 1		52 1/2 in	14.35	86.08	
5	12	X3STU			STIFF ARM CHANNEL BRACKET		8 1/2 in	1.37	16.46	
6	12	G12212			1/2" x 1-1/2" HDG-HEX BOLT GR5		1/2 in	0.15	1.77	
7	3	G12212			1/2" x 2-1/2" HDG-HEX BOLT GR5		2 1/2 in	0.20	0.61	
8	24	G12065			1/2" x 6-1/2" HDG-HEX BOLT GR5 FULL THREA		6 1/2 in	0.41	4.91	
9	24	G12P05			1/2" HDG USS F/ATWASH		3/32 in	0.03	0.82	
10	27	G12LW			1/2" HDG LOCKWASHER		1/8 in	0.07	0.98	
11	27	G12NUT			1/2" HDG HEAVY 2H HEX NUT			0.01	1.93	
12	14	G82114			5/8" x 1-1/4" HDG A325 HEX BOLT		2 1/4 in	0.41	3.75	
13	9	G8R-24			5/8" x 2-1/4" THREADED ROD (HDG.)		24 in	0.30	3.59	
13	9	G8R-48			5/8" x 4" THREADED ROD (HDG.)		48 in	0.40	3.59	
14	30	G38LW			5/8" HDG LOCKWASHER			0.03	0.78	
15	30	G38NUT			5/8" HDG HEAVY 2H HEX NUT			0.13	3.97	
TOTAL WT. #									587.71	

EXISTING HANDRAIL
SHOWN FOR CLARITY



•

DETAIL B

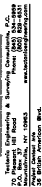
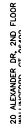
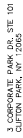
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SP1										SPR NO.	DRAWN BY	BEC. APPROVAL	3RD PARTY	OWS NO.	PRK-SFS
CHANGED MAX. DIA. FOR HANDRAIL CONNECTION										81	CSLS	2/23/2017	BMC	3/16/2017	PRK-SFS
CPC										81	ENCL.	DATE	DATE	PRK-SFS	PRK-SFS
BY										81	ENCL.	DATE	DATE	PRK-SFS	PRK-SFS
DATE										81	ENCL.	DATE	DATE	PRK-SFS	PRK-SFS
DESCRIPTION OF REVISIONS										81	ENCL.	DATE	DATE	PRK-SFS	PRK-SFS
REV										81	ENCL.	DATE	DATE	PRK-SFS	PRK-SFS

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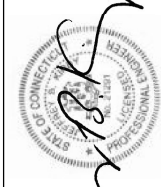
HANDRAIL REINFORCEMENT KIT

SCALE: NTC



NO.	DATE	ISSUE
0	1/31/20	FOR PERMIT
1	3/9/20	FOR CONSTRUCTION
2	3/26/20	PER COMMENTS

RELEASED BY	DATE
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ORIGINAL SIZE IN INCHES
CROWN SITE INFORMATION[illegible]

ROCKY HILL/RIE 160-1

BUN: 827050

ORDER ID: 506777

ORDER ID: 300777
VERIZON WIRELESS SITE INFORMATION

VERIZON WIRELESS SITE INFORMATION

ROCKY HILL EAST CT

DATE RECEIVED

SITE ADDRESS
COO OLD MAIN CT

699 OLD MAIN ST.

TOWN OF ROCKY HILL

HARTFORD COUNTY

STANDARD COUNT

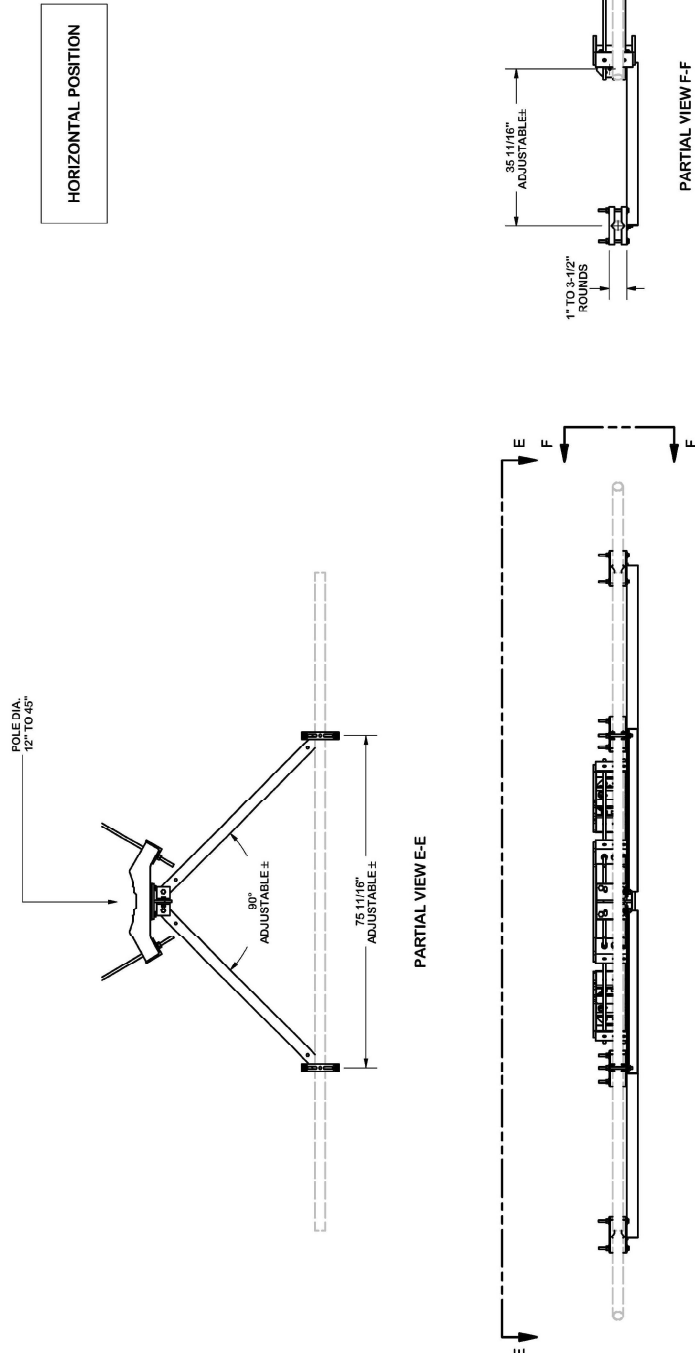
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SHEET TITLE

PRK KIT SPEC

SHEET NUMBER

7

[illegible]

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HANDRAIL REINFORCEMENT KIT

SCALE: NTS

Exhibit D

Structural Analysis Report



Date: **December 03, 2019**

Denice Nicholson
Crown Castle
3 Corporate Dr
Clifton Park, NY 12065

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject: **Structural Analysis Report**

Carrier Designation: **Verizon Wireless Co-Locate**
Carrier Site Number: NG78427
Carrier Site Name: Rocky Hill East CT

Crown Castle Designation: **Crown Castle BU Number:** 827050
Crown Castle Site Name: Rocky Hill/ Rte 160_1
Crown Castle JDE Job Number: 592726
Crown Castle Work Order Number: 1803916
Crown Castle Order Number: 506777 Rev. 0

Engineering Firm Designation: **B+T Group Project Number:** 140124.001.01

Site Data: **699 Old Main St., Rocky Hill, Hartford County, CT**
Latitude 41° 40' 5.77", Longitude -72° 38' 16.93"
147.5 Foot - Monopole Tower

Dear Denice Nicholson,

B+T Group is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above mentioned tower.

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

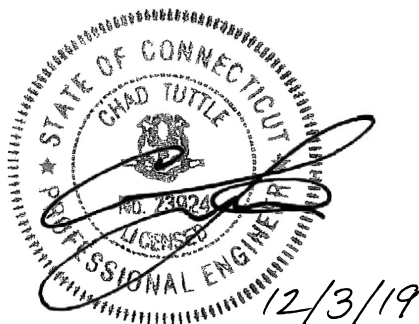
LC7: Proposed Equipment Configuration

Sufficient Capacity – 93.0%

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Xavier Jones

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564 Expires: 02/10/2020



Chad E. Tuttle, P.E.

tnxTower Report - version 8.0.5.0

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Table 2 - Other Considered Equipment

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3.2) Assumptions

4) ANALYSIS RESULTS

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tnxTower Output

6) APPENDIX B

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7) APPENDIX C

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1) INTRODUCTION

This tower is a 147.5 ft Monopole tower designed by PiROD Manufactures Inc. in July of 1999. The tower was originally designed for a wind speed of 80 mph per TIA/EIA-222-F. This tower has been modified multiple times and those modifications were incorporated in this analysis.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	2 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
140.0	140.0	1	Andrew	LNx-6514DS-A1M	7 1	1-5/8 1-1/4
		2	Commscope	LNx-6514DS-A1M		
		6	Commscope	NNHH-65B-R4		
		1	Raycap	RVZDC-6627-PF-48		
		1	Rfs Celwave	DB-T1-6Z-8AB-0Z		
		3	Samsung Telecom.	20W CBRS		
		3	Samsung Telecom.	CBRS		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	RFV01U-D2A		
		3	Site Pro1	PRK-SFS		
		1	--	Platform Mount [LP 303]		

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)
148.0	167.0	2	Dbspectra	DS4C06F36D-D	7	7/8
	154.0	1	Rfs Celwave	201-1N		
	152.0	1	Radiowaves	HPD2-4.7		
	149.0	3	Ericsson	AIR 32 B2A/B66AA	10	1-5/8
		3	Ericsson	ERICSSON AIR 21 B2A B4P		
		3	Ericsson	KRY 112 144/1		
		3	Ericsson	RADIO 4449 B12/B71		
		3	Rfs Celwave	APXVAARR24_43-U-NA20		
	148.0	1	--	Platform Mount [LP 405-1]		
130.0	130.0	3	Alcatel Lucent	PCS 1900MHz 4x45W-65MHz	3 1	1-1/4 1-1/2
		6	Alcatel Lucent	RRH2X50-800		
		3	Commscope	NNVV-65B-R4		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	Nokia	AAHC		
		1	--	Platform Mount [LP 405-1]		
105.0	105.0	1	CCI Antennas	HPA-65R-BUU-H6	12 4 5	1-5/8 5/8 3/8
		2	CCI Antennas	HPA-65R-BUU-H8		
		2	CCI Antennas	TPA-65R-LCUUUU-H8		
		3	Ericsson	RRUS 11		
		3	Ericsson	RRUS 32		
		3	Ericsson	RRUS 32 B2		
		3	Ericsson	RRUS 32 B66		
		3	Powerwave Tech.	1001940		
		3	Powerwave Tech.	7750.00		
		6	Powerwave Tech.	LGP21401		
		6	Powerwave Tech.	LGP21903		
		1	Quintel Tech.	QS66512-2		
		2	Raycap	DC6-48-60-18-8F		
		1	--	Platform Mount [LP 303-1]		
95.0	95.0	3	Rfs Celwave	APXV18-206516S-C	6	1-5/8
		1	--	Pipe Mount [PM 601-3]		
89.0	95.0	1	Rfs Celwave	1142-2C	1	1/2
	89.0	1	--	Side Arm Mount [SO 701-1]		
72.0	74.0	1	GPS	GPS_A	--	--
	72.0	1	--	Side Arm Mount [SO 701-1]		
54.0	64.0	1	Rfs Celwave	220-8N	2	7/8
	61.0	1	Rfs Celwave	201-1N		
	54.0	2	--	Side Arm Mount [SO 701-1]		
49.0	49.0	1	Decibel	DB436-C	1	7/8
		1	--	Pipe Mount [PM 601-1]		
45.0	45.0	1	Decibel	DB436-C	1	7/8
		1	--	Pipe Mount [PM 601-1]		
40.0	40.0	1	Decibel	DB436-C	1	7/8
		1	--	Pipe Mount [PM 601-1]		
37.0	37.0	1	Decibel	DB436-C	1	7/8
		1	--	Pipe Mount [PM 601-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
Online Order Information	Verizon Wireless Co-Locate, Rev# 0	506777	CCI Sites
Tower Manufacturer Drawing	PiROD Inc., Eng. File No. A-115401-Q-81105	3464619	CCI Sites
Tower Mapping	High Tower Solutions Inc., Date: 07/21/2016	6388740	CCI Sites
Tower Modification Drawing	TEP, Project No: 102048 Date: 07/02/2010	4047808	CCI Sites
Post Modification Inspection	TEP, Project No: 102048 Date: 12/03/2010	3774968	CCI Sites
Tower Modification Drawing	TEP, Project No: 129342 Date: 07/09/2012	4047725	CCI Sites
Post Modification Inspection	TEP, Project No: 129342 Date: 03/13/2013	3774967	CCI Sites
Tower Modification Drawing	PJF, Project No: 37513-1388 Date: 05/20/2013	4424839	CCI Sites
Post Modification Inspection	ETS, Project No: 150012 Date: 08/19/2015	5849862	CCI Sites
Mount Modification Report	ETS, PLLC. Date: 11/13/2019	8775009	CCI Sites
Foundation Drawing	PiROD Inc., Eng. File no. A-115401-Q-81105	3674483	CCI Sites
Geotech Report	FDH, Project No. 15BQHD1600	3464587	CCI Sites
Antenna Configuration	Crown CAD Package	Date: 11/05/2019	CCI Sites

3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) The tower and structures were built and have been maintained in accordance with the manufacturer's specification.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) Mount areas and weights are assumed based on photographs provided.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group 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
L1	147.5 - 142.5	Pole	P24x0.375	1	-4.709	---	9.0	Pass
L2	142.5 - 137.5	Pole	P24x0.375	2	-8.743	---	16.7	Pass
L3	137.5 - 132.5	Pole	P24x0.375	3	-9.416	---	26.0	Pass
L4	132.5 - 127.5	Pole	P24x0.375	4	-13.702	---	37.5	Pass
L5	127.5 - 125	Pole	P24x0.375	5	-14.069	---	43.7	Pass
L6	125 - 120	Pole	P30x0.375	6	-14.930	---	37.4	Pass
L7	120 - 115	Pole	P30x0.375	7	-15.798	---	46.0	Pass
L8	115 - 110	Pole	P30x0.375	8	-16.682	---	54.8	Pass
L9	110 - 105	Pole	P30x0.375	9	-17.576	---	63.8	Pass
L10	105 - 100	Pole	P30x0.375	10	-22.019	---	76.0	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L11	100 - 95	Pole	P36x0.375	11	-23.140	---	62.7	Pass
L12	95 - 94.25	Pole	P36x0.375	12	-23.600	---	64.0	Pass
L13	94.25 - 94	Pole + Reinf.	P36x0.49375	13	-23.674	---	52.9	Pass
L14	94 - 89	Pole + Reinf.	P36x0.49375	14	-25.014	---	60.3	Pass
L15	89 - 84	Pole + Reinf.	P36x0.49375	15	-26.747	---	68.1	Pass
L16	84 - 80	Pole + Reinf.	P36x0.49375	16	-29.176	---	74.5	Pass
L17	80 - 79.75	Pole + Reinf.	P42x0.575	17	-29.297	---	44.6	Pass
L18	79.75 - 74.75	Pole + Reinf.	P42x0.575	18	-31.382	---	49.6	Pass
L19	74.75 - 69.75	Pole + Reinf.	P42x0.575	19	-33.227	---	54.7	Pass
L20	69.75 - 64.75	Pole + Reinf.	P42x0.575	20	-35.397	---	60.0	Pass
L21	64.75 - 60	Pole + Reinf.	P42x0.575	21	-40.145	---	65.4	Pass
L22	60 - 59.75	Pole + Reinf.	P48x0.6125	22	-40.310	---	47.9	Pass
L23	59.75 - 54.75	Pole + Reinf.	P48x0.6125	23	-43.122	---	52.2	Pass
L24	54.75 - 49.75	Pole + Reinf.	P48x0.6125	24	-45.404	---	56.8	Pass
L25	49.75 - 44.75	Pole + Reinf.	P48x0.6125	25	-48.080	---	61.5	Pass
L26	44.75 - 40	Pole + Reinf.	P48x0.6125	26	-52.047	---	66.1	Pass
L27	40 - 39.75	Pole + Reinf.	P54x0.65	27	-52.298	---	50.0	Pass
L28	39.75 - 34.75	Pole + Reinf.	P54x0.65	28	-55.406	---	53.8	Pass
L29	34.75 - 29.75	Pole + Reinf.	P54x0.65	29	-57.876	---	57.7	Pass
L30	29.75 - 24.75	Pole + Reinf.	P54x0.65	30	-61.425	---	61.7	Pass
L31	24.75 - 20	Pole + Reinf.	P54x0.65	31	-66.374	---	65.7	Pass
L32	20 - 19.75	Pole + Reinf.	P60x0.625	32	-66.558	---	56.4	Pass
L33	19.75 - 14.75	Pole + Reinf.	P60x0.625	33	-70.042	---	60.1	Pass
L34	14.75 - 9.75	Pole + Reinf.	P60x0.625	34	-72.796	---	63.8	Pass
L35	9.75 - 4.75	Pole + Reinf.	P60x0.625	35	-75.436	---	67.6	Pass
L36	4.75 - 0	Pole + Reinf.	P60x0.625	36	-77.951	---	71.3	Pass
							Summary	
						Pole (L10)	76.0	Pass
						Rating =	76.0	Pass

Table 6 - Tower Component Stresses vs. Capacity – LC7

Notes	Component		Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connections		125	41.8	Pass
1	Flange Connections		100	76.6	Pass
1	Flange Connections		80	45.0	Pass
1	Flange Connections		60	46.3	Pass
1	Flange Connections		40	54.4	Pass
1	Flange Connections		20	59.1	Pass
1	Anchor Rod Bracket		Base	93.0	Pass
1	Anchor Rods		Base	76.2	Pass
1	Base Plate		Base	84.0	Pass
1	Base Foundation	(Structure)	Base	81.8	Pass
1		(Soil Interaction)	Base	31.8	Pass

Structure Rating (max from all components) =	93.0%
---	--------------

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

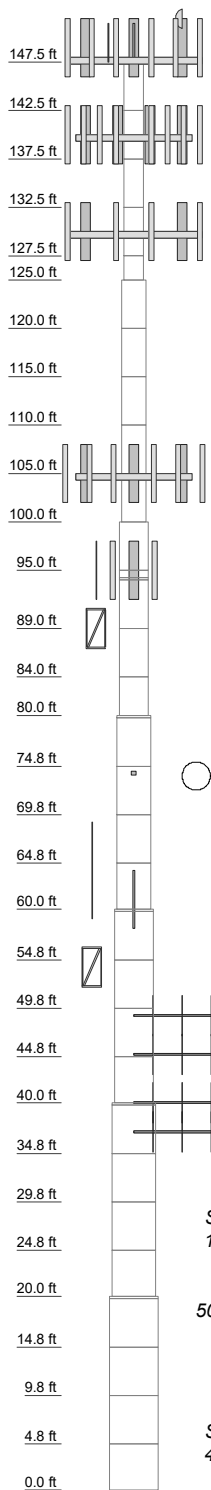
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-42	42 ksi	63 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.000 ft
7. TIA-222-H Annex S
8. TOWER RATING: 76.0%

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Size	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375	P50x0.375
Length (ft)	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Grade	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42	A53-B-42
Weight (K)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



ALL REACTIONS
ARE FACTORED

AXIAL
142 K

SHEAR
11 K

MOMENT
1148 kip-ft

TORQUE 1 kip-ft
50 mph WIND - 2.000 in ICE

AXIAL
78 K

SHEAR
47 K

MOMENT
4283 kip-ft

TORQUE 2 kip-ft
REACTIONS - 125 mph WIND

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job:	140124.001.01 - Rocky Hill Rte 160_1, CT (BU# 82705)		
Project:			
Client:	Crown Castle	Drawn by:	Divakara
Code:	TIA-222-H	Date:	12/03/19
Path:			
		App'd:	
		Scale:	NTS
		Dwg No:	E-1

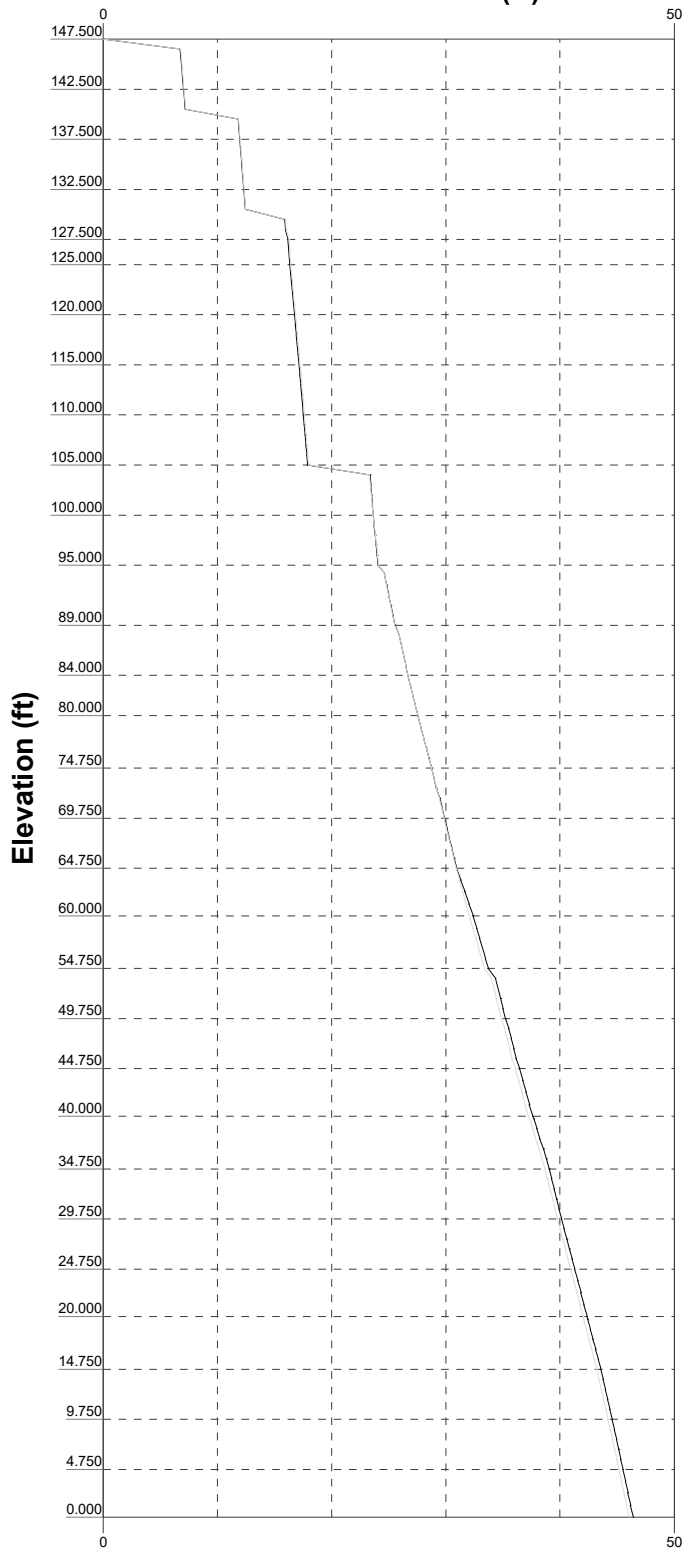
Vx

Vz

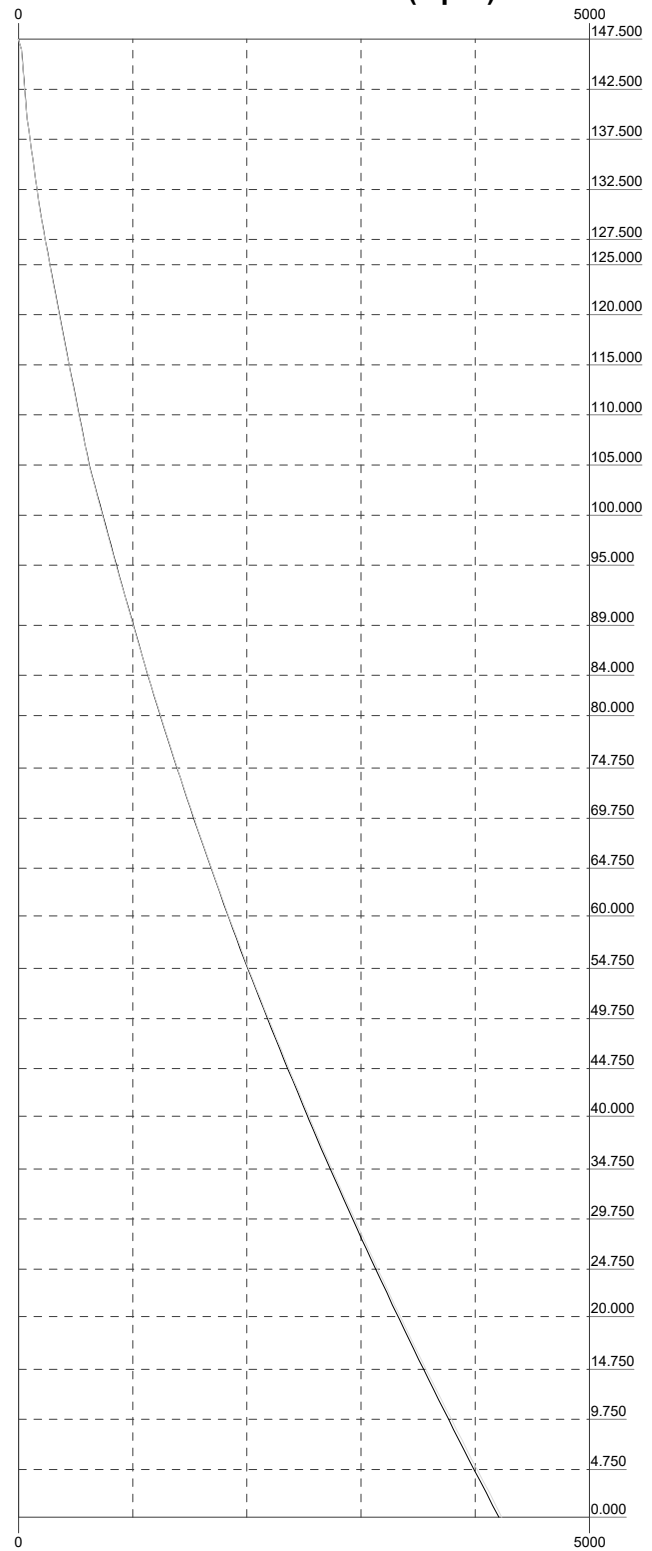
Mx

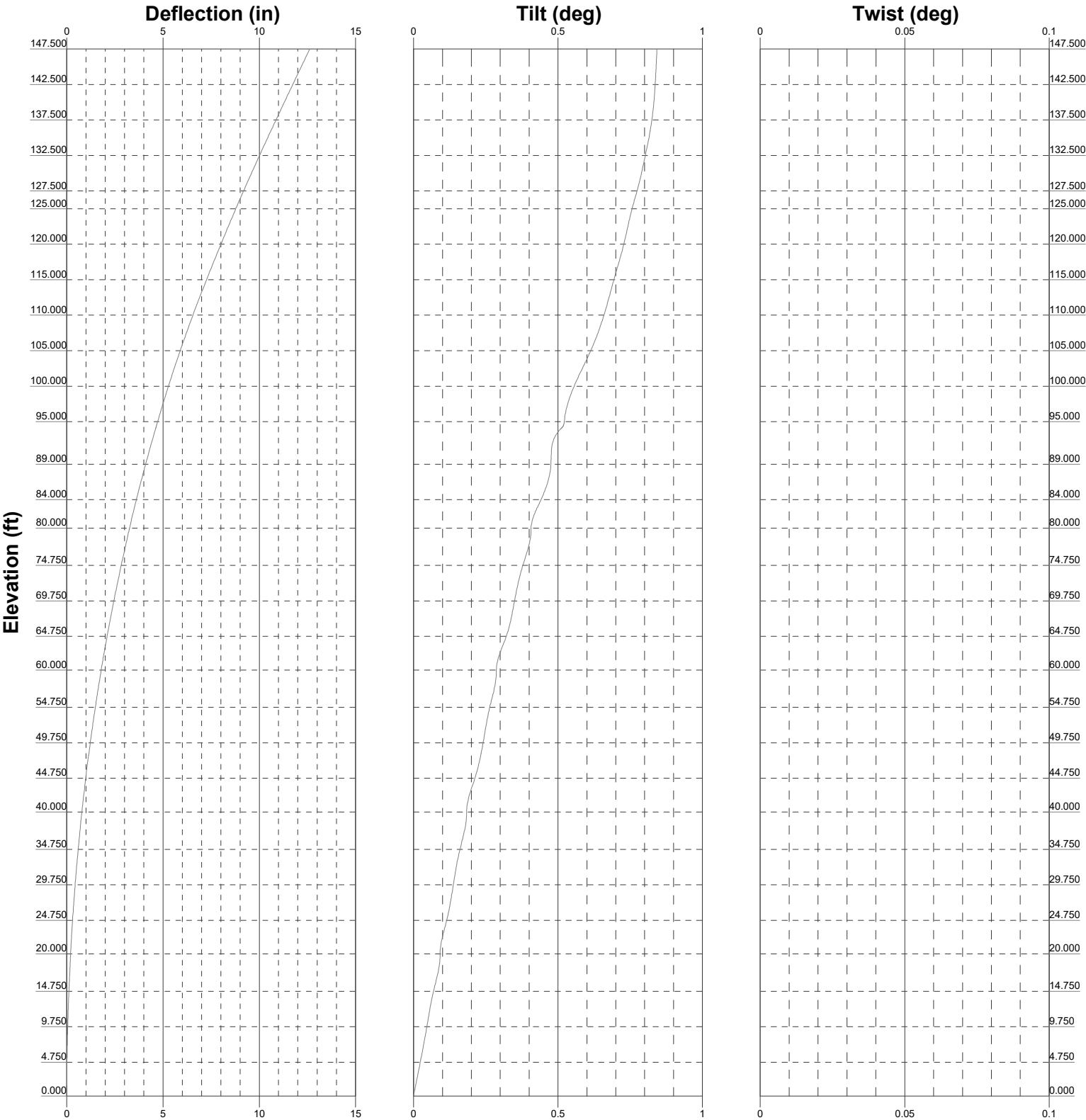
Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)





Feed Line Elevation Chart

0' - 147'6"

Round

Flat

App In Face

App Out Face

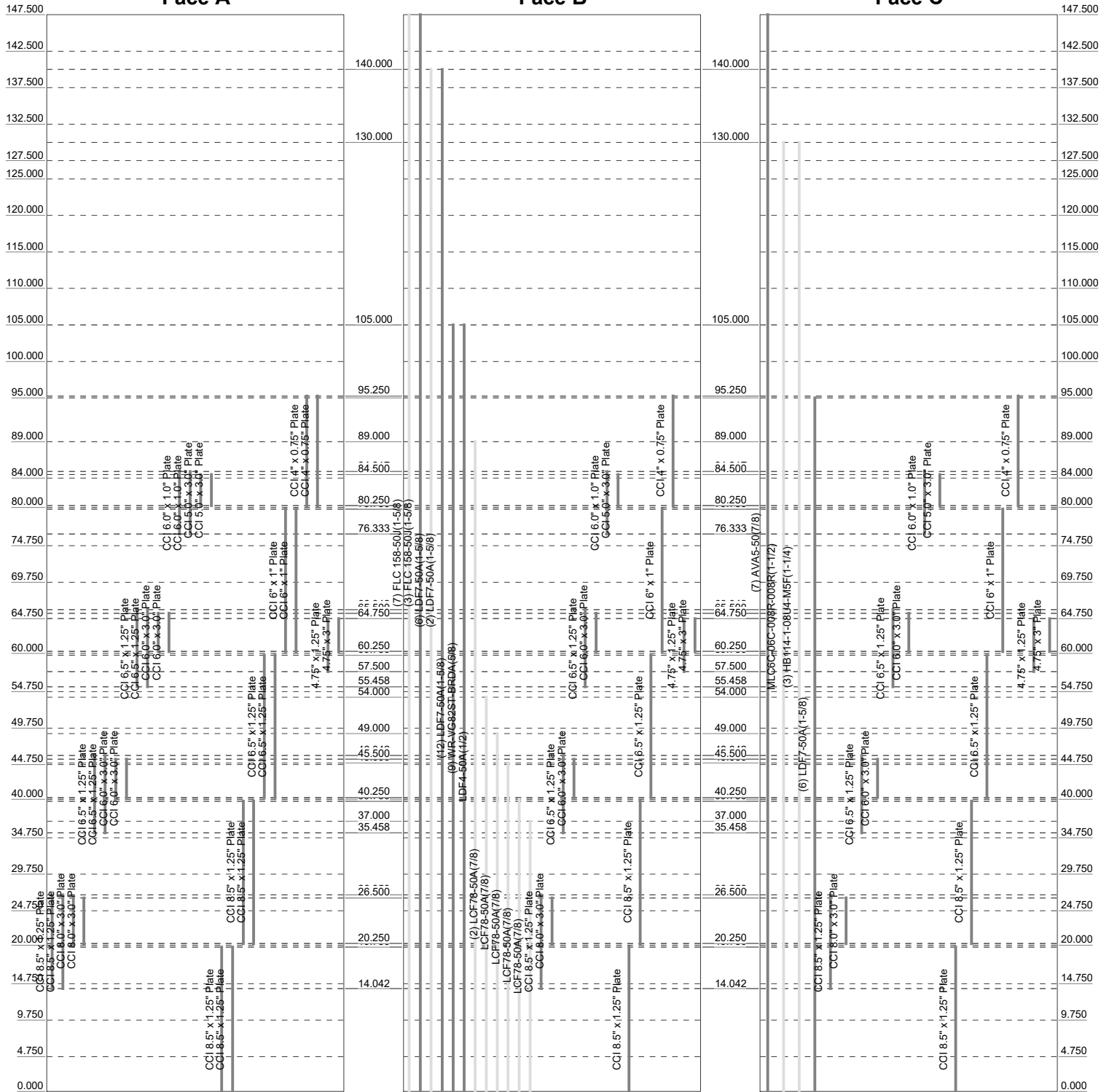
Truss Leg

Face A

Face B

Face C

Elevation (ft)



tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 140124.001.01 - Rocky Hill Rte 160_1, CT (BU# 827050)	Page 1 of 55
	Project	Date 12:02:24 12/03/19
	Client Crown Castle	Designed by Divakara

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower base elevation above sea level: 97.000 ft.

Basic wind speed of 125 mph.

Risk Category II.

Exposure Category C.

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

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 2.000 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.

TOWER RATING: 76.0%.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.05.

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

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

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

Options

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

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	140124.001.01 - Rocky Hill Rte 160_1, CT (BU# 827050)	2 of 55
	Project	Date
	Client	12:02:24 12/03/19
	Crown Castle	Designed by
		Divakara

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	147.500-142.500	5.000	P24x0.375	A53-B-42 (42 ksi)	
L2	142.500-137.500	5.000	P24x0.375	A53-B-42 (42 ksi)	
L3	137.500-132.500	5.000	P24x0.375	A53-B-42 (42 ksi)	
L4	132.500-127.500	5.000	P24x0.375	A53-B-42 (42 ksi)	
L5	127.500-125.000	2.500	P24x0.375	A53-B-42 (42 ksi)	
L6	125.000-120.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L7	120.000-115.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L8	115.000-110.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L9	110.000-105.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L10	105.000-100.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L11	100.000-95.000	5.000	P36x0.375	A53-B-42 (42 ksi)	
L12	95.000-94.250	0.750	P36x0.375	A53-B-42 (42 ksi)	
L13	94.250-94.000	0.250	P36x0.49375	A53-B-42 (42 ksi)	
L14	94.000-89.000	5.000	P36x0.49375	A53-B-42 (42 ksi)	
L15	89.000-84.000	5.000	P36x0.49375	A53-B-42 (42 ksi)	
L16	84.000-80.000	4.000	P36x0.49375	A53-B-42 (42 ksi)	
L17	80.000-79.750	0.250	P42x0.575	A53-B-42 (42 ksi)	
L18	79.750-74.750	5.000	P42x0.575	A53-B-42 (42 ksi)	
L19	74.750-69.750	5.000	P42x0.575	A53-B-42 (42 ksi)	
L20	69.750-64.750	5.000	P42x0.575	A53-B-42 (42 ksi)	
L21	64.750-60.000	4.750	P42x0.575	A53-B-42 (42 ksi)	
L22	60.000-59.750	0.250	P48x0.6125	A53-B-42 (42 ksi)	
L23	59.750-54.750	5.000	P48x0.6125	A53-B-42 (42 ksi)	
L24	54.750-49.750	5.000	P48x0.6125	A53-B-42 (42 ksi)	
L25	49.750-44.750	5.000	P48x0.6125	A53-B-42 (42 ksi)	
L26	44.750-40.000	4.750	P48x0.6125	A53-B-42 (42 ksi)	
L27	40.000-39.750	0.250	P54x0.65	A53-B-42 (42 ksi)	
L28	39.750-34.750	5.000	P54x0.65	A53-B-42 (42 ksi)	
L29	34.750-29.750	5.000	P54x0.65	A53-B-42 (42 ksi)	

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	Page
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	Project	Date
	Client	Designed by
	Crown Castle	Divakara

Section	Elevation	Section Length	Pole Size	Pole Grade	Socket Length
	ft	ft			ft
L30	29.750-24.750	5.000	P54x0.65	A53-B-42 (42 ksi)	
L31	24.750-20.000	4.750	P54x0.65	A53-B-42 (42 ksi)	
L32	20.000-19.750	0.250	P60x0.625	A53-B-42 (42 ksi)	
L33	19.750-14.750	5.000	P60x0.625	A53-B-42 (42 ksi)	
L34	14.750-9.750	5.000	P60x0.625	A53-B-42 (42 ksi)	
L35	9.750-4.750	5.000	P60x0.625	A53-B-42 (42 ksi)	
L36	4.750-0.000	4.750	P60x0.625	A53-B-42 (42 ksi)	

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
ft	ft ²	in							
L1				1	1	1			
147.500-142.500									
L2				1	1	1			
142.500-137.500									
L3				1	1	1			
137.500-132.500									
L4				1	1	1			
132.500-127.500									
L5				1	1	1			
127.500-125.000									
L6				1	1	1			
125.000-120.000									
L7				1	1	1			
120.000-115.000									
L8				1	1	1			
115.000-110.000									
L9				1	1	1			
110.000-105.000									
L10				1	1	1			
105.000-100.000									
L11				1	1	1			
100.000-95.000									
L12				1	1	1			
95.000-94.250									
L13				1	1	0.979915			
94.250-94.000									
L14				1	1	0.979915			

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	Project	Date
	Client	Designed by
	Crown Castle	Divakara

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
ft	ft ²	in							
94.000-89.000									
L15				1	1	0.979915			
89.000-84.000									
L16				1	1	0.979915			
84.000-80.000									
L17				1	1	0.976046			
80.000-79.750									
L18				1	1	0.976046			
79.750-74.750									
L19				1	1	0.976046			
74.750-69.750									
L20				1	1	0.976046			
69.750-64.750									
L21				1	1	0.976046			
64.750-60.000									
L22				1	1	0.971735			
60.000-59.750									
L23				1	1	0.971735			
59.750-54.750									
L24				1	1	0.971735			
54.750-49.750									
L25				1	1	0.971735			
49.750-44.750									
L26				1	1	0.971735			
44.750-40.000									
L27				1	1	0.970011			
40.000-39.750									
L28				1	1	0.970011			
39.750-34.750									
L29				1	1	0.970011			
34.750-29.750									
L30				1	1	0.970011			
29.750-24.750									
L31				1	1	0.970011			
24.750-20.000									
L32				1	1	0.967075			
20.000-19.750									
L33				1	1	0.967075			
19.750-14.750									
L34				1	1	0.967075			
14.750-9.750									
L35				1	1	0.967075			
9.750-4.750									
L36				1	1	0.967075			
4.750-0.000									

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
AVA5-50(7/8)	C	No	Surface Ar (CaAa)	147.500 - 0.000	7	7	0.250 0.320	1.102		0.000
FLC 158-50J(1-5/8)	B	No	Surface Ar	147.500 -	3	3	-0.350	2.015		0.001

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	140124.001.01 - Rocky Hill Rte 160_1, CT (BU# 827050)	5 of 55
	Project	Date
	Client	Designed by
	Crown Castle	Divakara

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
LDF7-50A(1-5/8)	B	No	(CaAa) Surface Ar (CaAa)	0.000 140.000 - 0.000	2	2	-0.300 0.050 0.100	1.980		0.001
*										
LDF7-50A(1-5/8)	B	No	(CaAa) Surface Ar (CaAa)	0.000 105.000 - 0.000	12	6	0.250 0.400 0.400	1.980		0.001
WR-VG82ST-BRDA(5/8)	B	No	(CaAa) Surface Ar (CaAa)	0.000 105.000 - 0.000	9	5	0.400 0.450 0.450	0.645		0.000
*										
LDF7-50A(1-5/8)	C	No	(CaAa) Surface Ar (CaAa)	0.000 95.000 - 0.000	6	6	-0.300 -0.100 -0.100	1.980		0.001
*										
CCI 8.5" x 1.25" Plate	A	No	(CaAa) Surface Af (CaAa)	26.958 - 14.042 14.042	1	1	0.000 0.030 0.030	8.500	19.500	0.036
CCI 8.5" x 1.25" Plate	A	No	(CaAa) Surface Af (CaAa)	26.958 - 14.042 14.042	1	1	0.000 0.030 0.030	8.500	19.500	0.036
CCI 8.5" x 1.25" Plate	B	No	(CaAa) Surface Af (CaAa)	26.958 - 14.042 14.042	1	1	0.000 0.030 0.030	8.500	19.500	0.036
CCI 8.5" x 1.25" Plate	C	No	(CaAa) Surface Af (CaAa)	26.958 - 14.042 14.042	1	1	0.000 0.030 0.030	8.500	19.500	0.036
*										
CCI 8.0" x 3.0" Plate	A	No	(CaAa) Surface Af (CaAa)	26.500 - 20.250 20.250	1	1	0.000 0.030 0.030	8.000	22.000	0.082
CCI 8.0" x 3.0" Plate	A	No	(CaAa) Surface Af (CaAa)	26.500 - 20.250 20.250	1	1	0.000 0.030 0.030	8.000	22.000	0.082
CCI 8.0" x 3.0" Plate	B	No	(CaAa) Surface Af (CaAa)	26.500 - 20.250 20.250	1	1	0.000 0.030 0.030	8.000	22.000	0.082
CCI 8.0" x 3.0" Plate	C	No	(CaAa) Surface Af (CaAa)	26.500 - 20.250 20.250	1	1	0.000 0.030 0.030	8.000	22.000	0.082
*										
CCI 6.5" x 1.25" Plate	A	No	(CaAa) Surface Af (CaAa)	46.042 - 35.458 35.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
CCI 6.5" x 1.25" Plate	A	No	(CaAa) Surface Af (CaAa)	46.042 - 35.458 35.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
CCI 6.5" x 1.25" Plate	B	No	(CaAa) Surface Af (CaAa)	46.042 - 35.458 35.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
CCI 6.5" x 1.25" Plate	C	No	(CaAa) Surface Af (CaAa)	46.042 - 35.458 35.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
*										
CCI 6.0" x 3.0" Plate	A	No	(CaAa) Surface Af (CaAa)	45.500 - 40.250 40.250	1	1	0.000 0.030 0.030	6.000	18.000	0.061
CCI 6.0" x 3.0" Plate	A	No	(CaAa) Surface Af (CaAa)	45.500 - 40.250 40.250	1	1	0.000 0.030 0.030	6.000	18.000	0.061
CCI 6.0" x 3.0" Plate	B	No	(CaAa) Surface Af (CaAa)	45.500 - 40.250 40.250	1	1	0.000 0.030 0.030	6.000	18.000	0.061
CCI 6.0" x 3.0" Plate	C	No	(CaAa) Surface Af (CaAa)	45.500 - 40.250 40.250	1	1	0.000 0.030 0.030	6.000	18.000	0.061
*										
CCI 6.5" x 1.25" Plate	A	No	(CaAa) Surface Af (CaAa)	66.042 - 55.458 55.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
CCI 6.5" x 1.25" Plate	A	No	(CaAa) Surface Af (CaAa)	66.042 - 55.458 55.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
CCI 6.5" x 1.25" Plate	B	No	(CaAa) Surface Af (CaAa)	66.042 - 55.458 55.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
CCI 6.5" x 1.25" Plate	C	No	(CaAa) Surface Af (CaAa)	66.042 - 55.458 55.458	1	1	0.000 0.030 0.030	6.500	15.500	0.028
*										
CCI 6.0" x 3.0" Plate	A	No	(CaAa) Surface Af (CaAa)	65.500 - 60.250 60.250	1	1	0.000 0.030 0.030	6.000	18.000	0.061
CCI 6.0" x 3.0" Plate	A	No	(CaAa) Surface Af (CaAa)	65.500 - 60.250 60.250	1	1	0.000 0.030 0.030	6.000	18.000	0.061

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	Client Crown Castle	Designed by Divakara

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	95.250 - 80.250	1	1	0.050 0.100	4.000	9.500	0.000
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	95.250 - 80.250	1	1	0.050 0.100	4.000	9.500	0.000
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	95.250 - 80.250	1	1	0.050 0.100	4.000	9.500	0.000
CCI 4" x 0.75" Plate	C	No	Surface Af (CaAa)	95.250 - 80.250	1	1	0.050 0.100	4.000	9.500	0.000
*										
4.75" x 1.25" Plate	A	No	Surface Af (CaAa)	64.750 - 57.500	1	1	0.000 0.030	4.750	12.000	0.020
4.75" x 1.25" Plate	B	No	Surface Af (CaAa)	64.750 - 57.500	1	1	0.000 0.030	4.750	12.000	0.020
4.75" x 1.25" Plate	C	No	Surface Af (CaAa)	64.750 - 57.500	1	1	0.000 0.030	4.750	12.000	0.020
*										
4.75" x 3" Plate	A	No	Surface Af (CaAa)	64.750 - 60.250	1	1	0.000 0.030	4.750	15.500	0.048
4.75" x 3" Plate	B	No	Surface Af (CaAa)	64.750 - 60.250	1	1	0.000 0.030	4.750	15.500	0.048
4.75" x 3" Plate	C	No	Surface Af (CaAa)	64.750 - 60.250	1	1	0.000 0.030	4.750	15.500	0.048

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
FLC 158-50J(1-5/8)	B	No	No	Inside Pole	147.500 - 0.000	7	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
*									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	140.000 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
*									
MLC6C-06C-008R-008R(1-1/2)	C	No	No	Inside Pole	130.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.002 0.002 0.002 0.002
HB114-1-08U4-M5 F(1-1/4)	C	No	No	Inside Pole	130.000 - 0.000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
*									
LDF4-50A(1/2)	B	No	No	Inside Pole	89.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
*									
LCF78-50A(7/8)	B	No	No	Inside Pole	54.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

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		Divakara

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
*									
LCF78-50A(7/8)	B	No	No	Inside Pole	49.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									
LCF78-50A(7/8)	B	No	No	Inside Pole	45.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									
LCF78-50A(7/8)	B	No	No	Inside Pole	40.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									
LCF78-50A(7/8)	B	No	No	Inside Pole	37.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	147.500-142.500	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	3.023	0.000	0.046
		C	0.000	0.000	3.857	0.000	0.011
L2	142.500-137.500	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	4.013	0.000	0.062
		C	0.000	0.000	3.857	0.000	0.011
L3	137.500-132.500	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	5.003	0.000	0.079
		C	0.000	0.000	3.857	0.000	0.011
L4	132.500-127.500	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	5.003	0.000	0.079
		C	0.000	0.000	3.857	0.000	0.022
L5	127.500-125.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	2.501	0.000	0.039
		C	0.000	0.000	1.929	0.000	0.017
L6	125.000-120.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	5.003	0.000	0.079
		C	0.000	0.000	3.857	0.000	0.034
L7	120.000-115.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	5.003	0.000	0.079
		C	0.000	0.000	3.857	0.000	0.034
L8	115.000-110.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	5.003	0.000	0.079
		C	0.000	0.000	3.857	0.000	0.034
L9	110.000-105.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	5.003	0.000	0.079
		C	0.000	0.000	3.857	0.000	0.034
L10	105.000-100.000	A	0.000	0.000	0.000	0.000	0.000

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<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face</i>	<i>A_R</i>	<i>A_F</i>	<i>C_AA_A In Face</i>	<i>C_AA_A Out Face</i>	<i>Weight K</i>
			ft ²	ft ²	ft ²	ft ²	
		B	0.000	0.000	12.555	0.000	0.142
		C	0.000	0.000	3.857	0.000	0.034
L11	100.000-95.000	A	0.000	0.000	0.333	0.000	0.000
		B	0.000	0.000	12.722	0.000	0.142
		C	0.000	0.000	4.024	0.000	0.034
L12	95.000-94.250	A	0.000	0.000	1.000	0.000	0.000
		B	0.000	0.000	2.383	0.000	0.021
		C	0.000	0.000	1.970	0.000	0.009
L13	94.250-94.000	A	0.000	0.000	0.333	0.000	0.000
		B	0.000	0.000	0.794	0.000	0.007
		C	0.000	0.000	0.657	0.000	0.003
L14	94.000-89.000	A	0.000	0.000	6.667	0.000	0.000
		B	0.000	0.000	15.888	0.000	0.142
		C	0.000	0.000	13.130	0.000	0.059
L15	89.000-84.000	A	0.000	0.000	8.861	0.000	0.088
		B	0.000	0.000	16.986	0.000	0.187
		C	0.000	0.000	14.228	0.000	0.103
L16	84.000-80.000	A	0.000	0.000	16.481	0.000	0.546
		B	0.000	0.000	18.285	0.000	0.387
		C	0.000	0.000	16.078	0.000	0.320
L17	80.000-79.750	A	0.000	0.000	0.433	0.000	0.010
		B	0.000	0.000	0.844	0.000	0.012
		C	0.000	0.000	0.706	0.000	0.008
L18	79.750-74.750	A	0.000	0.000	15.914	0.000	0.139
		B	0.000	0.000	20.512	0.000	0.212
		C	0.000	0.000	17.754	0.000	0.129
L19	74.750-69.750	A	0.000	0.000	10.000	0.000	0.000
		B	0.000	0.000	17.555	0.000	0.143
		C	0.000	0.000	14.797	0.000	0.059
L20	69.750-64.750	A	0.000	0.000	13.637	0.000	0.163
		B	0.000	0.000	19.374	0.000	0.224
		C	0.000	0.000	16.616	0.000	0.141
L21	64.750-60.000	A	0.000	0.000	30.906	0.000	1.128
		B	0.000	0.000	30.356	0.000	0.857
		C	0.000	0.000	27.736	0.000	0.777
L22	60.000-59.750	A	0.000	0.000	0.663	0.000	0.019
		B	0.000	0.000	1.046	0.000	0.019
		C	0.000	0.000	0.908	0.000	0.015
L23	59.750-54.750	A	0.000	0.000	20.796	0.000	0.283
		B	0.000	0.000	23.735	0.000	0.307
		C	0.000	0.000	20.977	0.000	0.223
L24	54.750-49.750	A	0.000	0.000	10.833	0.000	0.000
		B	0.000	0.000	17.972	0.000	0.145
		C	0.000	0.000	15.214	0.000	0.059
L25	49.750-44.750	A	0.000	0.000	14.470	0.000	0.163
		B	0.000	0.000	19.790	0.000	0.229
		C	0.000	0.000	17.032	0.000	0.141
L26	44.750-40.000	A	0.000	0.000	25.703	0.000	0.814
		B	0.000	0.000	24.779	0.000	0.549
		C	0.000	0.000	22.159	0.000	0.463
L27	40.000-39.750	A	0.000	0.000	0.489	0.000	0.014
		B	0.000	0.000	0.872	0.000	0.014
		C	0.000	0.000	0.734	0.000	0.010
L28	39.750-34.750	A	0.000	0.000	22.564	0.000	0.237
		B	0.000	0.000	23.837	0.000	0.270
		C	0.000	0.000	21.079	0.000	0.178
L29	34.750-29.750	A	0.000	0.000	14.167	0.000	0.000
		B	0.000	0.000	19.638	0.000	0.153
		C	0.000	0.000	16.880	0.000	0.059
L30	29.750-24.750	A	0.000	0.000	23.103	0.000	0.446
		B	0.000	0.000	24.106	0.000	0.376

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<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face</i>	<i>A_R</i>	<i>A_F</i>	<i>C_AA_A In Face</i>	<i>C_AA_A Out Face</i>	<i>Weight</i>
			<i>ft²</i>	<i>ft²</i>	<i>ft²</i>	<i>ft²</i>	<i>K</i>
L31	24.750-20.000	C	0.000	0.000	21.348	0.000	0.282
		A	0.000	0.000	33.403	0.000	1.079
		B	0.000	0.000	28.629	0.000	0.684
L32	20.000-19.750	C	0.000	0.000	26.009	0.000	0.595
		A	0.000	0.000	0.626	0.000	0.018
		B	0.000	0.000	0.941	0.000	0.017
L33	19.750-14.750	C	0.000	0.000	0.803	0.000	0.012
		A	0.000	0.000	26.690	0.000	0.362
		B	0.000	0.000	25.900	0.000	0.334
L34	14.750-9.750	C	0.000	0.000	23.142	0.000	0.240
		A	0.000	0.000	15.941	0.000	0.051
		B	0.000	0.000	20.525	0.000	0.178
L35	9.750-4.750	C	0.000	0.000	17.767	0.000	0.085
		A	0.000	0.000	14.167	0.000	0.000
		B	0.000	0.000	19.638	0.000	0.153
L36	4.750-0.000	C	0.000	0.000	16.880	0.000	0.059
		A	0.000	0.000	13.458	0.000	0.000
		B	0.000	0.000	18.656	0.000	0.145
		C	0.000	0.000	16.036	0.000	0.056

Feed Line/Linear Appurtenances Section Areas - With Ice

<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face or Leg</i>	<i>Ice Thickness in</i>	<i>A_R</i>	<i>A_F</i>	<i>C_AA_A In Face</i>	<i>C_AA_A Out Face</i>	<i>Weight</i>
				<i>ft²</i>	<i>ft²</i>	<i>ft²</i>	<i>ft²</i>	<i>K</i>
L1	147.500-142.500	A	1.971	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	6.242	0.000	0.128
		C		0.000	0.000	7.285	0.000	0.101
L2	142.500-137.500	A	1.964	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	8.699	0.000	0.176
		C		0.000	0.000	7.277	0.000	0.101
L3	137.500-132.500	A	1.957	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	11.146	0.000	0.224
		C		0.000	0.000	7.268	0.000	0.100
L4	132.500-127.500	A	1.950	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	11.128	0.000	0.223
		C		0.000	0.000	7.259	0.000	0.112
L5	127.500-125.000	A	1.944	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	5.557	0.000	0.111
		C		0.000	0.000	3.626	0.000	0.062
L6	125.000-120.000	A	1.938	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	11.099	0.000	0.222
		C		0.000	0.000	7.244	0.000	0.123
L7	120.000-115.000	A	1.930	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	11.079	0.000	0.222
		C		0.000	0.000	7.234	0.000	0.123
L8	115.000-110.000	A	1.922	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	11.058	0.000	0.221
		C		0.000	0.000	7.224	0.000	0.122
L9	110.000-105.000	A	1.913	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	11.036	0.000	0.220
		C		0.000	0.000	7.213	0.000	0.122
L10	105.000-100.000	A	1.904	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	25.214	0.000	0.487
		C		0.000	0.000	7.201	0.000	0.121
L11	100.000-95.000	A	1.895	0.000	0.000	0.517	0.000	0.006
		B		0.000	0.000	25.425	0.000	0.488
		C		0.000	0.000	7.448	0.000	0.124

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	Crown Castle	Divakara

<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face or Leg</i>	<i>Ice Thickness in</i>	<i>A_R ft²</i>	<i>A_F ft²</i>	<i>C_AA_A In Face ft²</i>	<i>C_AA_A Out Face ft²</i>	<i>Weight K</i>
L12	95.000-94.250	A	1.889	0.000	0.000	1.550	0.000	0.018
		B		0.000	0.000	4.546	0.000	0.082
		C		0.000	0.000	3.320	0.000	0.050
L13	94.250-94.000	A	1.888	0.000	0.000	0.517	0.000	0.006
		B		0.000	0.000	1.515	0.000	0.027
		C		0.000	0.000	1.107	0.000	0.017
L14	94.000-89.000	A	1.883	0.000	0.000	10.324	0.000	0.122
		B		0.000	0.000	30.268	0.000	0.543
		C		0.000	0.000	22.115	0.000	0.331
L15	89.000-84.000	A	1.872	0.000	0.000	13.073	0.000	0.254
		B		0.000	0.000	31.590	0.000	0.608
		C		0.000	0.000	23.463	0.000	0.395
L16	84.000-80.000	A	1.862	0.000	0.000	22.321	0.000	0.883
		B		0.000	0.000	31.163	0.000	0.824
		C		0.000	0.000	24.681	0.000	0.655
L17	80.000-79.750	A	1.857	0.000	0.000	0.532	0.000	0.018
		B		0.000	0.000	1.515	0.000	0.033
		C		0.000	0.000	1.110	0.000	0.022
L18	79.750-74.750	A	1.851	0.000	0.000	20.913	0.000	0.394
		B		0.000	0.000	35.405	0.000	0.673
		C		0.000	0.000	27.330	0.000	0.463
L19	74.750-69.750	A	1.839	0.000	0.000	13.633	0.000	0.150
		B		0.000	0.000	31.703	0.000	0.548
		C		0.000	0.000	23.659	0.000	0.339
L20	69.750-64.750	A	1.825	0.000	0.000	18.053	0.000	0.379
		B		0.000	0.000	33.847	0.000	0.660
		C		0.000	0.000	25.836	0.000	0.452
L21	64.750-60.000	A	1.812	0.000	0.000	39.598	0.000	1.702
		B		0.000	0.000	47.204	0.000	1.519
		C		0.000	0.000	39.626	0.000	1.323
L22	60.000-59.750	A	1.804	0.000	0.000	0.807	0.000	0.030
		B		0.000	0.000	1.750	0.000	0.042
		C		0.000	0.000	1.352	0.000	0.032
L23	59.750-54.750	A	1.796	0.000	0.000	26.342	0.000	0.602
		B		0.000	0.000	38.844	0.000	0.803
		C		0.000	0.000	30.906	0.000	0.597
L24	54.750-49.750	A	1.780	0.000	0.000	14.284	0.000	0.154
		B		0.000	0.000	31.735	0.000	0.541
		C		0.000	0.000	23.838	0.000	0.334
L25	49.750-44.750	A	1.762	0.000	0.000	18.668	0.000	0.380
		B		0.000	0.000	33.838	0.000	0.652
		C		0.000	0.000	25.986	0.000	0.444
L26	44.750-40.000	A	1.743	0.000	0.000	32.253	0.000	1.241
		B		0.000	0.000	39.315	0.000	1.058
		C		0.000	0.000	31.900	0.000	0.860
L27	40.000-39.750	A	1.732	0.000	0.000	0.581	0.000	0.021
		B		0.000	0.000	1.508	0.000	0.034
		C		0.000	0.000	1.120	0.000	0.023
L28	39.750-34.750	A	1.721	0.000	0.000	26.463	0.000	0.538
		B		0.000	0.000	37.529	0.000	0.727
		C		0.000	0.000	29.779	0.000	0.518
L29	34.750-29.750	A	1.696	0.000	0.000	16.470	0.000	0.171
		B		0.000	0.000	32.409	0.000	0.540
		C		0.000	0.000	24.722	0.000	0.332
L30	29.750-24.750	A	1.668	0.000	0.000	26.810	0.000	0.751
		B		0.000	0.000	37.438	0.000	0.824
		C		0.000	0.000	29.821	0.000	0.618
L31	24.750-20.000	A	1.635	0.000	0.000	38.709	0.000	1.542
		B		0.000	0.000	42.031	0.000	1.191
		C		0.000	0.000	34.872	0.000	0.998
L32	20.000-19.750	A	1.616	0.000	0.000	0.713	0.000	0.026

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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
L33	19.750-14.750	B	1.593	0.000	0.000	1.545	0.000	0.035
		C		0.000	0.000	1.171	0.000	0.025
		A		0.000	0.000	30.677	0.000	0.678
		B		0.000	0.000	38.998	0.000	0.772
L34	14.750-9.750	C	1.540	0.000	0.000	31.568	0.000	0.572
		A		0.000	0.000	18.401	0.000	0.224
		B		0.000	0.000	32.592	0.000	0.535
		C		0.000	0.000	25.296	0.000	0.339
L35	9.750-4.750	A	1.461	0.000	0.000	16.314	0.000	0.142
		B		0.000	0.000	31.155	0.000	0.478
		C		0.000	0.000	24.055	0.000	0.289
		A		0.000	0.000	15.349	0.000	0.118
L36	4.750-0.000	B	1.307	0.000	0.000	28.790	0.000	0.418
		C		0.000	0.000	22.412	0.000	0.249
		A		0.000	0.000	15.349	0.000	0.118
		B		0.000	0.000	28.790	0.000	0.418

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	147.500-142.500	-1.019	0.259	-0.649	-0.005
L2	142.500-137.500	-0.080	-0.092	0.197	-0.301
L3	137.500-132.500	0.733	-0.396	0.873	-0.537
L4	132.500-127.500	0.733	-0.396	0.872	-0.537
L5	127.500-125.000	0.733	-0.396	0.871	-0.536
L6	125.000-120.000	0.806	-0.422	0.992	-0.603
L7	120.000-115.000	0.806	-0.422	0.991	-0.602
L8	115.000-110.000	0.806	-0.422	0.990	-0.601
L9	110.000-105.000	0.806	-0.422	0.988	-0.600
L10	105.000-100.000	5.387	0.708	4.141	0.355
L11	100.000-95.000	5.870	0.708	4.561	0.352
L12	95.000-94.250	3.609	1.729	3.232	1.238
L13	94.250-94.000	3.609	1.729	3.232	1.238
L14	94.000-89.000	3.609	1.729	3.232	1.239
L15	89.000-84.000	2.943	1.348	2.866	1.044
L16	84.000-80.000	0.655	0.085	1.374	0.261
L17	80.000-79.750	3.171	1.833	3.404	1.563
L18	79.750-74.750	1.479	0.388	2.287	0.602
L19	74.750-69.750	3.086	1.206	3.171	1.068
L20	69.750-64.750	1.860	0.600	2.597	0.767
L21	64.750-60.000	0.122	-0.283	0.940	-0.002
L22	60.000-59.750	2.212	1.273	3.162	1.445
L23	59.750-54.750	1.023	0.087	2.020	0.416
L24	54.750-49.750	3.184	1.158	3.381	1.105
L25	49.750-44.750	2.221	0.630	2.766	0.782
L26	44.750-40.000	0.081	-0.448	1.150	-0.050
L27	40.000-39.750	3.408	1.971	3.843	1.775
L28	39.750-34.750	0.745	-0.270	2.057	0.293
L29	34.750-29.750	2.611	0.598	3.341	0.967
L30	29.750-24.750	0.658	-0.318	1.977	0.257
L31	24.750-20.000	-0.652	-1.001	0.657	-0.410
L32	20.000-19.750	2.777	1.566	3.614	1.636
L33	19.750-14.750	0.232	-0.597	1.667	0.038
L34	14.750-9.750	2.341	0.394	3.214	0.858
L35	9.750-4.750	2.813	0.644	3.502	1.022
L36	4.750-0.000	2.813	0.644	3.442	1.013

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

Shielding Factor Ka

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L1	1	AVA5-50(7/8)	142.50 - 147.50	1.0000	1.0000
L1	3	FLC 158-50J(1-5/8)	142.50 - 147.50	1.0000	1.0000
L2	1	AVA5-50(7/8)	137.50 - 142.50	1.0000	1.0000
L2	3	FLC 158-50J(1-5/8)	137.50 - 142.50	1.0000	1.0000
L2	7	LDF7-50A(1-5/8)	137.50 - 140.00	1.0000	1.0000
L3	1	AVA5-50(7/8)	132.50 - 137.50	1.0000	1.0000
L3	3	FLC 158-50J(1-5/8)	132.50 - 137.50	1.0000	1.0000
L3	7	LDF7-50A(1-5/8)	132.50 - 137.50	1.0000	1.0000
L4	1	AVA5-50(7/8)	127.50 - 132.50	1.0000	1.0000
L4	3	FLC 158-50J(1-5/8)	127.50 - 132.50	1.0000	1.0000
L4	7	LDF7-50A(1-5/8)	127.50 - 132.50	1.0000	1.0000
L5	1	AVA5-50(7/8)	125.00 - 127.50	1.0000	1.0000
L5	3	FLC 158-50J(1-5/8)	125.00 - 127.50	1.0000	1.0000
L5	7	LDF7-50A(1-5/8)	125.00 - 127.50	1.0000	1.0000
L6	1	AVA5-50(7/8)	120.00 - 125.00	1.0000	1.0000
L6	3	FLC 158-50J(1-5/8)	120.00 - 125.00	1.0000	1.0000
L6	7	LDF7-50A(1-5/8)	120.00 - 125.00	1.0000	1.0000
L7	1	AVA5-50(7/8)	115.00 - 120.00	1.0000	1.0000
L7	3	FLC 158-50J(1-5/8)	115.00 - 120.00	1.0000	1.0000
L7	7	LDF7-50A(1-5/8)	115.00 - 120.00	1.0000	1.0000
L8	1	AVA5-50(7/8)	110.00 - 115.00	1.0000	1.0000
L8	3	FLC 158-50J(1-5/8)	110.00 - 115.00	1.0000	1.0000
L8	7	LDF7-50A(1-5/8)	110.00 - 115.00	1.0000	1.0000
L9	1	AVA5-50(7/8)	105.00 - 110.00	1.0000	1.0000
L9	3	FLC 158-50J(1-5/8)	105.00 - 110.00	1.0000	1.0000

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<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L9	7	LDF7-50A(1-5/8)	105.00 - 110.00	1.0000	1.0000
L10	1	AVA5-50(7/8)	100.00 - 105.00	1.0000	1.0000
L10	3	FLC 158-50J(1-5/8)	100.00 - 105.00	1.0000	1.0000
L10	7	LDF7-50A(1-5/8)	100.00 - 105.00	1.0000	1.0000
L10	12	LDF7-50A(1-5/8)	100.00 - 105.00	1.0000	1.0000
L10	13	WR-VG82ST-BRDA(5/8)	100.00 - 105.00	1.0000	1.0000
L11	1	AVA5-50(7/8)	95.00 - 100.00	1.0000	1.0000
L11	3	FLC 158-50J(1-5/8)	95.00 - 100.00	1.0000	1.0000
L11	7	LDF7-50A(1-5/8)	95.00 - 100.00	1.0000	1.0000
L11	12	LDF7-50A(1-5/8)	95.00 - 100.00	1.0000	1.0000
L11	13	WR-VG82ST-BRDA(5/8)	95.00 - 100.00	1.0000	1.0000
L11	90	CCI 4" x 0.75" Plate	95.00 - 95.25	1.0000	1.0000
L11	91	CCI 4" x 0.75" Plate	95.00 - 95.25	1.0000	1.0000
L11	92	CCI 4" x 0.75" Plate	95.00 - 95.25	1.0000	1.0000
L11	93	CCI 4" x 0.75" Plate	95.00 - 95.25	1.0000	1.0000
L12	1	AVA5-50(7/8)	94.25 - 95.00	1.0000	1.0000
L12	3	FLC 158-50J(1-5/8)	94.25 - 95.00	1.0000	1.0000
L12	7	LDF7-50A(1-5/8)	94.25 - 95.00	1.0000	1.0000
L12	12	LDF7-50A(1-5/8)	94.25 - 95.00	1.0000	1.0000
L12	13	WR-VG82ST-BRDA(5/8)	94.25 - 95.00	1.0000	1.0000
L12	16	LDF7-50A(1-5/8)	94.25 - 95.00	1.0000	1.0000
L12	90	CCI 4" x 0.75" Plate	94.25 - 95.00	1.0000	1.0000
L12	91	CCI 4" x 0.75" Plate	94.25 - 95.00	1.0000	1.0000
L12	92	CCI 4" x 0.75" Plate	94.25 - 95.00	1.0000	1.0000
L12	93	CCI 4" x 0.75" Plate	94.25 - 95.00	1.0000	1.0000
L13	1	AVA5-50(7/8)	94.00 - 94.25	1.0000	1.0000
L13	3	FLC 158-50J(1-5/8)	94.00 - 94.25	1.0000	1.0000
L13	7	LDF7-50A(1-5/8)	94.00 - 94.25	1.0000	1.0000
L13	12	LDF7-50A(1-5/8)	94.00 - 94.25	1.0000	1.0000
L13	13	WR-VG82ST-BRDA(5/8)	94.00 - 94.25	1.0000	1.0000
L13	16	LDF7-50A(1-5/8)	94.00 - 94.25	1.0000	1.0000
L13	90	CCI 4" x 0.75" Plate	94.00 - 94.25	1.0000	1.0000
L13	91	CCI 4" x 0.75" Plate	94.00 - 94.25	1.0000	1.0000
L13	92	CCI 4" x 0.75" Plate	94.00 - 94.25	1.0000	1.0000
L13	93	CCI 4" x 0.75" Plate	94.00 - 94.25	1.0000	1.0000
L14	1	AVA5-50(7/8)	89.00 - 94.00	1.0000	1.0000
L14	3	FLC 158-50J(1-5/8)	89.00 - 94.00	1.0000	1.0000
L14	7	LDF7-50A(1-5/8)	89.00 - 94.00	1.0000	1.0000
L14	12	LDF7-50A(1-5/8)	89.00 - 94.00	1.0000	1.0000
L14	13	WR-VG82ST-BRDA(5/8)	89.00 - 94.00	1.0000	1.0000
L14	16	LDF7-50A(1-5/8)	89.00 - 94.00	1.0000	1.0000
L14	90	CCI 4" x 0.75" Plate	89.00 - 94.00	1.0000	1.0000
L14	91	CCI 4" x 0.75" Plate	89.00 - 94.00	1.0000	1.0000
L14	92	CCI 4" x 0.75" Plate	89.00 - 94.00	1.0000	1.0000
L14	93	CCI 4" x 0.75" Plate	89.00 - 94.00	1.0000	1.0000
L15	1	AVA5-50(7/8)	84.00 - 89.00	1.0000	1.0000
L15	3	FLC 158-50J(1-5/8)	84.00 - 89.00	1.0000	1.0000
L15	7	LDF7-50A(1-5/8)	84.00 - 89.00	1.0000	1.0000
L15	12	LDF7-50A(1-5/8)	84.00 - 89.00	1.0000	1.0000
L15	13	WR-VG82ST-BRDA(5/8)	84.00 - 89.00	1.0000	1.0000
L15	16	LDF7-50A(1-5/8)	84.00 - 89.00	1.0000	1.0000
L15	60	CCI 6.0" x 1.0" Plate	84.00 - 84.92	1.0000	1.0000
L15	61	CCI 6.0" x 1.0" Plate	84.00 - 84.92	1.0000	1.0000
L15	62	CCI 6.0" x 1.0" Plate	84.00 - 84.92	1.0000	1.0000
L15	63	CCI 6.0" x 1.0" Plate	84.00 - 84.92	1.0000	1.0000
L15	65	CCI 5.0" x 3.0" Plate	84.00 - 84.50	1.0000	1.0000

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<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L15	66	CCI 5.0" x 3.0" Plate	84.00 - 84.50	1.0000	1.0000
L15	67	CCI 5.0" x 3.0" Plate	84.00 - 84.50	1.0000	1.0000
L15	68	CCI 5.0" x 3.0" Plate	84.00 - 84.50	1.0000	1.0000
L15	90	CCI 4" x 0.75" Plate	84.00 - 89.00	1.0000	1.0000
L15	91	CCI 4" x 0.75" Plate	84.00 - 89.00	1.0000	1.0000
L15	92	CCI 4" x 0.75" Plate	84.00 - 89.00	1.0000	1.0000
L15	93	CCI 4" x 0.75" Plate	84.00 - 89.00	1.0000	1.0000
L16	1	AVA5-50(7/8)	80.00 - 84.00	1.0000	1.0000
L16	3	FLC 158-50J(1-5/8)	80.00 - 84.00	1.0000	1.0000
L16	7	LDF7-50A(1-5/8)	80.00 - 84.00	1.0000	1.0000
L16	12	LDF7-50A(1-5/8)	80.00 - 84.00	1.0000	1.0000
L16	13	WR-VG82ST-BRDA(5/8)	80.00 - 84.00	1.0000	1.0000
L16	16	LDF7-50A(1-5/8)	80.00 - 84.00	1.0000	1.0000
L16	60	CCI 6.0" x 1.0" Plate	80.00 - 84.00	1.0000	1.0000
L16	61	CCI 6.0" x 1.0" Plate	80.00 - 84.00	1.0000	1.0000
L16	62	CCI 6.0" x 1.0" Plate	80.00 - 84.00	1.0000	1.0000
L16	63	CCI 6.0" x 1.0" Plate	80.00 - 84.00	1.0000	1.0000
L16	65	CCI 5.0" x 3.0" Plate	80.25 - 84.00	1.0000	1.0000
L16	66	CCI 5.0" x 3.0" Plate	80.25 - 84.00	1.0000	1.0000
L16	67	CCI 5.0" x 3.0" Plate	80.25 - 84.00	1.0000	1.0000
L16	68	CCI 5.0" x 3.0" Plate	80.25 - 84.00	1.0000	1.0000
L16	90	CCI 4" x 0.75" Plate	80.25 - 84.00	1.0000	1.0000
L16	91	CCI 4" x 0.75" Plate	80.25 - 84.00	1.0000	1.0000
L16	92	CCI 4" x 0.75" Plate	80.25 - 84.00	1.0000	1.0000
L16	93	CCI 4" x 0.75" Plate	80.25 - 84.00	1.0000	1.0000
L17	1	AVA5-50(7/8)	79.75 - 80.00	1.0000	1.0000
L17	3	FLC 158-50J(1-5/8)	79.75 - 80.00	1.0000	1.0000
L17	7	LDF7-50A(1-5/8)	79.75 - 80.00	1.0000	1.0000
L17	12	LDF7-50A(1-5/8)	79.75 - 80.00	1.0000	1.0000
L17	13	WR-VG82ST-BRDA(5/8)	79.75 - 80.00	1.0000	1.0000
L17	16	LDF7-50A(1-5/8)	79.75 - 80.00	1.0000	1.0000
L17	60	CCI 6.0" x 1.0" Plate	79.75 - 80.00	1.0000	1.0000
L17	61	CCI 6.0" x 1.0" Plate	79.75 - 80.00	1.0000	1.0000
L17	62	CCI 6.0" x 1.0" Plate	79.75 - 80.00	1.0000	1.0000
L17	63	CCI 6.0" x 1.0" Plate	79.75 - 80.00	1.0000	1.0000
L18	1	AVA5-50(7/8)	74.75 - 79.75	1.0000	1.0000
L18	3	FLC 158-50J(1-5/8)	74.75 - 79.75	1.0000	1.0000
L18	7	LDF7-50A(1-5/8)	74.75 - 79.75	1.0000	1.0000
L18	12	LDF7-50A(1-5/8)	74.75 - 79.75	1.0000	1.0000
L18	13	WR-VG82ST-BRDA(5/8)	74.75 - 79.75	1.0000	1.0000
L18	16	LDF7-50A(1-5/8)	74.75 - 79.75	1.0000	1.0000
L18	60	CCI 6.0" x 1.0" Plate	76.33 - 79.75	1.0000	1.0000
L18	61	CCI 6.0" x 1.0" Plate	76.33 - 79.75	1.0000	1.0000
L18	62	CCI 6.0" x 1.0" Plate	76.33 - 79.75	1.0000	1.0000
L18	63	CCI 6.0" x 1.0" Plate	76.33 - 79.75	1.0000	1.0000
L18	85	CCI 6" x 1" Plate	74.75 - 79.75	1.0000	1.0000
L18	86	CCI 6" x 1" Plate	74.75 - 79.75	1.0000	1.0000
L18	87	CCI 6" x 1" Plate	74.75 - 79.75	1.0000	1.0000
L18	88	CCI 6" x 1" Plate	74.75 - 79.75	1.0000	1.0000
L19	1	AVA5-50(7/8)	69.75 - 74.75	1.0000	1.0000
L19	3	FLC 158-50J(1-5/8)	69.75 - 74.75	1.0000	1.0000
L19	7	LDF7-50A(1-5/8)	69.75 - 74.75	1.0000	1.0000
L19	12	LDF7-50A(1-5/8)	69.75 - 74.75	1.0000	1.0000
L19	13	WR-VG82ST-BRDA(5/8)	69.75 - 74.75	1.0000	1.0000
L19	16	LDF7-50A(1-5/8)	69.75 - 74.75	1.0000	1.0000
L19	85	CCI 6" x 1" Plate	69.75 - 74.75	1.0000	1.0000
L19	86	CCI 6" x 1" Plate	69.75 - 74.75	1.0000	1.0000
L19	87	CCI 6" x 1" Plate	69.75 - 74.75	1.0000	1.0000
L19	88	CCI 6" x 1" Plate	69.75 - 74.75	1.0000	1.0000
L20	1	AVA5-50(7/8)	64.75 - 69.75	1.0000	1.0000
L20	3	FLC 158-50J(1-5/8)	64.75 - 69.75	1.0000	1.0000
L20	7	LDF7-50A(1-5/8)	64.75 - 69.75	1.0000	1.0000

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<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L20	12	LDF7-50A(1-5/8)	64.75 - 69.75	1.0000	1.0000
L20	13	WR-VG82ST-BRDA(5/8)	64.75 - 69.75	1.0000	1.0000
L20	16	LDF7-50A(1-5/8)	64.75 - 69.75	1.0000	1.0000
L20	50	CCI 6.5" x 1.25" Plate	64.75 - 66.04	1.0000	1.0000
L20	51	CCI 6.5" x 1.25" Plate	64.75 - 66.04	1.0000	1.0000
L20	52	CCI 6.5" x 1.25" Plate	64.75 - 66.04	1.0000	1.0000
L20	53	CCI 6.5" x 1.25" Plate	64.75 - 66.04	1.0000	1.0000
L20	55	CCI 6.0" x 3.0" Plate	64.75 - 65.50	1.0000	1.0000
L20	56	CCI 6.0" x 3.0" Plate	64.75 - 65.50	1.0000	1.0000
L20	57	CCI 6.0" x 3.0" Plate	64.75 - 65.50	1.0000	1.0000
L20	58	CCI 6.0" x 3.0" Plate	64.75 - 65.50	1.0000	1.0000
L20	85	CCI 6" x 1" Plate	64.75 - 69.75	1.0000	1.0000
L20	86	CCI 6" x 1" Plate	64.75 - 69.75	1.0000	1.0000
L20	87	CCI 6" x 1" Plate	64.75 - 69.75	1.0000	1.0000
L20	88	CCI 6" x 1" Plate	64.75 - 69.75	1.0000	1.0000
L21	1	AVA5-50(7/8)	60.00 - 64.75	1.0000	1.0000
L21	3	FLC 158-50J(1-5/8)	60.00 - 64.75	1.0000	1.0000
L21	7	LDF7-50A(1-5/8)	60.00 - 64.75	1.0000	1.0000
L21	12	LDF7-50A(1-5/8)	60.00 - 64.75	1.0000	1.0000
L21	13	WR-VG82ST-BRDA(5/8)	60.00 - 64.75	1.0000	1.0000
L21	16	LDF7-50A(1-5/8)	60.00 - 64.75	1.0000	1.0000
L21	50	CCI 6.5" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	51	CCI 6.5" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	52	CCI 6.5" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	53	CCI 6.5" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	55	CCI 6.0" x 3.0" Plate	60.25 - 64.75	1.0000	1.0000
L21	56	CCI 6.0" x 3.0" Plate	60.25 - 64.75	1.0000	1.0000
L21	57	CCI 6.0" x 3.0" Plate	60.25 - 64.75	1.0000	1.0000
L21	58	CCI 6.0" x 3.0" Plate	60.25 - 64.75	1.0000	1.0000
L21	85	CCI 6" x 1" Plate	60.25 - 64.75	1.0000	1.0000
L21	86	CCI 6" x 1" Plate	60.25 - 64.75	1.0000	1.0000
L21	87	CCI 6" x 1" Plate	60.25 - 64.75	1.0000	1.0000
L21	88	CCI 6" x 1" Plate	60.25 - 64.75	1.0000	1.0000
L21	95	4.75" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	96	4.75" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	97	4.75" x 1.25" Plate	60.00 - 64.75	1.0000	1.0000
L21	99	4.75" x 3" Plate	60.25 - 64.75	1.0000	1.0000
L21	100	4.75" x 3" Plate	60.25 - 64.75	1.0000	1.0000
L21	101	4.75" x 3" Plate	60.25 - 64.75	1.0000	1.0000
L22	1	AVA5-50(7/8)	59.75 - 60.00	1.0000	1.0000
L22	3	FLC 158-50J(1-5/8)	59.75 - 60.00	1.0000	1.0000
L22	7	LDF7-50A(1-5/8)	59.75 - 60.00	1.0000	1.0000
L22	12	LDF7-50A(1-5/8)	59.75 - 60.00	1.0000	1.0000
L22	13	WR-VG82ST-BRDA(5/8)	59.75 - 60.00	1.0000	1.0000
L22	16	LDF7-50A(1-5/8)	59.75 - 60.00	1.0000	1.0000
L22	50	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L22	51	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L22	52	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L22	53	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L22	95	4.75" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L22	96	4.75" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L22	97	4.75" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L23	1	AVA5-50(7/8)	54.75 - 59.75	1.0000	1.0000
L23	3	FLC 158-50J(1-5/8)	54.75 - 59.75	1.0000	1.0000
L23	7	LDF7-50A(1-5/8)	54.75 - 59.75	1.0000	1.0000
L23	12	LDF7-50A(1-5/8)	54.75 - 59.75	1.0000	1.0000
L23	13	WR-VG82ST-BRDA(5/8)	54.75 - 59.75	1.0000	1.0000
L23	16	LDF7-50A(1-5/8)	54.75 - 59.75	1.0000	1.0000
L23	50	CCI 6.5" x 1.25" Plate	55.46 - 59.75	1.0000	1.0000
L23	51	CCI 6.5" x 1.25" Plate	55.46 - 59.75	1.0000	1.0000
L23	52	CCI 6.5" x 1.25" Plate	55.46 - 59.75	1.0000	1.0000
L23	53	CCI 6.5" x 1.25" Plate	55.46 - 59.75	1.0000	1.0000

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	Crown Castle	Divakara

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L23	80	CCI 6.5" x 1.25" Plate	54.75 - 59.75	1.0000	1.0000
L23	81	CCI 6.5" x 1.25" Plate	54.75 - 59.75	1.0000	1.0000
L23	82	CCI 6.5" x 1.25" Plate	54.75 - 59.75	1.0000	1.0000
L23	83	CCI 6.5" x 1.25" Plate	54.75 - 59.75	1.0000	1.0000
L23	95	4.75" x 1.25" Plate	57.50 - 59.75	1.0000	1.0000
L23	96	4.75" x 1.25" Plate	57.50 - 59.75	1.0000	1.0000
L23	97	4.75" x 1.25" Plate	57.50 - 59.75	1.0000	1.0000
L24	1	AVA5-50(7/8)	49.75 - 54.75	1.0000	1.0000
L24	3	FLC 158-50J(1-5/8)	49.75 - 54.75	1.0000	1.0000
L24	7	LDF7-50A(1-5/8)	49.75 - 54.75	1.0000	1.0000
L24	12	LDF7-50A(1-5/8)	49.75 - 54.75	1.0000	1.0000
L24	13	WR-VG82ST-BRDA(5/8)	49.75 - 54.75	1.0000	1.0000
L24	16	LDF7-50A(1-5/8)	49.75 - 54.75	1.0000	1.0000
L24	80	CCI 6.5" x 1.25" Plate	49.75 - 54.75	1.0000	1.0000
L24	81	CCI 6.5" x 1.25" Plate	49.75 - 54.75	1.0000	1.0000
L24	82	CCI 6.5" x 1.25" Plate	49.75 - 54.75	1.0000	1.0000
L24	83	CCI 6.5" x 1.25" Plate	49.75 - 54.75	1.0000	1.0000
L25	1	AVA5-50(7/8)	44.75 - 49.75	1.0000	1.0000
L25	3	FLC 158-50J(1-5/8)	44.75 - 49.75	1.0000	1.0000
L25	7	LDF7-50A(1-5/8)	44.75 - 49.75	1.0000	1.0000
L25	12	LDF7-50A(1-5/8)	44.75 - 49.75	1.0000	1.0000
L25	13	WR-VG82ST-BRDA(5/8)	44.75 - 49.75	1.0000	1.0000
L25	16	LDF7-50A(1-5/8)	44.75 - 49.75	1.0000	1.0000
L25	40	CCI 6.5" x 1.25" Plate	44.75 - 46.04	1.0000	1.0000
L25	41	CCI 6.5" x 1.25" Plate	44.75 - 46.04	1.0000	1.0000
L25	42	CCI 6.5" x 1.25" Plate	44.75 - 46.04	1.0000	1.0000
L25	43	CCI 6.5" x 1.25" Plate	44.75 - 46.04	1.0000	1.0000
L25	45	CCI 6.0" x 3.0" Plate	44.75 - 45.50	1.0000	1.0000
L25	46	CCI 6.0" x 3.0" Plate	44.75 - 45.50	1.0000	1.0000
L25	47	CCI 6.0" x 3.0" Plate	44.75 - 45.50	1.0000	1.0000
L25	48	CCI 6.0" x 3.0" Plate	44.75 - 45.50	1.0000	1.0000
L25	80	CCI 6.5" x 1.25" Plate	44.75 - 49.75	1.0000	1.0000
L25	81	CCI 6.5" x 1.25" Plate	44.75 - 49.75	1.0000	1.0000
L25	82	CCI 6.5" x 1.25" Plate	44.75 - 49.75	1.0000	1.0000
L25	83	CCI 6.5" x 1.25" Plate	44.75 - 49.75	1.0000	1.0000
L26	1	AVA5-50(7/8)	40.00 - 44.75	1.0000	1.0000
L26	3	FLC 158-50J(1-5/8)	40.00 - 44.75	1.0000	1.0000
L26	7	LDF7-50A(1-5/8)	40.00 - 44.75	1.0000	1.0000
L26	12	LDF7-50A(1-5/8)	40.00 - 44.75	1.0000	1.0000
L26	13	WR-VG82ST-BRDA(5/8)	40.00 - 44.75	1.0000	1.0000
L26	16	LDF7-50A(1-5/8)	40.00 - 44.75	1.0000	1.0000
L26	40	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L26	41	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L26	42	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L26	43	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L26	45	CCI 6.0" x 3.0" Plate	40.25 - 44.75	1.0000	1.0000
L26	46	CCI 6.0" x 3.0" Plate	40.25 - 44.75	1.0000	1.0000
L26	47	CCI 6.0" x 3.0" Plate	40.25 - 44.75	1.0000	1.0000
L26	48	CCI 6.0" x 3.0" Plate	40.25 - 44.75	1.0000	1.0000
L26	80	CCI 6.5" x 1.25" Plate	40.25 - 44.75	1.0000	1.0000
L26	81	CCI 6.5" x 1.25" Plate	40.25 - 44.75	1.0000	1.0000
L26	82	CCI 6.5" x 1.25" Plate	40.25 - 44.75	1.0000	1.0000
L26	83	CCI 6.5" x 1.25" Plate	40.25 - 44.75	1.0000	1.0000
L27	1	AVA5-50(7/8)	39.75 - 40.00	1.0000	1.0000
L27	3	FLC 158-50J(1-5/8)	39.75 - 40.00	1.0000	1.0000
L27	7	LDF7-50A(1-5/8)	39.75 - 40.00	1.0000	1.0000
L27	12	LDF7-50A(1-5/8)	39.75 - 40.00	1.0000	1.0000
L27	13	WR-VG82ST-BRDA(5/8)	39.75 - 40.00	1.0000	1.0000
L27	16	LDF7-50A(1-5/8)	39.75 - 40.00	1.0000	1.0000
L27	40	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000
L27	41	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000
L27	42	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000

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		Divakara

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L27	43	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000
L28	1	AVA5-50(7/8)	34.75 - 39.75	1.0000	1.0000
L28	3	FLC 158-50J(1-5/8)	34.75 - 39.75	1.0000	1.0000
L28	7	LDF7-50A(1-5/8)	34.75 - 39.75	1.0000	1.0000
L28	12	LDF7-50A(1-5/8)	34.75 - 39.75	1.0000	1.0000
L28	13	WR-VG82ST-BRDA(5/8)	34.75 - 39.75	1.0000	1.0000
L28	16	LDF7-50A(1-5/8)	34.75 - 39.75	1.0000	1.0000
L28	40	CCI 6.5" x 1.25" Plate	35.46 - 39.75	1.0000	1.0000
L28	41	CCI 6.5" x 1.25" Plate	35.46 - 39.75	1.0000	1.0000
L28	42	CCI 6.5" x 1.25" Plate	35.46 - 39.75	1.0000	1.0000
L28	43	CCI 6.5" x 1.25" Plate	35.46 - 39.75	1.0000	1.0000
L28	75	CCI 8.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L28	76	CCI 8.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L28	77	CCI 8.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L28	78	CCI 8.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L29	1	AVA5-50(7/8)	29.75 - 34.75	1.0000	1.0000
L29	3	FLC 158-50J(1-5/8)	29.75 - 34.75	1.0000	1.0000
L29	7	LDF7-50A(1-5/8)	29.75 - 34.75	1.0000	1.0000
L29	12	LDF7-50A(1-5/8)	29.75 - 34.75	1.0000	1.0000
L29	13	WR-VG82ST-BRDA(5/8)	29.75 - 34.75	1.0000	1.0000
L29	16	LDF7-50A(1-5/8)	29.75 - 34.75	1.0000	1.0000
L29	75	CCI 8.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L29	76	CCI 8.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L29	77	CCI 8.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L29	78	CCI 8.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L30	1	AVA5-50(7/8)	24.75 - 29.75	1.0000	1.0000
L30	3	FLC 158-50J(1-5/8)	24.75 - 29.75	1.0000	1.0000
L30	7	LDF7-50A(1-5/8)	24.75 - 29.75	1.0000	1.0000
L30	12	LDF7-50A(1-5/8)	24.75 - 29.75	1.0000	1.0000
L30	13	WR-VG82ST-BRDA(5/8)	24.75 - 29.75	1.0000	1.0000
L30	16	LDF7-50A(1-5/8)	24.75 - 29.75	1.0000	1.0000
L30	30	CCI 8.5" x 1.25" Plate	24.75 - 26.96	1.0000	1.0000
L30	31	CCI 8.5" x 1.25" Plate	24.75 - 26.96	1.0000	1.0000
L30	32	CCI 8.5" x 1.25" Plate	24.75 - 26.96	1.0000	1.0000
L30	33	CCI 8.5" x 1.25" Plate	24.75 - 26.96	1.0000	1.0000
L30	35	CCI 8.0" x 3.0" Plate	24.75 - 26.50	1.0000	1.0000
L30	36	CCI 8.0" x 3.0" Plate	24.75 - 26.50	1.0000	1.0000
L30	37	CCI 8.0" x 3.0" Plate	24.75 - 26.50	1.0000	1.0000
L30	38	CCI 8.0" x 3.0" Plate	24.75 - 26.50	1.0000	1.0000
L30	75	CCI 8.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L30	76	CCI 8.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L30	77	CCI 8.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L30	78	CCI 8.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L31	1	AVA5-50(7/8)	20.00 - 24.75	1.0000	1.0000
L31	3	FLC 158-50J(1-5/8)	20.00 - 24.75	1.0000	1.0000
L31	7	LDF7-50A(1-5/8)	20.00 - 24.75	1.0000	1.0000
L31	12	LDF7-50A(1-5/8)	20.00 - 24.75	1.0000	1.0000
L31	13	WR-VG82ST-BRDA(5/8)	20.00 - 24.75	1.0000	1.0000
L31	16	LDF7-50A(1-5/8)	20.00 - 24.75	1.0000	1.0000
L31	30	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L31	31	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L31	32	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L31	33	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L31	35	CCI 8.0" x 3.0" Plate	20.25 - 24.75	1.0000	1.0000
L31	36	CCI 8.0" x 3.0" Plate	20.25 - 24.75	1.0000	1.0000
L31	37	CCI 8.0" x 3.0" Plate	20.25 - 24.75	1.0000	1.0000
L31	38	CCI 8.0" x 3.0" Plate	20.25 - 24.75	1.0000	1.0000
L31	75	CCI 8.5" x 1.25" Plate	20.25 - 24.75	1.0000	1.0000
L31	76	CCI 8.5" x 1.25" Plate	20.25 - 24.75	1.0000	1.0000
L31	77	CCI 8.5" x 1.25" Plate	20.25 - 24.75	1.0000	1.0000
L31	78	CCI 8.5" x 1.25" Plate	20.25 - 24.75	1.0000	1.0000
L32	1	AVA5-50(7/8)	19.75 - 20.00	1.0000	1.0000

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	Crown Castle	Divakara

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L32	3	FLC 158-50J(1-5/8)	19.75 - 20.00	1.0000	1.0000
L32	7	LDF7-50A(1-5/8)	19.75 - 20.00	1.0000	1.0000
L32	12	LDF7-50A(1-5/8)	19.75 - 20.00	1.0000	1.0000
L32	13	WR-VG82ST-BRDA(5/8)	19.75 - 20.00	1.0000	1.0000
L32	16	LDF7-50A(1-5/8)	19.75 - 20.00	1.0000	1.0000
L32	30	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L32	31	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L32	32	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L32	33	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L33	1	AVA5-50(7/8)	14.75 - 19.75	1.0000	1.0000
L33	3	FLC 158-50J(1-5/8)	14.75 - 19.75	1.0000	1.0000
L33	7	LDF7-50A(1-5/8)	14.75 - 19.75	1.0000	1.0000
L33	12	LDF7-50A(1-5/8)	14.75 - 19.75	1.0000	1.0000
L33	13	WR-VG82ST-BRDA(5/8)	14.75 - 19.75	1.0000	1.0000
L33	16	LDF7-50A(1-5/8)	14.75 - 19.75	1.0000	1.0000
L33	30	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	31	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	32	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	33	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	70	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	71	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	72	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L33	73	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L34	1	AVA5-50(7/8)	9.75 - 14.75	1.0000	1.0000
L34	3	FLC 158-50J(1-5/8)	9.75 - 14.75	1.0000	1.0000
L34	7	LDF7-50A(1-5/8)	9.75 - 14.75	1.0000	1.0000
L34	12	LDF7-50A(1-5/8)	9.75 - 14.75	1.0000	1.0000
L34	13	WR-VG82ST-BRDA(5/8)	9.75 - 14.75	1.0000	1.0000
L34	16	LDF7-50A(1-5/8)	9.75 - 14.75	1.0000	1.0000
L34	30	CCI 8.5" x 1.25" Plate	14.04 - 14.75	1.0000	1.0000
L34	31	CCI 8.5" x 1.25" Plate	14.04 - 14.75	1.0000	1.0000
L34	32	CCI 8.5" x 1.25" Plate	14.04 - 14.75	1.0000	1.0000
L34	33	CCI 8.5" x 1.25" Plate	14.04 - 14.75	1.0000	1.0000
L34	70	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L34	71	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L34	72	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L34	73	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L35	1	AVA5-50(7/8)	4.75 - 9.75	1.0000	1.0000
L35	3	FLC 158-50J(1-5/8)	4.75 - 9.75	1.0000	1.0000
L35	7	LDF7-50A(1-5/8)	4.75 - 9.75	1.0000	1.0000
L35	12	LDF7-50A(1-5/8)	4.75 - 9.75	1.0000	1.0000
L35	13	WR-VG82ST-BRDA(5/8)	4.75 - 9.75	1.0000	1.0000
L35	16	LDF7-50A(1-5/8)	4.75 - 9.75	1.0000	1.0000
L35	70	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L35	71	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L35	72	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L35	73	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L36	1	AVA5-50(7/8)	0.00 - 4.75	1.0000	1.0000
L36	3	FLC 158-50J(1-5/8)	0.00 - 4.75	1.0000	1.0000
L36	7	LDF7-50A(1-5/8)	0.00 - 4.75	1.0000	1.0000
L36	12	LDF7-50A(1-5/8)	0.00 - 4.75	1.0000	1.0000
L36	13	WR-VG82ST-BRDA(5/8)	0.00 - 4.75	1.0000	1.0000
L36	16	LDF7-50A(1-5/8)	0.00 - 4.75	1.0000	1.0000
L36	70	CCI 8.5" x 1.25" Plate	0.00 - 4.75	1.0000	1.0000
L36	71	CCI 8.5" x 1.25" Plate	0.00 - 4.75	1.0000	1.0000
L36	72	CCI 8.5" x 1.25" Plate	0.00 - 4.75	1.0000	1.0000
L36	73	CCI 8.5" x 1.25" Plate	0.00 - 4.75	1.0000	1.0000

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	Client Crown Castle	Designed by Divakara

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Lightning Rod 5/8" x 4'	A	From Leg	2.000 0.000 0.000	0.000	149.500	No Ice 1/2" Ice 1" Ice 2" Ice	0.250 0.664 0.973 1.494	0.250 0.664 0.973 1.494	0.031 0.034 0.039 0.059
Lightning Rod 5/8" x 4'	B	From Leg	4.000 0.000 0.000	0.000	149.500	No Ice 1/2" Ice 1" Ice 2" Ice	0.250 0.664 0.973 1.494	0.250 0.664 0.973 1.494	0.031 0.034 0.039 0.059
Lightning Rod 5/8" x 4'	C	From Leg	2.000 0.000 0.000	0.000	149.500	No Ice 1/2" Ice 1" Ice 2" Ice	0.250 0.664 0.973 1.494	0.250 0.664 0.973 1.494	0.031 0.034 0.039 0.059
4' x 2" Pipe Mount	A	From Leg	2.000 0.000 0.000	0.000	147.500	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
4' x 2" Pipe Mount	C	From Leg	2.000 0.000 0.000	0.000	147.500	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
*									
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.329 6.775 7.214 8.117	5.642 6.426 7.131 8.591	0.112 0.169 0.233 0.383
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.329 6.775 7.214 8.117	5.642 6.426 7.131 8.591	0.112 0.169 0.233 0.383
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.329 6.775 7.214 8.117	5.642 6.426 7.131 8.591	0.112 0.169 0.233 0.383
KRY 112 144/1	A	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
KRY 112 144/1	B	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
KRY 112 144/1	C	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.747 7.202 7.648 8.565	6.070 6.867 7.583 9.063	0.153 0.214 0.282 0.441
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	6.747 7.202 7.648	6.070 6.867 7.583	0.153 0.214 0.282

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 8.565 No Ice 6.747 1/2" Ice 7.202 1" Ice 7.648 2" Ice 8.565	9.063 6.070 6.867 7.583 9.063	0.441 0.153 0.214 0.282 0.441
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 14.690 No Ice 15.460 1/2" Ice 16.230 1" Ice 17.820 2" Ice 17.820	6.870 7.550 8.250 9.670 9.670	0.186 0.315 0.458 0.788 0.788
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 14.690 No Ice 15.460 1/2" Ice 16.230 1" Ice 17.820 2" Ice 17.820	6.870 7.550 8.250 9.670 9.670	0.186 0.315 0.458 0.788 0.788
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 14.690 No Ice 15.460 1/2" Ice 16.230 1" Ice 17.820 2" Ice 17.820	6.870 7.550 8.250 9.670 9.670	0.186 0.315 0.458 0.788 0.788
RADIO 4449 B12/B71	A	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 1.650 No Ice 1.810 1/2" Ice 1.978 1" Ice 2.336 2" Ice 2.336	1.300 1.445 1.597 1.924 1.924	0.075 0.092 0.112 0.161 0.161
RADIO 4449 B12/B71	B	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 1.650 No Ice 1.810 1/2" Ice 1.978 1" Ice 2.336 2" Ice 2.336	1.300 1.445 1.597 1.924 1.924	0.075 0.092 0.112 0.161 0.161
RADIO 4449 B12/B71	C	From Leg	4.000 0.000 1.000	0.000	148.000	2" Ice 1.650 No Ice 1.810 1/2" Ice 1.978 1" Ice 2.336 2" Ice 2.336	1.300 1.445 1.597 1.924 1.924	0.075 0.092 0.112 0.161 0.161
Platform Mount [LP 405-1]	C	None		0.000	148.000	2" Ice 20.880 No Ice 28.890 1/2" Ice 37.040 1" Ice 53.730 2" Ice 53.730	20.880 28.890 37.040 53.730 53.730	1.800 2.277 2.868 4.394 4.394
*								
DS4C06F36D-D	A	From Leg	4.000 0.000 19.000	0.000	148.000	2" Ice 5.820 No Ice 7.793 1/2" Ice 9.783 1" Ice 13.813 2" Ice 13.813	5.820 7.793 9.783 13.813 13.813	0.050 0.092 0.146 0.292 0.292
DS4C06F36D-D	C	From Leg	4.000 0.000 19.000	0.000	148.000	2" Ice 5.820 No Ice 7.793 1/2" Ice 9.783 1" Ice 13.813 2" Ice 13.813	5.820 7.793 9.783 13.813 13.813	0.050 0.092 0.146 0.292 0.292
201-1N	B	From Leg	4.000 0.000 6.000	0.000	148.000	2" Ice 1.489 No Ice 2.408 1/2" Ice 3.344 1" Ice 4.751 2" Ice 4.751	1.489 2.408 3.344 4.751 4.751	0.006 0.018 0.036 0.089 0.089
4' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	148.000	2" Ice 0.785 No Ice 1.028 1/2" Ice 1.281 1" Ice 1.814 2" Ice 1.814	0.785 1.028 1.281 1.814 1.814	0.029 0.035 0.044 0.072 0.072
4' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	148.000	2" Ice 0.785 No Ice 1.028 1/2" Ice 1.281 1" Ice 1.814 2" Ice 1.814	0.785 1.028 1.281 1.814 1.814	0.029 0.035 0.044 0.072 0.072
4' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	148.000	2" Ice 0.785 No Ice 1.028 1/2" Ice 1.281 1" Ice 1.281	0.785 1.028 1.281 1.281	0.029 0.035 0.044 0.044

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
							2" Ice	1.814	1.814	0.072
* LNx-6514DS-A1M w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	140.000	No Ice 1/2" Ice 1" Ice	4.090 4.490 4.890	3.300 3.680 4.060	0.065 0.128 0.202	
LNx-6514DS-A1M w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.710 4.090 4.490 4.890	4.870 3.300 3.680 4.060	0.383 0.065 0.128 0.202	
LNx-6514DS-A1M w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.710 4.090 4.490 4.890	4.870 3.300 3.680 4.060	0.383 0.065 0.128 0.202	
(2) NNHH-65B-R4 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.710 7.550 8.040 8.530	4.870 4.230 4.670 5.120	0.383 0.110 0.197 0.296	
(2) NNHH-65B-R4 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.710 7.550 8.040 8.530	4.870 4.230 4.670 5.120	0.383 0.110 0.197 0.296	
(2) NNHH-65B-R4 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.710 7.550 8.040 8.530	4.870 4.230 4.670 5.120	0.383 0.110 0.197 0.296	
DB-T1-6Z-8AB-0Z	B	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.926 4.800 5.070 5.348	2.815 2.000 2.193 2.393	0.213 0.044 0.080 0.120	
RFV01U-D1A	B	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	5.926 1.875 2.045 2.223	2.815 1.250 1.393 1.543	0.213 0.084 0.103 0.124	
(2) RFV01U-D1A	C	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	2.601 1.875 2.045 2.223	1.865 1.250 1.393 1.543	0.175 0.084 0.103 0.124	
(2) RFV01U-D2A	A	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	2.601 1.875 2.045 2.223	1.865 1.013 1.145 1.284	0.175 0.070 0.087 0.106	
RFV01U-D2A	B	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	2.601 1.875 2.045 2.223	1.585 1.013 1.145 1.284	0.153 0.070 0.087 0.106	
RVZDC-6627-PF-48	A	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	2.601 3.792 4.044 4.303	1.585 2.514 2.727 2.947	0.153 0.032 0.063 0.099	
CBRS w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	4.844 1.714 1.934 2.166	3.417 1.168 1.437 1.723	0.181 0.032 0.050 0.072	
CBRS w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice	2.664 1.714 1.934 2.166	2.351 1.168 1.437 1.723	0.127 0.032 0.050 0.072	

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>	
CBRS w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	140.000	2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	2.664 1.714 1.934 2.166 2.664	2.351 1.168 1.437 1.723 2.351	0.127 0.032 0.050 0.072 0.127
20W CBRS	B	From Leg	4.000 0.000 0.000	0.000	140.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.857 0.975 1.101 1.374	0.420 0.510 0.608 0.833	0.019 0.026 0.034 0.058
(2) 20W CBRS	C	From Leg	4.000 0.000 0.000	0.000	140.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.857 0.975 1.101 1.374	0.420 0.510 0.608 0.833	0.019 0.026 0.034 0.058
Platform Mount [LP 303-1_KCKR]	C	None		0.000	140.000	No Ice 1/2" Ice 1" Ice 2" Ice	25.910 32.230 38.730 52.330	25.910 32.230 38.730 52.330	1.525 1.986 2.540 3.937
*									
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	7.550 8.040 8.530 9.560	4.230 4.670 5.120 6.050	0.110 0.197 0.296 0.529
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	7.550 8.040 8.530 9.560	4.230 4.670 5.120 6.050	0.110 0.197 0.296 0.529
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	7.550 8.040 8.530 9.560	4.230 4.670 5.120 6.050	0.110 0.197 0.296 0.529
AAHC w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.409 4.727 5.055 5.743	2.691 3.079 3.486 4.359	0.115 0.156 0.202 0.310
AAHC w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.409 4.727 5.055 5.743	2.691 3.079 3.486 4.359	0.115 0.156 0.202 0.310
AAHC w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.409 4.727 5.055 5.743	2.691 3.079 3.486 4.359	0.115 0.156 0.202 0.310
(2) RRH2X50-800	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.701 1.864 2.035 2.398	1.282 1.428 1.580 1.908	0.053 0.070 0.090 0.138
(2) RRH2X50-800	B	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.701 1.864 2.035 2.398	1.282 1.428 1.580 1.908	0.053 0.070 0.090 0.138
(2) RRH2X50-800	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.701 1.864 2.035 2.398	1.282 1.428 1.580 1.908	0.053 0.070 0.090 0.138
PCS 1900MHz 4x45W-65MHz	A	From Leg	4.000 0.000 0.000	0.000	130.000	No Ice 1/2" Ice 1" Ice	2.322 2.527 2.739	2.238 2.441 2.651	0.060 0.083 0.110

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	Crown Castle	Divakara

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
PCS 1900MHz 4x45W-65MHz	B	From Leg	4.000 0.000 0.000	0.000	130.000	2" Ice 3.185 No Ice 2.322 1/2" Ice 2.527 1" Ice 2.739 2" Ice 3.185	3.093 2.238 2.441 2.651 3.093	0.173 0.060 0.083 0.110 0.173
PCS 1900MHz 4x45W-65MHz	C	From Leg	4.000 0.000 0.000	0.000	130.000	2" Ice 3.185 No Ice 2.322 1/2" Ice 2.527 1" Ice 2.739 2" Ice 3.185	3.093 2.238 2.441 2.651 3.093	0.173 0.060 0.083 0.110 0.173
(2) 4' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	130.000	2" Ice 3.185 No Ice 0.785 1/2" Ice 1.028 1" Ice 1.281 2" Ice 1.814	3.093 0.785 1.028 1.281 1.814	0.173 0.029 0.035 0.044 0.072
(2) 4' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	130.000	2" Ice 3.185 No Ice 0.785 1/2" Ice 1.028 1" Ice 1.281 2" Ice 1.814	3.093 0.785 1.028 1.281 1.814	0.173 0.029 0.035 0.044 0.072
(2) 4' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	130.000	2" Ice 3.185 No Ice 0.785 1/2" Ice 1.028 1" Ice 1.281 2" Ice 1.814	3.093 0.785 1.028 1.281 1.814	0.173 0.029 0.035 0.044 0.072
Platform Mount [LP 405-1]	C	None		0.000	130.000	No Ice 20.880 1/2" Ice 28.890 1" Ice 37.040 2" Ice 53.730	20.880 28.890 37.040 53.730	1.800 2.277 2.868 4.394
* Ice Shields	C	From Leg	0.500 0.000 0.000	0.000	128.000	No Ice 2.700 1/2" Ice 2.904 1" Ice 3.115 2" Ice 3.559	3.600 3.837 4.081 4.593	0.020 0.060 0.105 0.207
* 7750.00 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 5.746 1/2" Ice 6.179 1" Ice 6.607 2" Ice 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
7750.00 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 5.746 1/2" Ice 6.179 1" Ice 6.607 2" Ice 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
7750.00 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 5.746 1/2" Ice 6.179 1" Ice 6.607 2" Ice 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
RRUS 11	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 2.784 1/2" Ice 2.992 1" Ice 3.207 2" Ice 3.658	1.187 1.334 1.490 1.833	0.048 0.068 0.092 0.150
RRUS 11	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 2.784 1/2" Ice 2.992 1" Ice 3.207 2" Ice 3.658	1.187 1.334 1.490 1.833	0.048 0.068 0.092 0.150
RRUS 11	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 2.784 1/2" Ice 2.992 1" Ice 3.207 2" Ice 3.658	1.187 1.334 1.490 1.833	0.048 0.068 0.092 0.150
(2) LGP21401	A	From Leg	4.000 0.000	0.000	105.000	No Ice 1.104 1/2" Ice 1.239	0.207 0.274	0.014 0.021

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.000			1" Ice	1.381	0.030
						2" Ice	1.688	0.055
(2) LGP21401	C	From Leg	4.000	0.000	105.000	No Ice	1.104	0.014
			0.000			1/2" Ice	1.239	0.021
			0.000			1" Ice	1.381	0.030
						2" Ice	1.688	0.055
(2) LGP21401	B	From Leg	4.000	0.000	105.000	No Ice	1.104	0.014
			0.000			1/2" Ice	1.239	0.021
			0.000			1" Ice	1.381	0.030
						2" Ice	1.688	0.055
(2) LGP21903	A	From Leg	4.000	0.000	105.000	No Ice	0.231	0.011
			0.000			1/2" Ice	0.294	0.013
			0.000			1" Ice	0.365	0.017
						2" Ice	0.528	0.028
(2) LGP21903	B	From Leg	4.000	0.000	105.000	No Ice	0.231	0.011
			0.000			1/2" Ice	0.294	0.013
			0.000			1" Ice	0.365	0.017
						2" Ice	0.528	0.028
(2) LGP21903	C	From Leg	4.000	0.000	105.000	No Ice	0.231	0.011
			0.000			1/2" Ice	0.294	0.013
			0.000			1" Ice	0.365	0.017
						2" Ice	0.528	0.028
DC6-48-60-18-8F	A	From Leg	4.000	0.000	105.000	No Ice	1.212	0.033
			0.000			1/2" Ice	1.892	0.055
			0.000			1" Ice	2.105	0.080
						2" Ice	2.570	0.138
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.000	0.000	105.000	No Ice	9.220	0.074
			0.000			1/2" Ice	9.980	0.143
			0.000			1" Ice	10.760	0.224
						2" Ice	12.360	0.420
HPA-65R-BUU-H8 w/ Mount Pipe	B	From Leg	4.000	0.000	105.000	No Ice	12.250	0.105
			0.000			1/2" Ice	13.190	0.194
			0.000			1" Ice	14.160	0.297
						2" Ice	16.140	0.543
HPA-65R-BUU-H8 w/ Mount Pipe	C	From Leg	4.000	0.000	105.000	No Ice	12.250	0.105
			0.000			1/2" Ice	13.190	0.194
			0.000			1" Ice	14.160	0.297
						2" Ice	16.140	0.543
QS66512-2 w/ Mount Pipe	A	From Leg	4.000	0.000	105.000	No Ice	4.040	0.137
			0.000			1/2" Ice	4.420	0.206
			0.000			1" Ice	4.820	0.287
						2" Ice	5.630	0.482
TPA-65R-LCUUUU-H8 w/ Mount Pipe	B	From Leg	4.000	0.000	105.000	No Ice	11.850	0.115
			0.000			1/2" Ice	12.770	0.210
			0.000			1" Ice	13.710	0.319
						2" Ice	15.640	0.580
TPA-65R-LCUUUU-H8 w/ Mount Pipe	C	From Leg	4.000	0.000	105.000	No Ice	11.850	0.115
			0.000			1/2" Ice	12.770	0.210
			0.000			1" Ice	13.710	0.319
						2" Ice	15.640	0.580
RRUS 32	A	From Leg	4.000	0.000	105.000	No Ice	2.857	0.055
			0.000			1/2" Ice	3.083	0.077
			0.000			1" Ice	3.316	0.103
						2" Ice	3.805	0.165
RRUS 32	B	From Leg	4.000	0.000	105.000	No Ice	2.857	0.055
			0.000			1/2" Ice	3.083	0.077
			0.000			1" Ice	3.316	0.103

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight K</i>
RRUS 32	C	From Leg	4.000 0.000 0.000	0.000	105.000	2" Ice 3.805 No Ice 2.857 1/2" Ice 3.083 1" Ice 3.316 2" Ice 3.805	2.583 1.777 1.968 2.166 2.583	0.165 0.055 0.077 0.103 0.165
RRUS 32 B2	A	From Leg	4.000 0.000 0.000	0.000	105.000	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 B2	B	From Leg	4.000 0.000 0.000	0.000	105.000	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 B2	C	From Leg	4.000 0.000 0.000	0.000	105.000	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 B66	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 2.743 1/2" Ice 2.965 1" Ice 3.194 2" Ice 3.675	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157
RRUS 32 B66	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 2.743 1/2" Ice 2.965 1" Ice 3.194 2" Ice 3.675	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157
RRUS 32 B66	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 2.743 1/2" Ice 2.965 1" Ice 3.194 2" Ice 3.675	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157
1001940	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 0.176 1/2" Ice 0.232 1" Ice 0.295 2" Ice 0.444	0.083 0.126 0.178 0.304	0.002 0.004 0.006 0.015
1001940	B	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 0.176 1/2" Ice 0.232 1" Ice 0.295 2" Ice 0.444	0.083 0.126 0.178 0.304	0.002 0.004 0.006 0.015
1001940	C	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 0.176 1/2" Ice 0.232 1" Ice 0.295 2" Ice 0.444	0.083 0.126 0.178 0.304	0.002 0.004 0.006 0.015
DC6-48-60-18-8F	A	From Leg	4.000 0.000 0.000	0.000	105.000	No Ice 1.212 1/2" Ice 1.892 1" Ice 2.105 2" Ice 2.570	1.212 1.892 2.105 2.570	0.033 0.055 0.080 0.138
4' x 2" Pipe Mount	A	From Leg	2.000 0.000 0.000	0.000	105.000	No Ice 0.785 1/2" Ice 1.028 1" Ice 1.281 2" Ice 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
4' x 2" Pipe Mount	B	From Leg	2.000 0.000 0.000	0.000	105.000	No Ice 0.785 1/2" Ice 1.028 1" Ice 1.281 2" Ice 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
4' x 2" Pipe Mount	C	From Leg	2.000 0.000 0.000	0.000	105.000	No Ice 0.785 1/2" Ice 1.028 1" Ice 1.281 2" Ice 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Side Arm Mount [SO 102-3]	C	None		0.000	105.000	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
						2" Ice	5.900	5.900	0.195
Platform Mount [LP 303-1]	C	None		0.000	105.000	No Ice	14.690	14.690	1.250
						1/2" Ice	18.010	18.010	1.569
						1" Ice	21.340	21.340	1.942
						2" Ice	28.080	28.080	2.852
*									
APXV18-206516S-C	A	From Leg	1.000	0.000	95.000	No Ice	2.560	1.210	0.019
			0.000			1/2" Ice	3.000	1.630	0.039
			0.000			1" Ice	3.460	2.050	0.063
						2" Ice	4.410	2.960	0.126
APXV18-206516S-C	B	From Leg	1.000	0.000	95.000	No Ice	2.560	1.210	0.019
			0.000			1/2" Ice	3.000	1.630	0.039
			0.000			1" Ice	3.460	2.050	0.063
						2" Ice	4.410	2.960	0.126
APXV18-206516S-C	C	From Leg	1.000	0.000	95.000	No Ice	2.560	1.210	0.019
			0.000			1/2" Ice	3.000	1.630	0.039
			0.000			1" Ice	3.460	2.050	0.063
						2" Ice	4.410	2.960	0.126
Pipe Mount [PM 601-3]	C	None		0.000	95.000	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
						2" Ice	5.760	5.760	0.401
*									
1142-2C	C	From Leg	3.000	0.000	89.000	No Ice	2.092	2.092	0.024
			0.000			1/2" Ice	3.374	3.374	0.041
			6.000			1" Ice	4.673	4.673	0.066
						2" Ice	7.320	7.320	0.140
4' x 2" Pipe Mount	C	From Leg	3.000	0.000	89.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
Side Arm Mount [SO 701-1]	C	From Leg	3.000	0.000	89.000	No Ice	0.850	1.670	0.065
			0.000			1/2" Ice	1.140	2.340	0.079
			0.000			1" Ice	1.430	3.010	0.093
						2" Ice	2.010	4.350	0.121
*									
GPS_A	A	From Leg	1.500	0.000	72.000	No Ice	0.255	0.255	0.001
			0.000			1/2" Ice	0.320	0.320	0.005
			2.000			1" Ice	0.393	0.393	0.010
						2" Ice	0.561	0.561	0.025
Side Arm Mount [SO 701-1]	A	From Leg	1.500	0.000	72.000	No Ice	0.850	1.670	0.065
			0.000			1/2" Ice	1.140	2.340	0.079
			0.000			1" Ice	1.430	3.010	0.093
						2" Ice	2.010	4.350	0.121
*									
201-1N	A	From Leg	3.000	0.000	54.000	No Ice	1.489	1.489	0.006
			0.000			1/2" Ice	2.408	2.408	0.018
			7.000			1" Ice	3.344	3.344	0.036
						2" Ice	4.751	4.751	0.089
220-8N	C	From Leg	3.000	0.000	54.000	No Ice	5.179	5.179	0.021
			0.000			1/2" Ice	7.094	7.094	0.059
			10.000			1" Ice	9.025	9.025	0.108
						2" Ice	12.938	12.938	0.244
Side Arm Mount [SO 701-1]	A	From Leg	3.000	0.000	54.000	No Ice	0.850	1.670	0.065

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft²	C _A A _A Side ft²	Weight K
Side Arm Mount [SO 701-1]	C	From Leg	0.000	0.000	54.000	1/2" Ice	1.140	0.079
			0.000			1" Ice	1.430	0.093
						2" Ice	2.010	0.121
			3.000			No Ice	0.850	0.065
			0.000			1/2" Ice	1.140	0.079
			0.000			1" Ice	1.430	0.093
			0.000			2" Ice	2.010	0.121
*								
DB436-C	A	From Leg	4.000	0.000	49.000	No Ice	0.450	0.007
			0.000			1/2" Ice	0.810	0.009
			0.000			1" Ice	1.170	0.011
Yagi Mount	A	From Leg	0.500	0.000	49.000	2" Ice	1.890	0.015
						No Ice	1.320	0.065
			0.000			1/2" Ice	1.580	0.077
			0.000			1" Ice	1.840	0.093
						2" Ice	2.400	0.134
*								
DB436-C	A	From Leg	4.000	0.000	45.000	No Ice	0.450	0.007
			0.000			1/2" Ice	0.810	0.009
			0.000			1" Ice	1.170	0.011
Yagi Mount	A	From Leg	0.500	0.000	45.000	2" Ice	1.890	0.015
						No Ice	1.320	0.065
			0.000			1/2" Ice	1.580	0.077
			0.000			1" Ice	1.840	0.093
						2" Ice	2.400	0.134
*								
DB436-C	A	From Leg	4.000	0.000	40.000	No Ice	0.450	0.007
			0.000			1/2" Ice	0.810	0.009
			0.000			1" Ice	1.170	0.011
Yagi Mount	A	From Leg	0.500	0.000	40.000	2" Ice	1.890	0.015
						No Ice	1.320	0.065
			0.000			1/2" Ice	1.580	0.077
			0.000			1" Ice	1.840	0.093
						2" Ice	2.400	0.134
*								
DB436-C	A	From Leg	4.000	0.000	37.000	No Ice	0.450	0.007
			0.000			1/2" Ice	0.810	0.009
			0.000			1" Ice	1.170	0.011
Yagi Mount	A	From Leg	0.500	0.000	37.000	2" Ice	1.890	0.015
						No Ice	1.320	0.065
			0.000			1/2" Ice	1.580	0.077
			0.000			1" Ice	1.840	0.093
						2" Ice	2.400	0.134
*								

Dishes

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Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K
HPD2-4.7	B	Paraboloid w/o Radome	From Leg	4.000 0.000 4.000	90.000		148.000	2.042	No Ice 3.270 1/2" Ice 3.550 1" Ice 3.820 2" Ice 4.360	0.027 0.050 0.060 0.100
*										

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
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service

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Comb. No.	Description
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	147.5 - 142.5	Pole	Max Tension	26	0.000	0.000	-0.000
			Max. Compression	26	-12.903	0.447	0.278
			Max. Mx	8	-4.710	-55.014	2.350
			Max. My	2	-4.714	-1.262	55.656
			Max. Vy	8	7.036	-55.014	2.350
			Max. Vx	2	-7.084	-1.262	55.656
			Max. Torque	25			-0.893
L2	142.5 - 137.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-24.736	-0.274	-0.003
			Max. Mx	8	-8.737	-102.608	3.179
			Max. My	2	-8.747	-1.938	103.120
			Max. Vy	8	11.970	-102.608	3.179
			Max. Vx	2	-11.996	-1.938	103.120
			Max. Torque	25			-1.168
L3	137.5 - 132.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.957	-0.463	0.010
			Max. Mx	8	-9.410	-163.353	4.143
			Max. My	2	-9.420	-2.460	163.967
			Max. Vy	8	12.319	-163.353	4.143
			Max. Vx	2	-12.344	-2.460	163.967
			Max. Torque	25			-1.167
L4	132.5 - 127.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-36.551	-1.652	2.064
			Max. Mx	8	-13.695	-234.850	5.960
			Max. My	2	-13.705	-3.442	236.114
			Max. Vy	8	16.188	-234.850	5.960
			Max. Vx	2	-16.285	-3.442	236.114
			Max. Torque	25			-1.958
L5	127.5 - 125	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-37.173	-1.750	2.075
			Max. Mx	8	-14.061	-275.520	6.358
			Max. My	2	-14.072	-3.616	277.013
			Max. Vy	8	16.347	-275.520	6.358
			Max. Vx	2	-16.443	-3.616	277.013
			Max. Torque	25			-1.674
L6	125 - 120	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-38.632	-1.980	2.091
			Max. Mx	8	-14.921	-358.289	7.154
			Max. My	2	-14.933	-3.967	360.233
			Max. Vy	8	16.756	-358.289	7.154
			Max. Vx	2	-16.852	-3.967	360.233
			Max. Torque	25			-1.674
L7	120 - 115	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-40.088	-2.208	2.105
			Max. Mx	8	-15.789	-443.081	7.950
			Max. My	2	-15.802	-4.318	445.470
			Max. Vy	8	17.154	-443.081	7.950
			Max. Vx	2	-17.248	-4.318	445.470
			Max. Torque	25			-1.674

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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
L8	115 - 110	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-41.541	-2.434	2.118
			Max. Mx	8	-16.668	-529.814	8.744
			Max. My	2	-16.682	-4.666	532.642
			Max. Vy	8	17.535	-529.814	8.744
			Max. Vx	2	-17.628	-4.666	532.642
			Max. Torque	25			-1.674
L9	110 - 105	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-42.991	-2.656	2.129
			Max. Mx	8	-17.561	-618.398	9.536
			Max. My	2	-17.576	-5.013	621.659
			Max. Vy	8	17.897	-618.398	9.536
			Max. Vx	2	-17.988	-5.013	621.659
			Max. Torque	25			-1.673
L10	105 - 100	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-54.950	-3.217	2.690
			Max. Mx	8	-21.992	-735.878	10.790
			Max. My	2	-22.019	-5.451	739.242
			Max. Vy	8	23.643	-735.878	10.790
			Max. Vx	2	-23.640	-5.451	739.242
			Max. Torque	25			-1.673
L11	100 - 95	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.899	-3.865	2.930
			Max. Mx	8	-23.114	-855.262	11.646
			Max. My	2	-23.140	-5.909	858.644
			Max. Vy	8	24.068	-855.262	11.646
			Max. Vx	2	-24.110	-5.909	858.644
			Max. Torque	25			-1.205
L12	95 - 94.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.043	-3.952	2.937
			Max. Mx	8	-23.571	-873.674	11.767
			Max. My	2	-23.600	-5.977	877.044
			Max. Vy	8	24.594	-873.674	11.767
			Max. Vx	14	24.577	-4.050	-870.452
			Max. Torque	25			-1.205
L13	94.25 - 94	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.172	-3.982	2.941
			Max. Mx	8	-23.644	-879.834	11.807
			Max. My	2	-23.674	-6.000	883.190
			Max. Vy	8	24.636	-879.834	11.807
			Max. Vx	14	24.619	-4.077	-876.600
			Max. Torque	25			-1.205
L14	94 - 89	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-60.744	-4.552	2.988
			Max. Mx	8	-25.011	-1005.429	12.614
			Max. My	2	-25.058	-6.456	1007.347
			Max. Vy	8	25.551	-1005.429	12.614
			Max. Vx	14	25.533	-4.611	-1001.948
			Max. Torque	25			-1.205
L15	89 - 84	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.954	-3.686	2.330
			Max. Mx	8	-26.744	-1136.602	13.079
			Max. My	2	-26.806	-6.233	1135.292
			Max. Vy	8	26.676	-1136.602	13.079
			Max. Vx	14	26.678	-4.642	-1133.873
			Max. Torque	8			-1.408
L16	84 - 80	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.793	-3.527	2.742
			Max. Mx	8	-29.171	-1244.684	13.929
			Max. My	14	-29.175	-4.692	-1242.009
			Max. Vy	8	27.547	-1244.684	13.929

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L17	80 - 79.75	Pole	Max. Vx	14	27.549	-4.692	-1242.009
			Max. Torque	8			-1.408
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.971	-3.550	2.753
			Max. Mx	8	-29.291	-1251.574	13.971
			Max. My	14	-29.295	-4.715	-1248.894
			Max. Vy	8	27.593	-1251.574	13.971
L18	79.75 - 74.75	Pole	Max. Vx	14	27.595	-4.715	-1248.894
			Max. Torque	8			-1.407
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.584	-3.943	2.922
			Max. Mx	8	-31.374	-1392.476	14.770
			Max. My	14	-31.378	-5.230	-1389.673
			Max. Vy	8	28.759	-1392.476	14.770
L19	74.75 - 69.75	Pole	Max. Vx	14	28.761	-5.230	-1389.673
			Max. Torque	8			-1.407
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-74.797	-4.537	3.455
			Max. Mx	8	-33.217	-1539.216	15.738
			Max. My	14	-33.222	-5.872	-1535.897
			Max. Vy	8	29.882	-1539.216	15.738
L20	69.75 - 64.75	Pole	Max. Vx	14	29.846	-5.872	-1535.897
			Max. Torque	8			-1.407
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-78.375	-4.920	3.620
			Max. Mx	8	-35.386	-1691.268	16.551
			Max. My	14	-35.391	-6.360	-1687.643
			Max. Vy	8	30.948	-1691.268	16.551
L21	64.75 - 60	Pole	Max. Vx	14	30.911	-6.360	-1687.643
			Max. Torque	8			-1.116
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-85.348	-4.472	4.275
			Max. Mx	8	-40.160	-1841.078	17.706
			Max. My	14	-40.171	-6.199	-1836.677
			Max. Vy	8	32.405	-1841.078	17.706
L22	60 - 59.75	Pole	Max. Vx	14	32.064	-6.199	-1836.677
			Max. Torque	8			-1.116
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-85.581	-4.492	4.288
			Max. Mx	8	-40.324	-1849.178	17.751
			Max. My	14	-40.336	-6.218	-1844.688
			Max. Vy	8	32.455	-1849.178	17.751
L23	59.75 - 54.75	Pole	Max. Vx	14	32.114	-6.218	-1844.688
			Max. Torque	8			-1.107
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-90.101	-4.775	4.560
			Max. Mx	8	-43.136	-2014.555	18.624
			Max. My	14	-43.147	-6.633	-2008.245
			Max. Vy	8	33.728	-2014.555	18.624
L24	54.75 - 49.75	Pole	Max. Vx	14	33.387	-6.633	-2008.245
			Max. Torque	8			-1.107
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-94.081	-3.899	4.771
			Max. Mx	8	-45.416	-2190.216	19.444
			Max. My	14	-45.427	-6.944	-2182.194
			Max. Vy	8	35.224	-2190.216	19.444
L25	49.75 - 44.75	Pole	Max. Vx	14	34.864	-6.944	-2182.194
			Max. Torque	14			-2.277
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-98.314	-4.308	5.837
			Max. Mx	8	-48.092	-2369.372	20.671

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L26	44.75 - 40	Pole	Max. My	14	-48.102	-7.510	-2358.921
			Max. Vy	8	36.465	-2369.372	20.671
			Max. Vx	14	36.106	-7.510	-2358.921
			Max. Torque	14			-2.277
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-104.060	-3.784	6.575
			Max. Mx	8	-52.063	-2544.550	21.812
			Max. My	14	-52.072	-7.340	-2532.530
			Max. Vy	8	37.609	-2544.550	21.812
			Max. Vx	14	37.250	-7.340	-2532.530
L27	40 - 39.75	Pole	Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-104.435	-3.804	7.023
			Max. Mx	8	-52.314	-2553.969	22.096
			Max. My	14	-52.322	-7.362	-2541.608
			Max. Vy	8	37.728	-2553.969	22.096
			Max. Vx	14	37.369	-7.362	-2541.608
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-109.249	-4.078	7.810
L28	39.75 - 34.75	Pole	Max. Mx	8	-55.421	-2745.816	23.165
			Max. My	14	-55.428	-7.844	-2731.268
			Max. Vy	8	39.056	-2745.816	23.165
			Max. Vx	14	38.697	-7.844	-2731.268
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-113.068	-4.749	7.879
			Max. Mx	8	-57.889	-2943.968	23.797
			Max. My	14	-57.896	-8.606	-2927.394
			Max. Vy	8	40.139	-2943.968	23.797
L29	34.75 - 29.75	Pole	Max. Vx	14	39.781	-8.606	-2927.394
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-118.207	-4.739	8.361
			Max. Mx	8	-61.436	-3147.174	24.755
			Max. My	14	-61.442	-8.832	-3128.781
			Max. Vy	8	41.293	-3147.174	24.755
			Max. Vx	14	40.935	-8.832	-3128.781
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
L30	29.75 - 24.75	Pole	Max. Compression	26	-124.986	-3.755	9.412
			Max. Mx	8	-66.386	-3344.749	26.147
			Max. My	14	-66.391	-8.257	-3324.933
			Max. Vy	8	42.383	-3344.749	26.147
			Max. Vx	14	42.026	-8.257	-3324.933
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-125.227	-3.768	9.430
			Max. Mx	8	-66.569	-3355.336	26.193
			Max. My	14	-66.574	-8.273	-3335.426
L31	24.75 - 20	Pole	Max. Vy	8	42.422	-3355.336	26.193
			Max. Vx	14	42.065	-8.273	-3335.426
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-130.338	-3.831	9.897
			Max. Mx	8	-70.051	-3570.092	27.107
			Max. My	14	-70.054	-8.582	-3548.319
			Max. Vy	8	43.588	-3570.092	27.107
			Max. Vx	14	43.231	-8.582	-3548.319
			Max. Torque	14			-2.276
L32	20 - 19.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-130.338	-3.831	9.897
			Max. Mx	8	-70.051	-3570.092	27.107
			Max. My	14	-70.054	-8.582	-3548.319
			Max. Vy	8	43.588	-3570.092	27.107
			Max. Vx	14	43.231	-8.582	-3548.319
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-130.338	-3.831	9.897
			Max. Mx	8	-70.051	-3570.092	27.107
L33	19.75 - 14.75	Pole	Max. My	14	-70.054	-8.582	-3548.319
			Max. Vy	8	43.588	-3570.092	27.107
			Max. Vx	14	43.231	-8.582	-3548.319
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-130.338	-3.831	9.897
			Max. Mx	8	-70.051	-3570.092	27.107
			Max. My	14	-70.054	-8.582	-3548.319
			Max. Vy	8	43.588	-3570.092	27.107
			Max. Vx	14	43.231	-8.582	-3548.319
L34	14.75 - 9.75	Pole	Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000

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L35	9.75 - 4.75	Pole	Max. Compression	26	-134.380	-4.431	10.021
			Max. Mx	8	-72.802	-3790.603	27.768
			Max. My	14	-72.805	-9.295	-3766.815
			Max. Vy	8	44.573	-3790.603	27.768
			Max. Vx	14	44.217	-9.295	-3766.815
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-138.182	-5.096	10.086
			Max. Mx	8	-75.439	-4016.012	28.383
			Max. My	14	-75.441	-10.074	-3990.187
L36	4.75 - 0	Pole	Max. Vy	8	45.522	-4016.012	28.383
			Max. Vx	14	45.167	-10.074	-3990.187
			Max. Torque	14			-2.276
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-141.658	-5.682	10.142
			Max. Mx	8	-77.951	-4234.497	28.962
			Max. My	14	-77.951	-10.812	-4206.742
			Max. Vy	8	46.409	-4234.497	28.962
			Max. Vx	14	46.055	-10.812	-4206.742
			Max. Torque	14			-2.276

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	141.658	-0.000	0.000
	Max. H _x	21	58.472	39.437	0.087
	Max. H _z	3	58.472	-0.027	39.377
	Max. M _x	2	3930.834	-0.027	39.377
	Max. M _z	8	4234.497	-46.391	0.116
	Max. Torsion	4	1.777	-20.628	35.726
	Min. Vert	19	58.472	33.864	-19.425
	Min. H _x	9	58.472	-46.391	0.116
	Min. H _z	14	77.962	-0.109	-46.036
	Min. M _x	14	-4206.742	-0.109	-46.036
	Min. M _z	20	-3913.473	39.437	0.087
	Min. Torsion	14	-2.276	-0.109	-46.036

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	64.969	0.000	0.000	-5.165	1.682	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	77.962	0.027	-39.377	-3930.834	-6.417	-1.483
0.9 Dead+1.0 Wind 0 deg - No Ice	58.472	0.027	-39.377	-3901.249	-6.829	-1.472
1.2 Dead+1.0 Wind 30 deg - No Ice	77.962	20.628	-35.726	-3491.706	-2007.791	-1.777
0.9 Dead+1.0 Wind 30 deg - No Ice	58.472	20.628	-35.726	-3465.552	-1994.175	-1.769

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 60 deg - No Ice	77.962	39.827	-23.024	-2120.728	-3639.025	-1.179
0.9 Dead+1.0 Wind 60 deg - No Ice	58.472	39.827	-23.024	-2104.510	-3614.518	-1.175
1.2 Dead+1.0 Wind 90 deg - No Ice	77.962	46.391	-0.116	-28.962	-4234.497	0.153
0.9 Dead+1.0 Wind 90 deg - No Ice	58.472	46.391	-0.116	-27.108	-4205.942	0.151
1.2 Dead+1.0 Wind 120 deg - No Ice	77.962	39.019	22.529	2082.116	-3610.437	0.440
0.9 Dead+1.0 Wind 120 deg - No Ice	58.472	39.019	22.529	2069.287	-3585.982	0.431
1.2 Dead+1.0 Wind 150 deg - No Ice	77.962	22.691	39.126	3608.854	-2093.742	1.565
0.9 Dead+1.0 Wind 150 deg - No Ice	58.472	22.691	39.126	3585.521	-2079.803	1.552
1.2 Dead+1.0 Wind 180 deg - No Ice	77.962	0.109	46.036	4206.742	-10.813	2.276
0.9 Dead+1.0 Wind 180 deg - No Ice	58.472	0.109	46.036	4179.395	-11.228	2.264
1.2 Dead+1.0 Wind 210 deg - No Ice	77.962	-23.742	41.120	3707.794	2143.963	2.223
0.9 Dead+1.0 Wind 210 deg - No Ice	58.472	-23.742	41.120	3684.099	2128.870	2.215
1.2 Dead+1.0 Wind 240 deg - No Ice	77.962	-33.864	19.425	1926.228	3370.841	1.780
0.9 Dead+1.0 Wind 240 deg - No Ice	58.472	-33.864	19.425	1914.078	3346.343	1.777
1.2 Dead+1.0 Wind 270 deg - No Ice	77.962	-39.437	-0.087	-15.858	3913.473	0.757
0.9 Dead+1.0 Wind 270 deg - No Ice	58.472	-39.437	-0.087	-14.170	3885.186	0.760
1.2 Dead+1.0 Wind 300 deg - No Ice	77.962	-39.036	-22.534	-2094.754	3615.667	-0.465
0.9 Dead+1.0 Wind 300 deg - No Ice	58.472	-39.036	-22.534	-2078.681	3590.185	-0.456
1.2 Dead+1.0 Wind 330 deg - No Ice	77.962	-22.560	-39.305	-3648.432	2076.260	-0.360
0.9 Dead+1.0 Wind 330 deg - No Ice	58.472	-22.560	-39.305	-3621.613	2061.500	-0.349
1.2 Dead+1.0 Ice+1.0 Temp	141.658	0.000	-0.000	-10.142	-5.682	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	141.658	0.001	-10.297	-1120.374	-7.645	-0.909
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	141.658	5.388	-9.335	-994.876	-573.498	-0.984
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	141.658	9.254	-5.345	-576.178	-980.913	-0.789
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	141.658	10.810	-0.020	-15.393	-1141.243	-0.245
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	141.658	9.105	5.259	549.182	-973.757	0.138
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	141.658	5.327	9.182	963.399	-569.952	0.690
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	141.658	0.028	10.671	1115.002	-8.831	1.071
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	141.658	-5.574	9.658	987.262	569.444	1.078
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	141.658	-8.914	5.116	540.484	953.070	0.923
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	141.658	-10.403	-0.023	-12.667	1108.509	0.449

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	141.658	-9.108	-5.259	-570.026	962.264	-0.143
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	141.658	-5.298	-9.220	-990.253	553.399	-0.443
Dead+Wind 0 deg - Service	64.969	0.006	-8.545	-853.207	-0.129	-0.326
Dead+Wind 30 deg - Service	64.969	4.476	-7.753	-758.371	-432.579	-0.385
Dead+Wind 60 deg - Service	64.969	8.642	-4.996	-462.182	-785.130	-0.250
Dead+Wind 90 deg - Service	64.969	10.067	-0.025	-10.156	-913.816	0.043
Dead+Wind 120 deg - Service	64.969	8.467	4.889	446.018	-778.931	0.095
Dead+Wind 150 deg - Service	64.969	4.924	8.490	775.938	-451.190	0.337
Dead+Wind 180 deg - Service	64.969	0.024	9.990	905.153	-1.082	0.492
Dead+Wind 210 deg - Service	64.969	-5.152	8.923	797.364	464.575	0.482
Dead+Wind 240 deg - Service	64.969	-7.348	4.215	412.270	729.554	0.387
Dead+Wind 270 deg - Service	64.969	-8.558	-0.019	-7.334	846.806	0.167
Dead+Wind 300 deg - Service	64.969	-8.471	-4.890	-456.563	782.568	-0.099
Dead+Wind 330 deg - Service	64.969	-4.895	-8.529	-792.302	449.926	-0.085

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	-64.969	0.000	0.000	64.969	0.000	0.000%
2	0.027	-77.962	-39.377	-0.027	77.962	39.377	0.000%
3	0.027	-58.472	-39.377	-0.027	58.472	39.377	0.000%
4	20.628	-77.962	-35.726	-20.628	77.962	35.726	0.000%
5	20.628	-58.472	-35.726	-20.628	58.472	35.726	0.000%
6	39.827	-77.962	-23.024	-39.827	77.962	23.024	0.000%
7	39.827	-58.472	-23.024	-39.827	58.472	23.024	0.000%
8	46.391	-77.962	-0.116	-46.391	77.962	0.116	0.000%
9	46.391	-58.472	-0.116	-46.391	58.472	0.116	0.000%
10	39.019	-77.962	22.529	-39.019	77.962	-22.529	0.000%
11	39.019	-58.472	22.529	-39.019	58.472	-22.529	0.000%
12	22.691	-77.962	39.126	-22.691	77.962	-39.126	0.000%
13	22.691	-58.472	39.126	-22.691	58.472	-39.126	0.000%
14	0.109	-77.962	46.036	-0.109	77.962	-46.036	0.000%
15	0.109	-58.472	46.036	-0.109	58.472	-46.036	0.000%
16	-23.742	-77.962	41.120	23.742	77.962	-41.120	0.000%
17	-23.742	-58.472	41.120	23.742	58.472	-41.120	0.000%
18	-33.864	-77.962	19.425	33.864	77.962	-19.425	0.000%
19	-33.864	-58.472	19.425	33.864	58.472	-19.425	0.000%
20	-39.437	-77.962	-0.087	39.437	77.962	0.087	0.000%
21	-39.437	-58.472	-0.087	39.437	58.472	0.087	0.000%
22	-39.036	-77.962	-22.534	39.036	77.962	22.534	0.000%
23	-39.036	-58.472	-22.534	39.036	58.472	22.534	0.000%
24	-22.560	-77.962	-39.305	22.560	77.962	39.305	0.000%
25	-22.560	-58.472	-39.305	22.560	58.472	39.305	0.000%
26	0.000	-141.658	0.000	-0.000	141.658	0.000	0.000%
27	0.001	-141.658	-10.297	-0.001	141.658	10.297	0.000%
28	5.388	-141.658	-9.335	-5.388	141.658	9.335	0.000%
29	9.254	-141.658	-5.345	-9.254	141.658	5.345	0.000%
30	10.810	-141.658	-0.020	-10.810	141.658	0.020	0.000%
31	9.105	-141.658	5.259	-9.105	141.658	-5.259	0.000%
32	5.327	-141.658	9.182	-5.327	141.658	-9.182	0.000%
33	0.028	-141.658	10.671	-0.028	141.658	-10.671	0.000%
34	-5.574	-141.658	9.658	5.574	141.658	-9.658	0.000%
35	-8.914	-141.658	5.116	8.914	141.658	-5.116	0.000%
36	-10.403	-141.658	-0.023	10.403	141.658	0.023	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	
37	-9.108	-141.658	-5.259	9.108	141.658	5.259	0.000%
38	-5.298	-141.658	-9.220	5.298	141.658	9.220	0.000%
39	0.006	-64.969	-8.545	-0.006	64.969	8.545	0.000%
40	4.476	-64.969	-7.753	-4.476	64.969	7.753	0.000%
41	8.642	-64.969	-4.996	-8.642	64.969	4.996	0.000%
42	10.067	-64.969	-0.025	-10.067	64.969	0.025	0.000%
43	8.467	-64.969	4.889	-8.467	64.969	-4.889	0.000%
44	4.924	-64.969	8.490	-4.924	64.969	-8.490	0.000%
45	0.024	-64.969	9.990	-0.024	64.969	-9.990	0.000%
46	-5.152	-64.969	8.923	5.152	64.969	-8.923	0.000%
47	-7.348	-64.969	4.215	7.348	64.969	-4.215	0.000%
48	-8.558	-64.969	-0.019	8.558	64.969	0.019	0.000%
49	-8.471	-64.969	-4.890	8.471	64.969	4.890	0.000%
50	-4.895	-64.969	-8.529	4.895	64.969	8.529	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00006038
3	Yes	4	0.00000001	0.00089392
4	Yes	6	0.00000001	0.00004495
5	Yes	5	0.00000001	0.00057047
6	Yes	6	0.00000001	0.00004768
7	Yes	5	0.00000001	0.00060105
8	Yes	5	0.00000001	0.00005282
9	Yes	4	0.00000001	0.00074274
10	Yes	6	0.00000001	0.00004749
11	Yes	5	0.00000001	0.00060029
12	Yes	6	0.00000001	0.00004566
13	Yes	5	0.00000001	0.00057677
14	Yes	5	0.00000001	0.00008556
15	Yes	5	0.00000001	0.00003862
16	Yes	6	0.00000001	0.00004888
17	Yes	5	0.00000001	0.00061512
18	Yes	6	0.00000001	0.00004261
19	Yes	5	0.00000001	0.00054343
20	Yes	5	0.00000001	0.00005202
21	Yes	4	0.00000001	0.00071589
22	Yes	6	0.00000001	0.00004656
23	Yes	5	0.00000001	0.00058755
24	Yes	6	0.00000001	0.00004698
25	Yes	5	0.00000001	0.00059240
26	Yes	4	0.00000001	0.00028853
27	Yes	6	0.00000001	0.00023835
28	Yes	6	0.00000001	0.00025753
29	Yes	6	0.00000001	0.00025680
30	Yes	6	0.00000001	0.00023955
31	Yes	6	0.00000001	0.00025172
32	Yes	6	0.00000001	0.00025144
33	Yes	6	0.00000001	0.00023431
34	Yes	6	0.00000001	0.00025143
35	Yes	6	0.00000001	0.00024630
36	Yes	6	0.00000001	0.00023331
37	Yes	6	0.00000001	0.00025086

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38	Yes	6	0.00000001	0.00025392
39	Yes	4	0.00000001	0.00024784
40	Yes	4	0.00000001	0.00052309
41	Yes	4	0.00000001	0.00056557
42	Yes	4	0.00000001	0.00025319
43	Yes	4	0.00000001	0.00055946
44	Yes	4	0.00000001	0.00052622
45	Yes	4	0.00000001	0.00026532
46	Yes	4	0.00000001	0.00058828
47	Yes	4	0.00000001	0.00048769
48	Yes	4	0.00000001	0.00023990
49	Yes	4	0.00000001	0.00054522
50	Yes	4	0.00000001	0.00055421

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147.5 - 142.5	12.615	50	0.844	0.002
L2	142.5 - 137.5	11.734	50	0.838	0.002
L3	137.5 - 132.5	10.862	50	0.826	0.002
L4	132.5 - 127.5	10.008	50	0.805	0.001
L5	127.5 - 125	9.180	50	0.774	0.001
L6	125 - 120	8.780	50	0.753	0.001
L7	120 - 115	8.004	50	0.728	0.001
L8	115 - 110	7.258	50	0.696	0.001
L9	110 - 105	6.549	50	0.657	0.001
L10	105 - 100	5.889	46	0.610	0.001
L11	100 - 95	5.281	46	0.556	0.000
L12	95 - 94.25	4.719	46	0.519	0.000
L13	94.25 - 94	4.639	46	0.513	0.000
L14	94 - 89	4.612	46	0.511	0.000
L15	89 - 84	4.095	46	0.478	0.000
L16	84 - 80	3.615	46	0.440	0.000
L17	80 - 79.75	3.260	46	0.406	0.000
L18	79.75 - 74.75	3.239	46	0.405	0.000
L19	74.75 - 69.75	2.828	46	0.380	0.000
L20	69.75 - 64.75	2.445	46	0.352	0.000
L21	64.75 - 60	2.092	46	0.321	0.000
L22	60 - 59.75	1.788	46	0.289	0.000
L23	59.75 - 54.75	1.773	46	0.288	0.000
L24	54.75 - 49.75	1.484	46	0.265	0.000
L25	49.75 - 44.75	1.219	46	0.240	0.000
L26	44.75 - 40	0.982	46	0.212	0.000
L27	40 - 39.75	0.785	46	0.184	0.000
L28	39.75 - 34.75	0.775	46	0.183	0.000
L29	34.75 - 29.75	0.594	46	0.162	0.000
L30	29.75 - 24.75	0.435	46	0.140	0.000
L31	24.75 - 20	0.301	46	0.116	0.000
L32	20 - 19.75	0.198	46	0.091	0.000
L33	19.75 - 14.75	0.194	46	0.090	0.000
L34	14.75 - 9.75	0.110	46	0.069	0.000
L35	9.75 - 4.75	0.049	46	0.047	0.000
L36	4.75 - 0	0.012	46	0.024	0.000

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Critical Deflections and Radius of Curvature - Service Wind

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>		<i>Comb.</i>	<i>in</i>	<i>°</i>	<i>°</i>	<i>ft</i>
152.000	HPD2-4.7	50	12.615	0.844	0.002	32010
149.500	Lightning Rod 5/8" x 4'	50	12.615	0.844	0.002	32010
148.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	50	12.615	0.844	0.002	32010
147.500	4' x 2" Pipe Mount	50	12.615	0.844	0.002	32010
140.000	LNx-6514DS-A1M w/ Mount Pipe	50	11.297	0.833	0.002	22547
130.000	NNVV-65B-R4 w/ Mount Pipe	50	9.590	0.791	0.001	8951
128.000	Ice Shields	50	9.261	0.778	0.001	8296
105.000	7750.00 w/ Mount Pipe	46	5.889	0.610	0.001	5687
95.000	APXV18-206516S-C	46	4.719	0.519	0.000	7915
89.000	1142-2C	46	4.095	0.478	0.000	8021
72.000	GPS_A	46	2.614	0.365	0.000	10139
54.000	201-IN	46	1.442	0.261	0.000	11670
49.000	DB436-C	46	1.182	0.236	0.000	10754
45.000	DB436-C	46	0.993	0.214	0.000	10104
40.000	DB436-C	46	0.785	0.184	0.000	11343
37.000	DB436-C	46	0.673	0.172	0.000	13069

Maximum Tower Deflections - Design Wind

<i>Section No.</i>	<i>Elevation</i>	<i>Horz. Deflection</i>	<i>Gov. Load</i>	<i>Tilt</i>	<i>Twist</i>
	<i>ft</i>	<i>in</i>	<i>Comb.</i>	<i>°</i>	<i>°</i>
L1	147.5 - 142.5	58.440	16	3.902	0.009
L2	142.5 - 137.5	54.375	16	3.874	0.008
L3	137.5 - 132.5	50.353	16	3.819	0.007
L4	132.5 - 127.5	46.410	16	3.721	0.006
L5	127.5 - 125	42.592	16	3.577	0.005
L6	125 - 120	40.746	16	3.483	0.004
L7	120 - 115	37.162	16	3.365	0.003
L8	115 - 110	33.716	16	3.217	0.003
L9	110 - 105	30.441	16	3.038	0.003
L10	105 - 100	27.370	16	2.825	0.003
L11	100 - 95	24.541	16	2.575	0.002
L12	95 - 94.25	21.932	16	2.406	0.002
L13	94.25 - 94	21.556	16	2.379	0.002
L14	94 - 89	21.432	16	2.371	0.002
L15	89 - 84	19.028	16	2.218	0.002
L16	84 - 80	16.796	16	2.043	0.002
L17	80 - 79.75	15.149	16	1.888	0.002
L18	79.75 - 74.75	15.051	16	1.882	0.002
L19	74.75 - 69.75	13.141	16	1.765	0.002
L20	69.75 - 64.75	11.359	16	1.636	0.002
L21	64.75 - 60	9.720	16	1.493	0.001
L22	60 - 59.75	8.309	16	1.344	0.001
L23	59.75 - 54.75	8.239	16	1.339	0.001
L24	54.75 - 49.75	6.892	16	1.231	0.001
L25	49.75 - 44.75	5.663	16	1.114	0.001
L26	44.75 - 40	4.562	16	0.987	0.001
L27	40 - 39.75	3.644	16	0.857	0.001
L28	39.75 - 34.75	3.600	16	0.852	0.001
L29	34.75 - 29.75	2.758	16	0.755	0.001
L30	29.75 - 24.75	2.022	16	0.650	0.001

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L31	24.75 - 20	1.400	16	0.537	0.000
L32	20 - 19.75	0.921	16	0.423	0.000
L33	19.75 - 14.75	0.899	16	0.418	0.000
L34	14.75 - 9.75	0.511	16	0.322	0.000
L35	9.75 - 4.75	0.228	16	0.219	0.000
L36	4.75 - 0	0.055	16	0.110	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
152.000	HPD2-4.7	16	58.440	3.902	0.009	6984
149.500	Lightning Rod 5/8" x 4'	16	58.440	3.902	0.009	6984
148.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	16	58.440	3.902	0.009	6984
147.500	4' x 2" Pipe Mount	16	58.440	3.902	0.009	6984
140.000	LNx-6514DS-A1M w/ Mount Pipe	16	52.357	3.851	0.007	4907
130.000	NNVV-65B-R4 w/ Mount Pipe	16	44.481	3.658	0.005	1959
128.000	Ice Shields	16	42.966	3.595	0.005	1821
105.000	7750.00 w/ Mount Pipe	16	27.370	2.825	0.003	1237
95.000	APXV18-206516S-C	16	21.932	2.406	0.002	1719
89.000	1142-2C	16	19.028	2.218	0.002	1739
72.000	GPS_A	16	12.144	1.695	0.002	2195
54.000	201-1N	16	6.700	1.214	0.001	2521
49.000	DB436-C	16	5.490	1.096	0.001	2320
45.000	DB436-C	16	4.614	0.994	0.001	2178
40.000	DB436-C	16	3.644	0.857	0.001	2443
37.000	DB436-C	16	3.124	0.800	0.001	2813

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	147.5 - 146.5	P24x0.375	5.000	0.000	0.0	27.833	-4.216	1052.070	0.004
	146.5 - 145.5					27.833	-4.339	1052.070	0.004
	145.5 - 144.5					27.833	-4.462	1052.070	0.004
	144.5 - 143.5					27.833	-4.585	1052.070	0.004
	143.5 - 142.5					27.833	-4.709	1052.070	0.004
L2	142.5 - 141.5	P24x0.375	5.000	0.000	0.0	27.833	-4.836	1052.070	0.005
	141.5 - 140.5					27.833	-4.964	1052.070	0.005
	140.5 - 139.5					27.833	-8.484	1052.070	0.008
	139.5 - 138.5					27.833	-8.613	1052.070	0.008
	138.5 - 137.5					27.833	-8.743	1052.070	0.008
L3	137.5 - 136.5	P24x0.375	5.000	0.000	0.0	27.833	-8.876	1052.070	0.008
	136.5 - 135.5					27.833	-9.011	1052.070	0.009
	135.5 - 134.5					27.833	-9.145	1052.070	0.009

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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 $\frac{P_u}{\phi P_n}$
L4	134.5 - 133.5	P24x0.375	5.000	0.000	0.0	27.833	-9.280	1052.070	0.009
	133.5 - 132.5					27.833	-9.416	1052.070	0.009
	132.5 - 131.5					27.833	-9.554	1052.070	0.009
	131.5 - 130.5					27.833	-9.694	1052.070	0.009
	130.5 - 129.5					27.833	-13.403	1052.070	0.013
L5	129.5 - 128.5	P24x0.375	2.500	0.000	0.0	27.833	-13.545	1052.070	0.013
	128.5 - 127.5					27.833	-13.702	1052.070	0.013
	127.5 - 126.25					27.833	-13.884	1052.070	0.013
L6	126.25 - 125	P30x0.375	5.000	0.000	0.0	27.833	-14.069	1052.070	0.013
	125 - 124					34.901	-14.243	1311.060	0.011
	124 - 123					34.901	-14.414	1311.060	0.011
L7	123 - 122	P30x0.375	5.000	0.000	0.0	34.901	-14.586	1311.060	0.011
	122 - 121					34.901	-14.757	1311.060	0.011
	121 - 120					34.901	-14.930	1311.060	0.011
	120 - 119					34.901	-15.102	1311.060	0.012
	119 - 118					34.901	-15.276	1311.060	0.012
L8	118 - 117	P30x0.375	5.000	0.000	0.0	34.901	-15.449	1311.060	0.012
	117 - 116					34.901	-15.623	1311.060	0.012
	116 - 115					34.901	-15.798	1311.060	0.012
	115 - 114					34.901	-15.973	1311.060	0.012
	114 - 113					34.901	-16.152	1311.060	0.012
L9	113 - 112	P30x0.375	5.000	0.000	0.0	34.901	-16.328	1311.060	0.012
	112 - 111					34.901	-16.505	1311.060	0.013
	111 - 110					34.901	-16.682	1311.060	0.013
	110 - 109					34.901	-16.860	1311.060	0.013
	109 - 108					34.901	-17.038	1311.060	0.013
L10	108 - 107	P30x0.375	5.000	0.000	0.0	34.901	-17.217	1311.060	0.013
	107 - 106					34.901	-17.396	1311.060	0.013
	106 - 105					34.901	-17.576	1311.060	0.013
	105 - 104					34.901	-21.214	1311.060	0.016
	104 - 103					34.901	-21.414	1311.060	0.016
L11	103 - 102	P36x0.375	5.000	0.000	0.0	34.901	-21.615	1311.060	0.016
	102 - 101					34.901	-21.816	1311.060	0.017
	101 - 100					34.901	-22.019	1311.060	0.017
	100 - 99					41.970	-22.246	1490.100	0.015
	99 - 98					41.970	-22.468	1490.100	0.015
L12	98 - 97	P36x0.49375	0.750	0.000	0.0	41.970	-22.692	1490.100	0.015
	97 - 96					41.970	-22.915	1490.100	0.015
	96 - 95					41.970	-23.140	1490.100	0.016
	95 - 94.25 (12)					41.970	-23.600	1490.100	0.016
	94.25 - 94 (13)					55.076	-23.674	2081.870	0.011
L13	94 - 93	P36x0.49375	5.000	0.000	0.0	55.076	-23.946	2081.870	0.012
	93 - 92					55.076	-24.224	2081.870	0.012
	92 - 91					55.076	-24.501	2081.870	0.012
	91 - 90					55.076	-24.738	2081.870	0.012
	90 - 89					55.076	-25.014	2081.870	0.012
L14	89 - 88	P36x0.49375	5.000	0.000	0.0	55.076	-25.466	2081.870	0.012
	88 - 87					55.076	-25.785	2081.870	0.012
	87 - 86					55.076	-26.105	2081.870	0.013
	86 - 85					55.076	-26.426	2081.870	0.013
	85 - 84					55.076	-26.747	2081.870	0.013
L15	84 - 83	P36x0.49375	4.000	0.000	0.0	55.076	-27.354	2081.870	0.013
	83 - 82					55.076	-27.961	2081.870	0.013
	82 - 81					55.076	-28.568	2081.870	0.014
	81 - 80					55.076	-29.176	2081.870	0.014
	80 - 79.75 (17)					74.831	-29.297	2828.600	0.010
L16	79.75 - 78.75	P42x0.575	5.000	0.000	0.0	74.831	-29.710	2828.600	0.011
	78.75 - 77.75					74.831	-30.127	2828.600	0.011
	77.75 - 76.75					74.831	-30.545	2828.600	0.011
	76.75 - 75.75					74.831	-30.963	2828.600	0.011

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L19	75.75 - 74.75	P42x0.575	5.000	0.000	0.0	74.831	-31.382	2828.600	0.011
	74.75 - 73.75					74.831	-31.734	2828.600	0.011
	73.75 - 72.75					74.831	-32.087	2828.600	0.011
	72.75 - 71.75					74.831	-32.518	2828.600	0.011
	71.75 - 70.75					74.831	-32.872	2828.600	0.012
L20	70.75 - 69.75	P42x0.575	5.000	0.000	0.0	74.831	-33.227	2828.600	0.012
	69.75 - 68.75					74.831	-33.660	2828.600	0.012
	68.75 - 67.75					74.831	-34.093	2828.600	0.012
	67.75 - 66.75					74.831	-34.528	2828.600	0.012
	66.75 - 65.75					74.831	-34.962	2828.600	0.012
L21	65.75 - 64.75	P42x0.575	4.750	0.000	0.0	74.831	-35.397	2828.600	0.013
	64.75 - 63.5625					74.831	-36.577	2828.600	0.013
	63.5625 - 62.375					74.831	-37.757	2828.600	0.013
	62.375 - 61.1875					74.831	-38.951	2828.600	0.014
	61.1875 - 60					74.831	-40.145	2828.600	0.014
L22	60 - 59.75 (22)	P48x0.6125	0.250	0.000	0.0	91.184	-40.310	3446.760	0.012
L23	59.75 - 58.75	P48x0.6125	5.000	0.000	0.0	91.184	-40.868	3446.760	0.012
	58.75 - 57.75					91.184	-41.431	3446.760	0.012
	57.75 - 56.75					91.184	-41.994	3446.760	0.012
	56.75 - 55.75					91.184	-42.558	3446.760	0.012
	55.75 - 54.75					91.184	-43.122	3446.760	0.013
L24	54.75 - 53.75	P48x0.6125	5.000	0.000	0.0	91.184	-43.721	3446.760	0.013
	53.75 - 52.75					91.184	-44.141	3446.760	0.013
	52.75 - 51.75					91.184	-44.562	3446.760	0.013
	51.75 - 50.75					91.184	-44.982	3446.760	0.013
	50.75 - 49.75					91.184	-45.404	3446.760	0.013
L25	49.75 - 48.75	P48x0.6125	5.000	0.000	0.0	91.184	-45.989	3446.760	0.013
	48.75 - 47.75					91.184	-46.490	3446.760	0.013
	47.75 - 46.75					91.184	-46.991	3446.760	0.014
	46.75 - 45.75					91.184	-47.493	3446.760	0.014
	45.75 - 44.75					91.184	-48.080	3446.760	0.014
L26	44.75 - 43.5625	P48x0.6125	4.750	0.000	0.0	91.184	-49.069	3446.760	0.014
	43.5625 - 42.375					91.184	-50.061	3446.760	0.015
	42.375 - 41.1875					91.184	-51.054	3446.760	0.015
	41.1875 - 40					91.184	-52.047	3446.760	0.015
	40 - 39.75 (27)					108.943	-52.298	4042.520	0.013
L28	39.75 - 38.75	P54x0.65	5.000	0.000	0.0	108.943	-52.898	4042.520	0.013
L29	38.75 - 37.75	P54x0.65	5.000	0.000	0.0	108.943	-53.503	4042.520	0.013
	37.75 - 36.75					108.943	-54.194	4042.520	0.013
	36.75 - 35.75					108.943	-54.800	4042.520	0.014
	35.75 - 34.75					108.943	-55.406	4042.520	0.014
	34.75 - 33.75					108.943	-55.899	4042.520	0.014
L30	33.75 - 32.75	P54x0.65	5.000	0.000	0.0	108.943	-56.393	4042.520	0.014
	32.75 - 31.75					108.943	-56.887	4042.520	0.014
	31.75 - 30.75					108.943	-57.382	4042.520	0.014
	30.75 - 29.75					108.943	-57.876	4042.520	0.014
	29.75 - 28.75					108.943	-58.585	4042.520	0.014
L31	28.75 - 27.75	P54x0.65	5.000	0.000	0.0	108.943	-59.295	4042.520	0.015
	27.75 - 26.75					108.943	-60.004	4042.520	0.015
	26.75 - 25.75					108.943	-60.715	4042.520	0.015
	25.75 - 24.75					108.943	-61.425	4042.520	0.015
	24.75 - 23.5625					108.943	-62.660	4042.520	0.016
	23.5625 -					108.943	-63.898	4042.520	0.016

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	22.375								
	22.375 - 21.1875					108.943	-65.135	4042.520	0.016
	21.1875 - 20					108.943	-66.374	4042.520	0.016
L32	20 - 19.75 (32)	P60x0.625	0.250	0.000	0.0	116.583	-66.558	4139.150	0.016
L33	19.75 - 18.75	P60x0.625	5.000	0.000	0.0	116.583	-67.250	4139.150	0.016
	18.75 - 17.75					116.583	-67.947	4139.150	0.016
	17.75 - 16.75					116.583	-68.645	4139.150	0.017
	16.75 - 15.75					116.583	-69.343	4139.150	0.017
	15.75 - 14.75					116.583	-70.042	4139.150	0.017
L34	14.75 - 13.75	P60x0.625	5.000	0.000	0.0	116.583	-70.592	4139.150	0.017
	13.75 - 12.75					116.583	-71.142	4139.150	0.017
	12.75 - 11.75					116.583	-71.693	4139.150	0.017
	11.75 - 10.75					116.583	-72.245	4139.150	0.017
	10.75 - 9.75					116.583	-72.796	4139.150	0.018
L35	9.75 - 8.75	P60x0.625	5.000	0.000	0.0	116.583	-73.323	4139.150	0.018
	8.75 - 7.75					116.583	-73.851	4139.150	0.018
	7.75 - 6.75					116.583	-74.379	4139.150	0.018
	6.75 - 5.75					116.583	-74.907	4139.150	0.018
	5.75 - 4.75					116.583	-75.436	4139.150	0.018
L36	4.75 - 3.5625	P60x0.625	4.750	0.000	0.0	116.583	-76.063	4139.150	0.018
	3.5625 - 2.375					116.583	-76.691	4139.150	0.019
	2.375 - 1.1875					116.583	-77.321	4139.150	0.019
	1.1875 - 0					116.583	-77.951	4139.150	0.019

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	147.5 - 146.5	P24x0.375	28.060	623.717	0.045	0.000	623.717	0.000
	146.5 - 145.5		34.931	623.717	0.056	0.000	623.717	0.000
	145.5 - 144.5		41.875	623.717	0.067	0.000	623.717	0.000
	144.5 - 143.5		48.891	623.717	0.078	0.000	623.717	0.000
	143.5 - 142.5		55.981	623.717	0.090	0.000	623.717	0.000
L2	142.5 - 141.5	P24x0.375	63.144	623.717	0.101	0.000	623.717	0.000
	141.5 - 140.5		70.379	623.717	0.113	0.000	623.717	0.000
	140.5 - 139.5		79.769	623.717	0.128	0.000	623.717	0.000
	139.5 - 138.5		91.664	623.717	0.147	0.000	623.717	0.000
	138.5 - 137.5		103.630	623.717	0.166	0.000	623.717	0.000
L3	137.5 - 136.5	P24x0.375	115.668	623.717	0.185	0.000	623.717	0.000
	136.5 - 135.5		127.776	623.717	0.205	0.000	623.717	0.000
	135.5 - 134.5		139.954	623.717	0.224	0.000	623.717	0.000
	134.5 - 133.5		152.201	623.717	0.244	0.000	623.717	0.000
	133.5 - 132.5		164.517	623.717	0.264	0.000	623.717	0.000
L4	132.5 - 131.5	P24x0.375	176.902	623.717	0.284	0.000	623.717	0.000
	131.5 - 130.5		189.354	623.717	0.304	0.000	623.717	0.000
	130.5 - 129.5		204.674	623.717	0.328	0.000	623.717	0.000
	129.5 - 128.5		220.662	623.717	0.354	0.000	623.717	0.000
	128.5 - 127.5		236.762	623.717	0.380	0.000	623.717	0.000
L5	127.5 - 126.25	P24x0.375	257.113	623.717	0.412	0.000	623.717	0.000
	126.25 - 125		277.561	623.717	0.445	0.000	623.717	0.000
L6	125 - 124	P30x0.375	293.999	947.858	0.310	0.000	947.858	0.000
	124 - 123		310.522	947.858	0.328	0.000	947.858	0.000
	123 - 122		327.126	947.858	0.345	0.000	947.858	0.000
	122 - 121		343.813	947.858	0.363	0.000	947.858	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L7	121 - 120	P30x0.375	360.581	947.858	0.380	0.000	947.858	0.000
	120 - 119		377.429	947.858	0.398	0.000	947.858	0.000
	119 - 118		394.358	947.858	0.416	0.000	947.858	0.000
	118 - 117		411.367	947.858	0.434	0.000	947.858	0.000
	117 - 116		428.454	947.858	0.452	0.000	947.858	0.000
L8	116 - 115	P30x0.375	445.619	947.858	0.470	0.000	947.858	0.000
	115 - 114		462.863	947.858	0.488	0.000	947.858	0.000
	114 - 113		480.132	947.858	0.507	0.000	947.858	0.000
	113 - 112		497.567	947.858	0.525	0.000	947.858	0.000
	112 - 111		515.077	947.858	0.543	0.000	947.858	0.000
L9	111 - 110	P30x0.375	532.663	947.858	0.562	0.000	947.858	0.000
	110 - 109		550.322	947.858	0.581	0.000	947.858	0.000
	109 - 108		568.053	947.858	0.599	0.000	947.858	0.000
	108 - 107		585.857	947.858	0.618	0.000	947.858	0.000
	107 - 106		603.732	947.858	0.637	0.000	947.858	0.000
L10	106 - 105	P30x0.375	621.679	947.858	0.656	0.000	947.858	0.000
	105 - 104		645.323	947.858	0.681	0.000	947.858	0.000
	104 - 103		668.690	947.858	0.705	0.000	947.858	0.000
	103 - 102		692.136	947.858	0.730	0.000	947.858	0.000
	102 - 101		715.660	947.858	0.755	0.000	947.858	0.000
L11	101 - 100	P36x0.375	739.263	947.858	0.780	0.000	947.858	0.000
	100 - 99		762.953	1338.808	0.570	0.000	1338.808	0.000
	99 - 98		786.739	1338.808	0.588	0.000	1338.808	0.000
	98 - 97		810.620	1338.808	0.605	0.000	1338.808	0.000
	97 - 96		834.592	1338.808	0.623	0.000	1338.808	0.000
L12	96 - 95	P36x0.375	858.667	1338.808	0.641	0.000	1338.808	0.000
	95 - 94.25 (12)		877.067	1338.808	0.655	0.000	1338.808	0.000
L13	94.25 - 94 (13)	P36x0.49375	883.208	1816.958	0.486	0.000	1816.958	0.000
L14	94 - 93	P36x0.49375	907.850	1816.958	0.500	0.000	1816.958	0.000
	93 - 92		932.592	1816.958	0.513	0.000	1816.958	0.000
	92 - 91		957.417	1816.958	0.527	0.000	1816.958	0.000
	91 - 90		982.517	1816.958	0.541	0.000	1816.958	0.000
	90 - 89		1007.917	1816.958	0.555	0.000	1816.958	0.000
L15	89 - 88	P36x0.49375	1034.350	1816.958	0.569	0.000	1816.958	0.000
	88 - 87		1060.358	1816.958	0.584	0.000	1816.958	0.000
	87 - 86		1086.533	1816.958	0.598	0.000	1816.958	0.000
	86 - 85		1112.883	1816.958	0.612	0.000	1816.958	0.000
	85 - 84		1139.417	1816.958	0.627	0.000	1816.958	0.000
L16	84 - 83	P36x0.49375	1166.233	1816.958	0.642	0.000	1816.958	0.000
	83 - 82		1193.267	1816.958	0.657	0.000	1816.958	0.000
	82 - 81		1220.500	1816.958	0.672	0.000	1816.958	0.000
	81 - 80		1247.942	1816.958	0.687	0.000	1816.958	0.000
L17	80 - 79.75 (17)	P42x0.575	1254.808	2879.408	0.436	0.000	2879.408	0.000
L18	79.75 - 78.75	P42x0.575	1282.425	2879.408	0.445	0.000	2879.408	0.000
	78.75 - 77.75		1310.258	2879.408	0.455	0.000	2879.408	0.000
	77.75 - 76.75		1338.308	2879.408	0.465	0.000	2879.408	0.000
	76.75 - 75.75		1366.575	2879.408	0.475	0.000	2879.408	0.000
	75.75 - 74.75		1395.058	2879.408	0.484	0.000	2879.408	0.000
L19	74.75 - 73.75	P42x0.575	1423.717	2879.408	0.494	0.000	2879.408	0.000
	73.75 - 72.75		1452.583	2879.408	0.504	0.000	2879.408	0.000
	72.75 - 71.75		1481.908	2879.408	0.515	0.000	2879.408	0.000
	71.75 - 70.75		1511.225	2879.408	0.525	0.000	2879.408	0.000
	70.75 - 69.75		1540.742	2879.408	0.535	0.000	2879.408	0.000
L20	69.75 - 68.75	P42x0.575	1570.483	2879.408	0.545	0.000	2879.408	0.000
	68.75 - 67.75		1600.433	2879.408	0.556	0.000	2879.408	0.000
	67.75 - 66.75		1630.583	2879.408	0.566	0.000	2879.408	0.000
	66.75 - 65.75		1660.933	2879.408	0.577	0.000	2879.408	0.000
	65.75 - 64.75		1691.475	2879.408	0.587	0.000	2879.408	0.000
L21	64.75 - 63.5625	P42x0.575	1728.150	2879.408	0.600	0.000	2879.408	0.000

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	63.5625 - 62.375		1765.758	2879.408	0.613	0.000	2879.408	0.000
	62.375 - 61.1875		1803.983	2879.408	0.627	0.000	2879.408	0.000
	61.1875 - 60		1842.692	2879.408	0.640	0.000	2879.408	0.000
L22	60 - 59.75 (22)	P48x0.6125	1850.900	3972.717	0.466	0.000	3972.717	0.000
L23	59.75 - 58.75	P48x0.6125	1883.892	3972.717	0.474	0.000	3972.717	0.000
	58.75 - 57.75		1917.142	3972.717	0.483	0.000	3972.717	0.000
	57.75 - 56.75		1950.642	3972.717	0.491	0.000	3972.717	0.000
	56.75 - 55.75		1984.392	3972.717	0.500	0.000	3972.717	0.000
	55.75 - 54.75		2018.400	3972.717	0.508	0.000	3972.717	0.000
L24	54.75 - 53.75	P48x0.6125	2055.650	3972.717	0.517	0.000	3972.717	0.000
	53.75 - 52.75		2090.508	3972.717	0.526	0.000	3972.717	0.000
	52.75 - 51.75		2125.583	3972.717	0.535	0.000	3972.717	0.000
	51.75 - 50.75		2160.867	3972.717	0.544	0.000	3972.717	0.000
	50.75 - 49.75		2196.358	3972.717	0.553	0.000	3972.717	0.000
L25	49.75 - 48.75	P48x0.6125	2231.875	3972.717	0.562	0.000	3972.717	0.000
	48.75 - 47.75		2267.883	3972.717	0.571	0.000	3972.717	0.000
	47.75 - 46.75		2304.108	3972.717	0.580	0.000	3972.717	0.000
	46.75 - 45.75		2340.542	3972.717	0.589	0.000	3972.717	0.000
	45.75 - 44.75		2377.008	3972.717	0.598	0.000	3972.717	0.000
L26	44.75 - 43.5625	P48x0.6125	2420.975	3972.717	0.609	0.000	3972.717	0.000
	43.5625 - 42.375		2465.392	3972.717	0.621	0.000	3972.717	0.000
	42.375 - 41.1875		2510.258	3972.717	0.632	0.000	3972.717	0.000
	41.1875 - 40		2555.567	3972.717	0.643	0.000	3972.717	0.000
L27	40 - 39.75 (27)	P54x0.65	2564.967	5300.683	0.484	0.000	5300.683	0.000
L28	39.75 - 38.75	P54x0.65	2603.567	5300.683	0.491	0.000	5300.683	0.000
	38.75 - 37.75		2642.417	5300.683	0.499	0.000	5300.683	0.000
	37.75 - 36.75		2681.308	5300.683	0.506	0.000	5300.683	0.000
	36.75 - 35.75		2720.733	5300.683	0.513	0.000	5300.683	0.000
	35.75 - 34.75		2760.400	5300.683	0.521	0.000	5300.683	0.000
L29	34.75 - 33.75	P54x0.65	2800.308	5300.683	0.528	0.000	5300.683	0.000
	33.75 - 32.75		2840.433	5300.683	0.536	0.000	5300.683	0.000
	32.75 - 31.75		2880.775	5300.683	0.543	0.000	5300.683	0.000
	31.75 - 30.75		2921.333	5300.683	0.551	0.000	5300.683	0.000
	30.75 - 29.75		2962.108	5300.683	0.559	0.000	5300.683	0.000
L30	29.75 - 28.75	P54x0.65	3003.100	5300.683	0.567	0.000	5300.683	0.000
	28.75 - 27.75		3044.325	5300.683	0.574	0.000	5300.683	0.000
	27.75 - 26.75		3085.775	5300.683	0.582	0.000	5300.683	0.000
	26.75 - 25.75		3127.458	5300.683	0.590	0.000	5300.683	0.000
	25.75 - 24.75		3169.375	5300.683	0.598	0.000	5300.683	0.000
L31	24.75 - 23.5625	P54x0.65	3219.492	5300.683	0.607	0.000	5300.683	0.000
	23.5625 - 22.375		3270.025	5300.683	0.617	0.000	5300.683	0.000
	22.375 - 21.1875		3320.967	5300.683	0.627	0.000	5300.683	0.000
	21.1875 - 20		3372.333	5300.683	0.636	0.000	5300.683	0.000
L32	20 - 19.75 (32)	P60x0.625	3383.200	6198.183	0.546	0.000	6198.183	0.000
L33	19.75 - 18.75	P60x0.625	3426.800	6198.183	0.553	0.000	6198.183	0.000
	18.75 - 17.75		3470.633	6198.183	0.560	0.000	6198.183	0.000
	17.75 - 16.75		3514.700	6198.183	0.567	0.000	6198.183	0.000
	16.75 - 15.75		3558.992	6198.183	0.574	0.000	6198.183	0.000
	15.75 - 14.75		3603.517	6198.183	0.581	0.000	6198.183	0.000
L34	14.75 - 13.75	P60x0.625	3648.258	6198.183	0.589	0.000	6198.183	0.000
	13.75 - 12.75		3693.200	6198.183	0.596	0.000	6198.183	0.000
	12.75 - 11.75		3738.333	6198.183	0.603	0.000	6198.183	0.000

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L35	11.75 - 10.75	P60x0.625	3783.667	6198.183	0.610	0.000	6198.183	0.000
	10.75 - 9.75		3829.200	6198.183	0.618	0.000	6198.183	0.000
	9.75 - 8.75		3874.925	6198.183	0.625	0.000	6198.183	0.000
	8.75 - 7.75		3920.833	6198.183	0.633	0.000	6198.183	0.000
	7.75 - 6.75		3966.933	6198.183	0.640	0.000	6198.183	0.000
L36	6.75 - 5.75	P60x0.625	4013.225	6198.183	0.647	0.000	6198.183	0.000
	5.75 - 4.75		4059.708	6198.183	0.655	0.000	6198.183	0.000
	4.75 - 3.5625		4115.142	6198.183	0.664	0.000	6198.183	0.000
	3.5625 - 2.375		4170.842	6198.183	0.673	0.000	6198.183	0.000
	2.375 - 1.1875		4226.800	6198.183	0.682	0.000	6198.183	0.000
	1.1875 - 0		4283.025	6198.183	0.691	0.000	6198.183	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	147.5 - 146.5	P24x0.375	6.834	315.621	0.022	0.065	655.568	0.000
	146.5 - 145.5		6.907	315.621	0.022	0.065	655.568	0.000
	145.5 - 144.5		6.980	315.621	0.022	0.065	655.568	0.000
	144.5 - 143.5		7.053	315.621	0.022	0.065	655.568	0.000
	143.5 - 142.5		7.125	315.621	0.023	0.065	655.568	0.000
L2	142.5 - 141.5	P24x0.375	7.198	315.621	0.023	0.065	655.568	0.000
	141.5 - 140.5		7.270	315.621	0.023	0.065	655.568	0.000
	140.5 - 139.5		11.859	315.621	0.038	0.218	655.568	0.000
	139.5 - 138.5		11.930	315.621	0.038	0.218	655.568	0.000
	138.5 - 137.5		12.001	315.621	0.038	0.218	655.568	0.000
L3	137.5 - 136.5	P24x0.375	12.072	315.621	0.038	0.218	655.568	0.000
	136.5 - 135.5		12.142	315.621	0.038	0.218	655.568	0.000
	135.5 - 134.5		12.211	315.621	0.039	0.218	655.568	0.000
	134.5 - 133.5		12.281	315.621	0.039	0.218	655.568	0.000
	133.5 - 132.5		12.350	315.621	0.039	0.218	655.568	0.000
L4	132.5 - 131.5	P24x0.375	12.418	315.621	0.039	0.218	655.568	0.000
	131.5 - 130.5		12.486	315.621	0.040	0.218	655.568	0.000
	130.5 - 129.5		15.957	315.621	0.051	0.218	655.568	0.000
	129.5 - 128.5		16.022	315.621	0.051	0.218	655.568	0.000
	128.5 - 127.5		16.242	315.621	0.051	0.218	655.568	0.000
L5	127.5 - 126.25	P24x0.375	16.322	315.621	0.052	0.077	655.568	0.000
	126.25 - 125		16.400	315.621	0.052	0.077	655.568	0.000
L6	125 - 124	P30x0.375	16.480	395.779	0.042	0.077	994.725	0.000
	124 - 123		16.563	395.779	0.042	0.077	994.725	0.000
	123 - 122		16.645	395.779	0.042	0.077	994.725	0.000
	122 - 121		16.727	395.779	0.042	0.077	994.725	0.000
	121 - 120		16.809	395.779	0.042	0.077	994.725	0.000
L7	120 - 119	P30x0.375	16.889	395.779	0.043	0.077	994.725	0.000
	119 - 118		16.969	395.779	0.043	0.077	994.725	0.000
	118 - 117		17.049	395.779	0.043	0.077	994.725	0.000
	117 - 116		17.128	395.779	0.043	0.077	994.725	0.000
	116 - 115		17.206	395.779	0.043	0.077	994.725	0.000
L8	115 - 114	P30x0.375	17.283	395.779	0.044	0.077	994.725	0.000
	114 - 113		17.402	395.779	0.044	0.746	994.725	0.001
	113 - 112		17.478	395.779	0.044	0.746	994.725	0.001
	112 - 111		17.553	395.779	0.044	0.746	994.725	0.001
	111 - 110		17.628	395.779	0.045	0.746	994.725	0.001
L9	110 - 109	P30x0.375	17.701	395.779	0.045	0.746	994.725	0.001
	109 - 108		17.774	395.779	0.045	0.746	994.725	0.001

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L10	108 - 107	P30x0.375	17.846	395.779	0.045	0.746	994.725	0.001
	107 - 106		17.918	395.779	0.045	0.746	994.725	0.001
	106 - 105		17.988	395.779	0.045	0.746	994.725	0.001
	105 - 104		23.325	395.779	0.059	0.746	994.725	0.001
	104 - 103		23.405	395.779	0.059	0.746	994.725	0.001
	103 - 102		23.484	395.779	0.059	0.746	994.725	0.001
	102 - 101		23.563	395.779	0.060	0.746	994.725	0.001
L11	101 - 100	P36x0.375	23.640	395.779	0.060	0.746	994.725	0.001
	100 - 99		23.732	454.187	0.052	0.746	1094.275	0.001
	99 - 98		23.828	454.187	0.052	0.746	1094.275	0.001
	98 - 97		23.922	454.187	0.053	0.746	1094.275	0.001
	97 - 96		24.017	454.187	0.053	0.746	1094.275	0.001
	96 - 95		24.110	454.187	0.053	0.746	1094.275	0.001
	95 - 94.25 (12)		24.571	454.187	0.054	0.746	1094.275	0.001
L12	94.25 - 94 (13)	P36x0.49375	24.591	624.561	0.039	0.746	1949.658	0.000
L14	94 - 93	P36x0.49375	24.692	624.561	0.040	0.746	1949.658	0.000
	93 - 92		24.788	624.561	0.040	0.746	1949.658	0.000
	92 - 91		24.883	624.561	0.040	0.746	1949.658	0.000
	91 - 90		25.335	624.561	0.041	1.199	1949.658	0.001
	90 - 89		25.510	624.561	0.041	1.199	1949.658	0.001
	89 - 88		25.917	624.561	0.041	1.199	1949.658	0.001
	88 - 87		26.094	624.561	0.042	0.169	1949.658	0.000
L16	87 - 86	P36x0.49375	26.271	624.561	0.042	0.169	1949.658	0.000
	86 - 85		26.447	624.561	0.042	0.169	1949.658	0.000
	85 - 84		26.622	624.561	0.043	0.169	1949.658	0.000
	84 - 83		26.831	624.561	0.043	0.169	1949.658	0.000
	83 - 82		27.038	624.561	0.043	0.169	1949.658	0.000
	82 - 81		27.245	624.561	0.044	0.169	1949.658	0.000
	81 - 80		27.450	624.561	0.044	0.169	1949.658	0.000
L17	80 - 79.75 (17)	P42x0.575	27.494	848.581	0.032	0.169	3090.550	0.000
L18	79.75 - 78.75	P42x0.575	27.716	848.581	0.033	0.169	3090.550	0.000
	78.75 - 77.75		27.934	848.581	0.033	0.169	3090.550	0.000
	77.75 - 76.75		28.152	848.581	0.033	0.169	3090.550	0.000
	76.75 - 75.75		28.369	848.581	0.033	0.169	3090.550	0.000
	75.75 - 74.75		28.585	848.581	0.034	0.169	3090.550	0.000
	74.75 - 73.75		28.783	848.581	0.034	0.169	3090.550	0.000
	73.75 - 72.75		28.981	848.581	0.034	0.169	3090.550	0.000
L19	72.75 - 71.75	P42x0.575	29.242	848.581	0.034	0.315	3090.550	0.000
	71.75 - 70.75		29.439	848.581	0.035	0.315	3090.550	0.000
	70.75 - 69.75		29.635	848.581	0.035	0.315	3090.550	0.000
	69.75 - 68.75		29.837	848.581	0.035	0.315	3090.550	0.000
	68.75 - 67.75		30.039	848.581	0.035	0.315	3090.550	0.000
	67.75 - 66.75		30.239	848.581	0.036	0.315	3090.550	0.000
	66.75 - 65.75		30.439	848.581	0.036	0.315	3090.550	0.000
L20	65.75 - 64.75	P42x0.575	30.638	848.581	0.036	0.315	3090.550	0.000
	64.75 - 63.5625		31.317	848.581	0.037	1.116	3090.550	0.000
	63.5625 - 62.375		32.022	848.581	0.038	0.544	3090.550	0.000
	62.375 - 61.1875		32.433	848.581	0.038	0.545	3090.550	0.000
	61.1875 - 60		32.842	848.581	0.039	0.545	3090.550	0.000
	60 - 59.75 (22)		32.891	1034.030	0.032	0.545	4306.692	0.000
	59.75 - 58.75		33.152	1034.030	0.032	0.545	4306.692	0.000
L23	58.75 - 57.75	P48x0.6125	33.406	1034.030	0.032	0.545	4306.692	0.000
	57.75 - 56.75		33.660	1034.030	0.033	0.545	4306.692	0.000
	56.75 - 55.75		33.913	1034.030	0.033	0.545	4306.692	0.000
	55.75 - 54.75		34.165	1034.030	0.033	0.545	4306.692	0.000
	54.75 - 53.75		34.780	1034.030	0.034	1.669	4306.692	0.000
	53.75 - 52.75		34.995	1034.030	0.034	1.669	4306.692	0.000

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L25	52.75 - 51.75	P48x0.6125	35.208	1034.030	0.034	1.669	4306.692	0.000
	51.75 - 50.75		35.421	1034.030	0.034	1.669	4306.692	0.000
	50.75 - 49.75		35.634	1034.030	0.034	1.669	4306.692	0.000
	49.75 - 48.75		35.931	1034.030	0.035	1.798	4306.692	0.000
	48.75 - 47.75		36.149	1034.030	0.035	1.798	4306.692	0.000
	47.75 - 46.75		36.366	1034.030	0.035	1.798	4306.692	0.000
	46.75 - 45.75		36.583	1034.030	0.035	1.798	4306.692	0.000
L26	45.75 - 44.75	P48x0.6125	36.875	1034.030	0.036	1.924	4306.692	0.000
	44.75 - 43.5625		37.257	1034.030	0.036	1.926	4306.692	0.000
	43.5625 - 42.375		37.635	1034.030	0.036	1.927	4306.692	0.000
	42.375 - 41.1875		38.012	1034.030	0.037	1.929	4306.692	0.000
L27	41.1875 - 40	P54x0.65	38.386	1034.030	0.037	1.930	4306.692	0.000
L28	40 - 39.75 (27)		38.504	1235.410	0.031	2.056	5711.983	0.000
	39.75 - 38.75		38.762	1235.410	0.031	2.056	5711.983	0.000
L29	38.75 - 37.75		39.012	1235.410	0.032	2.056	5711.983	0.000
	37.75 - 36.75		39.335	1235.410	0.032	2.187	5711.983	0.000
	36.75 - 35.75		39.585	1235.410	0.032	2.187	5711.983	0.000
	35.75 - 34.75		39.833	1235.410	0.032	2.187	5711.983	0.000
	34.75 - 33.75		40.051	1235.410	0.032	2.187	5711.983	0.000
	33.75 - 32.75		40.268	1235.410	0.033	2.186	5711.983	0.000
	32.75 - 31.75		40.485	1235.410	0.033	2.186	5711.983	0.000
L30	31.75 - 30.75	P54x0.65	40.701	1235.410	0.033	2.186	5711.983	0.000
	30.75 - 29.75		40.916	1235.410	0.033	2.186	5711.983	0.000
	29.75 - 28.75		41.148	1235.410	0.033	2.186	5711.983	0.000
	28.75 - 27.75		41.380	1235.410	0.033	2.186	5711.983	0.000
	27.75 - 26.75		41.611	1235.410	0.034	2.186	5711.983	0.000
	26.75 - 25.75		41.840	1235.410	0.034	2.186	5711.983	0.000
	25.75 - 24.75		42.069	1235.410	0.034	2.186	5711.983	0.000
L31	24.75 - 23.5625	P54x0.65	42.426	1235.410	0.034	2.196	5711.983	0.000
	23.5625 - 22.375		42.779	1235.410	0.035	2.205	5711.983	0.000
	22.375 - 21.1875		43.130	1235.410	0.035	2.214	5711.983	0.000
	21.1875 - 20		43.479	1235.410	0.035	2.224	5711.983	0.000
L32	20 - 19.75 (32)	P60x0.625	43.518	1322.050	0.033	2.224	5985.250	0.000
L33	19.75 - 18.75	P60x0.625	43.759	1322.050	0.033	2.224	5985.250	0.000
	18.75 - 17.75		43.991	1322.050	0.033	2.224	5985.250	0.000
	17.75 - 16.75		44.223	1322.050	0.033	2.224	5985.250	0.000
	16.75 - 15.75		44.453	1322.050	0.034	2.224	5985.250	0.000
	15.75 - 14.75		44.683	1322.050	0.034	2.224	5985.250	0.000
	14.75 - 13.75		44.881	1322.050	0.034	2.223	5985.250	0.000
	13.75 - 12.75		45.079	1322.050	0.034	2.223	5985.250	0.000
L34	12.75 - 11.75	P60x0.625	45.276	1322.050	0.034	2.223	5985.250	0.000
	11.75 - 10.75		45.472	1322.050	0.034	2.223	5985.250	0.000
	10.75 - 9.75		45.668	1322.050	0.035	2.223	5985.250	0.000
	9.75 - 8.75		45.859	1322.050	0.035	2.223	5985.250	0.000
	8.75 - 7.75		46.049	1322.050	0.035	2.223	5985.250	0.000
	7.75 - 6.75		46.238	1322.050	0.035	2.223	5985.250	0.000
	6.75 - 5.75		46.427	1322.050	0.035	2.223	5985.250	0.000
L35	5.75 - 4.75	P60x0.625	46.615	1322.050	0.035	2.223	5985.250	0.000
	4.75 - 3.5625		46.840	1322.050	0.035	2.223	5985.250	0.000
	3.5625 - 2.375		47.062	1322.050	0.036	2.223	5985.250	0.000
	2.375 - 1.1875		47.282	1322.050	0.036	2.223	5985.250	0.000
L36	1.1875 - 0	P60x0.625	47.501	1322.050	0.036	2.223	5985.250	0.000

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Pole Interaction Design Data

Section No.	Elevation <i>ft</i>	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
L1	147.5 - 146.5	0.004	0.045	0.000	0.022	0.000	0.049	1.050	4.8.2 ✓
	146.5 - 145.5	0.004	0.056	0.000	0.022	0.000	0.061	1.050	4.8.2 ✓
	145.5 - 144.5	0.004	0.067	0.000	0.022	0.000	0.072	1.050	4.8.2 ✓
	144.5 - 143.5	0.004	0.078	0.000	0.022	0.000	0.083	1.050	4.8.2 ✓
	143.5 - 142.5	0.004	0.090	0.000	0.023	0.000	0.095	1.050	4.8.2 ✓
L2	142.5 - 141.5	0.005	0.101	0.000	0.023	0.000	0.106	1.050	4.8.2 ✓
	141.5 - 140.5	0.005	0.113	0.000	0.023	0.000	0.118	1.050	4.8.2 ✓
	140.5 - 139.5	0.008	0.128	0.000	0.038	0.000	0.137	1.050	4.8.2 ✓
	139.5 - 138.5	0.008	0.147	0.000	0.038	0.000	0.157	1.050	4.8.2 ✓
	138.5 - 137.5	0.008	0.166	0.000	0.038	0.000	0.176	1.050	4.8.2 ✓
L3	137.5 - 136.5	0.008	0.185	0.000	0.038	0.000	0.195	1.050	4.8.2 ✓
	136.5 - 135.5	0.009	0.205	0.000	0.038	0.000	0.215	1.050	4.8.2 ✓
	135.5 - 134.5	0.009	0.224	0.000	0.039	0.000	0.235	1.050	4.8.2 ✓
	134.5 - 133.5	0.009	0.244	0.000	0.039	0.000	0.254	1.050	4.8.2 ✓
	133.5 - 132.5	0.009	0.264	0.000	0.039	0.000	0.274	1.050	4.8.2 ✓
L4	132.5 - 131.5	0.009	0.284	0.000	0.039	0.000	0.294	1.050	4.8.2 ✓
	131.5 - 130.5	0.009	0.304	0.000	0.040	0.000	0.314	1.050	4.8.2 ✓
	130.5 - 129.5	0.013	0.328	0.000	0.051	0.000	0.343	1.050	4.8.2 ✓
	129.5 - 128.5	0.013	0.354	0.000	0.051	0.000	0.369	1.050	4.8.2 ✓
	128.5 - 127.5	0.013	0.380	0.000	0.051	0.000	0.395	1.050	4.8.2 ✓
L5	127.5 - 126.25	0.013	0.412	0.000	0.052	0.000	0.428	1.050	4.8.2 ✓
	126.25 - 125	0.013	0.445	0.000	0.052	0.000	0.461	1.050	4.8.2 ✓
L6	125 - 124	0.011	0.310	0.000	0.042	0.000	0.323	1.050	4.8.2 ✓
	124 - 123	0.011	0.328	0.000	0.042	0.000	0.340	1.050	4.8.2 ✓

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L7	123 - 122	0.011	0.345	0.000	0.042	0.000	0.358	1.050	4.8.2 ✓
	122 - 121	0.011	0.363	0.000	0.042	0.000	0.376	1.050	4.8.2 ✓
	121 - 120	0.011	0.380	0.000	0.042	0.000	0.394	1.050	4.8.2 ✓
	120 - 119	0.012	0.398	0.000	0.043	0.000	0.412	1.050	4.8.2 ✓
	119 - 118	0.012	0.416	0.000	0.043	0.000	0.430	1.050	4.8.2 ✓
	118 - 117	0.012	0.434	0.000	0.043	0.000	0.448	1.050	4.8.2 ✓
	117 - 116	0.012	0.452	0.000	0.043	0.000	0.466	1.050	4.8.2 ✓
L8	116 - 115	0.012	0.470	0.000	0.043	0.000	0.484	1.050	4.8.2 ✓
	115 - 114	0.012	0.488	0.000	0.044	0.000	0.502	1.050	4.8.2 ✓
	114 - 113	0.012	0.507	0.000	0.044	0.001	0.521	1.050	4.8.2 ✓
	113 - 112	0.012	0.525	0.000	0.044	0.001	0.539	1.050	4.8.2 ✓
	112 - 111	0.013	0.543	0.000	0.044	0.001	0.558	1.050	4.8.2 ✓
L9	111 - 110	0.013	0.562	0.000	0.045	0.001	0.577	1.050	4.8.2 ✓
	110 - 109	0.013	0.581	0.000	0.045	0.001	0.596	1.050	4.8.2 ✓
	109 - 108	0.013	0.599	0.000	0.045	0.001	0.614	1.050	4.8.2 ✓
	108 - 107	0.013	0.618	0.000	0.045	0.001	0.633	1.050	4.8.2 ✓
	107 - 106	0.013	0.637	0.000	0.045	0.001	0.652	1.050	4.8.2 ✓
L10	106 - 105	0.013	0.656	0.000	0.045	0.001	0.671	1.050	4.8.2 ✓
	105 - 104	0.016	0.681	0.000	0.059	0.001	0.701	1.050	4.8.2 ✓
	104 - 103	0.016	0.705	0.000	0.059	0.001	0.725	1.050	4.8.2 ✓
	103 - 102	0.016	0.730	0.000	0.059	0.001	0.750	1.050	4.8.2 ✓
	102 - 101	0.017	0.755	0.000	0.060	0.001	0.775	1.050	4.8.2 ✓
L11	101 - 100	0.017	0.780	0.000	0.060	0.001	0.800	1.050	4.8.2 ✓
	100 - 99	0.015	0.570	0.000	0.052	0.001	0.588	1.050	4.8.2 ✓
	99 - 98	0.015	0.588	0.000	0.052	0.001	0.606	1.050	4.8.2 ✓
	98 - 97	0.015	0.605	0.000	0.053	0.001	0.624	1.050	4.8.2 ✓

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	97 - 96	0.015	0.623	0.000	0.053	0.001	0.642	1.050	4.8.2 ✓
	96 - 95	0.016	0.641	0.000	0.053	0.001	0.660	1.050	4.8.2 ✓
L12	95 - 94.25 (12)	0.016	0.655	0.000	0.054	0.001	0.674	1.050	4.8.2 ✓
L13	94.25 - 94 (13)	0.011	0.486	0.000	0.039	0.000	0.499	1.050	4.8.2 ✓
L14	94 - 93	0.012	0.500	0.000	0.040	0.000	0.513	1.050	4.8.2 ✓
	93 - 92	0.012	0.513	0.000	0.040	0.000	0.527	1.050	4.8.2 ✓
	92 - 91	0.012	0.527	0.000	0.040	0.000	0.540	1.050	4.8.2 ✓
	91 - 90	0.012	0.541	0.000	0.041	0.001	0.554	1.050	4.8.2 ✓
	90 - 89	0.012	0.555	0.000	0.041	0.001	0.568	1.050	4.8.2 ✓
L15	89 - 88	0.012	0.569	0.000	0.041	0.001	0.583	1.050	4.8.2 ✓
	88 - 87	0.012	0.584	0.000	0.042	0.000	0.598	1.050	4.8.2 ✓
	87 - 86	0.013	0.598	0.000	0.042	0.000	0.612	1.050	4.8.2 ✓
	86 - 85	0.013	0.612	0.000	0.042	0.000	0.627	1.050	4.8.2 ✓
	85 - 84	0.013	0.627	0.000	0.043	0.000	0.642	1.050	4.8.2 ✓
L16	84 - 83	0.013	0.642	0.000	0.043	0.000	0.657	1.050	4.8.2 ✓
	83 - 82	0.013	0.657	0.000	0.043	0.000	0.672	1.050	4.8.2 ✓
	82 - 81	0.014	0.672	0.000	0.044	0.000	0.687	1.050	4.8.2 ✓
	81 - 80	0.014	0.687	0.000	0.044	0.000	0.703	1.050	4.8.2 ✓
L17	80 - 79.75 (17)	0.010	0.436	0.000	0.032	0.000	0.447	1.050	4.8.2 ✓
L18	79.75 - 78.75	0.011	0.445	0.000	0.033	0.000	0.457	1.050	4.8.2 ✓
	78.75 - 77.75	0.011	0.455	0.000	0.033	0.000	0.467	1.050	4.8.2 ✓
	77.75 - 76.75	0.011	0.465	0.000	0.033	0.000	0.477	1.050	4.8.2 ✓
	76.75 - 75.75	0.011	0.475	0.000	0.033	0.000	0.487	1.050	4.8.2 ✓
	75.75 - 74.75	0.011	0.484	0.000	0.034	0.000	0.497	1.050	4.8.2 ✓
L19	74.75 - 73.75	0.011	0.494	0.000	0.034	0.000	0.507	1.050	4.8.2 ✓
	73.75 - 72.75	0.011	0.504	0.000	0.034	0.000	0.517	1.050	4.8.2 ✓

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L20	72.75 - 71.75	0.011	0.515	0.000	0.034	0.000	0.527	1.050	4.8.2 ✓
	71.75 - 70.75	0.012	0.525	0.000	0.035	0.000	0.538	1.050	4.8.2 ✓
	70.75 - 69.75	0.012	0.535	0.000	0.035	0.000	0.548	1.050	4.8.2 ✓
	69.75 - 68.75	0.012	0.545	0.000	0.035	0.000	0.559	1.050	4.8.2 ✓
	68.75 - 67.75	0.012	0.556	0.000	0.035	0.000	0.569	1.050	4.8.2 ✓
	67.75 - 66.75	0.012	0.566	0.000	0.036	0.000	0.580	1.050	4.8.2 ✓
	66.75 - 65.75	0.012	0.577	0.000	0.036	0.000	0.590	1.050	4.8.2 ✓
L21	65.75 - 64.75	0.013	0.587	0.000	0.036	0.000	0.601	1.050	4.8.2 ✓
	64.75 - 63.5625	0.013	0.600	0.000	0.037	0.000	0.614	1.050	4.8.2 ✓
	63.5625 - 62.375	0.013	0.613	0.000	0.038	0.000	0.628	1.050	4.8.2 ✓
	62.375 - 61.1875	0.014	0.627	0.000	0.038	0.000	0.642	1.050	4.8.2 ✓
L22	61.1875 - 60	0.014	0.640	0.000	0.039	0.000	0.656	1.050	4.8.2 ✓
	60 - 59.75 (22)	0.012	0.466	0.000	0.032	0.000	0.479	1.050	4.8.2 ✓
	59.75 - 58.75	0.012	0.474	0.000	0.032	0.000	0.487	1.050	4.8.2 ✓
	58.75 - 57.75	0.012	0.483	0.000	0.032	0.000	0.496	1.050	4.8.2 ✓
	57.75 - 56.75	0.012	0.491	0.000	0.033	0.000	0.504	1.050	4.8.2 ✓
L24	56.75 - 55.75	0.012	0.500	0.000	0.033	0.000	0.513	1.050	4.8.2 ✓
	55.75 - 54.75	0.013	0.508	0.000	0.033	0.000	0.522	1.050	4.8.2 ✓
	54.75 - 53.75	0.013	0.517	0.000	0.034	0.000	0.531	1.050	4.8.2 ✓
	53.75 - 52.75	0.013	0.526	0.000	0.034	0.000	0.540	1.050	4.8.2 ✓
	52.75 - 51.75	0.013	0.535	0.000	0.034	0.000	0.549	1.050	4.8.2 ✓
	51.75 - 50.75	0.013	0.544	0.000	0.034	0.000	0.558	1.050	4.8.2 ✓
	50.75 - 49.75	0.013	0.553	0.000	0.034	0.000	0.567	1.050	4.8.2 ✓
L25	49.75 - 48.75	0.013	0.562	0.000	0.035	0.000	0.576	1.050	4.8.2 ✓
	48.75 - 47.75	0.013	0.571	0.000	0.035	0.000	0.586	1.050	4.8.2 ✓
	47.75 - 46.75	0.014	0.580	0.000	0.035	0.000	0.595	1.050	4.8.2 ✓

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L26	46.75 - 45.75	0.014	0.589	0.000	0.035	0.000	0.604	1.050	4.8.2 ✓
	45.75 - 44.75	0.014	0.598	0.000	0.036	0.000	0.614	1.050	4.8.2 ✓
	44.75 - 43.5625	0.014	0.609	0.000	0.036	0.000	0.625	1.050	4.8.2 ✓
	43.5625 - 42.375	0.015	0.621	0.000	0.036	0.000	0.636	1.050	4.8.2 ✓
	42.375 - 41.1875	0.015	0.632	0.000	0.037	0.000	0.648	1.050	4.8.2 ✓
	41.1875 - 40	0.015	0.643	0.000	0.037	0.000	0.660	1.050	4.8.2 ✓
L27	40 - 39.75 (27)	0.013	0.484	0.000	0.031	0.000	0.498	1.050	4.8.2 ✓
L28	39.75 - 38.75	0.013	0.491	0.000	0.031	0.000	0.505	1.050	4.8.2 ✓
	38.75 - 37.75	0.013	0.499	0.000	0.032	0.000	0.513	1.050	4.8.2 ✓
	37.75 - 36.75	0.013	0.506	0.000	0.032	0.000	0.520	1.050	4.8.2 ✓
	36.75 - 35.75	0.014	0.513	0.000	0.032	0.000	0.528	1.050	4.8.2 ✓
	35.75 - 34.75	0.014	0.521	0.000	0.032	0.000	0.536	1.050	4.8.2 ✓
L29	34.75 - 33.75	0.014	0.528	0.000	0.032	0.000	0.543	1.050	4.8.2 ✓
	33.75 - 32.75	0.014	0.536	0.000	0.033	0.000	0.551	1.050	4.8.2 ✓
	32.75 - 31.75	0.014	0.543	0.000	0.033	0.000	0.559	1.050	4.8.2 ✓
	31.75 - 30.75	0.014	0.551	0.000	0.033	0.000	0.566	1.050	4.8.2 ✓
	30.75 - 29.75	0.014	0.559	0.000	0.033	0.000	0.574	1.050	4.8.2 ✓
L30	29.75 - 28.75	0.014	0.567	0.000	0.033	0.000	0.582	1.050	4.8.2 ✓
	28.75 - 27.75	0.015	0.574	0.000	0.033	0.000	0.590	1.050	4.8.2 ✓
	27.75 - 26.75	0.015	0.582	0.000	0.034	0.000	0.598	1.050	4.8.2 ✓
	26.75 - 25.75	0.015	0.590	0.000	0.034	0.000	0.606	1.050	4.8.2 ✓
L31	25.75 - 24.75	0.015	0.598	0.000	0.034	0.000	0.614	1.050	4.8.2 ✓
	24.75 - 23.5625	0.016	0.607	0.000	0.034	0.000	0.624	1.050	4.8.2 ✓
	23.5625 - 22.375	0.016	0.617	0.000	0.035	0.000	0.634	1.050	4.8.2 ✓
	22.375 - 21.1875	0.016	0.627	0.000	0.035	0.000	0.644	1.050	4.8.2 ✓
	21.1875 - 20	0.016	0.636	0.000	0.035	0.000	0.654	1.050	4.8.2 ✓

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	Client	Designed by
	Crown Castle	Divakara

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L32	20 - 19.75 (32)	0.016	0.546	0.000	0.033	0.000	0.563	1.050	4.8.2 ✓
L33	19.75 - 18.75	0.016	0.553	0.000	0.033	0.000	0.570	1.050	4.8.2 ✓
	18.75 - 17.75	0.016	0.560	0.000	0.033	0.000	0.577	1.050	4.8.2 ✓
	17.75 - 16.75	0.017	0.567	0.000	0.033	0.000	0.585	1.050	4.8.2 ✓
	16.75 - 15.75	0.017	0.574	0.000	0.034	0.000	0.592	1.050	4.8.2 ✓
	15.75 - 14.75	0.017	0.581	0.000	0.034	0.000	0.599	1.050	4.8.2 ✓
L34	14.75 - 13.75	0.017	0.589	0.000	0.034	0.000	0.607	1.050	4.8.2 ✓
	13.75 - 12.75	0.017	0.596	0.000	0.034	0.000	0.614	1.050	4.8.2 ✓
	12.75 - 11.75	0.017	0.603	0.000	0.034	0.000	0.622	1.050	4.8.2 ✓
	11.75 - 10.75	0.017	0.610	0.000	0.034	0.000	0.629	1.050	4.8.2 ✓
	10.75 - 9.75	0.018	0.618	0.000	0.035	0.000	0.637	1.050	4.8.2 ✓
L35	9.75 - 8.75	0.018	0.625	0.000	0.035	0.000	0.644	1.050	4.8.2 ✓
	8.75 - 7.75	0.018	0.633	0.000	0.035	0.000	0.652	1.050	4.8.2 ✓
	7.75 - 6.75	0.018	0.640	0.000	0.035	0.000	0.659	1.050	4.8.2 ✓
	6.75 - 5.75	0.018	0.647	0.000	0.035	0.000	0.667	1.050	4.8.2 ✓
	5.75 - 4.75	0.018	0.655	0.000	0.035	0.000	0.674	1.050	4.8.2 ✓
L36	4.75 - 3.5625	0.018	0.664	0.000	0.035	0.000	0.684	1.050	4.8.2 ✓
	3.5625 - 2.375	0.019	0.673	0.000	0.036	0.000	0.693	1.050	4.8.2 ✓
	2.375 - 1.1875	0.019	0.682	0.000	0.036	0.000	0.702	1.050	4.8.2 ✓
	1.1875 - 0	0.019	0.691	0.000	0.036	0.000	0.711	1.050	4.8.2 ✓

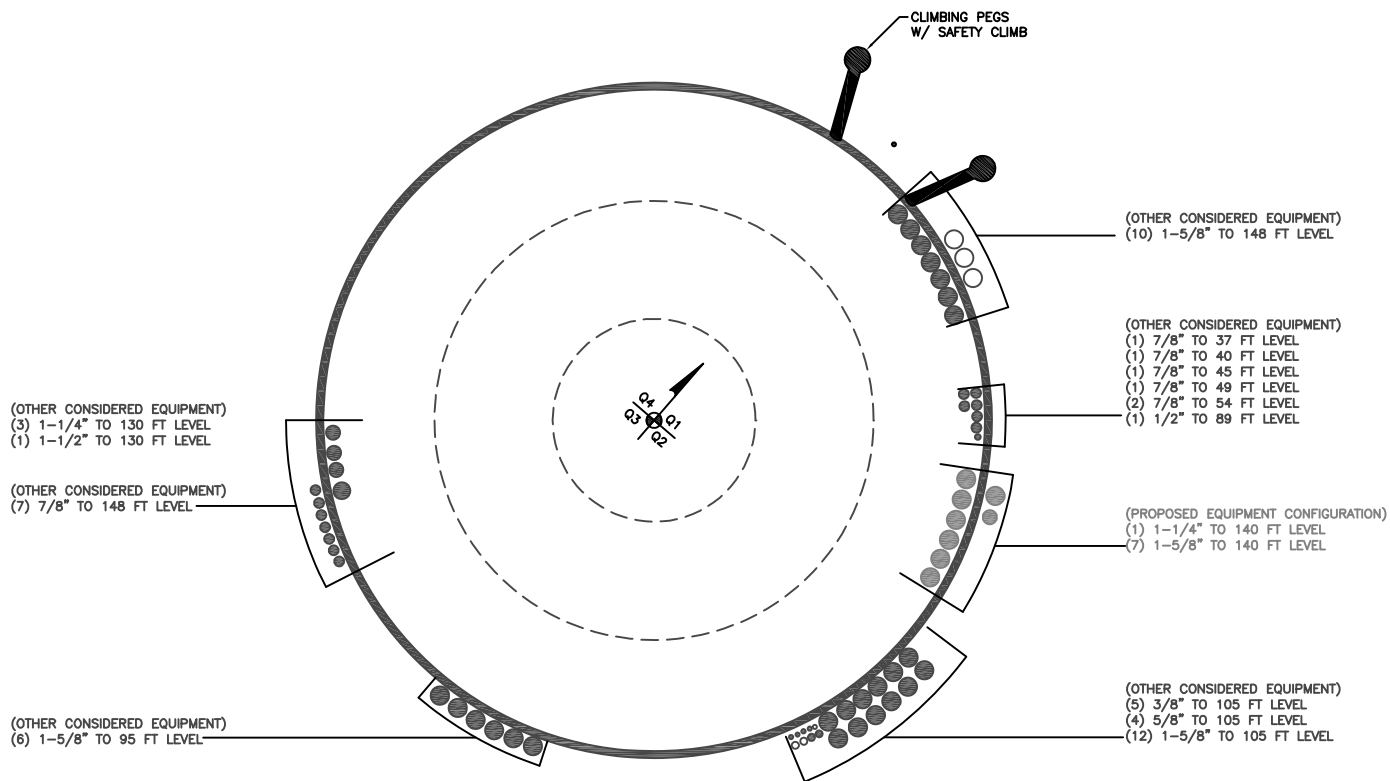
tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	Page
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	Client	Designed by
	Crown Castle	Divakara

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	147.5 - 142.5	Pole	P24x0.375	1	-4.709	1104.673	**	**
L2	142.5 - 137.5	Pole	P24x0.375	2	-8.743	1104.673	**	**
L3	137.5 - 132.5	Pole	P24x0.375	3	-9.416	1104.673	**	**
L4	132.5 - 127.5	Pole	P24x0.375	4	-13.702	1104.673	**	**
L5	127.5 - 125	Pole	P24x0.375	5	-14.069	1104.673	**	**
L6	125 - 120	Pole	P30x0.375	6	-14.930	1376.613	**	**
L7	120 - 115	Pole	P30x0.375	7	-15.798	1376.613	**	**
L8	115 - 110	Pole	P30x0.375	8	-16.682	1376.613	**	**
L9	110 - 105	Pole	P30x0.375	9	-17.576	1376.613	**	**
L10	105 - 100	Pole	P30x0.375	10	-22.019	1376.613	**	**
L11	100 - 95	Pole	P36x0.375	11	-23.140	1564.605	**	**
L12	95 - 94.25	Pole	P36x0.375	12	-23.600	1564.605	**	**
L13	94.25 - 94	Pole	P36x0.49375	13	-23.674	2185.963	**	**
L14	94 - 89	Pole	P36x0.49375	14	-25.014	2185.963	**	**
L15	89 - 84	Pole	P36x0.49375	15	-26.747	2185.963	**	**
L16	84 - 80	Pole	P36x0.49375	16	-29.176	2185.963	**	**
L17	80 - 79.75	Pole	P42x0.575	17	-29.297	2970.030	**	**
L18	79.75 - 74.75	Pole	P42x0.575	18	-31.382	2970.030	**	**
L19	74.75 - 69.75	Pole	P42x0.575	19	-33.227	2970.030	**	**
L20	69.75 - 64.75	Pole	P42x0.575	20	-35.397	2970.030	**	**
L21	64.75 - 60	Pole	P42x0.575	21	-40.145	2970.030	**	**
L22	60 - 59.75	Pole	P48x0.6125	22	-40.310	3619.098	**	**
L23	59.75 - 54.75	Pole	P48x0.6125	23	-43.122	3619.098	**	**
L24	54.75 - 49.75	Pole	P48x0.6125	24	-45.404	3619.098	**	**
L25	49.75 - 44.75	Pole	P48x0.6125	25	-48.080	3619.098	**	**
L26	44.75 - 40	Pole	P48x0.6125	26	-52.047	3619.098	**	**
L27	40 - 39.75	Pole	P54x0.65	27	-52.298	4244.646	**	**
L28	39.75 - 34.75	Pole	P54x0.65	28	-55.406	4244.646	**	**
L29	34.75 - 29.75	Pole	P54x0.65	29	-57.876	4244.646	**	**
L30	29.75 - 24.75	Pole	P54x0.65	30	-61.425	4244.646	**	**
L31	24.75 - 20	Pole	P54x0.65	31	-66.374	4244.646	**	**
L32	20 - 19.75	Pole	P60x0.625	32	-66.558	4346.107	**	**
L33	19.75 - 14.75	Pole	P60x0.625	33	-70.042	4346.107	**	**
L34	14.75 - 9.75	Pole	P60x0.625	34	-72.796	4346.107	**	**
L35	9.75 - 4.75	Pole	P60x0.625	35	-75.436	4346.107	**	**
L36	4.75 - 0	Pole	P60x0.625	36	-77.951	4346.107	**	**
							Summary	
							Pole (L10)	**
							RATING =	**

**See Additional Calculations

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 827050

APPENDIX C
ADDITIONAL CALCULATIONS

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	147.5	22.5		0	24	24	0.375		A53-B-42
2	125	25		0	30.00	30	0.375		A53-B-42
3	100	20		0	36.00	36	0.375		A53-B-42
4	80	20		0	42.00	42	0.375		A53-B-42
5	60	20		0	48.00	48	0.375		A53-B-42
6	40	20		0	54.00	54	0.375		A53-B-42
7	20	20		0	60.00	60	0.375		A53-B-42

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	20	plate	CCI-AFP-085125	4			60				150					240					330	
2	20	40	plate	CCI-AFP-085125	4			50				140					230					320	
3	40	60	plate	CCI-SFP-065125	4			50				140					230					320	
4	60	80	plate	CCI-SFP-060100	4			50				140					230					320	
5	80	94.25	plate	CCI-SFP-040075	4			50				140					230					320	
6																							
7																							
8																							
9																							
10																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Length (in)	Top Termination Length (in)	L _u (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	8.5	1.25	10.625	0.625	51.000	51.000	17.000	9.063	1.1875	A572-65
2	8.5	1.25	10.625	0.625	51.000	51.000	17.000	9.063	1.1875	A572-65
3	6.5	1.25	8.125	0.625	33.000	33.000	19.000	6.563	1.1875	A572-65
4	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
5	4	0.75	3	0.375	12.000	12.000	16.000	2.063	1.1875	A572-65

TNX Geometry Input

Increment (ft): 5

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	147.5 - 142.5	5		0	24.000	24.000	0.375	A53-B-42	1.000
2	142.5 - 137.5	5		0	24.000	24.000	0.375	A53-B-42	1.000
3	137.5 - 132.5	5		0	24.000	24.000	0.375	A53-B-42	1.000
4	132.5 - 127.5	5		0	24.000	24.000	0.375	A53-B-42	1.000
5	127.5 - 125	2.5	0	0	24.000	24.000	0.375	A53-B-42	1.000
6	125 - 120	5		0	30.000	30.000	0.375	A53-B-42	1.000
7	120 - 115	5		0	30.000	30.000	0.375	A53-B-42	1.000
8	115 - 110	5		0	30.000	30.000	0.375	A53-B-42	1.000
9	110 - 105	5		0	30.000	30.000	0.375	A53-B-42	1.000
10	105 - 100	5	0	0	30.000	30.000	0.375	A53-B-42	1.000
11	100 - 95	5		0	36.000	36.000	0.375	A53-B-42	1.000
12	95 - 94.25	0.75		0	36.000	36.000	0.375	A53-B-42	1.000
13	94.25 - 94	0.25		0	36.000	36.000	0.49375	A53-B-42	0.980
14	94 - 89	5		0	36.000	36.000	0.49375	A53-B-42	0.980
15	89 - 84	5		0	36.000	36.000	0.49375	A53-B-42	0.980
16	84 - 80	4	0	0	36.000	36.000	0.49375	A53-B-42	0.980
17	80 - 79.75	0.25		0	42.000	42.000	0.575	A53-B-42	0.976
18	79.75 - 74.75	5		0	42.000	42.000	0.575	A53-B-42	0.976
19	74.75 - 69.75	5		0	42.000	42.000	0.575	A53-B-42	0.976
20	69.75 - 64.75	5		0	42.000	42.000	0.575	A53-B-42	0.976
21	64.75 - 60	4.75	0	0	42.000	42.000	0.575	A53-B-42	0.976
22	60 - 59.75	0.25		0	48.000	48.000	0.6125	A53-B-42	0.972
23	59.75 - 54.75	5		0	48.000	48.000	0.6125	A53-B-42	0.972
24	54.75 - 49.75	5		0	48.000	48.000	0.6125	A53-B-42	0.972
25	49.75 - 44.75	5		0	48.000	48.000	0.6125	A53-B-42	0.972
26	44.75 - 40	4.75	0	0	48.000	48.000	0.6125	A53-B-42	0.972
27	40 - 39.75	0.25		0	54.000	54.000	0.65	A53-B-42	0.970
28	39.75 - 34.75	5		0	54.000	54.000	0.65	A53-B-42	0.970
29	34.75 - 29.75	5		0	54.000	54.000	0.65	A53-B-42	0.970
30	29.75 - 24.75	5		0	54.000	54.000	0.65	A53-B-42	0.970
31	24.75 - 20	4.75	0	0	54.000	54.000	0.65	A53-B-42	0.970
32	20 - 19.75	0.25		0	60.000	60.000	0.625	A53-B-42	0.967
33	19.75 - 14.75	5		0	60.000	60.000	0.625	A53-B-42	0.967
34	14.75 - 9.75	5		0	60.000	60.000	0.625	A53-B-42	0.967
35	9.75 - 4.75	5		0	60.000	60.000	0.625	A53-B-42	0.967
36	4.75 - 0	4.75		0	60.000	60.000	0.625	A53-B-42	0.967

TNX Section Forces

Increment (ft):		TNX Output		
		5		
	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	147.5 - 142.5	4.71	55.98	7.13
2	142.5 - 137.5	8.74	103.63	12.00
3	137.5 - 132.5	9.42	164.52	12.35
4	132.5 - 127.5	13.70	236.76	16.24
5	127.5 - 125	14.07	277.56	16.40
6	125 - 120	14.93	360.58	16.81
7	120 - 115	15.80	445.62	17.21
8	115 - 110	16.68	532.66	17.63
9	110 - 105	17.58	621.68	17.99
10	105 - 100	22.02	739.26	23.64
11	100 - 95	23.14	858.66	24.11
12	95 - 94.25	23.60	877.06	24.57
13	94.25 - 94	23.67	883.21	24.59
14	94 - 89	25.01	1007.92	25.51
15	89 - 84	26.75	1139.41	26.62
16	84 - 80	29.18	1247.94	27.45
17	80 - 79.75	29.30	1254.81	27.49
18	79.75 - 74.75	31.38	1395.06	28.58
19	74.75 - 69.75	33.23	1540.74	29.64
20	69.75 - 64.75	35.40	1691.48	30.64
21	64.75 - 60	40.14	1842.69	32.84
22	60 - 59.75	40.31	1850.90	32.89
23	59.75 - 54.75	43.12	2018.40	34.17
24	54.75 - 49.75	45.40	2196.36	35.63
25	49.75 - 44.75	48.08	2377.01	36.87
26	44.75 - 40	52.05	2555.57	38.39
27	40 - 39.75	52.30	2564.97	38.50
28	39.75 - 34.75	55.41	2760.40	39.83
29	34.75 - 29.75	57.88	2962.11	40.92
30	29.75 - 24.75	61.42	3169.38	42.07
31	24.75 - 20	66.37	3372.33	43.48
32	20 - 19.75	66.56	3383.20	43.52
33	19.75 - 14.75	70.04	3603.52	44.68
34	14.75 - 9.75	72.80	3829.20	45.67
35	9.75 - 4.75	75.44	4059.71	46.62
36	4.75 - 0	77.95	4283.03	47.50

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
147.5 - 142.5	Pole	TP24x24x0.375	Pole	9.0%	Pass
142.5 - 137.5	Pole	TP24x24x0.375	Pole	16.7%	Pass
137.5 - 132.5	Pole	TP24x24x0.375	Pole	26.0%	Pass
132.5 - 127.5	Pole	TP24x24x0.375	Pole	37.5%	Pass
127.5 - 125	Pole	TP24x24x0.375	Pole	43.7%	Pass
125 - 120	Pole	TP30x30x0.375	Pole	37.4%	Pass
120 - 115	Pole	TP30x30x0.375	Pole	46.0%	Pass
115 - 110	Pole	TP30x30x0.375	Pole	54.8%	Pass
110 - 105	Pole	TP30x30x0.375	Pole	63.8%	Pass
105 - 100	Pole	TP30x30x0.375	Pole	76.0%	Pass
100 - 95	Pole	TP36x36x0.375	Pole	62.7%	Pass
95 - 94.25	Pole	TP36x36x0.375	Pole	64.0%	Pass
94.25 - 94	Pole + Reinf.	TP36x36x0.4938	Reinf. 5 Tension Rupture	52.9%	Pass
94 - 89	Pole + Reinf.	TP36x36x0.4938	Reinf. 5 Tension Rupture	60.3%	Pass
89 - 84	Pole + Reinf.	TP36x36x0.4938	Reinf. 5 Tension Rupture	68.1%	Pass
84 - 80	Pole + Reinf.	TP36x36x0.4938	Reinf. 5 Tension Rupture	74.5%	Pass
80 - 79.75	Pole + Reinf.	TP42x42x0.575	Pole	44.6%	Pass
79.75 - 74.75	Pole + Reinf.	TP42x42x0.575	Pole	49.6%	Pass
74.75 - 69.75	Pole + Reinf.	TP42x42x0.575	Pole	54.7%	Pass
69.75 - 64.75	Pole + Reinf.	TP42x42x0.575	Pole	60.0%	Pass
64.75 - 60	Pole + Reinf.	TP42x42x0.575	Pole	65.4%	Pass
60 - 59.75	Pole + Reinf.	TP48x48x0.6125	Pole	47.9%	Pass
59.75 - 54.75	Pole + Reinf.	TP48x48x0.6125	Pole	52.2%	Pass
54.75 - 49.75	Pole + Reinf.	TP48x48x0.6125	Pole	56.8%	Pass
49.75 - 44.75	Pole + Reinf.	TP48x48x0.6125	Pole	61.5%	Pass
44.75 - 40	Pole + Reinf.	TP48x48x0.6125	Pole	66.1%	Pass
40 - 39.75	Pole + Reinf.	TP54x54x0.65	Pole	50.0%	Pass
39.75 - 34.75	Pole + Reinf.	TP54x54x0.65	Pole	53.8%	Pass
34.75 - 29.75	Pole + Reinf.	TP54x54x0.65	Pole	57.7%	Pass
29.75 - 24.75	Pole + Reinf.	TP54x54x0.65	Pole	61.7%	Pass
24.75 - 20	Pole + Reinf.	TP54x54x0.65	Pole	65.7%	Pass
20 - 19.75	Pole + Reinf.	TP60x60x0.625	Pole	56.4%	Pass
19.75 - 14.75	Pole + Reinf.	TP60x60x0.625	Pole	60.1%	Pass
14.75 - 9.75	Pole + Reinf.	TP60x60x0.625	Pole	63.8%	Pass
9.75 - 4.75	Pole + Reinf.	TP60x60x0.625	Pole	67.6%	Pass
4.75 - 0	Pole + Reinf.	TP60x60x0.625	Pole	71.3%	Pass
				Summary	
			Pole	76.0%	Pass
			Reinforcement	74.5%	Pass
			Overall	76.0%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity*					
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5
147.5 - 142.5	1942	n/a	1942	27.83	n/a	27.83	9.0%					
142.5 - 137.5	1942	n/a	1942	27.83	n/a	27.83	16.7%					
137.5 - 132.5	1942	n/a	1942	27.83	n/a	27.83	26.0%					
132.5 - 127.5	1942	n/a	1942	27.83	n/a	27.83	37.5%					
127.5 - 125	1942	n/a	1942	27.83	n/a	27.83	43.7%					
125 - 120	3829	n/a	3829	34.90	n/a	34.90	37.4%					
120 - 115	3829	n/a	3829	34.90	n/a	34.90	46.0%					
115 - 110	3829	n/a	3829	34.90	n/a	34.90	54.8%					
110 - 105	3829	n/a	3829	34.90	n/a	34.90	63.8%					
105 - 100	3829	n/a	3829	34.90	n/a	34.90	76.0%					
100 - 95	6659	n/a	6659	41.97	n/a	41.97	62.7%					
95 - 94.25	6659	n/a	6659	41.97	n/a	41.97	64.0%					
94.25 - 94	6659	2034	8693	41.97	12.00	53.97	49.3%					52.9%
94 - 89	6659	2034	8693	41.97	12.00	53.97	56.2%					60.3%
89 - 84	6659	2034	8693	41.97	12.00	53.97	63.4%					68.1%
84 - 80	6659	2034	8693	41.97	12.00	53.97	69.5%					74.5%
80 - 79.75	10622	5584	16206	49.04	24.00	73.04	44.6%				41.1%	
79.75 - 74.75	10622	5584	16206	49.04	24.00	73.04	49.6%				45.6%	
74.75 - 69.75	10622	5584	16206	49.04	24.00	73.04	54.7%				50.3%	
69.75 - 64.75	10622	5584	16206	49.04	24.00	73.04	60.0%				55.2%	
64.75 - 60	10622	5584	16206	49.04	24.00	73.04	65.4%				60.2%	
60 - 59.75	15908	9913	25821	56.11	32.50	88.61	47.9%			42.8%		
59.75 - 54.75	15908	9913	25821	56.11	32.50	88.61	52.2%			46.6%		
54.75 - 49.75	15908	9913	25821	56.11	32.50	88.61	56.8%			50.7%		
49.75 - 44.75	15908	9913	25821	56.11	32.50	88.61	61.5%			54.8%		
44.75 - 40	15908	9913	25821	56.11	32.50	88.61	66.1%			59.0%		
40 - 39.75	22710	16347	39057	63.18	42.50	105.68	50.0%		41.8%			
39.75 - 34.75	22710	16347	39057	63.18	42.50	105.68	53.8%		44.9%			
34.75 - 29.75	22710	16347	39057	63.18	42.50	105.68	57.7%		48.2%			
29.75 - 24.75	22710	16347	39057	63.18	42.50	105.68	61.7%		51.6%			
24.75 - 20	22710	16347	39057	63.18	42.50	105.68	65.7%		54.9%			
20 - 19.75	31217	20061	51278	70.24	42.50	112.74	56.4%	46.7%				
19.75 - 14.75	31217	20061	51278	70.24	42.50	112.74	60.1%	49.7%				
14.75 - 9.75	31217	20061	51278	70.24	42.50	112.74	63.8%	52.8%				
9.75 - 4.75	31217	20061	51278	70.24	42.50	112.74	67.6%	55.9%				
4.75 - 0	31217	20061	51278	70.24	42.50	112.74	71.3%	58.9%				

Note: Section capacity checked in 5 degree increments.

Rating per TIA-222-H Section 15.5.

Monopole Flange Plate Connection

Elevation = 125 ft.

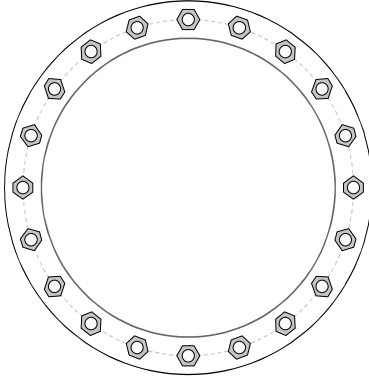


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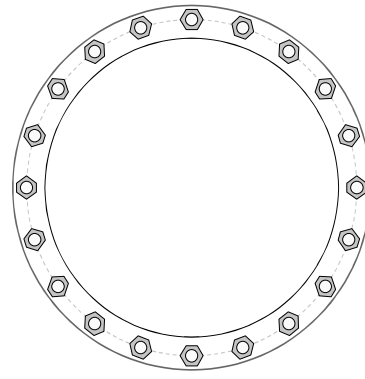
Applied Loads	
Moment (kip-ft)	277.56
Axial Force (kips)	14.07
Shear Force (kips)	16.40

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(20) 1" ϕ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 27" BC

Top Plate Data

30" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

24" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

24" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data

30" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	23.96
Allowable (kips)	54.53
Stress Rating:	41.8% Pass

Top Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	N/A
Tension Side Stress Rating:	N/A

Bottom Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	N/A
Tension Side Stress Rating:	N/A

Monopole Flange Plate Connection

Elevation = 100 ft.

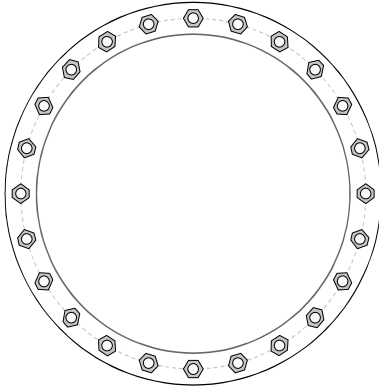


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Site Name	Rocky Hill/ Rte 160_1, C
Order #	506777, Rev# 0
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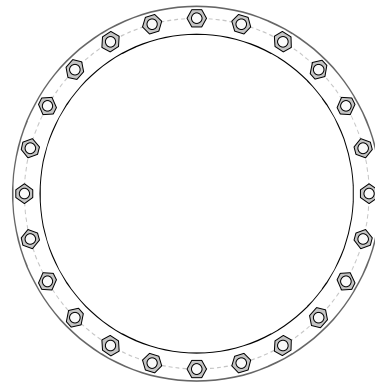
Applied Loads	
Moment (kip-ft)	739.26
Axial Force (kips)	22.02
Shear Force (kips)	23.64

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(24) 1" ϕ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 33" BC

Top Plate Data

36" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

30" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

30" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

36" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	43.87
Allowable (kips)	54.52
Stress Rating:	76.6% Pass

Top Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	N/A
Tension Side Stress Rating:	N/A

Bottom Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	N/A
Tension Side Stress Rating:	N/A

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 80 ft		
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Bolted Bridge Stiffeners Reinforcement Check

Assumptions / Notes:

1. For design purposes, it is assumed that the proposed bridge stiffeners are to take the full load.
2. The plastification of the pole is not considered.
3. All shear and axial loads are taken by the flange bolts.

1. PARAMETERS

Elevation 80 ft

Apply TIA-222-H Section 15.5?

Rev. H
No

1.1 tnxTower Reactions

Moment (M)	1247.94 k-ft
Axial Load (P)	29.18 kip
Shear Load (V)	27.45 kips

1.2 Shaft Properties at the Flange

Upper Shaft Diameter (Dshaft1)	36 in
Upper Shaft Thichkness (t1)	0.375 in
Lower Shaft Diameter (Dshaft2)	42 in
Lower Shaft Thickness (t2)	0.375 in
Shaft Grade:	
Fyshaft	42 ksi
Fushaft	63 ksi

1.3 Existing Bridge Stiffeners Properties

(Verify existing bolted connection for reduced moment.)

Number of Proposed Bridge Stiffeners (Nexist)	4
Thickness of Proposed Bridge Stiffeners (textist)	1 in
Width of Proposed Bridge Stiffeners (wexist)	6 in
Existing Bridge Stiffener Grade:	
Fyex	65 ksi
Fuex	80 ksi
Diameter to the centroid of Existing Bridge Stiffeners (BCexist)	43 in
Gross Area of One Existing Bridge Stiffener (Ag_exist)	6 in^2
Radius of Gyration about x-axis (rx)	0.289 in
Moment of Inertia of Existing Bridge Stiffeners (Iexist)	5547 in^4

1.4 Flange Bolt Properties

Number of Flange Bolts (Nbolts)	28
Diameter of Flange Bolts	1 in
Bolt Circle of Flange Bolts (BCbolts)	39 in
Gross Area of One Flange Bolt (Ag_bolts)	0.785 in^2
Moment of Inertia of Flange Bolts (Ibolts)	4181 in^4

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 80 ft		
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1.5 Division of Forces

Total Gross Area (Ag_total)	45.99 in ²
Total Moment of Inertia (Itotal)	9728 in ⁴

1.6 Reactions to Existing Bridge Stiffeners

Moment Reaction to Existing Bridge Stiffeners (Mexist)	711.6 kip-ft
Axial Reaction to Existing Bridge Stiffeners (Pexist)	0.0 kips
Shear Reaction to Flange Bolts (Vexist)	0.0 kips

1.7 Reactions to Flange Bolts

(It is assumed that all shear and axial loads are taken by the flange bolts)

Moment Reaction to Flange Bolts (Mbolts)	536.4 kip-ft	} Check Flange Connection with these Reactions
Axial Reaction to Flange Bolts (Pbolts)	29.2 kips	
Shear Reaction to Flange Bolts (Vbolts)	27.5 kips	

2. Existing Bridge Stiffener

2.1 Maximum Axial Forces in Single Existing

Outer Radius of Bolt Circle (C)	21.5 in
Critical Compression Bending Stress (Pcomp)	198.6 kips
Critical Tension Bending Stress (Ptens)	198.6 kips

2.2 Available Compression Strength

[AISC 15th Edition E3-1]

Resistance Factor (ϕ_c)	0.9	
Unbraced Length (Lu)	16 in	
Effective Length Factor (K)	1	
Strength of Bridge Stiffener:		
Fy	65 ksi	
Fu	80 ksi	
Effective Length of Member (Lc)	16.00 in	[AISC 15th Edition E3-2]
Elastic Buckling Stress (Fe)	93.2 ksi	[AISC 15th Edition, Eq. E3-4]
Limit	99.5	
Determination of Critical Stress (Fcr)	48.5 ksi	
[AISC 15th Edition, Eqs. E3-2 and E3-3]		

Allowable Compressive Strength (ϕP_n)	262.1 kips
[AISC 15th Ed., Eqs. J4-6 and E3-1]	

Check Compressive Strength (Checkcomp)

75.8%

Pass

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 80 ft		
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2.3 Available Tension Strength

Gross Section Yield

Available Tension Yield Strength (ϕP_t) 351.0 kips
[AISC 15th Ed., Ch.D2]

Net Section Fracture

Bolt Hole Diameter (BH) 1.188 in
Thickness (T) 1.00 in
Net Area (A_{net}) 4.750 in²
Net Area Limitation (A_e) 4.750 in²
Available Fractile Strength (ϕP_{tr}) 285.0 kips

Tension Check

Controlling Mode of Failure (Check mode) Fracture Controls
(ϕP_{nt}) 285.0 kips
Controlling Tension Mode Check (Checktension) 69.7% **Pass**

SUMMARY

tnxTower Reactions

M 1247.9 kip-ft
P 29.2 kip
V 27.5 kip

Flange Bolts

Diameter of Flange Bolts (Dbolts) 1.00 in
Bolt Circle of Flange Bolts (BCbolts) 39.0 in
Loads to Flange Bolts

Mbolts 536.4 kip-ft
P 29.2 kip
V 27.5 kip

} See Flange tool for Flange Bolt and Plate Capacities

Existing Jump Plates

Moment to Existing Bridge Stiffeners (Mexist) 711.6 kip-ft
Number of Existing Bridge Stiffeners (Nexist) 4
Thickness (texist) 1.00 in
Width (wexist) 6.00 in
Controlling Capacity of Existing Bridge Stiffeners (Capacitymax) 75.8% **Pass**

Monopole Flange Plate Connection

Elevation = 80 ft.

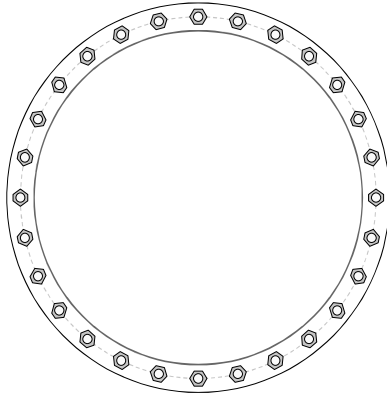


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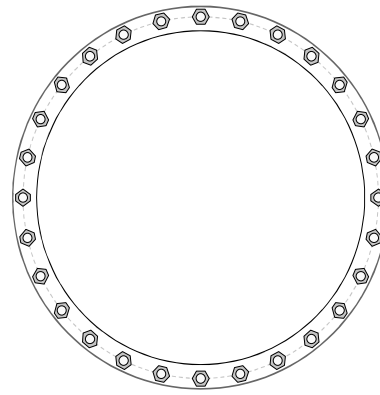
Applied Loads	
Moment (kip-ft)	536.40
Axial Force (kips)	29.18
Shear Force (kips)	27.45

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(28) 1" ϕ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 39" BC

Top Plate Data

42" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

36" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

36" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

42" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	22.53
Allowable (kips)	54.52
Stress Rating:	39.4% Pass

Top Plate Capacity

Max Stress (ksi):	14.73	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	43.3%	Pass
Tension Side Stress Rating:	15.0%	Pass

Bottom Plate Capacity

Max Stress (ksi):	15.32	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	45.0%	Pass
Tension Side Stress Rating:	N/A	

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 60 ft		
DATE	12-03-19	PAGE 1	OF 3

V1.0.1.1

Bolted Bridge Stiffeners Reinforcement Check

Assumptions / Notes:

1. For design purposes, it is assumed that the proposed bridge stiffeners are to take the full load.
2. The plastification of the pole is not considered.
3. All shear and axial loads are taken by the flange bolts.

1. PARAMETERS

Elevation 60 ft

Apply TIA-222-H Section 15.5?

Rev. H
No

1.1 tnxTower Reactions

Moment (M)	1842.69 k-ft
Axial Load (P)	40.14 kip
Shear Load (V)	32.84 kips

1.2 Shaft Properties at the Flange

Upper Shaft Diameter (Dshaft1)	42 in
Upper Shaft Thichkness (t1)	0.375 in
Lower Shaft Diameter (Dshaft2)	48 in
Lower Shaft Thickness (t2)	0.375 in
Shaft Grade:	
Fyshaft	42 ksi
Fushaft	63 ksi

1.3 Existing Bridge Stiffeners Properties

(Verify existing bolted connection for reduced moment.)

Number of Proposed Bridge Stiffeners (Nexist)	4
Thickness of Proposed Bridge Stiffeners (textist)	1.25 in
Width of Proposed Bridge Stiffeners (wexist)	6.5 in
Existing Bridge Stiffener Grade:	
Fyex	65 ksi
Fuex	80 ksi
Diameter to the centroid of Existing Bridge Stiffeners (BCexist)	49.25 in
Gross Area of One Existing Bridge Stiffener (Ag_exist)	8.125 in^2
Radius of Gyration about x-axis (rx)	0.361 in
Moment of Inertia of Existing Bridge Stiffeners (Iexist)	9854 in^4

1.4 Flange Bolt Properties

Number of Flange Bolts (Nbolts)	32
Diameter of Flange Bolts	1 in
Bolt Circle of Flange Bolts (BCbolts)	45 in
Gross Area of One Flange Bolt (Ag_bolts)	0.785 in^2
Moment of Inertia of Flange Bolts (Ibolts)	6362 in^4

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 60 ft		
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V1.0.1.1



1.5 Division of Forces

Total Gross Area (Ag_total)	57.63 in ²
Total Moment of Inertia (Itotal)	16216 in ⁴

1.6 Reactions to Existing Bridge Stiffeners

Moment Reaction to Existing Bridge Stiffeners (Mexist)	1119.8 kip-ft
Axial Reaction to Existing Bridge Stiffeners (Pexist)	0.0 kips
Shear Reaction to Flange Bolts (Vexist)	0.0 kips

1.7 Reactions to Flange Bolts

(It is assumed that all shear and axial loads are taken by the flange bolts)

Moment Reaction to Flange Bolts (Mbolts)	722.9 kip-ft	} Check Flange Connection with these Reactions
Axial Reaction to Flange Bolts (Pbolts)	40.1 kips	
Shear Reaction to Flange Bolts (Vbolts)	32.8 kips	

2. Existing Bridge Stiffener

2.1 Maximum Axial Forces in Single Existing

Outer Radius of Bolt Circle (C)	24.625 in
Critical Compression Bending Stress (Pcomp)	272.8 kips
Critical Tension Bending Stress (Ptens)	272.8 kips

2.2 Available Compression Strength

[AISC 15th Edition E3-1]

Resistance Factor (ϕ_c)	0.9	
Unbraced Length (Lu)	19 in	
Effective Length Factor (K)	1	
Strength of Bridge Stiffener:		
Fy	65 ksi	
Fu	80 ksi	
Effective Length of Member (Lc)	19.00 in	[AISC 15th Edition E3-2]
Elastic Buckling Stress (Fe)	103.2 ksi	[AISC 15th Edition, Eq. E3-4]
Limit	99.5	
Determination of Critical Stress (Fcr)	49.9 ksi	
[AISC 15th Edition, Eqs. E3-2 and E3-3]		

Allowable Compressive Strength (ϕP_n)	365.2 kips
[AISC 15th Ed., Eqs. J4-6 and E3-1]	

Check Compressive Strength (Checkcomp)

74.7%

Pass

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 60 ft		
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V1.0.1.1

2.3 Available Tension Strength

Gross Section Yield

Available Tension Yield Strength (ϕP_t) 475.3 kips
[AISC 15th Ed., Ch.D2]

Net Section Fracture

Bolt Hole Diameter (BH) 1.188 in
Thickness (T) 1.25 in
Net Area (A_{net}) 6.563 in²
Net Area Limitation (A_e) 6.563 in²
Available Fractile Strength (ϕP_{tr}) 393.8 kips

Tension Check

Controlling Mode of Failure (Check mode) Fracture Controls
(ϕP_{nt}) 393.8 kips
Controlling Tension Mode Check (Checktension) 69.3% **Pass**

SUMMARY

tnxTower Reactions

M 1842.7 kip-ft
P 40.1 kip
V 32.8 kip

Flange Bolts

Diameter of Flange Bolts (Dbolts) 1.00 in
Bolt Circle of Flange Bolts (BCbolts) 45.0 in
Loads to Flange Bolts

Mbolts 722.9 kip-ft
P 40.1 kip
V 32.8 kip

} See Flange tool for Flange Bolt and Plate Capacities

Existing Jump Plates

Moment to Existing Bridge Stiffeners (Mexist) 1119.8 kip-ft
Number of Existing Bridge Stiffeners (Nexist) 4
Thickness (texist) 1.25 in
Width (wexist) 6.50 in
Controlling Capacity of Existing Bridge Stiffeners (Capacitymax) 74.7% **Pass**

Monopole Flange Plate Connection

Elevation = 60 ft.

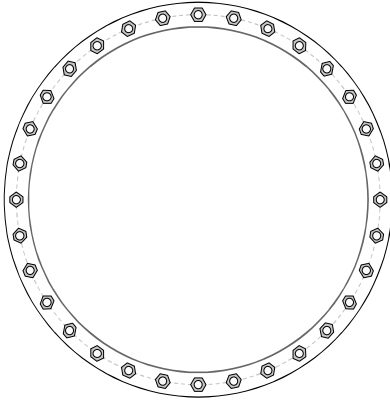


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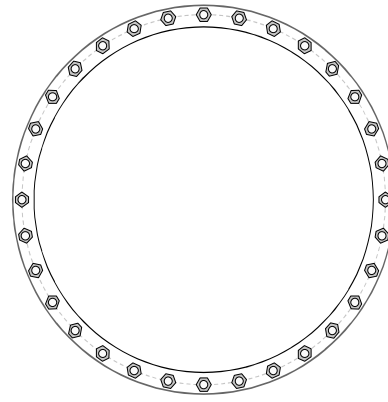
Applied Loads	
Moment (kip-ft)	722.90
Axial Force (kips)	40.14
Shear Force (kips)	32.84

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(32) 1" ϕ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 45" BC

Top Plate Data

48" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

42" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

42" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

48" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	22.84
Allowable (kips)	54.52
Stress Rating:	39.9% Pass

Top Plate Capacity

Max Stress (ksi):	15.22	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	44.7%	Pass
Tension Side Stress Rating:	14.8%	Pass

Bottom Plate Capacity

Max Stress (ksi):	15.74	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	46.3%	Pass
Tension Side Stress Rating:	N/A	

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 40 ft		
DATE	12-03-19	PAGE	1 OF 3

V1.0.1.1

Bolted Bridge Stiffeners Reinforcement Check

Assumptions / Notes:

1. For design purposes, it is assumed that the proposed bridge stiffeners are to take the full load.
2. The plastification of the pole is not considered.
3. All shear and axial loads are taken by the flange bolts.

1. PARAMETERS

Elevation 40 ft

Apply TIA-222-H Section 15.5?

Rev. H
No

1.1 tnxTower Reactions

Moment (M)	2555.57 k-ft
Axial Load (P)	52.05 kip
Shear Load (V)	38.39 kips

1.2 Shaft Properties at the Flange

Upper Shaft Diameter (Dshaft1)	48 in
Upper Shaft Thichkness (t1)	0.375 in
Lower Shaft Diameter (Dshaft2)	54 in
Lower Shaft Thickness (t2)	0.375 in
Shaft Grade:	
Fyshaft	42 ksi
Fushaft	63 ksi

1.3 Existing Bridge Stiffeners Properties

(Verify existing bolted connection for reduced moment.)

Number of Proposed Bridge Stiffeners (Nexist)	4
Thickness of Proposed Bridge Stiffeners (textist)	1.25 in
Width of Proposed Bridge Stiffeners (wexist)	6.5 in
Existing Bridge Stiffener Grade:	
Fyex	65 ksi
Fuex	80 ksi
Diameter to the centroid of Existing Bridge Stiffeners (BCexist)	55.25 in
Gross Area of One Existing Bridge Stiffener (Ag_exist)	8.125 in^2
Radius of Gyration about x-axis (rx)	0.361 in
Moment of Inertia of Existing Bridge Stiffeners (Iexist)	12401 in^4

1.4 Flange Bolt Properties

Number of Flange Bolts (Nbolts)	36
Diameter of Flange Bolts	1 in
Bolt Circle of Flange Bolts (BCbolts)	51 in
Gross Area of One Flange Bolt (Ag_bolts)	0.785 in^2
Moment of Inertia of Flange Bolts (Ibolts)	9193 in^4

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 40 ft		
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V1.0.1.1



1.5 Division of Forces

Total Gross Area (Ag_total)	60.77 in ²
Total Moment of Inertia (Itotal)	21594 in ⁴

1.6 Reactions to Existing Bridge Stiffeners

Moment Reaction to Existing Bridge Stiffeners (Mexist)	1467.6 kip-ft
Axial Reaction to Existing Bridge Stiffeners (Pexist)	0.0 kips
Shear Reaction to Flange Bolts (Vexist)	0.0 kips

1.7 Reactions to Flange Bolts

(It is assumed that all shear and axial loads are taken by the flange bolts)

Moment Reaction to Flange Bolts (Mbolts)	1087.9 kip-ft	} Check Flange Connection with these Reactions
Axial Reaction to Flange Bolts (Pbolts)	52.1 kips	
Shear Reaction to Flange Bolts (Vbolts)	38.4 kips	

2. Existing Bridge Stiffener

2.1 Maximum Axial Forces in Single Existing

Outer Radius of Bolt Circle (C)	27.625 in
Critical Compression Bending Stress (Pcomp)	318.8 kips
Critical Tension Bending Stress (Ptens)	318.8 kips

2.2 Available Compression Strength

[AISC 15th Edition E3-1]

Resistance Factor (ϕ_c)	0.9	
Unbraced Length (Lu)	19 in	
Effective Length Factor (K)	1	
Strength of Bridge Stiffener:		
Fy	65 ksi	
Fu	80 ksi	
Effective Length of Member (Lc)	19.00 in	[AISC 15th Edition E3-2]
Elastic Buckling Stress (Fe)	103.2 ksi	[AISC 15th Edition, Eq. E3-4]
Limit	99.5	
Determination of Critical Stress (Fcr)	49.9 ksi	
[AISC 15th Edition, Eqs. E3-2 and E3-3]		

Allowable Compressive Strength (ϕP_n)	365.2 kips
[AISC 15th Ed., Eqs. J4-6 and E3-1]	

Check Compressive Strength (Checkcomp)

87.3%

Pass

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 40 ft		
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V1.0.1.1

2.3 Available Tension Strength

Gross Section Yield

Available Tension Yield Strength (ϕP_t) 475.3 kips
[AISC 15th Ed., Ch.D2]

Net Section Fracture

Bolt Hole Diameter (BH) 1.188 in
Thickness (T) 1.25 in
Net Area (A_{net}) 6.563 in²
Net Area Limitation (A_e) 6.563 in²
Available Fractile Strength (ϕP_{tr}) 393.8 kips

Tension Check

Controlling Mode of Failure (Check mode) Fracture Controls
(ϕP_{nt}) 393.8 kips
Controlling Tension Mode Check (Checktension) **81.0%** **Pass**

SUMMARY

tnxTower Reactions

M 2555.6 kip-ft
P 52.1 kip
V 38.4 kip

Flange Bolts

Diameter of Flange Bolts (Dbolts) 1.00 in
Bolt Circle of Flange Bolts (BCbolts) 51.0 in
Loads to Flange Bolts

Mbolts 1087.9 kip-ft
P 52.1 kip
V 38.4 kip

} See Flange tool for Flange Bolt and Plate Capacities

Existing Jump Plates

Moment to Existing Bridge Stiffeners (Mexist) 1467.6 kip-ft
Number of Existing Bridge Stiffeners (Nexist) 4
Thickness (texist) 1.25 in
Width (wexist) 6.50 in
Controlling Capacity of Existing Bridge Stiffeners (Capacitymax) **87.3%** **Pass**

Monopole Flange Plate Connection

Elevation = 40 ft.

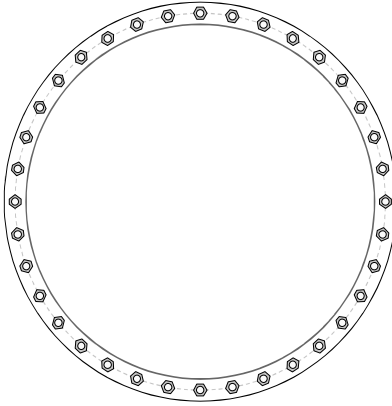


BU #	827050
Site Name	Rocky Hill/ Rte 160_1, C
Order #	506777, Rev# 0
TIA-222 Revision	H

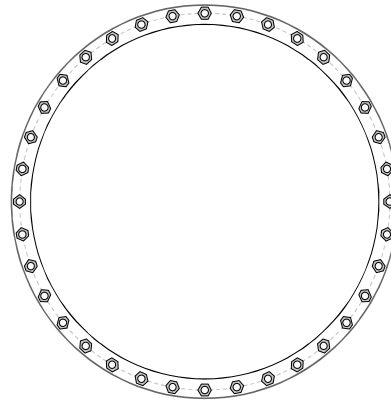
Applied Loads	
Moment (kip-ft)	1087.90
Axial Force (kips)	52.05
Shear Force (kips)	38.39

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(36) 1" ϕ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 51" BC

Top Plate Data

54" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

48" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

48" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

54" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	26.99
Allowable (kips)	54.52
Stress Rating:	47.2% Pass

Top Plate Capacity

Max Stress (ksi):	17.83	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	52.4%	Pass
Tension Side Stress Rating:	17.2%	Pass

Bottom Plate Capacity

Max Stress (ksi):	18.52	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	54.4%	Pass
Tension Side Stress Rating:	N/A	

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 20 ft		
DATE	12-03-19	PAGE	1 OF 3

V1.0.1.1

Bolted Bridge Stiffeners Reinforcement Check

Assumptions / Notes:

1. For design purposes, it is assumed that the proposed bridge stiffeners are to take the full load.
2. The plastification of the pole is not considered.
3. All shear and axial loads are taken by the flange bolts.

1. PARAMETERS

Elevation 20 ft

Apply TIA-222-H Section 15.5?

Rev. H
No

1.1 tnxTower Reactions

Moment (M)	3372.33 k-ft
Axial Load (P)	66.37 kip
Shear Load (V)	43.48 kips

1.2 Shaft Properties at the Flange

Upper Shaft Diameter (Dshaft1)	54 in
Upper Shaft Thichkness (t1)	0.375 in
Lower Shaft Diameter (Dshaft2)	60 in
Lower Shaft Thickness (t2)	0.375 in
Shaft Grade:	
Fyshaft	42 ksi
Fushaft	63 ksi

1.3 Existing Bridge Stiffeners Properties

(Verify existing bolted connection for reduced moment.)

Number of Proposed Bridge Stiffeners (Nexist)	4
Thickness of Proposed Bridge Stiffeners (texist)	1.25 in
Width of Proposed Bridge Stiffeners (wexist)	8.5 in
Existing Bridge Stiffener Grade:	
Fyex	65 ksi
Fuex	80 ksi
Diameter to the centroid of Existing Bridge Stiffeners (BCexist)	61.25 in
Gross Area of One Existing Bridge Stiffener (Ag_exist)	10.625 in^2
Radius of Gyration about x-axis (rx)	0.361 in
Moment of Inertia of Existing Bridge Stiffeners (Iexist)	19930 in^4

1.4 Flange Bolt Properties

Number of Flange Bolts (Nbolts)	48
Diameter of Flange Bolts	1 in
Bolt Circle of Flange Bolts (BCbolts)	57 in
Gross Area of One Flange Bolt (Ag_bolts)	0.785 in^2
Moment of Inertia of Flange Bolts (Ibolts)	15311 in^4

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 20 ft		
DATE	12-03-19	PAGE 2	OF 3

V1.0.1.1



1.5 Division of Forces

Total Gross Area (Ag_total)	80.20 in ²
Total Moment of Inertia (Itotal)	35241 in ⁴

1.6 Reactions to Existing Bridge Stiffeners

Moment Reaction to Existing Bridge Stiffeners (Mexist)	1907.2 kip-ft
Axial Reaction to Existing Bridge Stiffeners (Pexist)	0.0 kips
Shear Reaction to Flange Bolts (Vexist)	0.0 kips

1.7 Reactions to Flange Bolts

(It is assumed that all shear and axial loads are taken by the flange bolts)

Moment Reaction to Flange Bolts (Mbolts)	1465.1 kip-ft	} Check Flange Connection with these Reactions
Axial Reaction to Flange Bolts (Pbolts)	66.4 kips	
Shear Reaction to Flange Bolts (Vbolts)	43.5 kips	

2. Existing Bridge Stiffener

2.1 Maximum Axial Forces in Single Existing

Outer Radius of Bolt Circle (C)	30.625 in
Critical Compression Bending Stress (Pcomp)	373.7 kips
Critical Tension Bending Stress (Ptens)	373.7 kips

2.2 Available Compression Strength

[AISC 15th Edition E3-1]

Resistance Factor (ϕ_c)	0.9	
Unbraced Length (Lu)	17 in	
Effective Length Factor (K)	1	
Strength of Bridge Stiffener:		
Fy	65 ksi	
Fu	80 ksi	
Effective Length of Member (Lc)	17.00 in	[AISC 15th Edition E3-2]
Elastic Buckling Stress (Fe)	129.0 ksi	[AISC 15th Edition, Eq. E3-4]
Limit	99.5	
Determination of Critical Stress (Fcr)	52.6 ksi	
[AISC 15th Edition, Eqs. E3-2 and E3-3]		

Allowable Compressive Strength (ϕP_n)	503.3 kips
[AISC 15th Ed., Eqs. J4-6 and E3-1]	

Check Compressive Strength (Checkcomp)

74.2%

Pass

PROJECT	140124.001.01 - Rocky Hill/ Rte 1 Intiti		
SUBJECT	Bridge Stiffener - 20 ft		
DATE	12-03-19	PAGE 3	OF 3



V1.0.1.1

2.3 Available Tension Strength

Gross Section Yield

Available Tension Yield Strength (ϕP_t) 621.6 kips
[AISC 15th Ed., Ch.D2]

Net Section Fracture

Bolt Hole Diameter (BH) 1.188 in
Thickness (T) 1.25 in
Net Area (A_{net}) 9.063 in²
Net Area Limitation (A_e) 9.063 in²
Available Fractile Strength (ϕP_{tr}) 543.8 kips

Tension Check

Controlling Mode of Failure (Check mode) Fracture Controls
(ϕP_{nt}) 543.8 kips
Controlling Tension Mode Check (Checktension) 68.7% **Pass**

SUMMARY

tnxTower Reactions

M 3372.3 kip-ft
P 66.4 kip
V 43.5 kip

Flange Bolts

Diameter of Flange Bolts (Dbolts) 1.00 in
Bolt Circle of Flange Bolts (BCbolts) 57.0 in
Loads to Flange Bolts

Mbolts 1465.1 kip-ft
P 66.4 kip
V 43.5 kip

} See Flange tool for Flange Bolt and Plate Capacities

Existing Jump Plates

Moment to Existing Bridge Stiffeners (Mexist) 1907.2 kip-ft
Number of Existing Bridge Stiffeners (Nexist) 4
Thickness (texist) 1.25 in
Width (wexist) 8.50 in
Controlling Capacity of Existing Bridge Stiffeners (Capacitymax) 74.2% **Pass**

Monopole Flange Plate Connection

Elevation = 20 ft.

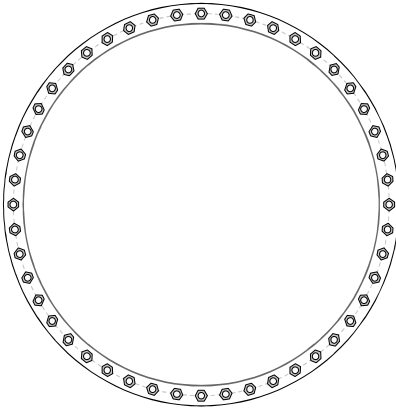


BU #	827050
Site Name	Rocky Hill/ Rte 160_1, C
Order #	506777, Rev# 0
TIA-222 Revision	H

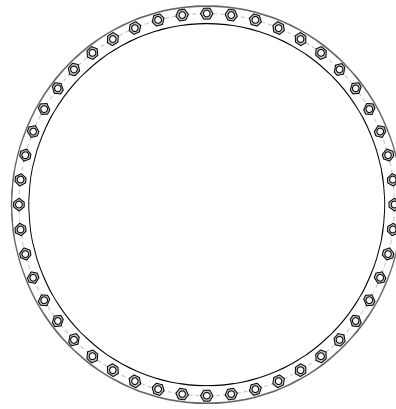
Applied Loads	
Moment (kip-ft)	1465.10
Axial Force (kips)	66.37
Shear Force (kips)	43.48

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(48) 1" ϕ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 57" BC

Top Plate Data

60" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

54" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

54" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data

60" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	24.32
Allowable (kips)	54.52
Stress Rating:	42.5% Pass

Top Plate Capacity

Max Stress (ksi):	19.06	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	56.0%	Pass
Tension Side Stress Rating:	18.9%	Pass

Bottom Plate Capacity

Max Stress (ksi):	20.11	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	59.1%	Pass
Tension Side Stress Rating:	N/A	

Monopole Base Plate Connection

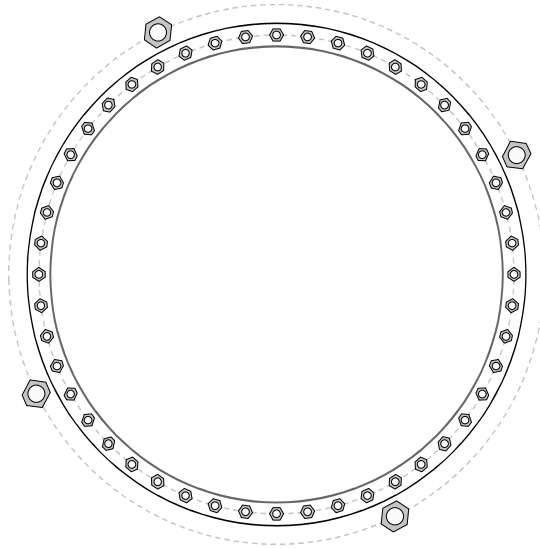


Site Info	
BU #	827050
Site Name	Rocky Hill/ Rte 160_1, C
Order #	506777, Rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.5

Applied Loads	
Moment (kip-ft)	4283.03
Axial Force (kips)	77.95
Shear Force (kips)	47.50

*TIA-222-H Section 15.5 Applied



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary <i>(units of kips, kip-in)</i>	
GROUP 1: (48) 1" ϕ bolts (A687 N; $F_y=105$ ksi, $F_u=125$ ksi) on 63" BC		GROUP 1:	
GROUP 2: (4) 2-1/4" ϕ bolts (Williams R71 N; $F_y=127.7$ ksi, $F_u=125$ ksi) on 71" BC		$Pu_c = 44.98$	$\phi Pn_c = 63.63$ Stress Rating
		$Vu = 0.99$	$\phi Vn = 19.09$ 76.2%
		$Mu = 0.96$	$\phi Mn = 10.67$ Pass
Base Plate Data		GROUP 2:	
66.125" OD x 1.25" Plate (A36; $F_y=36$ ksi, $F_u=58$ ksi)		$Pu_t = 262$	$\phi Pn_t = 304.69$ Stress Rating
Stiffener Data		$Vu = 0$	$\phi Vn = 186.38$ 70.4%
N/A		$Mu = n/a$	$\phi Mn = n/a$ Pass
Pole Data		Base Plate Summary	
60" x 0.375" round pole (A53-B-42; $F_y=42$ ksi, $F_u=63$ ksi)		Max Stress (ksi):	28.57 (Flexural)
		Allowable Stress (ksi):	32.4
		Stress Rating:	84.0% Pass

PROJECT **140124.001.01 - Rocky Hill/ Rte 160_1, CT**SUBJECT **Anchor Rod Bracket Analysis**DATE **12-03-19**

TIA-222 Rev.

H

V4.3.0

Apply TIA-222-H Section 15.5?

Yes



B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Analysis Criteria

Design/Analysis	Analysis
Load Type	Current Load
Current load	262 kips
AR Capacity	415.0 kips

Tower Type Monopole

Manufacturers Tower Prop.

Pole Thickness	0.375 in
Pole Grade	A53-B
Pole Sides #	0
Pole Base OD	60 in
Fy	35 ksi
Fu	60 ksi
Base Plate Gr.	A36
Fy	36 ksi
Fu	58 ksi
Anchor Rods	
Size	1.00 in
Quantity	48
Bolt Circle	63 in
Grade	A687
Fy	105 ksi
Fu	125 ksi

Post-Installed Adhesive AR Mod.

ARB Type	Welded
Size	2.25 in
AR Layout	Symmetric
Quantity	4
Bolt Circle	71.0 in
Grade	'22-150 (William
Fy	127.7 ksi
Fu	150 ksi

Anchor Rod Bracket Analysis Checks

Tube Bearing	41.3%	-
Tube Compression	N/A	
Gusset Shear	30.8%	-
Gusset Flexure	N/A	-
Gusset to Tower and BP	93.0%	-
Gusset to Tube	33.1%	-
Geometry	N/A	
Tower Punching	40.3%	-
Tube Punching	53.1%	-

Utilization**93.0%****Bracket Properties**

Gusset		Pipe/Tube		Weld - Gusset to Pipe/Tube	
Thickness	1.25 in	Size	HSS6x6x1/2	FEXX	70 ksi
Width at Tube	2.5 in	Total Length	18 in	Weld Type	Double Bevel+Fillet
Height at Pole	36 in	Length above Gusset	0 in	Fillet Size	5/8 in
Height at Tube	18 in	Length below Gusset	0 in	Bevel Depth	1/2
Grade	A572-65	Grade	A500 Grade B (Square)		
Fy	65 ksi	Fy	46 ksi		
Fu	80 ksi	Fu	58 ksi		
Weld - Gusset to Tower		Weld - Gusset to Base Plate			
FEXX	70 ksi	FEXX	70 ksi		
Weld Type	Double Fillet	Weld Type	Double Bevel+Fillet		
Fillet Size	3/8 in	Fillet Size	5/8 in		
		Bevel Depth	1/2 in		
Length	36 in	Gap	0 in		
Load Angle	45 deg.	Notch (horiz)	0.75 in		
		Notch (vert)	0.75 in		
		Pipe/Tube Welded to Base/Footpad?	Yes		
		Fillet Size	1/2 in		

Drilled Pier Foundation

BU # : 827050
Site Name: Rocky Hill/ Rte 160_1.0
Order Number: 506777, Rev.# 0

TIA-222 Revision: H
Tower Type: Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	4283	
Axial Force (kips)	78	
Shear Force (kips)	47	

Material Properties	
Concrete Strength, fc:	3 ksi
Rebar Strength, Fy:	60 ksi

Pier Design Data	
Depth	36 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
From 0.5' above grade to 15.991' below grade	
Pier Diameter	71 ft
Rebar Quantity	28
Rebar Size	9
Clear Cover to Ties	3 in
Tie Size	5
Rebar Quantity	4
Rebar Size	18
Rebar Cage Diameter	71 in
Pier Section 2	
From 15.991' below grade to 36' below grade	
Pier Diameter	71 ft
Rebar Quantity	28
Rebar Size	9
Clear Cover to Ties	3 in
Tie Size	5



Check Limitation	
Apply TIA-222-H Section 15.5:	☒ ☐
	N/A

Analysis Results			
Soil Lateral Capacity		Compression	Uplift
D _{u=0} (ft from TOC)		8.18	-
Soil Safety Factor		3.98	-
Max Moment (kip-ft)		4598.85	-
Rating*		31.8%	-
Soil Vertical Capacity		Compression	Uplift
Skin Friction (kips)		543.46	-
End Bearing (kips)		5157.89	-
Weight of Concrete (kips)		165.24	-
Total Capacity (kips)		5701.34	-
Axial (kips)		243.24	-
Rating*		4.1%	-
Reinforced Concrete Capacity		Compression	Uplift
Critical Depth (ft from TOC)		16.50	-
Critical Moment (kip-ft)		4071.64	-
Critical Moment Capacity		4742.83	-
Rating*		81.8%	-
Soil Interaction Rating*		31.8%	
Structural Foundation Rating*		81.8%	

*Rating per TIA-222-H Section 15.5

Soil Profile														
Groundwater Depth			5.6	ft	# of Layers		11							
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	Y _{soil} (pcf)	Y _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	126	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	2	3.5	1.5	117	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	3.5	4	0.5	117	150	0	31	0.000	0.000	0.00	0.00			Cohesionless
4	4	5.6	1.6	124	150	0	35	0.000	0.000	0.88	0.88			Cohesionless
5	5.6	6	0.4	61.5	87.5	0	35	0.000	0.000	0.88	0.88			Cohesionless
6	6	8	2	57.5	87.5	0	33	0.000	0.000	0.88	0.88			Cohesionless
7	8	10	2	55.5	87.5	0	32	0.000	0.000	0.88	0.88			Cohesionless
8	10	15	5	52.5	87.5	0	29	0.000	0.000	0.49	0.49			Cohesionless
9	15	30	15	42.5	87.5	0.5	0	0.28	0.28	0.50	0.50			Cohesive
10	30	34	4	53.5	87.5	0	31	0.000	0.000	0.83	0.83			Cohesionless
11	34	36	2	92.5	87.5	20	0	9.00	9.00	7.20	7.20	178.7		Cohesive

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 97.46 ft (NAVD 88)
Latitude: 41.668269
Longitude: -72.638036

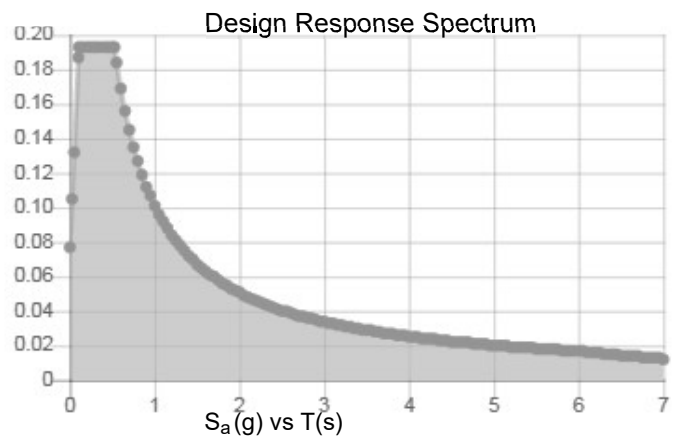
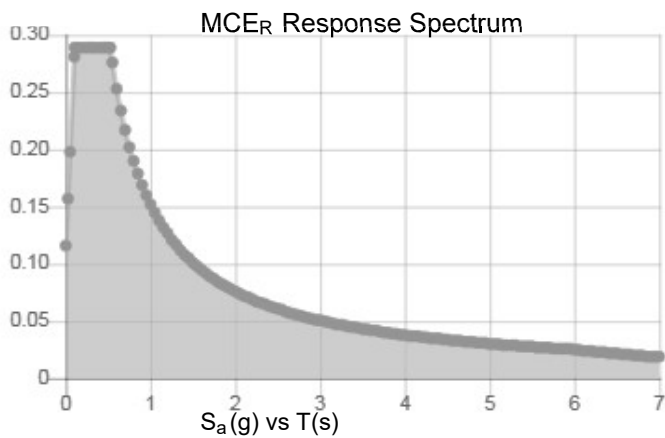


Site Soil Class: D - Stiff Soil

Results:

S_s :	0.181	S_{DS} :	0.193
S_1 :	0.063	S_{D1} :	0.101
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.091
S_{MS} :	0.289	PGA _M :	0.146
S_{M1} :	0.152	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Fri Nov 22 2019

Date Source:

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

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 5 F

Gust Speed: 50 mph

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

Date Accessed: Fri Nov 22 2019

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

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

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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Exhibit E

Mount Analysis

Date: **November 13, 2019**

Kevin Morrow
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 405-6619



Engineered Tower Solutions, PLLC
8774 Yates Drive, Suite 150
Westminster, CO 80031
(919) 782-2710
Helen.Tesfaye@ets-pllc.com

Subject: Mount Modification Report

Carrier Designation: Verizon Wireless Equipment Change-Out
Carrier Site Number: NG78427
Carrier Site Name: ROCKY HILL EAST CT

Crown Castle Designation: Crown Castle BU Number: 827050
Crown Castle Site Name: Rocky Hill/ Rte 160_1
Crown Castle JDE Job Number: 592726
Crown Castle Order Number: 506777 Rev. 0

Engineering Firm Designation: ETS, PLLC Report Designation: 196668.14B

Site Data: 699 Old Main St., Rocky Hill, Hartford County, CT 06067
Latitude: 41° 40' 5.77" Longitude: -72° 38' 16.93"

Structure Information: Tower Height & Type: 148.5 ft Monopole
Mount Elevation: 140.0 ft
Mount Type: 12.0 ft Platform Mount

Dear Kevin Morrow,

ETS, PLLC is pleased to submit this "**Mount Modification Report**" to determine the structural integrity of Verizon Wireless's antenna mounting system with the proposed appurtenance and equipment addition on the above mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Platform Mount

Sufficient*

***Sufficient upon completion of the changes listed in the 'Recommendations' section of this report**

This analysis has been performed in accordance with the 2018 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Helen Tesfaye, EI

Respectfully Submitted by:

Frederic G. Bost, PE
Owner/ President
(919) 782-2710
Geoff.Bost@ets-pllc.com



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7) APPENDIX C

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8) APPENDIX D

Mount Modification Design Drawings (MDD)

1) INTRODUCTION

This mount is an existing 12.0 ft Platform Mount. This mount is installed at the 140.0 ft elevation of the 148.5 ft Monopole. Engineered Tower Solutions, PLLC, did not visit the site. A mapping and/or mount manufacturer drawings were not provided. Therefore, per direction of Crown Castle, photos of the tower were compared with other mounts within our database and a similar and comparable mount was used to perform this mount analysis.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	125 mph
Exposure Category:	C
Topographic Factor at Base:	1.0
Topographic Factor at Mount:	1.0
Ice Thickness:	2.0 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.181
Seismic S_1:	0.064
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
140.0	140.0	1	ANDREW	LNK-6514DS-A1M	12.0 ft Platform Mount w/ Proposed Modifications
		2	COMMScope	LNK-6514DS-A1M	
		6	COMMScope	NNHH-65B-R4	
		3	SAMSUNG TELECOMMUNICATIONS	CBRS	
		1	RAYCAP	RVZDC-6627- PF-48	
		1	RFS/CELWAVE	DB-T1-6Z-8AB-0Z	
		3	SAMSUNG TELECOMMUNICATIONS	20W CBRS	
		3	SAMSUNG TELECOMMUNICATIONS	RFV01U-D1A	
		3	SAMSUNG TELECOMMUNICATIONS	RFV01U-D2A	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Carrier Application	Verizon Wireless	10/24/2019	CCIsites
4-Structural Analysis Report	Aero Solutions LLC	8484145	CCIsites
Structure Level Drawings (Proposed)	Verizon Wireless	10/24/2019	CCIsites

3.1) Analysis Method

RISA 3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed, using Microsoft Excel, by ETS, PLLC was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision C).

3.2) Assumptions

- 1) Engineered Tower Solutions, PLLC, did not visit the site. A mapping and/or mount manufacturer drawings were not provided. Therefore, per direction of Crown Castle, photos of the tower were compared with other mounts within our database and a similar and comparable mount was used to perform this mount analysis.
- 2) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1 and the referenced drawings.
- 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) This Structural Analysis is not a condition assessment of the mount and is an evaluation of the theoretical structural capacity.
- 6) This analysis is based from the information supplied, and therefore, this report's results are as accurate as the supplied data.
- 7) Engineered Tower Solutions, PLLC makes no warranties, expressed and/or implied, in connection with this report, and disclaims any liability associated with material, fabrication, or erection of the mount. Engineered Tower Solutions, PLLC will not be held responsible from any consequential or incidental damages sustained by any person, firm, or organization as a result of the contents of this report. The maximum liability of Engineered Tower Solutions, PLLC pursuant to this report will be limited to the total fee received for compilation of this report.
- 8) It is the tower owner's responsibility to verify that the mount modeled and analyzed is the correct structure modeled.
- 9) The use of this report shall be limited to the purpose for which it was commissioned and may not be used for any other purposes without the written consent of Engineered Tower Solutions, PLLC.
- 10) Steel grades have been assumed as follows:
 - a) Channel, Solid Round, Angle, Plate ASTM A36 (GR 36)
 - b) HSS (Rectangular) ASTM A500 (GR B-46)
 - c) HSS (Round) ASTM A500 (GR B-42)
 - d) Pipe ASTM A53 (GR 35)
 - e) Connection Bolts ASTM A325
 - f) U-Bolts SAE 429 Gr.2

This analysis may be affected if any assumptions are not valid or have been made in error. ETS, PLLC should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform Mount)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Face Mount Horizontal (3.0 SCH40)	FM-BOT-120	140.0	28.5	Pass
	Side Arm Horizontal (HSS4x4x1/4)	SA-3		29.4	Pass
	Bracing Horizontal (L2.5x2.5x1/4)	BRACE-2		32.6	Pass
	Grating Support (L2x2x3)	GRAT5		38.9	Pass
	Mount Pipes (2.0 SCH40)	MP7		23.6	Pass

Structure Rating (max from all components) =	38.9%
---	--------------

Notes:

- 1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.

Verizon Mount Classification	M1450R(2000)-4[0]
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4.1) Recommendations

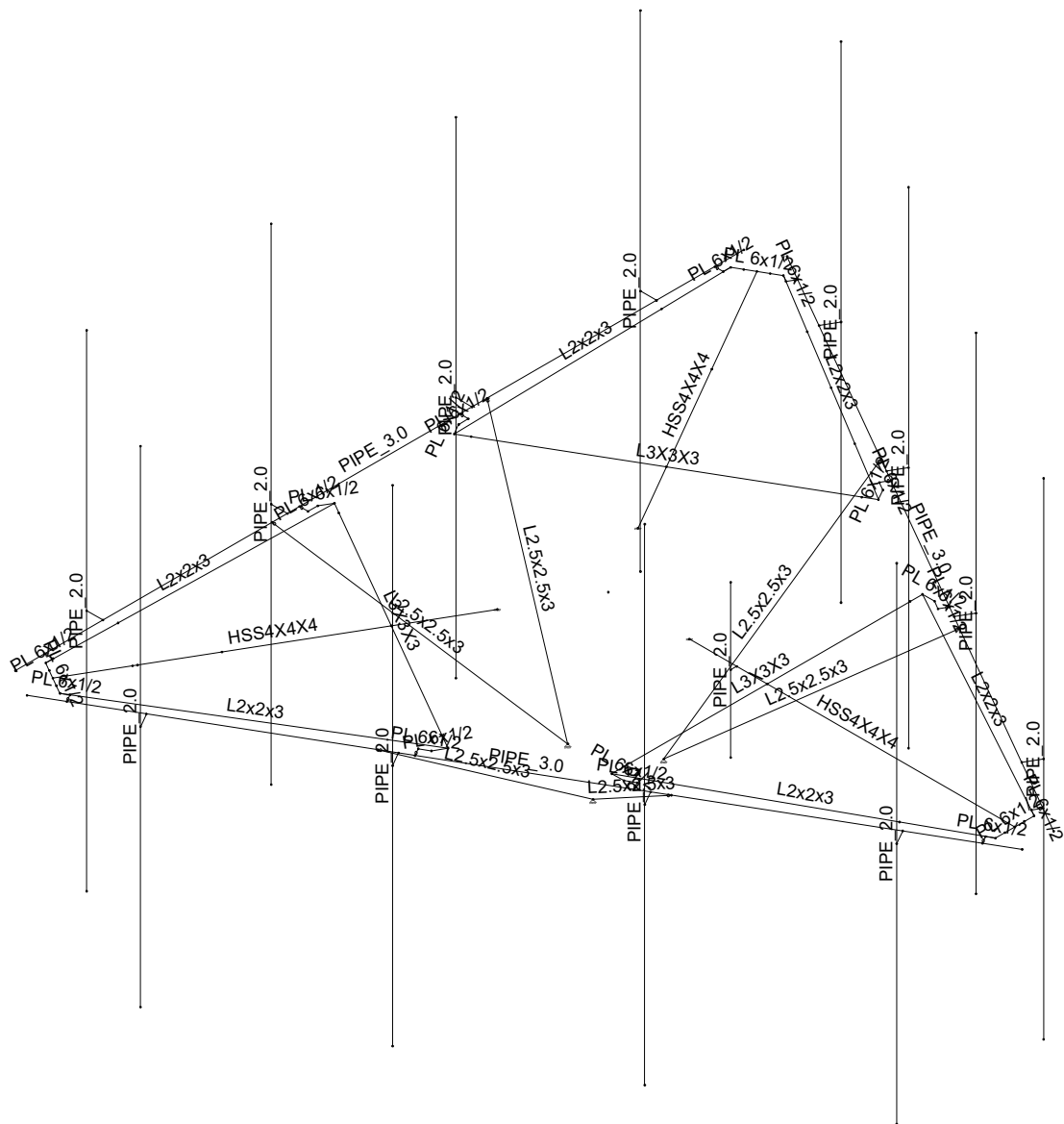
The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the structural modifications listed below must be completed.

1. Install Handrail Reinforcement Kit, Site Pro1 part no. PRK-SFS

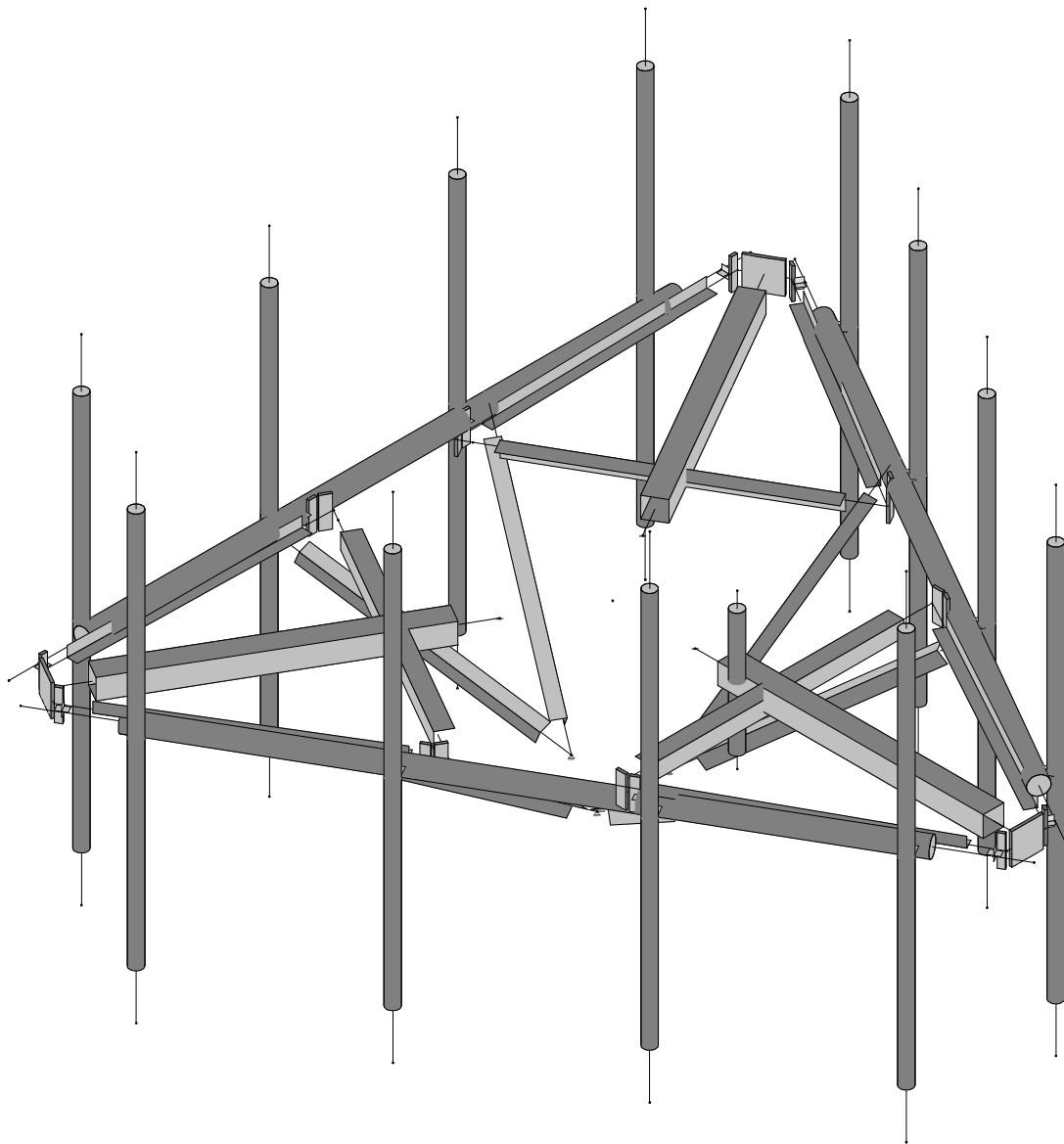
Engineering detail drawings have been provided in Appendix D – Mount Modification Design Drawings.

APPENDIX A

WIRE FRAME AND RENDERED MODELS



ETS, PLLC	Rocky Hill_Rte/ 160-1	SK - 1
DHK		Nov 13, 2019 at 8:51 AM
196668.14		Rocky Hill_Rte 160_1_Loaded.r3d



ETS, PLLC

DHK

196668.14

Rocky Hill_Rte/ 160-1

SK - 2

Nov 13, 2019 at 8:52 AM

Rocky Hill_Rte 160_1_Loaded.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



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ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 97.46 ft (NAVD 88)
Latitude: 41.668269
Longitude: -72.638036



Wind

Results:

Wind Speed:	124 Vmph
10-year MRI	77 Vmph
25-year MRI	87 Vmph
50-year MRI	93 Vmph
100-year MRI	101 Vmph

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

Date Accessed: Tue Oct 29 2019

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

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

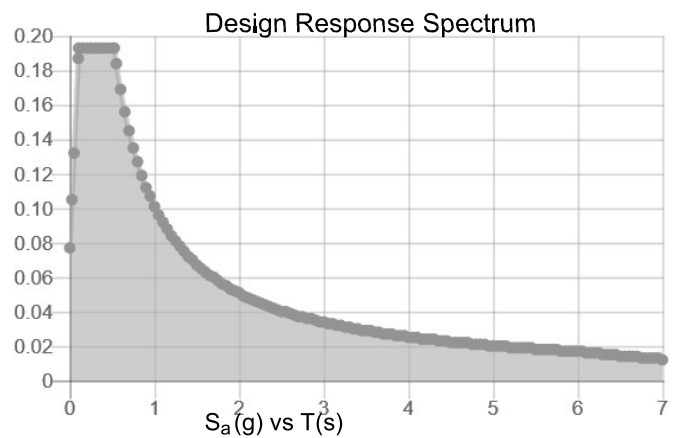
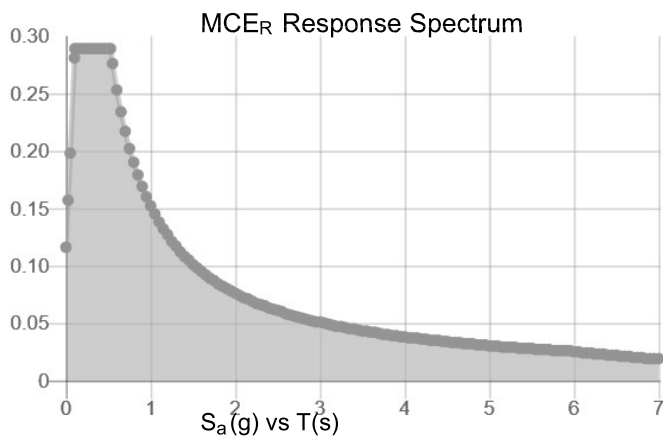
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.181	S_{DS} :	0.193
S_1 :	0.063	S_{D1} :	0.101
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.091
S_{MS} :	0.289	PGA _M :	0.146
S_{M1} :	0.152	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue Oct 29 2019

Date Source:

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

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 5 F

Gust Speed: 50 mph

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

Date Accessed: Tue Oct 29 2019

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

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

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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APPENDIX C
SOFTWARE ANALYSIS OUTPUT

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design ...
1	BRACE-1	N27	N28		180	L3X3X3	Beam	Single An...	A36 Gr.36	Typical
2	BRACE-2	N21	N22		180	L3X3X3	Beam	Single An...	A36 Gr.36	Typical
3	BRACE-3	N15	N16		180	L3X3X3	Beam	Single An...	A36 Gr.36	Typical
4	CONN-PL-0-1	N207	N208A			PL 6x1/2	None	None	A36 Gr.36	Typical
5	CONN-PL-0-2	N27	N207			PL 6x1/2	None	None	A36 Gr.36	Typical
6	CONN-PL-0-3	N22	N219A			PL 6x1/2	None	None	A36 Gr.36	Typical
7	CONN-PL-0-4	N219A	N220			PL 6x1/2	None	None	A36 Gr.36	Typical
8	CONN-PL-120-1	N21	N217			PL 6x1/2	None	None	A36 Gr.36	Typical
9	CONN-PL-120-2	N217	N218			PL 6x1/2	None	None	A36 Gr.36	Typical
10	CONN-PL-120-3	N16	N229			PL 6x1/2	None	None	A36 Gr.36	Typical
11	CONN-PL-120-4	N229	N230			PL 6x1/2	None	None	A36 Gr.36	Typical
12	CONN-PL-240-1	N212	N213			PL 6x1/2	None	None	A36 Gr.36	Typical
13	CONN-PL-240-2	N15	N212			PL 6x1/2	None	None	A36 Gr.36	Typical
14	CONN-PL-240-3	N28	N224			PL 6x1/2	None	None	A36 Gr.36	Typical
15	CONN-PL-240-4	N224	N225			PL 6x1/2	None	None	A36 Gr.36	Typical
16	CORNER-PL-1	N7	N8			PL 6x1/2	None	None	A36 Gr.36	Typical
17	CORNER-PL-2	N3	N4			PL 6x1/2	None	None	A36 Gr.36	Typical
18	CORNER-PL-3	N9	N10			PL 6x1/2	None	None	A36 Gr.36	Typical
19	FM-BOT-0	N1	N2			PIPE 3.0	None	None	A53 Gr.B	Typical
20	FM-BOT-120	N5	N6			PIPE 3.0	None	None	A53 Gr.B	Typical
21	FM-BOT-240	N11	N12			PIPE 3.0	None	None	A53 Gr.B	Typical
22	M66	N208A	N209			RIGID	None	None	RIGID	Typical
23	M69	N213	N214			RIGID	None	None	RIGID	Typical
24	M72	N218	N219			RIGID	None	None	RIGID	Typical
25	M75	N220	N221			RIGID	None	None	RIGID	Typical
26	M78	N225	N226			RIGID	None	None	RIGID	Typical
27	M81	N230	N231			RIGID	None	None	RIGID	Typical
28	M82	N7	N224A			PL 6x1/2	None	None	A36 Gr.36	Typical
29	M83	N224A	N226A			RIGID	None	None	RIGID	Typical
30	M84	N3	N227			PL 6x1/2	None	None	A36 Gr.36	Typical
31	M85	N227	N229A			RIGID	None	None	RIGID	Typical
32	M86	N9	N231A			PL 6x1/2	None	None	A36 Gr.36	Typical
33	M87	N231A	N233			RIGID	None	None	RIGID	Typical
34	M88	N8	N234			PL 6x1/2	None	None	A36 Gr.36	Typical
35	M89	N234	N236			RIGID	None	None	RIGID	Typical
36	M90	N4	N238			PL 6x1/2	None	None	A36 Gr.36	Typical
37	M91	N238	N240			RIGID	None	None	RIGID	Typical
38	M92	N10	N241			PL 6x1/2	None	None	A36 Gr.36	Typical
39	M93	N241	N243			RIGID	None	None	RIGID	Typical
40	MP1	N51	N50			PIPE 2.0	None	None	A53 Gr.B	Typical
41	MP2	N145	N144			PIPE 2.0	None	None	A53 Gr.B	Typical
42	MP3	N151	N150			PIPE 2.0	None	None	A53 Gr.B	Typical
43	MP4	N157	N156			PIPE 2.0	None	None	A53 Gr.B	Typical
44	MP5	N187	N186			PIPE 2.0	None	None	A53 Gr.B	Typical
45	MP6	N193	N192			PIPE 2.0	None	None	A53 Gr.B	Typical
46	MP7	N199	N198			PIPE 2.0	None	None	A53 Gr.B	Typical
47	MP8	N205	N204			PIPE 2.0	None	None	A53 Gr.B	Typical
48	MP9	N163	N162			PIPE 2.0	None	None	A53 Gr.B	Typical
49	MP10	N169	N168			PIPE 2.0	None	None	A53 Gr.B	Typical
50	MP11	N175	N174			PIPE 2.0	None	None	A53 Gr.B	Typical
51	MP12	N181	N180			PIPE 2.0	None	None	A53 Gr.B	Typical
52	RL1	N32	N33			RIGID	None	None	RIGID	Typical
53	RL3	N140	N141			RIGID	None	None	RIGID	Typical
54	RL5	N146	N147			RIGID	None	None	RIGID	Typical
55	RL7	N152	N153			RIGID	None	None	RIGID	Typical
56	RL9	N158	N159			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design ...
57	RL11	N164	N165			RIGID	None	None	RIGID	Typical
58	RL13	N170	N171			RIGID	None	None	RIGID	Typical
59	RL15	N176	N177			RIGID	None	None	RIGID	Typical
60	RL17	N182	N183			RIGID	None	None	RIGID	Typical
61	RL19	N188	N189			RIGID	None	None	RIGID	Typical
62	RL21	N194	N195			RIGID	None	None	RIGID	Typical
63	RL23	N200	N201			RIGID	None	None	RIGID	Typical
64	SA-1	N29	N26			HSS4X4X4	None	None	A500 Gr.B Rect	Typical
65	SA-2	N23	N20			HSS4X4X4	None	None	A500 Gr.B Rect	Typical
66	SA-3	N17	N14			HSS4X4X4	None	None	A500 Gr.B Rect	Typical
67	GRAT1	N7	N27			L2x2x3	Beam	Single An...	A36 Gr.36	Typical
68	GRAT6	N8	N28		270	L2x2x3	Beam	Single An...	A36 Gr.36	Typical
69	GRAT2	N22	N3			L2x2x3	Beam	Single An...	A36 Gr.36	Typical
70	GRAT3	N4	N21			L2x2x3	Beam	Single An...	A36 Gr.36	Typical
71	GRAT5	N15	N9		270	L2x2x3	Beam	Single An...	A36 Gr.36	Typical
72	GRAT4	N16	N10			L2x2x3	Beam	Single An...	A36 Gr.36	Typical
73	M73	N194B	N195B			RIGID	None	None	RIGID	Typical
74	MP13	N197	N196			PIPE 2.0	Colu...	Pipe	A53 Gr.B	Typical
75	SFS1	N134	N133			L2.5x2.5x3	VBra...	Single An...	A36 Gr.36	Typical
76	SFS2	N135A	N133		90	L2.5x2.5x3	VBra...	Single An...	A36 Gr.36	Typical
77	SFS5	N137A	N136		180	L2.5x2.5x3	VBra...	Single An...	A36 Gr.36	Typical
78	SFS6	N138	N136		90	L2.5x2.5x3	VBra...	Single An...	A36 Gr.36	Typical
79	SFS3	N140A	N139A		180	L2.5x2.5x3	VBra...	Single An...	A36 Gr.36	Typical
80	SFS4	N141A	N139A		90	L2.5x2.5x3	VBra...	Single An...	A36 Gr.36	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		25	59.5	0
3	Total General		25	59.5	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x3	6	313.6	.08
7	A36 Gr.36	L2x2x3	6	335.1	.069
8	A36 Gr.36	L3X3X3	3	184.2	.057
9	A36 Gr.36	PL 6x1/2	21	57.5	.049
10	A500 Gr.B Rect	HSS4X4X4	3	193	.198
11	A53 Gr.B	PIPE 2.0	13	1182	.342
12	A53 Gr.B	PIPE 3.0	3	432	.254
13	Total HR Steel		55	2697.3	1.048

Member Point Loads (BLC 1 : Dead Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-93.4	%50
2	MP2	Y	-31.3	%50
3	MP3	Y	-78.3	%50
4	MP4	Y	-148.6	%50
5	MP5	Y	-101.6	%50
6	MP6	Y	-67.1	%50
7	MP7	Y	-96.9	%50
8	MP8	Y	-162.7	%50
9	MP9	Y	-123.2	%50
10	MP10	Y	-96.9	%50
11	MP11	Y	-41.8	%50

Member Point Loads (BLC 1 : Dead Load) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
12	MP12	Y	-162.7	%50
13	MP13	Y	-32	%50

Member Point Loads (BLC 2 : Wind Load (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	132.6	%50
2	MP2	X	17.6	%50
3	MP3	X	18.3	%50
4	MP4	X	18.3	%50
5	MP5	X	127.2	%50
6	MP6	X	202.4	%50
7	MP7	X	94.9	%50
8	MP8	X	114	%50
9	MP9	X	135.5	%50
10	MP10	X	94.9	%50
11	MP11	X	101.7	%50
12	MP12	X	114	%50
13	MP13	X	198.5	%50
14	MP1	Z	0	%50
15	MP2	Z	0	%50
16	MP3	Z	0	%50
17	MP4	Z	0	%50
18	MP5	Z	0	%50
19	MP6	Z	0	%50
20	MP7	Z	0	%50
21	MP8	Z	0	%50
22	MP9	Z	0	%50
23	MP10	Z	0	%50
24	MP11	Z	0	%50
25	MP12	Z	0	%50
26	MP13	Z	0	%50

Member Point Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	115.3	%50
2	MP2	X	30.5	%50
3	MP3	X	30.9	%50
4	MP4	X	41.1	%50
5	MP5	X	116.8	%50
6	MP6	X	156.4	%50
7	MP7	X	92.9	%50
8	MP8	X	126.3	%50
9	MP9	X	99.5	%50
10	MP10	X	60.7	%50
11	MP11	X	78.5	%50
12	MP12	X	43.5	%50
13	MP13	X	158.7	%50
14	MP1	Z	66.6	%50
15	MP2	Z	17.6	%50
16	MP3	Z	17.9	%50
17	MP4	Z	23.7	%50
18	MP5	Z	67.4	%50
19	MP6	Z	90.3	%50
20	MP7	Z	53.6	%50
21	MP8	Z	72.9	%50
22	MP9	Z	57.5	%50

Member Point Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
23	MP10	Z	35	%50
24	MP11	Z	45.3	%50
25	MP12	Z	25.1	%50
26	MP13	Z	91.6	%50

Member Point Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	67.1	%50
2	MP2	X	35.2	%50
3	MP3	X	35.3	%50
4	MP4	X	52.9	%50
5	MP5	X	63.6	%50
6	MP6	X	101.2	%50
7	MP7	X	47.4	%50
8	MP8	X	57	%50
9	MP9	X	52.3	%50
10	MP10	X	28.8	%50
11	MP11	X	42.6	%50
12	MP12	X	9.2	%50
13	MP13	X	76.4	%50
14	MP1	Z	116.3	%50
15	MP2	Z	61	%50
16	MP3	Z	61.1	%50
17	MP4	Z	91.6	%50
18	MP5	Z	110.2	%50
19	MP6	Z	175.3	%50
20	MP7	Z	82.1	%50
21	MP8	Z	98.7	%50
22	MP9	Z	90.6	%50
23	MP10	Z	50	%50
24	MP11	Z	73.8	%50
25	MP12	Z	15.9	%50
26	MP13	Z	132.3	%50

Member Point Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP10	X	0	%50
11	MP11	X	0	%50
12	MP12	X	0	%50
13	MP13	X	0	%50
14	MP1	Z	134.8	%50
15	MP2	Z	88	%50
16	MP3	Z	88	%50
17	MP4	Z	134.8	%50
18	MP5	Z	112	%50
19	MP6	Z	246.2	%50
20	MP7	Z	70.1	%50

Member Point Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
21	MP8	Z	50.2	%50
22	MP9	Z	114.9	%50
23	MP10	Z	70.1	%50
24	MP11	Z	90.7	%50
25	MP12	Z	50.2	%50
26	MP13	Z	137.6	%50

Member Point Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-67.1	%50
2	MP2	X	-35.2	%50
3	MP3	X	-35.3	%50
4	MP4	X	-52.9	%50
5	MP5	X	-52.2	%50
6	MP6	X	-134	%50
7	MP7	X	-28.8	%50
8	MP8	X	-9.2	%50
9	MP9	X	-67.8	%50
10	MP10	X	-47.4	%50
11	MP11	X	-50.9	%50
12	MP12	X	-57	%50
13	MP13	X	-76.4	%50
14	MP1	Z	116.3	%50
15	MP2	Z	61	%50
16	MP3	Z	61.1	%50
17	MP4	Z	91.6	%50
18	MP5	Z	90.5	%50
19	MP6	Z	232.1	%50
20	MP7	Z	50	%50
21	MP8	Z	15.9	%50
22	MP9	Z	117.4	%50
23	MP10	Z	82.1	%50
24	MP11	Z	88.1	%50
25	MP12	Z	98.7	%50
26	MP13	Z	132.3	%50

Member Point Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-115.3	%50
2	MP2	X	-30.5	%50
3	MP3	X	-30.9	%50
4	MP4	X	-41.1	%50
5	MP5	X	-97	%50
6	MP6	X	-213.2	%50
7	MP7	X	-60.7	%50
8	MP8	X	-43.5	%50
9	MP9	X	-126.3	%50
10	MP10	X	-92.9	%50
11	MP11	X	-92.9	%50
12	MP12	X	-126.3	%50
13	MP13	X	-158.7	%50
14	MP1	Z	66.6	%50
15	MP2	Z	17.6	%50
16	MP3	Z	17.9	%50
17	MP4	Z	23.7	%50
18	MP5	Z	56	%50

Member Point Loads (BLC 7 : Wind Load (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
19	MP6	Z	123.1	%50
20	MP7	Z	35	%50
21	MP8	Z	25.1	%50
22	MP9	Z	72.9	%50
23	MP10	Z	53.6	%50
24	MP11	Z	53.6	%50
25	MP12	Z	72.9	%50
26	MP13	Z	91.6	%50

Member Point Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP1	X	-132.6	%50
2	MP2	X	-17.6	%50
3	MP3	X	-18.3	%50
4	MP4	X	-18.3	%50
5	MP5	X	-127.2	%50
6	MP6	X	-202.4	%50
7	MP7	X	-94.9	%50
8	MP8	X	-114	%50
9	MP9	X	-135.5	%50
10	MP10	X	-94.9	%50
11	MP11	X	-101.7	%50
12	MP12	X	-114	%50
13	MP13	X	-198.5	%50
14	MP1	Z	0	%50
15	MP2	Z	0	%50
16	MP3	Z	0	%50
17	MP4	Z	0	%50
18	MP5	Z	0	%50
19	MP6	Z	0	%50
20	MP7	Z	0	%50
21	MP8	Z	0	%50
22	MP9	Z	0	%50
23	MP10	Z	0	%50
24	MP11	Z	0	%50
25	MP12	Z	0	%50
26	MP13	Z	0	%50

Member Point Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP1	X	-115.3	%50
2	MP2	X	-30.5	%50
3	MP3	X	-30.9	%50
4	MP4	X	-41.1	%50
5	MP5	X	-116.8	%50
6	MP6	X	-156.4	%50
7	MP7	X	-92.9	%50
8	MP8	X	-126.3	%50
9	MP9	X	-99.5	%50
10	MP10	X	-60.7	%50
11	MP11	X	-78.5	%50
12	MP12	X	-43.5	%50
13	MP13	X	-158.7	%50
14	MP1	Z	-66.6	%50
15	MP2	Z	-17.6	%50
16	MP3	Z	-17.9	%50

Member Point Loads (BLC 9 : Wind Load (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
17	MP4	Z	-23.7	%50
18	MP5	Z	-67.4	%50
19	MP6	Z	-90.3	%50
20	MP7	Z	-53.6	%50
21	MP8	Z	-72.9	%50
22	MP9	Z	-57.5	%50
23	MP10	Z	-35	%50
24	MP11	Z	-45.3	%50
25	MP12	Z	-25.1	%50
26	MP13	Z	-91.6	%50

Member Point Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-67.1	%50
2	MP2	X	-35.2	%50
3	MP3	X	-35.3	%50
4	MP4	X	-52.9	%50
5	MP5	X	-63.6	%50
6	MP6	X	-101.2	%50
7	MP7	X	-47.4	%50
8	MP8	X	-57	%50
9	MP9	X	-52.3	%50
10	MP10	X	-28.8	%50
11	MP11	X	-42.6	%50
12	MP12	X	-9.2	%50
13	MP13	X	-76.4	%50
14	MP1	Z	-116.3	%50
15	MP2	Z	-61	%50
16	MP3	Z	-61.1	%50
17	MP4	Z	-91.6	%50
18	MP5	Z	-110.2	%50
19	MP6	Z	-175.3	%50
20	MP7	Z	-82.1	%50
21	MP8	Z	-98.7	%50
22	MP9	Z	-90.6	%50
23	MP10	Z	-50	%50
24	MP11	Z	-73.8	%50
25	MP12	Z	-15.9	%50
26	MP13	Z	-132.3	%50

Member Point Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP10	X	0	%50
11	MP11	X	0	%50
12	MP12	X	0	%50
13	MP13	X	0	%50
14	MP1	Z	-134.8	%50

Member Point Loads (BLC 11 : Wind Load (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
15	MP2	Z	-88	%50
16	MP3	Z	-88	%50
17	MP4	Z	-134.8	%50
18	MP5	Z	-112	%50
19	MP6	Z	-246.2	%50
20	MP7	Z	-70.1	%50
21	MP8	Z	-50.2	%50
22	MP9	Z	-114.9	%50
23	MP10	Z	-70.1	%50
24	MP11	Z	-90.7	%50
25	MP12	Z	-50.2	%50
26	MP13	Z	-137.6	%50

Member Point Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	67.1	%50
2	MP2	X	35.2	%50
3	MP3	X	35.3	%50
4	MP4	X	52.9	%50
5	MP5	X	52.2	%50
6	MP6	X	134	%50
7	MP7	X	28.8	%50
8	MP8	X	9.2	%50
9	MP9	X	67.8	%50
10	MP10	X	47.4	%50
11	MP11	X	50.9	%50
12	MP12	X	57	%50
13	MP13	X	76.4	%50
14	MP1	Z	-116.3	%50
15	MP2	Z	-61	%50
16	MP3	Z	-61.1	%50
17	MP4	Z	-91.6	%50
18	MP5	Z	-90.5	%50
19	MP6	Z	-232.1	%50
20	MP7	Z	-50	%50
21	MP8	Z	-15.9	%50
22	MP9	Z	-117.4	%50
23	MP10	Z	-82.1	%50
24	MP11	Z	-88.1	%50
25	MP12	Z	-98.7	%50
26	MP13	Z	-132.3	%50

Member Point Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	115.3	%50
2	MP2	X	30.5	%50
3	MP3	X	30.9	%50
4	MP4	X	41.1	%50
5	MP5	X	97	%50
6	MP6	X	213.2	%50
7	MP7	X	60.7	%50
8	MP8	X	43.5	%50
9	MP9	X	126.3	%50
10	MP10	X	92.9	%50
11	MP11	X	92.9	%50
12	MP12	X	126.3	%50

Member Point Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
13	MP13	X	158.7	%50
14	MP1	Z	-66.6	%50
15	MP2	Z	-17.6	%50
16	MP3	Z	-17.9	%50
17	MP4	Z	-23.7	%50
18	MP5	Z	-56	%50
19	MP6	Z	-123.1	%50
20	MP7	Z	-35	%50
21	MP8	Z	-25.1	%50
22	MP9	Z	-72.9	%50
23	MP10	Z	-53.6	%50
24	MP11	Z	-53.6	%50
25	MP12	Z	-72.9	%50
26	MP13	Z	-91.6	%50

Member Point Loads (BLC 14 : Ice Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	Y	-231	%50
2	MP2	Y	-399.5	%50
3	MP3	Y	-504.2	%50
4	MP4	Y	-572.5	%50
5	MP5	Y	-467.8	%50
6	MP6	Y	-322.5	%50
7	MP7	Y	-537.3	%50
8	MP8	Y	-575.9	%50
9	MP9	Y	-471.2	%50
10	MP10	Y	-537.3	%50
11	MP11	Y	-195.8	%50
12	MP12	Y	-575.9	%50
13	MP13	Y	-176.8	%50

Member Point Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	40.4	%50
2	MP2	X	10	%50
3	MP3	X	10.3	%50
4	MP4	X	10.3	%50
5	MP5	X	42.1	%50
6	MP6	X	58.3	%50
7	MP7	X	35.9	%50
8	MP8	X	39.4	%50
9	MP9	X	43.6	%50
10	MP10	X	35.9	%50
11	MP11	X	39.1	%50
12	MP12	X	39.4	%50
13	MP13	X	48	%50
14	MP1	Z	0	%50
15	MP2	Z	0	%50
16	MP3	Z	0	%50
17	MP4	Z	0	%50
18	MP5	Z	0	%50
19	MP6	Z	0	%50
20	MP7	Z	0	%50
21	MP8	Z	0	%50
22	MP9	Z	0	%50
23	MP10	Z	0	%50

Member Point Loads (BLC 15 : Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
24	MP11	Z	0	%50
25	MP12	Z	0	%50
26	MP13	Z	0	%50

Member Point Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	36.4	%50
2	MP2	X	14	%50
3	MP3	X	14.3	%50
4	MP4	X	16.9	%50
5	MP5	X	40.7	%50
6	MP6	X	48.6	%50
7	MP7	X	35.9	%50
8	MP8	X	42.5	%50
9	MP9	X	28.3	%50
10	MP10	X	21.5	%50
11	MP11	X	30	%50
12	MP12	X	17.3	%50
13	MP13	X	38.3	%50
14	MP1	Z	21	%50
15	MP2	Z	8.1	%50
16	MP3	Z	8.2	%50
17	MP4	Z	9.7	%50
18	MP5	Z	23.5	%50
19	MP6	Z	28.1	%50
20	MP7	Z	20.7	%50
21	MP8	Z	24.6	%50
22	MP9	Z	16.3	%50
23	MP10	Z	12.4	%50
24	MP11	Z	17.3	%50
25	MP12	Z	10	%50
26	MP13	Z	22.1	%50

Member Point Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	22.7	%50
2	MP2	X	14.3	%50
3	MP3	X	14.4	%50
4	MP4	X	18.9	%50
5	MP5	X	21	%50
6	MP6	X	29.2	%50
7	MP7	X	17.9	%50
8	MP8	X	19.7	%50
9	MP9	X	13.6	%50
10	MP10	X	9.7	%50
11	MP11	X	16.2	%50
12	MP12	X	5.2	%50
13	MP13	X	18.3	%50
14	MP1	Z	39.3	%50
15	MP2	Z	24.8	%50
16	MP3	Z	24.9	%50
17	MP4	Z	32.8	%50
18	MP5	Z	36.4	%50
19	MP6	Z	50.5	%50
20	MP7	Z	31.1	%50
21	MP8	Z	34.1	%50

Member Point Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
22	MP9	Z	23.6	%50
23	MP10	Z	16.8	%50
24	MP11	Z	28	%50
25	MP12	Z	8.9	%50
26	MP13	Z	31.7	%50

Member Point Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP10	X	0	%50
11	MP11	X	0	%50
12	MP12	X	0	%50
13	MP13	X	0	%50
14	MP1	Z	47	%50
15	MP2	Z	34.9	%50
16	MP3	Z	34.9	%50
17	MP4	Z	47	%50
18	MP5	Z	32.1	%50
19	MP6	Z	62.7	%50
20	MP7	Z	24.9	%50
21	MP8	Z	20	%50
22	MP9	Z	32.7	%50
23	MP10	Z	24.9	%50
24	MP11	Z	34.6	%50
25	MP12	Z	20	%50
26	MP13	Z	32.8	%50

Member Point Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP1	X	-22.7	%50
2	MP2	X	-14.3	%50
3	MP3	X	-14.4	%50
4	MP4	X	-18.9	%50
5	MP5	X	-13.6	%50
6	MP6	X	-32.5	%50
7	MP7	X	-9.7	%50
8	MP8	X	-5.2	%50
9	MP9	X	-21.8	%50
10	MP10	X	-17.9	%50
11	MP11	X	-19.6	%50
12	MP12	X	-19.7	%50
13	MP13	X	-18.3	%50
14	MP1	Z	39.3	%50
15	MP2	Z	24.8	%50
16	MP3	Z	24.9	%50
17	MP4	Z	32.8	%50
18	MP5	Z	23.5	%50
19	MP6	Z	56.2	%50

Member Point Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
20	MP7	Z	16.8	%50
21	MP8	Z	8.9	%50
22	MP9	Z	37.8	%50
23	MP10	Z	31.1	%50
24	MP11	Z	33.9	%50
25	MP12	Z	34.1	%50
26	MP13	Z	31.7	%50

Member Point Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-36.4	%50
2	MP2	X	-14	%50
3	MP3	X	-14.3	%50
4	MP4	X	-16.9	%50
5	MP5	X	-27.8	%50
6	MP6	X	-54.3	%50
7	MP7	X	-21.5	%50
8	MP8	X	-17.3	%50
9	MP9	X	-42.5	%50
10	MP10	X	-35.9	%50
11	MP11	X	-35.9	%50
12	MP12	X	-42.5	%50
13	MP13	X	-38.3	%50
14	MP1	Z	21	%50
15	MP2	Z	8.1	%50
16	MP3	Z	8.2	%50
17	MP4	Z	9.7	%50
18	MP5	Z	16.1	%50
19	MP6	Z	31.4	%50
20	MP7	Z	12.4	%50
21	MP8	Z	10	%50
22	MP9	Z	24.6	%50
23	MP10	Z	20.7	%50
24	MP11	Z	20.7	%50
25	MP12	Z	24.6	%50
26	MP13	Z	22.1	%50

Member Point Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-40.4	%50
2	MP2	X	-10	%50
3	MP3	X	-10.3	%50
4	MP4	X	-10.3	%50
5	MP5	X	-42.1	%50
6	MP6	X	-58.3	%50
7	MP7	X	-35.9	%50
8	MP8	X	-39.4	%50
9	MP9	X	-43.6	%50
10	MP10	X	-35.9	%50
11	MP11	X	-39.1	%50
12	MP12	X	-39.4	%50
13	MP13	X	-48	%50
14	MP1	Z	0	%50
15	MP2	Z	0	%50
16	MP3	Z	0	%50
17	MP4	Z	0	%50

Member Point Loads (BLC 21 : Wind on Ice (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
18	MP5	Z	0	%50
19	MP6	Z	0	%50
20	MP7	Z	0	%50
21	MP8	Z	0	%50
22	MP9	Z	0	%50
23	MP10	Z	0	%50
24	MP11	Z	0	%50
25	MP12	Z	0	%50
26	MP13	Z	0	%50

Member Point Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	-36.4	%50
2	MP2	X	-14	%50
3	MP3	X	-14.3	%50
4	MP4	X	-16.9	%50
5	MP5	X	-40.7	%50
6	MP6	X	-48.6	%50
7	MP7	X	-35.9	%50
8	MP8	X	-42.5	%50
9	MP9	X	-28.3	%50
10	MP10	X	-21.5	%50
11	MP11	X	-30	%50
12	MP12	X	-17.3	%50
13	MP13	X	-38.3	%50
14	MP1	Z	-21	%50
15	MP2	Z	-8.1	%50
16	MP3	Z	-8.2	%50
17	MP4	Z	-9.7	%50
18	MP5	Z	-23.5	%50
19	MP6	Z	-28.1	%50
20	MP7	Z	-20.7	%50
21	MP8	Z	-24.6	%50
22	MP9	Z	-16.3	%50
23	MP10	Z	-12.4	%50
24	MP11	Z	-17.3	%50
25	MP12	Z	-10	%50
26	MP13	Z	-22.1	%50

Member Point Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	-22.7	%50
2	MP2	X	-14.3	%50
3	MP3	X	-14.4	%50
4	MP4	X	-18.9	%50
5	MP5	X	-21	%50
6	MP6	X	-29.2	%50
7	MP7	X	-17.9	%50
8	MP8	X	-19.7	%50
9	MP9	X	-13.6	%50
10	MP10	X	-9.7	%50
11	MP11	X	-16.2	%50
12	MP12	X	-5.2	%50
13	MP13	X	-18.3	%50
14	MP1	Z	-39.3	%50
15	MP2	Z	-24.8	%50

Member Point Loads (BLC 23 : Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
16	MP3	Z	-24.9	%50
17	MP4	Z	-32.8	%50
18	MP5	Z	-36.4	%50
19	MP6	Z	-50.5	%50
20	MP7	Z	-31.1	%50
21	MP8	Z	-34.1	%50
22	MP9	Z	-23.6	%50
23	MP10	Z	-16.8	%50
24	MP11	Z	-28	%50
25	MP12	Z	-8.9	%50
26	MP13	Z	-31.7	%50

Member Point Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP10	X	0	%50
11	MP11	X	0	%50
12	MP12	X	0	%50
13	MP13	X	0	%50
14	MP1	Z	-47	%50
15	MP2	Z	-34.9	%50
16	MP3	Z	-34.9	%50
17	MP4	Z	-47	%50
18	MP5	Z	-32.1	%50
19	MP6	Z	-62.7	%50
20	MP7	Z	-24.9	%50
21	MP8	Z	-20	%50
22	MP9	Z	-32.7	%50
23	MP10	Z	-24.9	%50
24	MP11	Z	-34.6	%50
25	MP12	Z	-20	%50
26	MP13	Z	-32.8	%50

Member Point Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	22.7	%50
2	MP2	X	14.3	%50
3	MP3	X	14.4	%50
4	MP4	X	18.9	%50
5	MP5	X	13.6	%50
6	MP6	X	32.5	%50
7	MP7	X	9.7	%50
8	MP8	X	5.2	%50
9	MP9	X	21.8	%50
10	MP10	X	17.9	%50
11	MP11	X	19.6	%50
12	MP12	X	19.7	%50
13	MP13	X	18.3	%50

Member Point Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
14	MP1	Z	-39.3	%50
15	MP2	Z	-24.8	%50
16	MP3	Z	-24.9	%50
17	MP4	Z	-32.8	%50
18	MP5	Z	-23.5	%50
19	MP6	Z	-56.2	%50
20	MP7	Z	-16.8	%50
21	MP8	Z	-8.9	%50
22	MP9	Z	-37.8	%50
23	MP10	Z	-31.1	%50
24	MP11	Z	-33.9	%50
25	MP12	Z	-34.1	%50
26	MP13	Z	-31.7	%50

Member Point Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	36.4	%50
2	MP2	X	14	%50
3	MP3	X	14.3	%50
4	MP4	X	16.9	%50
5	MP5	X	27.8	%50
6	MP6	X	54.3	%50
7	MP7	X	21.5	%50
8	MP8	X	17.3	%50
9	MP9	X	42.5	%50
10	MP10	X	35.9	%50
11	MP11	X	35.9	%50
12	MP12	X	42.5	%50
13	MP13	X	38.3	%50
14	MP1	Z	-21	%50
15	MP2	Z	-8.1	%50
16	MP3	Z	-8.2	%50
17	MP4	Z	-9.7	%50
18	MP5	Z	-16.1	%50
19	MP6	Z	-31.4	%50
20	MP7	Z	-12.4	%50
21	MP8	Z	-10	%50
22	MP9	Z	-24.6	%50
23	MP10	Z	-20.7	%50
24	MP11	Z	-20.7	%50
25	MP12	Z	-24.6	%50
26	MP13	Z	-22.1	%50

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	93.4	%50
2	MP2	X	31.3	%50
3	MP3	X	78.3	%50
4	MP4	X	148.6	%50
5	MP5	X	101.6	%50
6	MP6	X	67.1	%50
7	MP7	X	96.9	%50
8	MP8	X	162.7	%50
9	MP9	X	123.2	%50
10	MP10	X	96.9	%50
11	MP11	X	41.8	%50

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
12	MP12	X	162.7	%50
13	MP13	X	32	%50
14	MP1	Z	0	%50
15	MP2	Z	0	%50
16	MP3	Z	0	%50
17	MP4	Z	0	%50
18	MP5	Z	0	%50
19	MP6	Z	0	%50
20	MP7	Z	0	%50
21	MP8	Z	0	%50
22	MP9	Z	0	%50
23	MP10	Z	0	%50
24	MP11	Z	0	%50
25	MP12	Z	0	%50
26	MP13	Z	0	%50

Member Point Loads (BLC 28 : Horizontal Seismic, Eh (30))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	80.9	%50
2	MP2	X	27.1	%50
3	MP3	X	67.8	%50
4	MP4	X	128.7	%50
5	MP5	X	88	%50
6	MP6	X	58.1	%50
7	MP7	X	84	%50
8	MP8	X	140.9	%50
9	MP9	X	106.7	%50
10	MP10	X	84	%50
11	MP11	X	36.2	%50
12	MP12	X	140.9	%50
13	MP13	X	27.7	%50
14	MP1	Z	46.7	%50
15	MP2	Z	15.6	%50
16	MP3	Z	39.1	%50
17	MP4	Z	74.3	%50
18	MP5	Z	50.8	%50
19	MP6	Z	33.6	%50
20	MP7	Z	48.5	%50
21	MP8	Z	81.3	%50
22	MP9	Z	61.6	%50
23	MP10	Z	48.5	%50
24	MP11	Z	20.9	%50
25	MP12	Z	81.3	%50
26	MP13	Z	16	%50

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	46.7	%50
2	MP2	X	15.7	%50
3	MP3	X	39.2	%50
4	MP4	X	74.3	%50
5	MP5	X	50.8	%50
6	MP6	X	33.6	%50
7	MP7	X	48.5	%50
8	MP8	X	81.4	%50
9	MP9	X	61.6	%50

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
10	MP10	X	48.5	%50
11	MP11	X	20.9	%50
12	MP12	X	81.4	%50
13	MP13	X	16	%50
14	MP1	Z	80.9	%50
15	MP2	Z	27.1	%50
16	MP3	Z	67.8	%50
17	MP4	Z	128.7	%50
18	MP5	Z	88	%50
19	MP6	Z	58.1	%50
20	MP7	Z	84	%50
21	MP8	Z	140.9	%50
22	MP9	Z	106.7	%50
23	MP10	Z	84	%50
24	MP11	Z	36.2	%50
25	MP12	Z	140.9	%50
26	MP13	Z	27.7	%50

Member Point Loads (BLC 30 : Horizontal Seismic, Eh (90))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP10	X	0	%50
11	MP11	X	0	%50
12	MP12	X	0	%50
13	MP13	X	0	%50
14	MP1	Z	93.4	%50
15	MP2	Z	31.3	%50
16	MP3	Z	78.3	%50
17	MP4	Z	148.6	%50
18	MP5	Z	101.6	%50
19	MP6	Z	67.1	%50
20	MP7	Z	96.9	%50
21	MP8	Z	162.7	%50
22	MP9	Z	123.2	%50
23	MP10	Z	96.9	%50
24	MP11	Z	41.8	%50
25	MP12	Z	162.7	%50
26	MP13	Z	32	%50

Member Point Loads (BLC 31 : Horizontal Seismic, Eh (120))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-46.7	%50
2	MP2	X	-15.6	%50
3	MP3	X	-39.1	%50
4	MP4	X	-74.3	%50
5	MP5	X	-50.8	%50
6	MP6	X	-33.6	%50
7	MP7	X	-48.5	%50

Member Point Loads (BLC 31 : Horizontal Seismic, Eh (120)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
8	MP8	X	-81.3	%50
9	MP9	X	-61.6	%50
10	MP10	X	-48.5	%50
11	MP11	X	-20.9	%50
12	MP12	X	-81.3	%50
13	MP13	X	-16	%50
14	MP1	Z	80.9	%50
15	MP2	Z	27.1	%50
16	MP3	Z	67.8	%50
17	MP4	Z	128.7	%50
18	MP5	Z	88	%50
19	MP6	Z	58.1	%50
20	MP7	Z	84	%50
21	MP8	Z	140.9	%50
22	MP9	Z	106.7	%50
23	MP10	Z	84	%50
24	MP11	Z	36.2	%50
25	MP12	Z	140.9	%50
26	MP13	Z	27.7	%50

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	-80.9	%50
2	MP2	X	-27.1	%50
3	MP3	X	-67.8	%50
4	MP4	X	-128.7	%50
5	MP5	X	-88	%50
6	MP6	X	-58.1	%50
7	MP7	X	-84	%50
8	MP8	X	-140.9	%50
9	MP9	X	-106.7	%50
10	MP10	X	-84	%50
11	MP11	X	-36.2	%50
12	MP12	X	-140.9	%50
13	MP13	X	-27.7	%50
14	MP1	Z	46.7	%50
15	MP2	Z	15.6	%50
16	MP3	Z	39.1	%50
17	MP4	Z	74.3	%50
18	MP5	Z	50.8	%50
19	MP6	Z	33.6	%50
20	MP7	Z	48.5	%50
21	MP8	Z	81.3	%50
22	MP9	Z	61.6	%50
23	MP10	Z	48.5	%50
24	MP11	Z	20.9	%50
25	MP12	Z	81.3	%50
26	MP13	Z	16	%50

Member Point Loads (BLC 33 : Horizontal Seismic, Eh (180))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	-93.4	%50
2	MP2	X	-31.3	%50
3	MP3	X	-78.3	%50
4	MP4	X	-148.6	%50
5	MP5	X	-101.6	%50

Member Point Loads (BLC 33 : Horizontal Seismic, Eh (180)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
6	MP6	X	-67.1	%50
7	MP7	X	-96.9	%50
8	MP8	X	-162.7	%50
9	MP9	X	-123.2	%50
10	MP10	X	-96.9	%50
11	MP11	X	-41.8	%50
12	MP12	X	-162.7	%50
13	MP13	X	-32	%50
14	MP1	Z	0	%50
15	MP2	Z	0	%50
16	MP3	Z	0	%50
17	MP4	Z	0	%50
18	MP5	Z	0	%50
19	MP6	Z	0	%50
20	MP7	Z	0	%50
21	MP8	Z	0	%50
22	MP9	Z	0	%50
23	MP10	Z	0	%50
24	MP11	Z	0	%50
25	MP12	Z	0	%50
26	MP13	Z	0	%50

Member Point Loads (BLC 34 : Horizontal Seismic, Eh (210))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-80.9	%50
2	MP2	X	-27.1	%50
3	MP3	X	-67.8	%50
4	MP4	X	-128.7	%50
5	MP5	X	-88	%50
6	MP6	X	-58.1	%50
7	MP7	X	-84	%50
8	MP8	X	-140.9	%50
9	MP9	X	-106.7	%50
10	MP10	X	-84	%50
11	MP11	X	-36.2	%50
12	MP12	X	-140.9	%50
13	MP13	X	-27.7	%50
14	MP1	Z	-46.7	%50
15	MP2	Z	-15.7	%50
16	MP3	Z	-39.2	%50
17	MP4	Z	-74.3	%50
18	MP5	Z	-50.8	%50
19	MP6	Z	-33.6	%50
20	MP7	Z	-48.5	%50
21	MP8	Z	-81.4	%50
22	MP9	Z	-61.6	%50
23	MP10	Z	-48.5	%50
24	MP11	Z	-20.9	%50
25	MP12	Z	-81.4	%50
26	MP13	Z	-16	%50

Member Point Loads (BLC 35 : Horizontal Seismic, Eh (240))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-46.7	%50
2	MP2	X	-15.7	%50
3	MP3	X	-39.2	%50

Member Point Loads (BLC 35 : Horizontal Seismic, Eh (240)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP4	X	-74.3	%50
5	MP5	X	-50.8	%50
6	MP6	X	-33.6	%50
7	MP7	X	-48.5	%50
8	MP8	X	-81.4	%50
9	MP9	X	-61.6	%50
10	MP10	X	-48.5	%50
11	MP11	X	-20.9	%50
12	MP12	X	-81.4	%50
13	MP13	X	-16	%50
14	MP1	Z	-80.9	%50
15	MP2	Z	-27.1	%50
16	MP3	Z	-67.8	%50
17	MP4	Z	-128.7	%50
18	MP5	Z	-88	%50
19	MP6	Z	-58.1	%50
20	MP7	Z	-84	%50
21	MP8	Z	-140.9	%50
22	MP9	Z	-106.7	%50
23	MP10	Z	-84	%50
24	MP11	Z	-36.2	%50
25	MP12	Z	-140.9	%50
26	MP13	Z	-27.7	%50

Member Point Loads (BLC 36 : Horizontal Seismic, Eh (270))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%50
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%50
5	MP5	X	0	%50
6	MP6	X	0	%50
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%50
10	MP10	X	0	%50
11	MP11	X	0	%50
12	MP12	X	0	%50
13	MP13	X	0	%50
14	MP1	Z	-93.4	%50
15	MP2	Z	-31.3	%50
16	MP3	Z	-78.3	%50
17	MP4	Z	-148.6	%50
18	MP5	Z	-101.6	%50
19	MP6	Z	-67.1	%50
20	MP7	Z	-96.9	%50
21	MP8	Z	-162.7	%50
22	MP9	Z	-123.2	%50
23	MP10	Z	-96.9	%50
24	MP11	Z	-41.8	%50
25	MP12	Z	-162.7	%50
26	MP13	Z	-32	%50

Member Point Loads (BLC 37 : Horizontal Seismic, Eh (300))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	46.7	%50

Member Point Loads (BLC 37 : Horizontal Seismic, Eh (300)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
2	MP2	X	15.7	%50
3	MP3	X	39.2	%50
4	MP4	X	74.3	%50
5	MP5	X	50.8	%50
6	MP6	X	33.6	%50
7	MP7	X	48.5	%50
8	MP8	X	81.4	%50
9	MP9	X	61.6	%50
10	MP10	X	48.5	%50
11	MP11	X	20.9	%50
12	MP12	X	81.4	%50
13	MP13	X	16	%50
14	MP1	Z	-80.9	%50
15	MP2	Z	-27.1	%50
16	MP3	Z	-67.8	%50
17	MP4	Z	-128.7	%50
18	MP5	Z	-88	%50
19	MP6	Z	-58.1	%50
20	MP7	Z	-84	%50
21	MP8	Z	-140.9	%50
22	MP9	Z	-106.7	%50
23	MP10	Z	-84	%50
24	MP11	Z	-36.2	%50
25	MP12	Z	-140.9	%50
26	MP13	Z	-27.7	%50

Member Point Loads (BLC 38 : Horizontal Seismic, Eh (330))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	80.9	%50
2	MP2	X	27.1	%50
3	MP3	X	67.8	%50
4	MP4	X	128.7	%50
5	MP5	X	88	%50
6	MP6	X	58.1	%50
7	MP7	X	84	%50
8	MP8	X	140.9	%50
9	MP9	X	106.7	%50
10	MP10	X	84	%50
11	MP11	X	36.2	%50
12	MP12	X	140.9	%50
13	MP13	X	27.7	%50
14	MP1	Z	-46.7	%50
15	MP2	Z	-15.7	%50
16	MP3	Z	-39.2	%50
17	MP4	Z	-74.3	%50
18	MP5	Z	-50.8	%50
19	MP6	Z	-33.6	%50
20	MP7	Z	-48.5	%50
21	MP8	Z	-81.4	%50
22	MP9	Z	-61.6	%50
23	MP10	Z	-48.5	%50
24	MP11	Z	-20.9	%50
25	MP12	Z	-81.4	%50
26	MP13	Z	-16	%50

Member Point Loads (BLC 39 : Maintenance Load, Lm (MP1))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-500	%50

Member Point Loads (BLC 40 : Maintenance Load, Lm (MP2))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Y	-500	%50

Member Point Loads (BLC 41 : Maintenance Load, Lm (MP3))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP3	Y	-500	%50

Member Point Loads (BLC 42 : Maintenance Load, Lm (MP4))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP4	Y	-500	%50

Member Point Loads (BLC 43 : Maintenance Load, Lm (MP5))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP5	Y	-500	%50

Member Point Loads (BLC 44 : Maintenance Load, Lm (MP6))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP6	Y	-500	%50

Member Point Loads (BLC 45 : Maintenance Load, Lm (MP7))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP7	Y	-500	%50

Member Point Loads (BLC 46 : Maintenance Load, Lm (MP8))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP8	Y	-500	%50

Member Point Loads (BLC 47 : Maintenance Load, Lm (MP9))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP9	Y	-500	%50

Member Point Loads (BLC 48 : Maintenance Load, Lm (MP10))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP10	Y	-500	%50

Member Point Loads (BLC 49 : Maintenance Load, Lm (MP11))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP11	Y	-500	%50

Member Point Loads (BLC 50 : Maintenance Load, Lm (MP12))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP12	Y	-500	%50

Member Point Loads (BLC 51 : Maintenance Load, Lm (MP13))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP13	Y	-500	%50

Member Point Loads (BLC 75 : Maintenance Load, Lv (Pos. 1))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-0	Y	-250	0

Member Point Loads (BLC 76 : Maintenance Load, Lv (Pos. 2))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-0	Y	-250	%50

Member Point Loads (BLC 77 : Maintenance Load, Lv (Pos. 3))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-0	Y	-250	%100

Member Point Loads (BLC 78 : Maintenance Load, Lv (Pos. 4))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-120	Y	-250	0

Member Point Loads (BLC 79 : Maintenance Load, Lv (Pos. 5))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-120	Y	-250	%50

Member Point Loads (BLC 80 : Maintenance Load, Lv (Pos. 6))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-120	Y	-250	%100

Member Point Loads (BLC 81 : Maintenance Load, Lv (Pos. 7))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-240	Y	-250	0

Member Point Loads (BLC 82 : Maintenance Load, Lv (Pos. 8))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-240	Y	-250	%50

Member Point Loads (BLC 83 : Maintenance Load, Lv (Pos. 9))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	FM-BOT-240	Y	-250	%100

Member Point Loads (BLC 84 : Maintenance Load, Lv (Pos. 10))

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

Member Point Loads (BLC 85 : Maintenance Load, Lv (Pos. 11))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	SA-2	Y	-250	0

Member Point Loads (BLC 86 : Maintenance Load, Lv (Pos. 12))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	SA-3	Y	-250	0

Member Point Loads (BLC 175 : Antenna Wind Load (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	35.5	%47.833
2	MP1	X	35.5	%52.167
3	MP2	X	96.3	%18.281

Member Point Loads (BLC 175 : Antenna Wind Load (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
4	MP2	X	96.3	%81.719
5	MP3	X	176.4	%18.75
6	MP3	X	176.4	%81.25
7	MP4	X	176.4	%18.75
8	MP4	X	176.4	%81.25
9	MP5	X	67.4	%18.281
10	MP5	X	67.4	%81.719
11	MP6	X	21.8	%47.833
12	MP6	X	21.8	%52.167
13	MP7	X	96.4	%18.75
14	MP7	X	96.4	%81.25
15	MP8	X	96.4	%18.75
16	MP8	X	96.4	%81.25
17	MP9	X	67.4	%18.385
18	MP9	X	67.4	%81.615
19	MP10	X	96.4	%18.75
20	MP10	X	96.4	%81.25
21	MP11	X	21.8	%47.833
22	MP11	X	21.8	%52.167
23	MP12	X	96.4	%18.75
24	MP12	X	96.4	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	0	0
28	MP1	Z	0	0
29	MP2	Z	0	0
30	MP2	Z	0	0
31	MP3	Z	0	0
32	MP3	Z	0	0
33	MP4	Z	0	0
34	MP4	Z	0	0
35	MP5	Z	0	0
36	MP5	Z	0	0
37	MP6	Z	0	0
38	MP6	Z	0	0
39	MP7	Z	0	0
40	MP7	Z	0	0
41	MP8	Z	0	0
42	MP8	Z	0	0
43	MP9	Z	0	0
44	MP9	Z	0	0
45	MP10	Z	0	0
46	MP10	Z	0	0
47	MP11	Z	0	0
48	MP11	Z	0	0
49	MP12	Z	0	0
50	MP12	Z	0	0
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 176 : Antenna Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	26.8	%47.833
2	MP1	X	26.8	%52.167
3	MP2	X	75	%18.281
4	MP2	X	75	%81.719

Member Point Loads (BLC 176 : Antenna Wind Load (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
5	MP3	X	129.7	%18.75
6	MP3	X	129.7	%81.25
7	MP4	X	129.7	%18.75
8	MP4	X	129.7	%81.25
9	MP5	X	50	%18.281
10	MP5	X	50	%81.719
11	MP6	X	15	%47.833
12	MP6	X	15	%52.167
13	MP7	X	60.3	%18.75
14	MP7	X	60.3	%81.25
15	MP8	X	60.3	%18.75
16	MP8	X	60.3	%81.25
17	MP9	X	75	%18.385
18	MP9	X	75	%81.615
19	MP10	X	129.7	%18.75
20	MP10	X	129.7	%81.25
21	MP11	X	26.8	%47.833
22	MP11	X	26.8	%52.167
23	MP12	X	129.7	%18.75
24	MP12	X	129.7	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	15.5	%47.833
28	MP1	Z	15.5	%52.167
29	MP2	Z	43.3	%18.281
30	MP2	Z	43.3	%81.719
31	MP3	Z	74.9	%18.75
32	MP3	Z	74.9	%81.25
33	MP4	Z	74.9	%18.75
34	MP4	Z	74.9	%81.25
35	MP5	Z	28.9	%18.281
36	MP5	Z	28.9	%81.719
37	MP6	Z	8.6	%47.833
38	MP6	Z	8.6	%52.167
39	MP7	Z	34.8	%18.75
40	MP7	Z	34.8	%81.25
41	MP8	Z	34.8	%18.75
42	MP8	Z	34.8	%81.25
43	MP9	Z	43.3	%18.385
44	MP9	Z	43.3	%81.615
45	MP10	Z	74.9	%18.75
46	MP10	Z	74.9	%81.25
47	MP11	Z	15.5	%47.833
48	MP11	Z	15.5	%52.167
49	MP12	Z	74.9	%18.75
50	MP12	Z	74.9	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 177 : Antenna Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	10.9	%47.833
2	MP1	X	10.9	%52.167
3	MP2	X	33.7	%18.281
4	MP2	X	33.7	%81.719
5	MP3	X	48.2	%18.75

Member Point Loads (BLC 177 : Antenna Wind Load (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
6	MP3	X	48.2	%81.25
7	MP4	X	48.2	%18.75
8	MP4	X	48.2	%81.25
9	MP5	X	33.7	%18.281
10	MP5	X	33.7	%81.719
11	MP6	X	10.9	%47.833
12	MP6	X	10.9	%52.167
13	MP7	X	48.2	%18.75
14	MP7	X	48.2	%81.25
15	MP8	X	48.2	%18.75
16	MP8	X	48.2	%81.25
17	MP9	X	48.1	%18.385
18	MP9	X	48.1	%81.615
19	MP10	X	88.2	%18.75
20	MP10	X	88.2	%81.25
21	MP11	X	17.8	%47.833
22	MP11	X	17.8	%52.167
23	MP12	X	88.2	%18.75
24	MP12	X	88.2	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	18.9	%47.833
28	MP1	Z	18.9	%52.167
29	MP2	Z	58.3	%18.281
30	MP2	Z	58.3	%81.719
31	MP3	Z	83.4	%18.75
32	MP3	Z	83.4	%81.25
33	MP4	Z	83.4	%18.75
34	MP4	Z	83.4	%81.25
35	MP5	Z	58.3	%18.281
36	MP5	Z	58.3	%81.719
37	MP6	Z	18.9	%47.833
38	MP6	Z	18.9	%52.167
39	MP7	Z	83.4	%18.75
40	MP7	Z	83.4	%81.25
41	MP8	Z	83.4	%18.75
42	MP8	Z	83.4	%81.25
43	MP9	Z	83.4	%18.385
44	MP9	Z	83.4	%81.615
45	MP10	Z	152.8	%18.75
46	MP10	Z	152.8	%81.25
47	MP11	Z	30.7	%47.833
48	MP11	Z	30.7	%52.167
49	MP12	Z	152.8	%18.75
50	MP12	Z	152.8	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 178 : Antenna Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0

Member Point Loads (BLC 178 : Antenna Wind Load (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	17.3	%47.833
28	MP1	Z	17.3	%52.167
29	MP2	Z	57.7	%18.281
30	MP2	Z	57.7	%81.719
31	MP3	Z	69.7	%18.75
32	MP3	Z	69.7	%81.25
33	MP4	Z	69.7	%18.75
34	MP4	Z	69.7	%81.25
35	MP5	Z	86.6	%18.281
36	MP5	Z	86.6	%81.719
37	MP6	Z	31	%47.833
38	MP6	Z	31	%52.167
39	MP7	Z	149.7	%18.75
40	MP7	Z	149.7	%81.25
41	MP8	Z	149.7	%18.75
42	MP8	Z	149.7	%81.25
43	MP9	Z	86.6	%18.385
44	MP9	Z	86.6	%81.615
45	MP10	Z	149.7	%18.75
46	MP10	Z	149.7	%81.25
47	MP11	Z	31	%47.833
48	MP11	Z	31	%52.167
49	MP12	Z	149.7	%18.75
50	MP12	Z	149.7	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 179 : Antenna Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-10.9	%47.833
2	MP1	X	-10.9	%52.167
3	MP2	X	-33.7	%18.281
4	MP2	X	-33.7	%81.719
5	MP3	X	-48.2	%18.75
6	MP3	X	-48.2	%81.25
7	MP4	X	-48.2	%18.75

Member Point Loads (BLC 179 : Antenna Wind Load (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
8	MP4	X	-48.2	%81.25
9	MP5	X	-48.1	%18.281
10	MP5	X	-48.1	%81.719
11	MP6	X	-17.8	%47.833
12	MP6	X	-17.8	%52.167
13	MP7	X	-88.2	%18.75
14	MP7	X	-88.2	%81.25
15	MP8	X	-88.2	%18.75
16	MP8	X	-88.2	%81.25
17	MP9	X	-33.7	%18.385
18	MP9	X	-33.7	%81.615
19	MP10	X	-48.2	%18.75
20	MP10	X	-48.2	%81.25
21	MP11	X	-10.9	%47.833
22	MP11	X	-10.9	%52.167
23	MP12	X	-48.2	%18.75
24	MP12	X	-48.2	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	18.9	%47.833
28	MP1	Z	18.9	%52.167
29	MP2	Z	58.3	%18.281
30	MP2	Z	58.3	%81.719
31	MP3	Z	83.4	%18.75
32	MP3	Z	83.4	%81.25
33	MP4	Z	83.4	%18.75
34	MP4	Z	83.4	%81.25
35	MP5	Z	83.4	%18.281
36	MP5	Z	83.4	%81.719
37	MP6	Z	30.7	%47.833
38	MP6	Z	30.7	%52.167
39	MP7	Z	152.8	%18.75
40	MP7	Z	152.8	%81.25
41	MP8	Z	152.8	%18.75
42	MP8	Z	152.8	%81.25
43	MP9	Z	58.3	%18.385
44	MP9	Z	58.3	%81.615
45	MP10	Z	83.4	%18.75
46	MP10	Z	83.4	%81.25
47	MP11	Z	18.9	%47.833
48	MP11	Z	18.9	%52.167
49	MP12	Z	83.4	%18.75
50	MP12	Z	83.4	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 180 : Antenna Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-26.8	%47.833
2	MP1	X	-26.8	%52.167
3	MP2	X	-75	%18.281
4	MP2	X	-75	%81.719
5	MP3	X	-129.7	%18.75
6	MP3	X	-129.7	%81.25
7	MP4	X	-129.7	%18.75
8	MP4	X	-129.7	%81.25

Member Point Loads (BLC 180 : Antenna Wind Load (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
9	MP5	X	-75	%18.281
10	MP5	X	-75	%81.719
11	MP6	X	-26.8	%47.833
12	MP6	X	-26.8	%52.167
13	MP7	X	-129.7	%18.75
14	MP7	X	-129.7	%81.25
15	MP8	X	-129.7	%18.75
16	MP8	X	-129.7	%81.25
17	MP9	X	-50	%18.385
18	MP9	X	-50	%81.615
19	MP10	X	-60.3	%18.75
20	MP10	X	-60.3	%81.25
21	MP11	X	-15	%47.833
22	MP11	X	-15	%52.167
23	MP12	X	-60.3	%18.75
24	MP12	X	-60.3	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	15.5	%47.833
28	MP1	Z	15.5	%52.167
29	MP2	Z	43.3	%18.281
30	MP2	Z	43.3	%81.719
31	MP3	Z	74.9	%18.75
32	MP3	Z	74.9	%81.25
33	MP4	Z	74.9	%18.75
34	MP4	Z	74.9	%81.25
35	MP5	Z	43.3	%18.281
36	MP5	Z	43.3	%81.719
37	MP6	Z	15.5	%47.833
38	MP6	Z	15.5	%52.167
39	MP7	Z	74.9	%18.75
40	MP7	Z	74.9	%81.25
41	MP8	Z	74.9	%18.75
42	MP8	Z	74.9	%81.25
43	MP9	Z	28.9	%18.385
44	MP9	Z	28.9	%81.615
45	MP10	Z	34.8	%18.75
46	MP10	Z	34.8	%81.25
47	MP11	Z	8.6	%47.833
48	MP11	Z	8.6	%52.167
49	MP12	Z	34.8	%18.75
50	MP12	Z	34.8	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 181 : Antenna Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP1	X	-35.5	%47.833
2	MP1	X	-35.5	%52.167
3	MP2	X	-96.3	%18.281
4	MP2	X	-96.3	%81.719
5	MP3	X	-176.4	%18.75
6	MP3	X	-176.4	%81.25
7	MP4	X	-176.4	%18.75
8	MP4	X	-176.4	%81.25
9	MP5	X	-67.4	%18.281

Member Point Loads (BLC 181 : Antenna Wind Load (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
10	MP5	X	-67.4	%81.719
11	MP6	X	-21.8	%47.833
12	MP6	X	-21.8	%52.167
13	MP7	X	-96.4	%18.75
14	MP7	X	-96.4	%81.25
15	MP8	X	-96.4	%18.75
16	MP8	X	-96.4	%81.25
17	MP9	X	-67.4	%18.385
18	MP9	X	-67.4	%81.615
19	MP10	X	-96.4	%18.75
20	MP10	X	-96.4	%81.25
21	MP11	X	-21.8	%47.833
22	MP11	X	-21.8	%52.167
23	MP12	X	-96.4	%18.75
24	MP12	X	-96.4	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	0	0
28	MP1	Z	0	0
29	MP2	Z	0	0
30	MP2	Z	0	0
31	MP3	Z	0	0
32	MP3	Z	0	0
33	MP4	Z	0	0
34	MP4	Z	0	0
35	MP5	Z	0	0
36	MP5	Z	0	0
37	MP6	Z	0	0
38	MP6	Z	0	0
39	MP7	Z	0	0
40	MP7	Z	0	0
41	MP8	Z	0	0
42	MP8	Z	0	0
43	MP9	Z	0	0
44	MP9	Z	0	0
45	MP10	Z	0	0
46	MP10	Z	0	0
47	MP11	Z	0	0
48	MP11	Z	0	0
49	MP12	Z	0	0
50	MP12	Z	0	0
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 182 : Antenna Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-26.8	%47.833
2	MP1	X	-26.8	%52.167
3	MP2	X	-75	%18.281
4	MP2	X	-75	%81.719
5	MP3	X	-129.7	%18.75
6	MP3	X	-129.7	%81.25
7	MP4	X	-129.7	%18.75
8	MP4	X	-129.7	%81.25
9	MP5	X	-50	%18.281
10	MP5	X	-50	%81.719

Member Point Loads (BLC 182 : Antenna Wind Load (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
11	MP6	X	-15	%47.833
12	MP6	X	-15	%52.167
13	MP7	X	-60.3	%18.75
14	MP7	X	-60.3	%81.25
15	MP8	X	-60.3	%18.75
16	MP8	X	-60.3	%81.25
17	MP9	X	-75	%18.385
18	MP9	X	-75	%81.615
19	MP10	X	-129.7	%18.75
20	MP10	X	-129.7	%81.25
21	MP11	X	-26.8	%47.833
22	MP11	X	-26.8	%52.167
23	MP12	X	-129.7	%18.75
24	MP12	X	-129.7	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-15.5	%47.833
28	MP1	Z	-15.5	%52.167
29	MP2	Z	-43.3	%18.281
30	MP2	Z	-43.3	%81.719
31	MP3	Z	-74.9	%18.75
32	MP3	Z	-74.9	%81.25
33	MP4	Z	-74.9	%18.75
34	MP4	Z	-74.9	%81.25
35	MP5	Z	-28.9	%18.281
36	MP5	Z	-28.9	%81.719
37	MP6	Z	-8.6	%47.833
38	MP6	Z	-8.6	%52.167
39	MP7	Z	-34.8	%18.75
40	MP7	Z	-34.8	%81.25
41	MP8	Z	-34.8	%18.75
42	MP8	Z	-34.8	%81.25
43	MP9	Z	-43.3	%18.385
44	MP9	Z	-43.3	%81.615
45	MP10	Z	-74.9	%18.75
46	MP10	Z	-74.9	%81.25
47	MP11	Z	-15.5	%47.833
48	MP11	Z	-15.5	%52.167
49	MP12	Z	-74.9	%18.75
50	MP12	Z	-74.9	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 183 : Antenna Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-10.9	%47.833
2	MP1	X	-10.9	%52.167
3	MP2	X	-33.7	%18.281
4	MP2	X	-33.7	%81.719
5	MP3	X	-48.2	%18.75
6	MP3	X	-48.2	%81.25
7	MP4	X	-48.2	%18.75
8	MP4	X	-48.2	%81.25
9	MP5	X	-33.7	%18.281
10	MP5	X	-33.7	%81.719
11	MP6	X	-10.9	%47.833

Member Point Loads (BLC 183 : Antenna Wind Load (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
12	MP6	X	-10.9	%52.167
13	MP7	X	-48.2	%18.75
14	MP7	X	-48.2	%81.25
15	MP8	X	-48.2	%18.75
16	MP8	X	-48.2	%81.25
17	MP9	X	-48.1	%18.385
18	MP9	X	-48.1	%81.615
19	MP10	X	-88.2	%18.75
20	MP10	X	-88.2	%81.25
21	MP11	X	-17.8	%47.833
22	MP11	X	-17.8	%52.167
23	MP12	X	-88.2	%18.75
24	MP12	X	-88.2	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-18.9	%47.833
28	MP1	Z	-18.9	%52.167
29	MP2	Z	-58.3	%18.281
30	MP2	Z	-58.3	%81.719
31	MP3	Z	-83.4	%18.75
32	MP3	Z	-83.4	%81.25
33	MP4	Z	-83.4	%18.75
34	MP4	Z	-83.4	%81.25
35	MP5	Z	-58.3	%18.281
36	MP5	Z	-58.3	%81.719
37	MP6	Z	-18.9	%47.833
38	MP6	Z	-18.9	%52.167
39	MP7	Z	-83.4	%18.75
40	MP7	Z	-83.4	%81.25
41	MP8	Z	-83.4	%18.75
42	MP8	Z	-83.4	%81.25
43	MP9	Z	-83.4	%18.385
44	MP9	Z	-83.4	%81.615
45	MP10	Z	-152.8	%18.75
46	MP10	Z	-152.8	%81.25
47	MP11	Z	-30.7	%47.833
48	MP11	Z	-30.7	%52.167
49	MP12	Z	-152.8	%18.75
50	MP12	Z	-152.8	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 184 : Antenna Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0

Member Point Loads (BLC 184 : Antenna Wind Load (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-17.3	%47.833
28	MP1	Z	-17.3	%52.167
29	MP2	Z	-57.7	%18.281
30	MP2	Z	-57.7	%81.719
31	MP3	Z	-69.7	%18.75
32	MP3	Z	-69.7	%81.25
33	MP4	Z	-69.7	%18.75
34	MP4	Z	-69.7	%81.25
35	MP5	Z	-86.6	%18.281
36	MP5	Z	-86.6	%81.719
37	MP6	Z	-31	%47.833
38	MP6	Z	-31	%52.167
39	MP7	Z	-149.7	%18.75
40	MP7	Z	-149.7	%81.25
41	MP8	Z	-149.7	%18.75
42	MP8	Z	-149.7	%81.25
43	MP9	Z	-86.6	%18.385
44	MP9	Z	-86.6	%81.615
45	MP10	Z	-149.7	%18.75
46	MP10	Z	-149.7	%81.25
47	MP11	Z	-31	%47.833
48	MP11	Z	-31	%52.167
49	MP12	Z	-149.7	%18.75
50	MP12	Z	-149.7	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 185 : Antenna Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	10.9	%47.833
2	MP1	X	10.9	%52.167
3	MP2	X	33.7	%18.281
4	MP2	X	33.7	%81.719
5	MP3	X	48.2	%18.75
6	MP3	X	48.2	%81.25
7	MP4	X	48.2	%18.75
8	MP4	X	48.2	%81.25
9	MP5	X	48.1	%18.281
10	MP5	X	48.1	%81.719
11	MP6	X	17.8	%47.833
12	MP6	X	17.8	%52.167
13	MP7	X	88.2	%18.75

Member Point Loads (BLC 185 : Antenna Wind Load (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
14	MP7	X	88.2	%81.25
15	MP8	X	88.2	%18.75
16	MP8	X	88.2	%81.25
17	MP9	X	33.7	%18.385
18	MP9	X	33.7	%81.615
19	MP10	X	48.2	%18.75
20	MP10	X	48.2	%81.25
21	MP11	X	10.9	%47.833
22	MP11	X	10.9	%52.167
23	MP12	X	48.2	%18.75
24	MP12	X	48.2	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-18.9	%47.833
28	MP1	Z	-18.9	%52.167
29	MP2	Z	-58.3	%18.281
30	MP2	Z	-58.3	%81.719
31	MP3	Z	-83.4	%18.75
32	MP3	Z	-83.4	%81.25
33	MP4	Z	-83.4	%18.75
34	MP4	Z	-83.4	%81.25
35	MP5	Z	-83.4	%18.281
36	MP5	Z	-83.4	%81.719
37	MP6	Z	-30.7	%47.833
38	MP6	Z	-30.7	%52.167
39	MP7	Z	-152.8	%18.75
40	MP7	Z	-152.8	%81.25
41	MP8	Z	-152.8	%18.75
42	MP8	Z	-152.8	%81.25
43	MP9	Z	-58.3	%18.385
44	MP9	Z	-58.3	%81.615
45	MP10	Z	-83.4	%18.75
46	MP10	Z	-83.4	%81.25
47	MP11	Z	-18.9	%47.833
48	MP11	Z	-18.9	%52.167
49	MP12	Z	-83.4	%18.75
50	MP12	Z	-83.4	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 186 : Antenna Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	26.8	%47.833
2	MP1	X	26.8	%52.167
3	MP2	X	75	%18.281
4	MP2	X	75	%81.719
5	MP3	X	129.7	%18.75
6	MP3	X	129.7	%81.25
7	MP4	X	129.7	%18.75
8	MP4	X	129.7	%81.25
9	MP5	X	75	%18.281
10	MP5	X	75	%81.719
11	MP6	X	26.8	%47.833
12	MP6	X	26.8	%52.167
13	MP7	X	129.7	%18.75
14	MP7	X	129.7	%81.25

Member Point Loads (BLC 186 : Antenna Wind Load (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
15	MP8	X	129.7	%18.75
16	MP8	X	129.7	%81.25
17	MP9	X	50	%18.385
18	MP9	X	50	%81.615
19	MP10	X	60.3	%18.75
20	MP10	X	60.3	%81.25
21	MP11	X	15	%47.833
22	MP11	X	15	%52.167
23	MP12	X	60.3	%18.75
24	MP12	X	60.3	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-15.5	%47.833
28	MP1	Z	-15.5	%52.167
29	MP2	Z	-43.3	%18.281
30	MP2	Z	-43.3	%81.719
31	MP3	Z	-74.9	%18.75
32	MP3	Z	-74.9	%81.25
33	MP4	Z	-74.9	%18.75
34	MP4	Z	-74.9	%81.25
35	MP5	Z	-43.3	%18.281
36	MP5	Z	-43.3	%81.719
37	MP6	Z	-15.5	%47.833
38	MP6	Z	-15.5	%52.167
39	MP7	Z	-74.9	%18.75
40	MP7	Z	-74.9	%81.25
41	MP8	Z	-74.9	%18.75
42	MP8	Z	-74.9	%81.25
43	MP9	Z	-28.9	%18.385
44	MP9	Z	-28.9	%81.615
45	MP10	Z	-34.8	%18.75
46	MP10	Z	-34.8	%81.25
47	MP11	Z	-8.6	%47.833
48	MP11	Z	-8.6	%52.167
49	MP12	Z	-34.8	%18.75
50	MP12	Z	-34.8	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 187 : Antenna Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	7.4	%47.833
2	MP1	X	7.4	%52.167
3	MP2	X	22.7	%18.281
4	MP2	X	22.7	%81.719
5	MP3	X	37.1	%18.75
6	MP3	X	37.1	%81.25
7	MP4	X	37.1	%18.75
8	MP4	X	37.1	%81.25
9	MP5	X	17.8	%18.281
10	MP5	X	17.8	%81.719
11	MP6	X	5.5	%47.833
12	MP6	X	5.5	%52.167
13	MP7	X	23.5	%18.75
14	MP7	X	23.5	%81.25
15	MP8	X	23.5	%18.75

Member Point Loads (BLC 187 : Antenna Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
16	MP8	X	23.5	%81.25
17	MP9	X	22.7	%18.385
18	MP9	X	22.7	%81.615
19	MP10	X	23.5	%18.75
20	MP10	X	23.5	%81.25
21	MP11	X	5.5	%47.833
22	MP11	X	5.5	%52.167
23	MP12	X	23.5	%18.75
24	MP12	X	23.5	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	0	0
28	MP1	Z	0	0
29	MP2	Z	0	0
30	MP2	Z	0	0
31	MP3	Z	0	0
32	MP3	Z	0	0
33	MP4	Z	0	0
34	MP4	Z	0	0
35	MP5	Z	0	0
36	MP5	Z	0	0
37	MP6	Z	0	0
38	MP6	Z	0	0
39	MP7	Z	0	0
40	MP7	Z	0	0
41	MP8	Z	0	0
42	MP8	Z	0	0
43	MP9	Z	0	0
44	MP9	Z	0	0
45	MP10	Z	0	0
46	MP10	Z	0	0
47	MP11	Z	0	0
48	MP11	Z	0	0
49	MP12	Z	0	0
50	MP12	Z	0	0
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 188 : Antenna Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	5.9	%47.833
2	MP1	X	5.9	%52.167
3	MP2	X	19.7	%18.281
4	MP2	X	19.7	%81.719
5	MP3	X	28.2	%18.75
6	MP3	X	28.2	%81.25
7	MP4	X	28.2	%18.75
8	MP4	X	28.2	%81.25
9	MP5	X	14	%18.281
10	MP5	X	14	%81.719
11	MP6	X	4.2	%47.833
12	MP6	X	4.2	%52.167
13	MP7	X	16.4	%18.75
14	MP7	X	16.4	%81.25
15	MP8	X	16.4	%18.75
16	MP8	X	16.4	%81.25

Member Point Loads (BLC 188 : Antenna Wind on Ice (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
17	MP9	X	19.7	%18.385
18	MP9	X	19.7	%81.615
19	MP10	X	28.2	%18.75
20	MP10	X	28.2	%81.25
21	MP11	X	5.9	%47.833
22	MP11	X	5.9	%52.167
23	MP12	X	28.2	%18.75
24	MP12	X	28.2	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	3.4	%47.833
28	MP1	Z	3.4	%52.167
29	MP2	Z	11.4	%18.281
30	MP2	Z	11.4	%81.719
31	MP3	Z	16.3	%18.75
32	MP3	Z	16.3	%81.25
33	MP4	Z	16.3	%18.75
34	MP4	Z	16.3	%81.25
35	MP5	Z	8.1	%18.281
36	MP5	Z	8.1	%81.719
37	MP6	Z	2.5	%47.833
38	MP6	Z	2.5	%52.167
39	MP7	Z	9.5	%18.75
40	MP7	Z	9.5	%81.25
41	MP8	Z	9.5	%18.75
42	MP8	Z	9.5	%81.25
43	MP9	Z	11.4	%18.385
44	MP9	Z	11.4	%81.615
45	MP10	Z	16.3	%18.75
46	MP10	Z	16.3	%81.25
47	MP11	Z	3.4	%47.833
48	MP11	Z	3.4	%52.167
49	MP12	Z	16.3	%18.75
50	MP12	Z	16.3	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 189 : Antenna Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	2.8	%47.833
2	MP1	X	2.8	%52.167
3	MP2	X	11.4	%18.281
4	MP2	X	11.4	%81.719
5	MP3	X	11.8	%18.75
6	MP3	X	11.8	%81.25
7	MP4	X	11.8	%18.75
8	MP4	X	11.8	%81.25
9	MP5	X	8.9	%18.281
10	MP5	X	8.9	%81.719
11	MP6	X	2.8	%47.833
12	MP6	X	2.8	%52.167
13	MP7	X	11.8	%18.75
14	MP7	X	11.8	%81.25
15	MP8	X	11.8	%18.75
16	MP8	X	11.8	%81.25
17	MP9	X	11.4	%18.385

Member Point Loads (BLC 189 : Antenna Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
18	MP9	X	11.4	%81.615
19	MP10	X	18.6	%18.75
20	MP10	X	18.6	%81.25
21	MP11	X	3.7	%47.833
22	MP11	X	3.7	%52.167
23	MP12	X	18.6	%18.75
24	MP12	X	18.6	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	4.8	%47.833
28	MP1	Z	4.8	%52.167
29	MP2	Z	19.7	%18.281
30	MP2	Z	19.7	%81.719
31	MP3	Z	20.4	%18.75
32	MP3	Z	20.4	%81.25
33	MP4	Z	20.4	%18.75
34	MP4	Z	20.4	%81.25
35	MP5	Z	15.4	%18.281
36	MP5	Z	15.4	%81.719
37	MP6	Z	4.8	%47.833
38	MP6	Z	4.8	%52.167
39	MP7	Z	20.4	%18.75
40	MP7	Z	20.4	%81.25
41	MP8	Z	20.4	%18.75
42	MP8	Z	20.4	%81.25
43	MP9	Z	19.7	%18.385
44	MP9	Z	19.7	%81.615
45	MP10	Z	32.2	%18.75
46	MP10	Z	32.2	%81.25
47	MP11	Z	6.4	%47.833
48	MP11	Z	6.4	%52.167
49	MP12	Z	32.2	%18.75
50	MP12	Z	32.2	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 190 : Antenna Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0

Member Point Loads (BLC 190 : Antenna Wind on Ice (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	4.9	%47.833
28	MP1	Z	4.9	%52.167
29	MP2	Z	22.7	%18.281
30	MP2	Z	22.7	%81.719
31	MP3	Z	19	%18.75
32	MP3	Z	19	%81.25
33	MP4	Z	19	%18.75
34	MP4	Z	19	%81.25
35	MP5	Z	21.1	%18.281
36	MP5	Z	21.1	%81.719
37	MP6	Z	6.8	%47.833
38	MP6	Z	6.8	%52.167
39	MP7	Z	32.6	%18.75
40	MP7	Z	32.6	%81.25
41	MP8	Z	32.6	%18.75
42	MP8	Z	32.6	%81.25
43	MP9	Z	22.7	%18.385
44	MP9	Z	22.7	%81.615
45	MP10	Z	32.6	%18.75
46	MP10	Z	32.6	%81.25
47	MP11	Z	6.8	%47.833
48	MP11	Z	6.8	%52.167
49	MP12	Z	32.6	%18.75
50	MP12	Z	32.6	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 191 : Antenna Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-2.8	%47.833
2	MP1	X	-2.8	%52.167
3	MP2	X	-11.4	%18.281
4	MP2	X	-11.4	%81.719
5	MP3	X	-11.8	%18.75
6	MP3	X	-11.8	%81.25
7	MP4	X	-11.8	%18.75
8	MP4	X	-11.8	%81.25
9	MP5	X	-11.4	%18.281
10	MP5	X	-11.4	%81.719
11	MP6	X	-3.7	%47.833
12	MP6	X	-3.7	%52.167
13	MP7	X	-18.6	%18.75
14	MP7	X	-18.6	%81.25
15	MP8	X	-18.6	%18.75
16	MP8	X	-18.6	%81.25
17	MP9	X	-11.4	%18.385
18	MP9	X	-11.4	%81.615
19	MP10	X	-11.8	%18.75

Member Point Loads (BLC 191 : Antenna Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
20	MP10	X	-11.8	%81.25
21	MP11	X	-2.8	%47.833
22	MP11	X	-2.8	%52.167
23	MP12	X	-11.8	%18.75
24	MP12	X	-11.8	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	4.8	%47.833
28	MP1	Z	4.8	%52.167
29	MP2	Z	19.7	%18.281
30	MP2	Z	19.7	%81.719
31	MP3	Z	20.4	%18.75
32	MP3	Z	20.4	%81.25
33	MP4	Z	20.4	%18.75
34	MP4	Z	20.4	%81.25
35	MP5	Z	19.7	%18.281
36	MP5	Z	19.7	%81.719
37	MP6	Z	6.4	%47.833
38	MP6	Z	6.4	%52.167
39	MP7	Z	32.2	%18.75
40	MP7	Z	32.2	%81.25
41	MP8	Z	32.2	%18.75
42	MP8	Z	32.2	%81.25
43	MP9	Z	19.7	%18.385
44	MP9	Z	19.7	%81.615
45	MP10	Z	20.4	%18.75
46	MP10	Z	20.4	%81.25
47	MP11	Z	4.8	%47.833
48	MP11	Z	4.8	%52.167
49	MP12	Z	20.4	%18.75
50	MP12	Z	20.4	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 192 : Antenna Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-5.9	%47.833
2	MP1	X	-5.9	%52.167
3	MP2	X	-19.7	%18.281
4	MP2	X	-19.7	%81.719
5	MP3	X	-28.2	%18.75
6	MP3	X	-28.2	%81.25
7	MP4	X	-28.2	%18.75
8	MP4	X	-28.2	%81.25
9	MP5	X	-18.3	%18.281
10	MP5	X	-18.3	%81.719
11	MP6	X	-5.9	%47.833
12	MP6	X	-5.9	%52.167
13	MP7	X	-28.2	%18.75
14	MP7	X	-28.2	%81.25
15	MP8	X	-28.2	%18.75
16	MP8	X	-28.2	%81.25
17	MP9	X	-19.7	%18.385
18	MP9	X	-19.7	%81.615
19	MP10	X	-16.4	%18.75
20	MP10	X	-16.4	%81.25

Member Point Loads (BLC 192 : Antenna Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
21	MP11	X	-4.2	%47.833
22	MP11	X	-4.2	%52.167
23	MP12	X	-16.4	%18.75
24	MP12	X	-16.4	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	3.4	%47.833
28	MP1	Z	3.4	%52.167
29	MP2	Z	11.4	%18.281
30	MP2	Z	11.4	%81.719
31	MP3	Z	16.3	%18.75
32	MP3	Z	16.3	%81.25
33	MP4	Z	16.3	%18.75
34	MP4	Z	16.3	%81.25
35	MP5	Z	10.5	%18.281
36	MP5	Z	10.5	%81.719
37	MP6	Z	3.4	%47.833
38	MP6	Z	3.4	%52.167
39	MP7	Z	16.3	%18.75
40	MP7	Z	16.3	%81.25
41	MP8	Z	16.3	%18.75
42	MP8	Z	16.3	%81.25
43	MP9	Z	11.4	%18.385
44	MP9	Z	11.4	%81.615
45	MP10	Z	9.5	%18.75
46	MP10	Z	9.5	%81.25
47	MP11	Z	2.5	%47.833
48	MP11	Z	2.5	%52.167
49	MP12	Z	9.5	%18.75
50	MP12	Z	9.5	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 193 : Antenna Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-7.4	%47.833
2	MP1	X	-7.4	%52.167
3	MP2	X	-22.7	%18.281
4	MP2	X	-22.7	%81.719
5	MP3	X	-37.1	%18.75
6	MP3	X	-37.1	%81.25
7	MP4	X	-37.1	%18.75
8	MP4	X	-37.1	%81.25
9	MP5	X	-17.8	%18.281
10	MP5	X	-17.8	%81.719
11	MP6	X	-5.5	%47.833
12	MP6	X	-5.5	%52.167
13	MP7	X	-23.5	%18.75
14	MP7	X	-23.5	%81.25
15	MP8	X	-23.5	%18.75
16	MP8	X	-23.5	%81.25
17	MP9	X	-22.7	%18.385
18	MP9	X	-22.7	%81.615
19	MP10	X	-23.5	%18.75
20	MP10	X	-23.5	%81.25
21	MP11	X	-5.5	%47.833

Member Point Loads (BLC 193 : Antenna Wind on Ice (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
22	MP11	X	-5.5	%52.167
23	MP12	X	-23.5	%18.75
24	MP12	X	-23.5	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	0	0
28	MP1	Z	0	0
29	MP2	Z	0	0
30	MP2	Z	0	0
31	MP3	Z	0	0
32	MP3	Z	0	0
33	MP4	Z	0	0
34	MP4	Z	0	0
35	MP5	Z	0	0
36	MP5	Z	0	0
37	MP6	Z	0	0
38	MP6	Z	0	0
39	MP7	Z	0	0
40	MP7	Z	0	0
41	MP8	Z	0	0
42	MP8	Z	0	0
43	MP9	Z	0	0
44	MP9	Z	0	0
45	MP10	Z	0	0
46	MP10	Z	0	0
47	MP11	Z	0	0
48	MP11	Z	0	0
49	MP12	Z	0	0
50	MP12	Z	0	0
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 194 : Antenna Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-5.9	%47.833
2	MP1	X	-5.9	%52.167
3	MP2	X	-19.7	%18.281
4	MP2	X	-19.7	%81.719
5	MP3	X	-28.2	%18.75
6	MP3	X	-28.2	%81.25
7	MP4	X	-28.2	%18.75
8	MP4	X	-28.2	%81.25
9	MP5	X	-14	%18.281
10	MP5	X	-14	%81.719
11	MP6	X	-4.2	%47.833
12	MP6	X	-4.2	%52.167
13	MP7	X	-16.4	%18.75
14	MP7	X	-16.4	%81.25
15	MP8	X	-16.4	%18.75
16	MP8	X	-16.4	%81.25
17	MP9	X	-19.7	%18.385
18	MP9	X	-19.7	%81.615
19	MP10	X	-28.2	%18.75
20	MP10	X	-28.2	%81.25
21	MP11	X	-5.9	%47.833
22	MP11	X	-5.9	%52.167

Member Point Loads (BLC 194 : Antenna Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
23	MP12	X	-28.2	%18.75
24	MP12	X	-28.2	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-3.4	%47.833
28	MP1	Z	-3.4	%52.167
29	MP2	Z	-11.4	%18.281
30	MP2	Z	-11.4	%81.719
31	MP3	Z	-16.3	%18.75
32	MP3	Z	-16.3	%81.25
33	MP4	Z	-16.3	%18.75
34	MP4	Z	-16.3	%81.25
35	MP5	Z	-8.1	%18.281
36	MP5	Z	-8.1	%81.719
37	MP6	Z	-2.5	%47.833
38	MP6	Z	-2.5	%52.167
39	MP7	Z	-9.5	%18.75
40	MP7	Z	-9.5	%81.25
41	MP8	Z	-9.5	%18.75
42	MP8	Z	-9.5	%81.25
43	MP9	Z	-11.4	%18.385
44	MP9	Z	-11.4	%81.615
45	MP10	Z	-16.3	%18.75
46	MP10	Z	-16.3	%81.25
47	MP11	Z	-3.4	%47.833
48	MP11	Z	-3.4	%52.167
49	MP12	Z	-16.3	%18.75
50	MP12	Z	-16.3	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 195 : Antenna Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	-2.8	%47.833
2	MP1	X	-2.8	%52.167
3	MP2	X	-11.4	%18.281
4	MP2	X	-11.4	%81.719
5	MP3	X	-11.8	%18.75
6	MP3	X	-11.8	%81.25
7	MP4	X	-11.8	%18.75
8	MP4	X	-11.8	%81.25
9	MP5	X	-8.9	%18.281
10	MP5	X	-8.9	%81.719
11	MP6	X	-2.8	%47.833
12	MP6	X	-2.8	%52.167
13	MP7	X	-11.8	%18.75
14	MP7	X	-11.8	%81.25
15	MP8	X	-11.8	%18.75
16	MP8	X	-11.8	%81.25
17	MP9	X	-11.4	%18.385
18	MP9	X	-11.4	%81.615
19	MP10	X	-18.6	%18.75
20	MP10	X	-18.6	%81.25
21	MP11	X	-3.7	%47.833
22	MP11	X	-3.7	%52.167
23	MP12	X	-18.6	%18.75

Member Point Loads (BLC 195 : Antenna Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP12	X	-18.6	%81.25
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-4.8	%47.833
28	MP1	Z	-4.8	%52.167
29	MP2	Z	-19.7	%18.281
30	MP2	Z	-19.7	%81.719
31	MP3	Z	-20.4	%18.75
32	MP3	Z	-20.4	%81.25
33	MP4	Z	-20.4	%18.75
34	MP4	Z	-20.4	%81.25
35	MP5	Z	-15.4	%18.281
36	MP5	Z	-15.4	%81.719
37	MP6	Z	-4.8	%47.833
38	MP6	Z	-4.8	%52.167
39	MP7	Z	-20.4	%18.75
40	MP7	Z	-20.4	%81.25
41	MP8	Z	-20.4	%18.75
42	MP8	Z	-20.4	%81.25
43	MP9	Z	-19.7	%18.385
44	MP9	Z	-19.7	%81.615
45	MP10	Z	-32.2	%18.75
46	MP10	Z	-32.2	%81.25
47	MP11	Z	-6.4	%47.833
48	MP11	Z	-6.4	%52.167
49	MP12	Z	-32.2	%18.75
50	MP12	Z	-32.2	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 196 : Antenna Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0

Member Point Loads (BLC 196 : Antenna Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
25	MP13	X	0	0
26	MP13	X	0	0
27	MP1	Z	-4.9	%47.833
28	MP1	Z	-4.9	%52.167
29	MP2	Z	-22.7	%18.281
30	MP2	Z	-22.7	%81.719
31	MP3	Z	-19	%18.75
32	MP3	Z	-19	%81.25
33	MP4	Z	-19	%18.75
34	MP4	Z	-19	%81.25
35	MP5	Z	-21.1	%18.281
36	MP5	Z	-21.1	%81.719
37	MP6	Z	-6.8	%47.833
38	MP6	Z	-6.8	%52.167
39	MP7	Z	-32.6	%18.75
40	MP7	Z	-32.6	%81.25
41	MP8	Z	-32.6	%18.75
42	MP8	Z	-32.6	%81.25
43	MP9	Z	-22.7	%18.385
44	MP9	Z	-22.7	%81.615
45	MP10	Z	-32.6	%18.75
46	MP10	Z	-32.6	%81.25
47	MP11	Z	-6.8	%47.833
48	MP11	Z	-6.8	%52.167
49	MP12	Z	-32.6	%18.75
50	MP12	Z	-32.6	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 197 : Antenna Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP1	X	2.8	%47.833
2	MP1	X	2.8	%52.167
3	MP2	X	11.4	%18.281
4	MP2	X	11.4	%81.719
5	MP3	X	11.8	%18.75
6	MP3	X	11.8	%81.25
7	MP4	X	11.8	%18.75
8	MP4	X	11.8	%81.25
9	MP5	X	11.4	%18.281
10	MP5	X	11.4	%81.719
11	MP6	X	3.7	%47.833
12	MP6	X	3.7	%52.167
13	MP7	X	18.6	%18.75
14	MP7	X	18.6	%81.25
15	MP8	X	18.6	%18.75
16	MP8	X	18.6	%81.25
17	MP9	X	11.4	%18.385
18	MP9	X	11.4	%81.615
19	MP10	X	11.8	%18.75
20	MP10	X	11.8	%81.25
21	MP11	X	2.8	%47.833
22	MP11	X	2.8	%52.167
23	MP12	X	11.8	%18.75
24	MP12	X	11.8	%81.25
25	MP13	X	0	0

Member Point Loads (BLC 197 : Antenna Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
26	MP13	X	0	0
27	MP1	Z	-4.8	%47.833
28	MP1	Z	-4.8	%52.167
29	MP2	Z	-19.7	%18.281
30	MP2	Z	-19.7	%81.719
31	MP3	Z	-20.4	%18.75
32	MP3	Z	-20.4	%81.25
33	MP4	Z	-20.4	%18.75
34	MP4	Z	-20.4	%81.25
35	MP5	Z	-19.7	%18.281
36	MP5	Z	-19.7	%81.719
37	MP6	Z	-6.4	%47.833
38	MP6	Z	-6.4	%52.167
39	MP7	Z	-32.2	%18.75
40	MP7	Z	-32.2	%81.25
41	MP8	Z	-32.2	%18.75
42	MP8	Z	-32.2	%81.25
43	MP9	Z	-19.7	%18.385
44	MP9	Z	-19.7	%81.615
45	MP10	Z	-20.4	%18.75
46	MP10	Z	-20.4	%81.25
47	MP11	Z	-4.8	%47.833
48	MP11	Z	-4.8	%52.167
49	MP12	Z	-20.4	%18.75
50	MP12	Z	-20.4	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Point Loads (BLC 198 : Antenna Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	5.9	%47.833
2	MP1	X	5.9	%52.167
3	MP2	X	19.7	%18.281
4	MP2	X	19.7	%81.719
5	MP3	X	28.2	%18.75
6	MP3	X	28.2	%81.25
7	MP4	X	28.2	%18.75
8	MP4	X	28.2	%81.25
9	MP5	X	18.3	%18.281
10	MP5	X	18.3	%81.719
11	MP6	X	5.9	%47.833
12	MP6	X	5.9	%52.167
13	MP7	X	28.2	%18.75
14	MP7	X	28.2	%81.25
15	MP8	X	28.2	%18.75
16	MP8	X	28.2	%81.25
17	MP9	X	19.7	%18.385
18	MP9	X	19.7	%81.615
19	MP10	X	16.4	%18.75
20	MP10	X	16.4	%81.25
21	MP11	X	4.2	%47.833
22	MP11	X	4.2	%52.167
23	MP12	X	16.4	%18.75
24	MP12	X	16.4	%81.25
25	MP13	X	0	0
26	MP13	X	0	0

Member Point Loads (BLC 198 : Antenna Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
27	MP1	Z	-3.4	%47.833
28	MP1	Z	-3.4	%52.167
29	MP2	Z	-11.4	%18.281
30	MP2	Z	-11.4	%81.719
31	MP3	Z	-16.3	%18.75
32	MP3	Z	-16.3	%81.25
33	MP4	Z	-16.3	%18.75
34	MP4	Z	-16.3	%81.25
35	MP5	Z	-10.5	%18.281
36	MP5	Z	-10.5	%81.719
37	MP6	Z	-3.4	%47.833
38	MP6	Z	-3.4	%52.167
39	MP7	Z	-16.3	%18.75
40	MP7	Z	-16.3	%81.25
41	MP8	Z	-16.3	%18.75
42	MP8	Z	-16.3	%81.25
43	MP9	Z	-11.4	%18.385
44	MP9	Z	-11.4	%81.615
45	MP10	Z	-9.5	%18.75
46	MP10	Z	-9.5	%81.25
47	MP11	Z	-2.5	%47.833
48	MP11	Z	-2.5	%52.167
49	MP12	Z	-9.5	%18.75
50	MP12	Z	-9.5	%81.25
51	MP13	Z	0	0
52	MP13	Z	0	0

Member Distributed Loads (BLC 2 : Wind Load (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	21.4	21.4	0	0
2	BRACE-2	X	21.4	21.4	0	0
3	BRACE-3	X	21.4	21.4	0	0
4	CONN-PL-0-2	X	27.8	27.8	0	0
5	CONN-PL-0-1	X	27.8	27.8	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	27.8	27.8	0	0
8	CONN-PL-120-1	X	27.8	27.8	0	0
9	CONN-PL-120-2	X	27.8	27.8	0	0
10	CONN-PL-0-3	X	27.8	27.8	0	0
11	CONN-PL-0-4	X	27.8	27.8	0	0
12	CONN-PL-240-3	X	27.8	27.8	0	0
13	CONN-PL-240-4	X	27.8	27.8	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	27.8	27.8	0	0
16	CORNER-PL-1	X	27.8	27.8	0	0
17	CORNER-PL-2	X	27.8	27.8	0	0
18	CORNER-PL-3	X	27.8	27.8	0	0
19	FM-BOT-0	X	14.9	14.9	0	0
20	FM-BOT-120	X	14.9	14.9	0	0
21	FM-BOT-240	X	14.9	14.9	0	0
22	SA-1	X	16.6	16.6	0	0
23	SA-2	X	16.6	16.6	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	15.4	15.4	0	0
26	GRAT6	X	15.4	15.4	0	0

Member Distributed Loads (BLC 2 : Wind Load (0 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
27	GRAT2	X	15.4	15.4	0	0
28	GRAT3	X	15.4	15.4	0	0
29	GRAT5	X	15.4	15.4	0	0
30	GRAT4	X	15.4	15.4	0	0
31	SFS1	X	18	18	0	0
32	SFS2	X	18	18	0	0
33	SFS3	X	18	18	0	0
34	SFS4	X	18	18	0	0
35	SFS5	X	18	18	0	0
36	SFS6	X	18	18	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	0	0	0	0
43	CONN-PL-240-1	Z	0	0	0	0
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	0	0	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	0	0	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	0	0	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	0	0	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	0	0	0	0
68	SFS2	Z	0	0	0	0
69	SFS3	Z	0	0	0	0
70	SFS4	Z	0	0	0	0
71	SFS5	Z	0	0	0	0
72	SFS6	Z	0	0	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	18.5	18.5	0	0
3	BRACE-3	X	18.5	18.5	0	0
4	CONN-PL-0-2	X	24.1	24.1	0	0
5	CONN-PL-0-1	X	24.1	24.1	0	0
6	CONN-PL-240-2	X	24.1	24.1	0	0
7	CONN-PL-240-1	X	24.1	24.1	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
8	CONN-PL-120-1	X	24.1	24.1	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	24.1	24.1	0	0
11	CONN-PL-0-4	X	24.1	24.1	0	0
12	CONN-PL-240-3	X	24.1	24.1	0	0
13	CONN-PL-240-4	X	24.1	24.1	0	0
14	CONN-PL-120-3	X	24.1	24.1	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	24.1	24.1	0	0
18	CORNER-PL-3	X	24.1	24.1	0	0
19	FM-BOT-0	X	12.9	12.9	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	12.9	12.9	0	0
22	SA-1	X	14.4	14.4	0	0
23	SA-2	X	14.4	14.4	0	0
24	SA-3	X	14.4	14.4	0	0
25	GRAT1	X	13.4	13.4	0	0
26	GRAT6	X	13.4	13.4	0	0
27	GRAT2	X	13.4	13.4	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	13.4	13.4	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	15.6	15.6	0	0
32	SFS2	X	15.6	15.6	0	0
33	SFS3	X	15.6	15.6	0	0
34	SFS4	X	15.6	15.6	0	0
35	SFS5	X	15.6	15.6	0	0
36	SFS6	X	15.6	15.6	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	10.7	10.7	0	0
39	BRACE-3	Z	10.7	10.7	0	0
40	CONN-PL-0-2	Z	13.9	13.9	0	0
41	CONN-PL-0-1	Z	13.9	13.9	0	0
42	CONN-PL-240-2	Z	13.9	13.9	0	0
43	CONN-PL-240-1	Z	13.9	13.9	0	0
44	CONN-PL-120-1	Z	13.9	13.9	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	13.9	13.9	0	0
47	CONN-PL-0-4	Z	13.9	13.9	0	0
48	CONN-PL-240-3	Z	13.9	13.9	0	0
49	CONN-PL-240-4	Z	13.9	13.9	0	0
50	CONN-PL-120-3	Z	13.9	13.9	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	13.9	13.9	0	0
54	CORNER-PL-3	Z	13.9	13.9	0	0
55	FM-BOT-0	Z	7.4	7.4	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	7.4	7.4	0	0
58	SA-1	Z	8.3	8.3	0	0
59	SA-2	Z	8.3	8.3	0	0
60	SA-3	Z	8.3	8.3	0	0
61	GRAT1	Z	7.7	7.7	0	0
62	GRAT6	Z	7.7	7.7	0	0
63	GRAT2	Z	7.7	7.7	0	0
64	GRAT3	Z	0	0	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
65	GRAT5	Z	7.7	7.7	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	9	9	0	0
68	SFS2	Z	9	9	0	0
69	SFS3	Z	9	9	0	0
70	SFS4	Z	9	9	0	0
71	SFS5	Z	9	9	0	0
72	SFS6	Z	9	9	0	0

Member Distributed Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	10.7	10.7	0	0
2	BRACE-2	X	10.7	10.7	0	0
3	BRACE-3	X	10.7	10.7	0	0
4	CONN-PL-0-2	X	13.9	13.9	0	0
5	CONN-PL-0-1	X	13.9	13.9	0	0
6	CONN-PL-240-2	X	13.9	13.9	0	0
7	CONN-PL-240-1	X	13.9	13.9	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	13.9	13.9	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	13.9	13.9	0	0
12	CONN-PL-240-3	X	13.9	13.9	0	0
13	CONN-PL-240-4	X	13.9	13.9	0	0
14	CONN-PL-120-3	X	13.9	13.9	0	0
15	CONN-PL-120-4	X	13.9	13.9	0	0
16	CORNER-PL-1	X	13.9	13.9	0	0
17	CORNER-PL-2	X	13.9	13.9	0	0
18	CORNER-PL-3	X	13.9	13.9	0	0
19	FM-BOT-0	X	7.4	7.4	0	0
20	FM-BOT-120	X	7.4	7.4	0	0
21	FM-BOT-240	X	7.4	7.4	0	0
22	SA-1	X	8.3	8.3	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	8.3	8.3	0	0
25	GRAT1	X	7.7	7.7	0	0
26	GRAT6	X	7.7	7.7	0	0
27	GRAT2	X	7.7	7.7	0	0
28	GRAT3	X	7.7	7.7	0	0
29	GRAT5	X	7.7	7.7	0	0
30	GRAT4	X	7.7	7.7	0	0
31	SFS1	X	9	9	0	0
32	SFS2	X	9	9	0	0
33	SFS3	X	9	9	0	0
34	SFS4	X	9	9	0	0
35	SFS5	X	9	9	0	0
36	SFS6	X	9	9	0	0
37	BRACE-1	Z	18.5	18.5	0	0
38	BRACE-2	Z	18.5	18.5	0	0
39	BRACE-3	Z	18.5	18.5	0	0
40	CONN-PL-0-2	Z	24.1	24.1	0	0
41	CONN-PL-0-1	Z	24.1	24.1	0	0
42	CONN-PL-240-2	Z	24.1	24.1	0	0
43	CONN-PL-240-1	Z	24.1	24.1	0	0
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	24.1	24.1	0	0

Member Distributed Loads (BLC 4 : Wind Load (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	24.1	24.1	0	0
48	CONN-PL-240-3	Z	24.1	24.1	0	0
49	CONN-PL-240-4	Z	24.1	24.1	0	0
50	CONN-PL-120-3	Z	24.1	24.1	0	0
51	CONN-PL-120-4	Z	24.1	24.1	0	0
52	CORNER-PL-1	Z	24.1	24.1	0	0
53	CORNER-PL-2	Z	24.1	24.1	0	0
54	CORNER-PL-3	Z	24.1	24.1	0	0
55	FM-BOT-0	Z	12.9	12.9	0	0
56	FM-BOT-120	Z	12.9	12.9	0	0
57	FM-BOT-240	Z	12.9	12.9	0	0
58	SA-1	Z	14.4	14.4	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	14.4	14.4	0	0
61	GRAT1	Z	13.4	13.4	0	0
62	GRAT6	Z	13.4	13.4	0	0
63	GRAT2	Z	13.4	13.4	0	0
64	GRAT3	Z	13.4	13.4	0	0
65	GRAT5	Z	13.4	13.4	0	0
66	GRAT4	Z	13.4	13.4	0	0
67	SFS1	Z	15.6	15.6	0	0
68	SFS2	Z	15.6	15.6	0	0
69	SFS3	Z	15.6	15.6	0	0
70	SFS4	Z	15.6	15.6	0	0
71	SFS5	Z	15.6	15.6	0	0
72	SFS6	Z	15.6	15.6	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	0	0	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	0	0	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	0	0	0	0
19	FM-BOT-0	X	0	0	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	0	0	0	0
26	GRAT6	X	0	0	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
27	GRAT2	X	0	0	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	0	0	0	0
32	SFS2	X	0	0	0	0
33	SFS3	X	0	0	0	0
34	SFS4	X	0	0	0	0
35	SFS5	X	0	0	0	0
36	SFS6	X	0	0	0	0
37	BRACE-1	Z	21.4	21.4	0	0
38	BRACE-2	Z	21.4	21.4	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	27.8	27.8	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	27.8	27.8	0	0
43	CONN-PL-240-1	Z	27.8	27.8	0	0
44	CONN-PL-120-1	Z	27.8	27.8	0	0
45	CONN-PL-120-2	Z	27.8	27.8	0	0
46	CONN-PL-0-3	Z	27.8	27.8	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	27.8	27.8	0	0
49	CONN-PL-240-4	Z	27.8	27.8	0	0
50	CONN-PL-120-3	Z	27.8	27.8	0	0
51	CONN-PL-120-4	Z	27.8	27.8	0	0
52	CORNER-PL-1	Z	27.8	27.8	0	0
53	CORNER-PL-2	Z	27.8	27.8	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	14.9	14.9	0	0
57	FM-BOT-240	Z	14.9	14.9	0	0
58	SA-1	Z	16.6	16.6	0	0
59	SA-2	Z	16.6	16.6	0	0
60	SA-3	Z	16.6	16.6	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	15.4	15.4	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	15.4	15.4	0	0
65	GRAT5	Z	15.4	15.4	0	0
66	GRAT4	Z	15.4	15.4	0	0
67	SFS1	Z	18	18	0	0
68	SFS2	Z	18	18	0	0
69	SFS3	Z	18	18	0	0
70	SFS4	Z	18	18	0	0
71	SFS5	Z	18	18	0	0
72	SFS6	Z	18	18	0	0

Member Distributed Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	-10.7	-10.7	0	0
2	BRACE-2	X	-10.7	-10.7	0	0
3	BRACE-3	X	-10.7	-10.7	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	-13.9	-13.9	0	0
6	CONN-PL-240-2	X	-13.9	-13.9	0	0
7	CONN-PL-240-1	X	-13.9	-13.9	0	0

Member Distributed Loads (BLC 6 : Wind Load (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
8	CONN-PL-120-1	X	-13.9	-13.9	0	0
9	CONN-PL-120-2	X	-13.9	-13.9	0	0
10	CONN-PL-0-3	X	-13.9	-13.9	0	0
11	CONN-PL-0-4	X	-13.9	-13.9	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	-13.9	-13.9	0	0
14	CONN-PL-120-3	X	-13.9	-13.9	0	0
15	CONN-PL-120-4	X	-13.9	-13.9	0	0
16	CORNER-PL-1	X	-13.9	-13.9	0	0
17	CORNER-PL-2	X	-13.9	-13.9	0	0
18	CORNER-PL-3	X	-13.9	-13.9	0	0
19	FM-BOT-0	X	-7.4	-7.4	0	0
20	FM-BOT-120	X	-7.4	-7.4	0	0
21	FM-BOT-240	X	-7.4	-7.4	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	-8.3	-8.3	0	0
24	SA-3	X	-8.3	-8.3	0	0
25	GRAT1	X	-7.7	-7.7	0	0
26	GRAT6	X	-7.7	-7.7	0	0
27	GRAT2	X	-7.7	-7.7	0	0
28	GRAT3	X	-7.7	-7.7	0	0
29	GRAT5	X	-7.7	-7.7	0	0
30	GRAT4	X	-7.7	-7.7	0	0
31	SFS1	X	-9	-9	0	0
32	SFS2	X	-9	-9	0	0
33	SFS3	X	-9	-9	0	0
34	SFS4	X	-9	-9	0	0
35	SFS5	X	-9	-9	0	0
36	SFS6	X	-9	-9	0	0
37	BRACE-1	Z	18.5	18.5	0	0
38	BRACE-2	Z	18.5	18.5	0	0
39	BRACE-3	Z	18.5	18.5	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	24.1	24.1	0	0
42	CONN-PL-240-2	Z	24.1	24.1	0	0
43	CONN-PL-240-1	Z	24.1	24.1	0	0
44	CONN-PL-120-1	Z	24.1	24.1	0	0
45	CONN-PL-120-2	Z	24.1	24.1	0	0
46	CONN-PL-0-3	Z	24.1	24.1	0	0
47	CONN-PL-0-4	Z	24.1	24.1	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	24.1	24.1	0	0
50	CONN-PL-120-3	Z	24.1	24.1	0	0
51	CONN-PL-120-4	Z	24.1	24.1	0	0
52	CORNER-PL-1	Z	24.1	24.1	0	0
53	CORNER-PL-2	Z	24.1	24.1	0	0
54	CORNER-PL-3	Z	24.1	24.1	0	0
55	FM-BOT-0	Z	12.9	12.9	0	0
56	FM-BOT-120	Z	12.9	12.9	0	0
57	FM-BOT-240	Z	12.9	12.9	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	14.4	14.4	0	0
60	SA-3	Z	14.4	14.4	0	0
61	GRAT1	Z	13.4	13.4	0	0
62	GRAT6	Z	13.4	13.4	0	0
63	GRAT2	Z	13.4	13.4	0	0
64	GRAT3	Z	13.4	13.4	0	0

Member Distributed Loads (BLC 6 : Wind Load (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
65	GRAT5	Z	13.4	13.4	0	0
66	GRAT4	Z	13.4	13.4	0	0
67	SFS1	Z	15.6	15.6	0	0
68	SFS2	Z	15.6	15.6	0	0
69	SFS3	Z	15.6	15.6	0	0
70	SFS4	Z	15.6	15.6	0	0
71	SFS5	Z	15.6	15.6	0	0
72	SFS6	Z	15.6	15.6	0	0

Member Distributed Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-18.5	-18.5	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	-18.5	-18.5	0	0
4	CONN-PL-0-2	X	-24.1	-24.1	0	0
5	CONN-PL-0-1	X	-24.1	-24.1	0	0
6	CONN-PL-240-2	X	-24.1	-24.1	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	-24.1	-24.1	0	0
9	CONN-PL-120-2	X	-24.1	-24.1	0	0
10	CONN-PL-0-3	X	-24.1	-24.1	0	0
11	CONN-PL-0-4	X	-24.1	-24.1	0	0
12	CONN-PL-240-3	X	-24.1	-24.1	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	-24.1	-24.1	0	0
15	CONN-PL-120-4	X	-24.1	-24.1	0	0
16	CORNER-PL-1	X	-24.1	-24.1	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	-24.1	-24.1	0	0
19	FM-BOT-0	X	-12.9	-12.9	0	0
20	FM-BOT-120	X	-12.9	-12.9	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	-14.4	-14.4	0	0
23	SA-2	X	-14.4	-14.4	0	0
24	SA-3	X	-14.4	-14.4	0	0
25	GRAT1	X	-13.4	-13.4	0	0
26	GRAT6	X	0	0	0	0
27	GRAT2	X	-13.4	-13.4	0	0
28	GRAT3	X	-13.4	-13.4	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	-13.4	-13.4	0	0
31	SFS1	X	-15.6	-15.6	0	0
32	SFS2	X	-15.6	-15.6	0	0
33	SFS3	X	-15.6	-15.6	0	0
34	SFS4	X	-15.6	-15.6	0	0
35	SFS5	X	-15.6	-15.6	0	0
36	SFS6	X	-15.6	-15.6	0	0
37	BRACE-1	Z	10.7	10.7	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	10.7	10.7	0	0
40	CONN-PL-0-2	Z	13.9	13.9	0	0
41	CONN-PL-0-1	Z	13.9	13.9	0	0
42	CONN-PL-240-2	Z	13.9	13.9	0	0
43	CONN-PL-240-1	Z	0	0	0	0
44	CONN-PL-120-1	Z	13.9	13.9	0	0
45	CONN-PL-120-2	Z	13.9	13.9	0	0

Member Distributed Loads (BLC 7 : Wind Load (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
46	CONN-PL-0-3	Z	13.9	13.9	0	0
47	CONN-PL-0-4	Z	13.9	13.9	0	0
48	CONN-PL-240-3	Z	13.9	13.9	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	13.9	13.9	0	0
51	CONN-PL-120-4	Z	13.9	13.9	0	0
52	CORNER-PL-1	Z	13.9	13.9	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	13.9	13.9	0	0
55	FM-BOT-0	Z	7.4	7.4	0	0
56	FM-BOT-120	Z	7.4	7.4	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	8.3	8.3	0	0
59	SA-2	Z	8.3	8.3	0	0
60	SA-3	Z	8.3	8.3	0	0
61	GRAT1	Z	7.7	7.7	0	0
62	GRAT6	Z	0	0	0	0
63	GRAT2	Z	7.7	7.7	0	0
64	GRAT3	Z	7.7	7.7	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	7.7	7.7	0	0
67	SFS1	Z	9	9	0	0
68	SFS2	Z	9	9	0	0
69	SFS3	Z	9	9	0	0
70	SFS4	Z	9	9	0	0
71	SFS5	Z	9	9	0	0
72	SFS6	Z	9	9	0	0

Member Distributed Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	-21.4	-21.4	0	0
2	BRACE-2	X	-21.4	-21.4	0	0
3	BRACE-3	X	-21.4	-21.4	0	0
4	CONN-PL-0-2	X	-27.8	-27.8	0	0
5	CONN-PL-0-1	X	-27.8	-27.8	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	-27.8	-27.8	0	0
8	CONN-PL-120-1	X	-27.8	-27.8	0	0
9	CONN-PL-120-2	X	-27.8	-27.8	0	0
10	CONN-PL-0-3	X	-27.8	-27.8	0	0
11	CONN-PL-0-4	X	-27.8	-27.8	0	0
12	CONN-PL-240-3	X	-27.8	-27.8	0	0
13	CONN-PL-240-4	X	-27.8	-27.8	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	-27.8	-27.8	0	0
16	CORNER-PL-1	X	-27.8	-27.8	0	0
17	CORNER-PL-2	X	-27.8	-27.8	0	0
18	CORNER-PL-3	X	-27.8	-27.8	0	0
19	FM-BOT-0	X	-14.9	-14.9	0	0
20	FM-BOT-120	X	-14.9	-14.9	0	0
21	FM-BOT-240	X	-14.9	-14.9	0	0
22	SA-1	X	-16.6	-16.6	0	0
23	SA-2	X	-16.6	-16.6	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	-15.4	-15.4	0	0
26	GRAT6	X	-15.4	-15.4	0	0

Member Distributed Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
27	GRAT2	X	-15.4	-15.4	0	0
28	GRAT3	X	-15.4	-15.4	0	0
29	GRAT5	X	-15.4	-15.4	0	0
30	GRAT4	X	-15.4	-15.4	0	0
31	SFS1	X	-18	-18	0	0
32	SFS2	X	-18	-18	0	0
33	SFS3	X	-18	-18	0	0
34	SFS4	X	-18	-18	0	0
35	SFS5	X	-18	-18	0	0
36	SFS6	X	-18	-18	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	0	0	0	0
43	CONN-PL-240-1	Z	0	0	0	0
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	0	0	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	0	0	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	0	0	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	0	0	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	0	0	0	0
68	SFS2	Z	0	0	0	0
69	SFS3	Z	0	0	0	0
70	SFS4	Z	0	0	0	0
71	SFS5	Z	0	0	0	0
72	SFS6	Z	0	0	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	-18.5	-18.5	0	0
3	BRACE-3	X	-18.5	-18.5	0	0
4	CONN-PL-0-2	X	-24.1	-24.1	0	0
5	CONN-PL-0-1	X	-24.1	-24.1	0	0
6	CONN-PL-240-2	X	-24.1	-24.1	0	0
7	CONN-PL-240-1	X	-24.1	-24.1	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
8	CONN-PL-120-1	X	-24.1	-24.1	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	-24.1	-24.1	0	0
11	CONN-PL-0-4	X	-24.1	-24.1	0	0
12	CONN-PL-240-3	X	-24.1	-24.1	0	0
13	CONN-PL-240-4	X	-24.1	-24.1	0	0
14	CONN-PL-120-3	X	-24.1	-24.1	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	-24.1	-24.1	0	0
18	CORNER-PL-3	X	-24.1	-24.1	0	0
19	FM-BOT-0	X	-12.9	-12.9	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	-12.9	-12.9	0	0
22	SA-1	X	-14.4	-14.4	0	0
23	SA-2	X	-14.4	-14.4	0	0
24	SA-3	X	-14.4	-14.4	0	0
25	GRAT1	X	-13.4	-13.4	0	0
26	GRAT6	X	-13.4	-13.4	0	0
27	GRAT2	X	-13.4	-13.4	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	-13.4	-13.4	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	-15.6	-15.6	0	0
32	SFS2	X	-15.6	-15.6	0	0
33	SFS3	X	-15.6	-15.6	0	0
34	SFS4	X	-15.6	-15.6	0	0
35	SFS5	X	-15.6	-15.6	0	0
36	SFS6	X	-15.6	-15.6	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	-10.7	-10.7	0	0
39	BRACE-3	Z	-10.7	-10.7	0	0
40	CONN-PL-0-2	Z	-13.9	-13.9	0	0
41	CONN-PL-0-1	Z	-13.9	-13.9	0	0
42	CONN-PL-240-2	Z	-13.9	-13.9	0	0
43	CONN-PL-240-1	Z	-13.9	-13.9	0	0
44	CONN-PL-120-1	Z	-13.9	-13.9	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	-13.9	-13.9	0	0
47	CONN-PL-0-4	Z	-13.9	-13.9	0	0
48	CONN-PL-240-3	Z	-13.9	-13.9	0	0
49	CONN-PL-240-4	Z	-13.9	-13.9	0	0
50	CONN-PL-120-3	Z	-13.9	-13.9	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	-13.9	-13.9	0	0
54	CORNER-PL-3	Z	-13.9	-13.9	0	0
55	FM-BOT-0	Z	-7.4	-7.4	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	-7.4	-7.4	0	0
58	SA-1	Z	-8.3	-8.3	0	0
59	SA-2	Z	-8.3	-8.3	0	0
60	SA-3	Z	-8.3	-8.3	0	0
61	GRAT1	Z	-7.7	-7.7	0	0
62	GRAT6	Z	-7.7	-7.7	0	0
63	GRAT2	Z	-7.7	-7.7	0	0
64	GRAT3	Z	0	0	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
65	GRAT5	Z	-7.7	-7.7	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	-9	-9	0	0
68	SFS2	Z	-9	-9	0	0
69	SFS3	Z	-9	-9	0	0
70	SFS4	Z	-9	-9	0	0
71	SFS5	Z	-9	-9	0	0
72	SFS6	Z	-9	-9	0	0

Member Distributed Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	BRACE-1	X	-10.7	-10.7	0	0
2	BRACE-2	X	-10.7	-10.7	0	0
3	BRACE-3	X	-10.7	-10.7	0	0
4	CONN-PL-0-2	X	-13.9	-13.9	0	0
5	CONN-PL-0-1	X	-13.9	-13.9	0	0
6	CONN-PL-240-2	X	-13.9	-13.9	0	0
7	CONN-PL-240-1	X	-13.9	-13.9	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	-13.9	-13.9	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	-13.9	-13.9	0	0
12	CONN-PL-240-3	X	-13.9	-13.9	0	0
13	CONN-PL-240-4	X	-13.9	-13.9	0	0
14	CONN-PL-120-3	X	-13.9	-13.9	0	0
15	CONN-PL-120-4	X	-13.9	-13.9	0	0
16	CORNER-PL-1	X	-13.9	-13.9	0	0
17	CORNER-PL-2	X	-13.9	-13.9	0	0
18	CORNER-PL-3	X	-13.9	-13.9	0	0
19	FM-BOT-0	X	-7.4	-7.4	0	0
20	FM-BOT-120	X	-7.4	-7.4	0	0
21	FM-BOT-240	X	-7.4	-7.4	0	0
22	SA-1	X	-8.3	-8.3	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	-8.3	-8.3	0	0
25	GRAT1	X	-7.7	-7.7	0	0
26	GRAT6	X	-7.7	-7.7	0	0
27	GRAT2	X	-7.7	-7.7	0	0
28	GRAT3	X	-7.7	-7.7	0	0
29	GRAT5	X	-7.7	-7.7	0	0
30	GRAT4	X	-7.7	-7.7	0	0
31	SFS1	X	-9	-9	0	0
32	SFS2	X	-9	-9	0	0
33	SFS3	X	-9	-9	0	0
34	SFS4	X	-9	-9	0	0
35	SFS5	X	-9	-9	0	0
36	SFS6	X	-9	-9	0	0
37	BRACE-1	Z	-18.5	-18.5	0	0
38	BRACE-2	Z	-18.5	-18.5	0	0
39	BRACE-3	Z	-18.5	-18.5	0	0
40	CONN-PL-0-2	Z	-24.1	-24.1	0	0
41	CONN-PL-0-1	Z	-24.1	-24.1	0	0
42	CONN-PL-240-2	Z	-24.1	-24.1	0	0
43	CONN-PL-240-1	Z	-24.1	-24.1	0	0
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	-24.1	-24.1	0	0

Member Distributed Loads (BLC 10 : Wind Load (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	-24.1	-24.1	0	0
48	CONN-PL-240-3	Z	-24.1	-24.1	0	0
49	CONN-PL-240-4	Z	-24.1	-24.1	0	0
50	CONN-PL-120-3	Z	-24.1	-24.1	0	0
51	CONN-PL-120-4	Z	-24.1	-24.1	0	0
52	CORNER-PL-1	Z	-24.1	-24.1	0	0
53	CORNER-PL-2	Z	-24.1	-24.1	0	0
54	CORNER-PL-3	Z	-24.1	-24.1	0	0
55	FM-BOT-0	Z	-12.9	-12.9	0	0
56	FM-BOT-120	Z	-12.9	-12.9	0	0
57	FM-BOT-240	Z	-12.9	-12.9	0	0
58	SA-1	Z	-14.4	-14.4	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	-14.4	-14.4	0	0
61	GRAT1	Z	-13.4	-13.4	0	0
62	GRAT6	Z	-13.4	-13.4	0	0
63	GRAT2	Z	-13.4	-13.4	0	0
64	GRAT3	Z	-13.4	-13.4	0	0
65	GRAT5	Z	-13.4	-13.4	0	0
66	GRAT4	Z	-13.4	-13.4	0	0
67	SFS1	Z	-15.6	-15.6	0	0
68	SFS2	Z	-15.6	-15.6	0	0
69	SFS3	Z	-15.6	-15.6	0	0
70	SFS4	Z	-15.6	-15.6	0	0
71	SFS5	Z	-15.6	-15.6	0	0
72	SFS6	Z	-15.6	-15.6	0	0

Member Distributed Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	0	0	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	0	0	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	0	0	0	0
19	FM-BOT-0	X	0	0	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	0	0	0	0
26	GRAT6	X	0	0	0	0

Member Distributed Loads (BLC 11 : Wind Load (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
27	GRAT2	X	0	0	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	0	0	0	0
32	SFS2	X	0	0	0	0
33	SFS3	X	0	0	0	0
34	SFS4	X	0	0	0	0
35	SFS5	X	0	0	0	0
36	SFS6	X	0	0	0	0
37	BRACE-1	Z	-21.4	-21.4	0	0
38	BRACE-2	Z	-21.4	-21.4	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	-27.8	-27.8	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	-27.8	-27.8	0	0
43	CONN-PL-240-1	Z	-27.8	-27.8	0	0
44	CONN-PL-120-1	Z	-27.8	-27.8	0	0
45	CONN-PL-120-2	Z	-27.8	-27.8	0	0
46	CONN-PL-0-3	Z	-27.8	-27.8	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	-27.8	-27.8	0	0
49	CONN-PL-240-4	Z	-27.8	-27.8	0	0
50	CONN-PL-120-3	Z	-27.8	-27.8	0	0
51	CONN-PL-120-4	Z	-27.8	-27.8	0	0
52	CORNER-PL-1	Z	-27.8	-27.8	0	0
53	CORNER-PL-2	Z	-27.8	-27.8	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	-14.9	-14.9	0	0
57	FM-BOT-240	Z	-14.9	-14.9	0	0
58	SA-1	Z	-16.6	-16.6	0	0
59	SA-2	Z	-16.6	-16.6	0	0
60	SA-3	Z	-16.6	-16.6	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	-15.4	-15.4	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	-15.4	-15.4	0	0
65	GRAT5	Z	-15.4	-15.4	0	0
66	GRAT4	Z	-15.4	-15.4	0	0
67	SFS1	Z	-18	-18	0	0
68	SFS2	Z	-18	-18	0	0
69	SFS3	Z	-18	-18	0	0
70	SFS4	Z	-18	-18	0	0
71	SFS5	Z	-18	-18	0	0
72	SFS6	Z	-18	-18	0	0

Member Distributed Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	10.7	10.7	0	0
2	BRACE-2	X	10.7	10.7	0	0
3	BRACE-3	X	10.7	10.7	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	13.9	13.9	0	0
6	CONN-PL-240-2	X	13.9	13.9	0	0
7	CONN-PL-240-1	X	13.9	13.9	0	0

Member Distributed Loads (BLC 12 : Wind Load (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
8	CONN-PL-120-1	X	13.9	13.9	0	0
9	CONN-PL-120-2	X	13.9	13.9	0	0
10	CONN-PL-0-3	X	13.9	13.9	0	0
11	CONN-PL-0-4	X	13.9	13.9	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	13.9	13.9	0	0
14	CONN-PL-120-3	X	13.9	13.9	0	0
15	CONN-PL-120-4	X	13.9	13.9	0	0
16	CORNER-PL-1	X	13.9	13.9	0	0
17	CORNER-PL-2	X	13.9	13.9	0	0
18	CORNER-PL-3	X	13.9	13.9	0	0
19	FM-BOT-0	X	7.4	7.4	0	0
20	FM-BOT-120	X	7.4	7.4	0	0
21	FM-BOT-240	X	7.4	7.4	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	8.3	8.3	0	0
24	SA-3	X	8.3	8.3	0	0
25	GRAT1	X	7.7	7.7	0	0
26	GRAT6	X	7.7	7.7	0	0
27	GRAT2	X	7.7	7.7	0	0
28	GRAT3	X	7.7	7.7	0	0
29	GRAT5	X	7.7	7.7	0	0
30	GRAT4	X	7.7	7.7	0	0
31	SFS1	X	9	9	0	0
32	SFS2	X	9	9	0	0
33	SFS3	X	9	9	0	0
34	SFS4	X	9	9	0	0
35	SFS5	X	9	9	0	0
36	SFS6	X	9	9	0	0
37	BRACE-1	Z	-18.5	-18.5	0	0
38	BRACE-2	Z	-18.5	-18.5	0	0
39	BRACE-3	Z	-18.5	-18.5	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	-24.1	-24.1	0	0
42	CONN-PL-240-2	Z	-24.1	-24.1	0	0
43	CONN-PL-240-1	Z	-24.1	-24.1	0	0
44	CONN-PL-120-1	Z	-24.1	-24.1	0	0
45	CONN-PL-120-2	Z	-24.1	-24.1	0	0
46	CONN-PL-0-3	Z	-24.1	-24.1	0	0
47	CONN-PL-0-4	Z	-24.1	-24.1	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	-24.1	-24.1	0	0
50	CONN-PL-120-3	Z	-24.1	-24.1	0	0
51	CONN-PL-120-4	Z	-24.1	-24.1	0	0
52	CORNER-PL-1	Z	-24.1	-24.1	0	0
53	CORNER-PL-2	Z	-24.1	-24.1	0	0
54	CORNER-PL-3	Z	-24.1	-24.1	0	0
55	FM-BOT-0	Z	-12.9	-12.9	0	0
56	FM-BOT-120	Z	-12.9	-12.9	0	0
57	FM-BOT-240	Z	-12.9	-12.9	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	-14.4	-14.4	0	0
60	SA-3	Z	-14.4	-14.4	0	0
61	GRAT1	Z	-13.4	-13.4	0	0
62	GRAT6	Z	-13.4	-13.4	0	0
63	GRAT2	Z	-13.4	-13.4	0	0
64	GRAT3	Z	-13.4	-13.4	0	0

Member Distributed Loads (BLC 12 : Wind Load (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in, %]	End Location[in, %]
65	GRAT5	Z	-13.4	-13.4	0	0
66	GRAT4	Z	-13.4	-13.4	0	0
67	SFS1	Z	-15.6	-15.6	0	0
68	SFS2	Z	-15.6	-15.6	0	0
69	SFS3	Z	-15.6	-15.6	0	0
70	SFS4	Z	-15.6	-15.6	0	0
71	SFS5	Z	-15.6	-15.6	0	0
72	SFS6	Z	-15.6	-15.6	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	18.5	18.5	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	18.5	18.5	0	0
4	CONN-PL-0-2	X	24.1	24.1	0	0
5	CONN-PL-0-1	X	24.1	24.1	0	0
6	CONN-PL-240-2	X	24.1	24.1	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	24.1	24.1	0	0
9	CONN-PL-120-2	X	24.1	24.1	0	0
10	CONN-PL-0-3	X	24.1	24.1	0	0
11	CONN-PL-0-4	X	24.1	24.1	0	0
12	CONN-PL-240-3	X	24.1	24.1	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	24.1	24.1	0	0
15	CONN-PL-120-4	X	24.1	24.1	0	0
16	CORNER-PL-1	X	24.1	24.1	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	24.1	24.1	0	0
19	FM-BOT-0	X	12.9	12.9	0	0
20	FM-BOT-120	X	12.9	12.9	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	14.4	14.4	0	0
23	SA-2	X	14.4	14.4	0	0
24	SA-3	X	14.4	14.4	0	0
25	GRAT1	X	13.4	13.4	0	0
26	GRAT6	X	0	0	0	0
27	GRAT2	X	13.4	13.4	0	0
28	GRAT3	X	13.4	13.4	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	13.4	13.4	0	0
31	SFS1	X	15.6	15.6	0	0
32	SFS2	X	15.6	15.6	0	0
33	SFS3	X	15.6	15.6	0	0
34	SFS4	X	15.6	15.6	0	0
35	SFS5	X	15.6	15.6	0	0
36	SFS6	X	15.6	15.6	0	0
37	BRACE-1	Z	-10.7	-10.7	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	-10.7	-10.7	0	0
40	CONN-PL-0-2	Z	-13.9	-13.9	0	0
41	CONN-PL-0-1	Z	-13.9	-13.9	0	0
42	CONN-PL-240-2	Z	-13.9	-13.9	0	0
43	CONN-PL-240-1	Z	0	0	0	0
44	CONN-PL-120-1	Z	-13.9	-13.9	0	0
45	CONN-PL-120-2	Z	-13.9	-13.9	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
46	CONN-PL-0-3	Z	-13.9	-13.9	0	0
47	CONN-PL-0-4	Z	-13.9	-13.9	0	0
48	CONN-PL-240-3	Z	-13.9	-13.9	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	-13.9	-13.9	0	0
51	CONN-PL-120-4	Z	-13.9	-13.9	0	0
52	CORNER-PL-1	Z	-13.9	-13.9	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	-13.9	-13.9	0	0
55	FM-BOT-0	Z	-7.4	-7.4	0	0
56	FM-BOT-120	Z	-7.4	-7.4	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	-8.3	-8.3	0	0
59	SA-2	Z	-8.3	-8.3	0	0
60	SA-3	Z	-8.3	-8.3	0	0
61	GRAT1	Z	-7.7	-7.7	0	0
62	GRAT6	Z	0	0	0	0
63	GRAT2	Z	-7.7	-7.7	0	0
64	GRAT3	Z	-7.7	-7.7	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	-7.7	-7.7	0	0
67	SFS1	Z	-9	-9	0	0
68	SFS2	Z	-9	-9	0	0
69	SFS3	Z	-9	-9	0	0
70	SFS4	Z	-9	-9	0	0
71	SFS5	Z	-9	-9	0	0
72	SFS6	Z	-9	-9	0	0

Member Distributed Loads (BLC 14 : Ice Load)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	Y	-18.5	-18.5	0	0
2	BRACE-2	Y	-18.5	-18.5	0	0
3	BRACE-3	Y	-18.5	-18.5	0	0
4	CONN-PL-0-2	Y	-23.5	-23.5	0	0
5	CONN-PL-0-1	Y	-23.5	-23.5	0	0
6	CONN-PL-240-2	Y	-23.5	-23.5	0	0
7	CONN-PL-240-1	Y	-23.5	-23.5	0	0
8	CONN-PL-120-1	Y	-23.5	-23.5	0	0
9	CONN-PL-120-2	Y	-23.5	-23.5	0	0
10	CONN-PL-0-3	Y	-23.5	-23.5	0	0
11	CONN-PL-0-4	Y	-23.5	-23.5	0	0
12	CONN-PL-240-3	Y	-23.5	-23.5	0	0
13	CONN-PL-240-4	Y	-23.5	-23.5	0	0
14	CONN-PL-120-3	Y	-23.5	-23.5	0	0
15	CONN-PL-120-4	Y	-23.5	-23.5	0	0
16	CORNER-PL-1	Y	-23.5	-23.5	0	0
17	CORNER-PL-2	Y	-23.5	-23.5	0	0
18	CORNER-PL-3	Y	-23.5	-23.5	0	0
19	FM-BOT-0	Y	-16.4	-16.4	0	0
20	FM-BOT-120	Y	-16.4	-16.4	0	0
21	FM-BOT-240	Y	-16.4	-16.4	0	0
22	SA-1	Y	-22.5	-22.5	0	0
23	SA-2	Y	-22.5	-22.5	0	0
24	SA-3	Y	-22.5	-22.5	0	0
25	GRAT1	Y	-14.5	-14.5	0	0
26	GRAT6	Y	-14.5	-14.5	0	0

Member Distributed Loads (BLC 14 : Ice Load) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
27	GRAT2	Y	-14.5	-14.5	0	0
28	GRAT3	Y	-14.5	-14.5	0	0
29	GRAT5	Y	-14.5	-14.5	0	0
30	GRAT4	Y	-14.5	-14.5	0	0
31	SFS1	Y	-16.5	-16.5	0	0
32	SFS2	Y	-16.5	-16.5	0	0
33	SFS3	Y	-16.5	-16.5	0	0
34	SFS4	Y	-16.5	-16.5	0	0
35	SFS5	Y	-16.5	-16.5	0	0
36	SFS6	Y	-16.5	-16.5	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
1	BRACE-1	X	5.8	5.8	0	0
2	BRACE-2	X	5.8	5.8	0	0
3	BRACE-3	X	5.8	5.8	0	0
4	CONN-PL-0-2	X	6.4	6.4	0	0
5	CONN-PL-0-1	X	6.4	6.4	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	6.4	6.4	0	0
8	CONN-PL-120-1	X	6.4	6.4	0	0
9	CONN-PL-120-2	X	6.4	6.4	0	0
10	CONN-PL-0-3	X	6.4	6.4	0	0
11	CONN-PL-0-4	X	6.4	6.4	0	0
12	CONN-PL-240-3	X	6.4	6.4	0	0
13	CONN-PL-240-4	X	6.4	6.4	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	6.4	6.4	0	0
16	CORNER-PL-1	X	6.4	6.4	0	0
17	CORNER-PL-2	X	6.4	6.4	0	0
18	CORNER-PL-3	X	6.4	6.4	0	0
19	FM-BOT-0	X	5.4	5.4	0	0
20	FM-BOT-120	X	5.4	5.4	0	0
21	FM-BOT-240	X	5.4	5.4	0	0
22	SA-1	X	5	5	0	0
23	SA-2	X	5	5	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	4.9	4.9	0	0
26	GRAT6	X	4.9	4.9	0	0
27	GRAT2	X	4.9	4.9	0	0
28	GRAT3	X	4.9	4.9	0	0
29	GRAT5	X	4.9	4.9	0	0
30	GRAT4	X	4.9	4.9	0	0
31	SFS1	X	5.2	5.2	0	0
32	SFS2	X	5.2	5.2	0	0
33	SFS3	X	5.2	5.2	0	0
34	SFS4	X	5.2	5.2	0	0
35	SFS5	X	5.2	5.2	0	0
36	SFS6	X	5.2	5.2	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	0	0	0	0
43	CONN-PL-240-1	Z	0	0	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	0	0	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	0	0	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	0	0	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	0	0	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	0	0	0	0
68	SFS2	Z	0	0	0	0
69	SFS3	Z	0	0	0	0
70	SFS4	Z	0	0	0	0
71	SFS5	Z	0	0	0	0
72	SFS6	Z	0	0	0	0

Member Distributed Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	5	5	0	0
3	BRACE-3	X	5	5	0	0
4	CONN-PL-0-2	X	5.6	5.6	0	0
5	CONN-PL-0-1	X	5.6	5.6	0	0
6	CONN-PL-240-2	X	5.6	5.6	0	0
7	CONN-PL-240-1	X	5.6	5.6	0	0
8	CONN-PL-120-1	X	5.6	5.6	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	5.6	5.6	0	0
11	CONN-PL-0-4	X	5.6	5.6	0	0
12	CONN-PL-240-3	X	5.6	5.6	0	0
13	CONN-PL-240-4	X	5.6	5.6	0	0
14	CONN-PL-120-3	X	5.6	5.6	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	5.6	5.6	0	0
18	CORNER-PL-3	X	5.6	5.6	0	0
19	FM-BOT-0	X	4.7	4.7	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	4.7	4.7	0	0
22	SA-1	X	4.3	4.3	0	0
23	SA-2	X	4.3	4.3	0	0
24	SA-3	X	4.3	4.3	0	0

Member Distributed Loads (BLC 16 : Wind on Ice (30 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
25	GRAT1	X	4.2	4.2	0	0
26	GRAT6	X	4.2	4.2	0	0
27	GRAT2	X	4.2	4.2	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	4.2	4.2	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	4.5	4.5	0	0
32	SFS2	X	4.5	4.5	0	0
33	SFS3	X	4.5	4.5	0	0
34	SFS4	X	4.5	4.5	0	0
35	SFS5	X	4.5	4.5	0	0
36	SFS6	X	4.5	4.5	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	2.9	2.9	0	0
39	BRACE-3	Z	2.9	2.9	0	0
40	CONN-PL-0-2	Z	3.2	3.2	0	0
41	CONN-PL-0-1	Z	3.2	3.2	0	0
42	CONN-PL-240-2	Z	3.2	3.2	0	0
43	CONN-PL-240-1	Z	3.2	3.2	0	0
44	CONN-PL-120-1	Z	3.2	3.2	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	3.2	3.2	0	0
47	CONN-PL-0-4	Z	3.2	3.2	0	0
48	CONN-PL-240-3	Z	3.2	3.2	0	0
49	CONN-PL-240-4	Z	3.2	3.2	0	0
50	CONN-PL-120-3	Z	3.2	3.2	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	3.2	3.2	0	0
54	CORNER-PL-3	Z	3.2	3.2	0	0
55	FM-BOT-0	Z	2.7	2.7	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	2.7	2.7	0	0
58	SA-1	Z	2.5	2.5	0	0
59	SA-2	Z	2.5	2.5	0	0
60	SA-3	Z	2.5	2.5	0	0
61	GRAT1	Z	2.4	2.4	0	0
62	GRAT6	Z	2.4	2.4	0	0
63	GRAT2	Z	2.4	2.4	0	0
64	GRAT3	Z	0	0	0	0
65	GRAT5	Z	2.4	2.4	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	2.6	2.6	0	0
68	SFS2	Z	2.6	2.6	0	0
69	SFS3	Z	2.6	2.6	0	0
70	SFS4	Z	2.6	2.6	0	0
71	SFS5	Z	2.6	2.6	0	0
72	SFS6	Z	2.6	2.6	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	2.9	2.9	0	0
2	BRACE-2	X	2.9	2.9	0	0
3	BRACE-3	X	2.9	2.9	0	0
4	CONN-PL-0-2	X	3.2	3.2	0	0
5	CONN-PL-0-1	X	3.2	3.2	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
6	CONN-PL-240-2	X	3.2	3.2	0	0
7	CONN-PL-240-1	X	3.2	3.2	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	3.2	3.2	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	3.2	3.2	0	0
12	CONN-PL-240-3	X	3.2	3.2	0	0
13	CONN-PL-240-4	X	3.2	3.2	0	0
14	CONN-PL-120-3	X	3.2	3.2	0	0
15	CONN-PL-120-4	X	3.2	3.2	0	0
16	CORNER-PL-1	X	3.2	3.2	0	0
17	CORNER-PL-2	X	3.2	3.2	0	0
18	CORNER-PL-3	X	3.2	3.2	0	0
19	FM-BOT-0	X	2.7	2.7	0	0
20	FM-BOT-120	X	2.7	2.7	0	0
21	FM-BOT-240	X	2.7	2.7	0	0
22	SA-1	X	2.5	2.5	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	2.5	2.5	0	0
25	GRAT1	X	2.4	2.4	0	0
26	GRAT6	X	2.4	2.4	0	0
27	GRAT2	X	2.4	2.4	0	0
28	GRAT3	X	2.4	2.4	0	0
29	GRAT5	X	2.4	2.4	0	0
30	GRAT4	X	2.4	2.4	0	0
31	SFS1	X	2.6	2.6	0	0
32	SFS2	X	2.6	2.6	0	0
33	SFS3	X	2.6	2.6	0	0
34	SFS4	X	2.6	2.6	0	0
35	SFS5	X	2.6	2.6	0	0
36	SFS6	X	2.6	2.6	0	0
37	BRACE-1	Z	5	5	0	0
38	BRACE-2	Z	5	5	0	0
39	BRACE-3	Z	5	5	0	0
40	CONN-PL-0-2	Z	5.6	5.6	0	0
41	CONN-PL-0-1	Z	5.6	5.6	0	0
42	CONN-PL-240-2	Z	5.6	5.6	0	0
43	CONN-PL-240-1	Z	5.6	5.6	0	0
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	5.6	5.6	0	0
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	5.6	5.6	0	0
48	CONN-PL-240-3	Z	5.6	5.6	0	0
49	CONN-PL-240-4	Z	5.6	5.6	0	0
50	CONN-PL-120-3	Z	5.6	5.6	0	0
51	CONN-PL-120-4	Z	5.6	5.6	0	0
52	CORNER-PL-1	Z	5.6	5.6	0	0
53	CORNER-PL-2	Z	5.6	5.6	0	0
54	CORNER-PL-3	Z	5.6	5.6	0	0
55	FM-BOT-0	Z	4.7	4.7	0	0
56	FM-BOT-120	Z	4.7	4.7	0	0
57	FM-BOT-240	Z	4.7	4.7	0	0
58	SA-1	Z	4.3	4.3	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	4.3	4.3	0	0
61	GRAT1	Z	4.2	4.2	0	0
62	GRAT6	Z	4.2	4.2	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
63	GRAT2	Z	4.2	4.2	0	0
64	GRAT3	Z	4.2	4.2	0	0
65	GRAT5	Z	4.2	4.2	0	0
66	GRAT4	Z	4.2	4.2	0	0
67	SFS1	Z	4.5	4.5	0	0
68	SFS2	Z	4.5	4.5	0	0
69	SFS3	Z	4.5	4.5	0	0
70	SFS4	Z	4.5	4.5	0	0
71	SFS5	Z	4.5	4.5	0	0
72	SFS6	Z	4.5	4.5	0	0

Member Distributed Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	0	0	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	0	0	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	0	0	0	0
19	FM-BOT-0	X	0	0	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	0	0	0	0
26	GRAT6	X	0	0	0	0
27	GRAT2	X	0	0	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	0	0	0	0
32	SFS2	X	0	0	0	0
33	SFS3	X	0	0	0	0
34	SFS4	X	0	0	0	0
35	SFS5	X	0	0	0	0
36	SFS6	X	0	0	0	0
37	BRACE-1	Z	5.8	5.8	0	0
38	BRACE-2	Z	5.8	5.8	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	6.4	6.4	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	6.4	6.4	0	0
43	CONN-PL-240-1	Z	6.4	6.4	0	0

Member Distributed Loads (BLC 18 : Wind on Ice (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
44	CONN-PL-120-1	Z	6.4	6.4	0	0
45	CONN-PL-120-2	Z	6.4	6.4	0	0
46	CONN-PL-0-3	Z	6.4	6.4	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	6.4	6.4	0	0
49	CONN-PL-240-4	Z	6.4	6.4	0	0
50	CONN-PL-120-3	Z	6.4	6.4	0	0
51	CONN-PL-120-4	Z	6.4	6.4	0	0
52	CORNER-PL-1	Z	6.4	6.4	0	0
53	CORNER-PL-2	Z	6.4	6.4	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	5.4	5.4	0	0
57	FM-BOT-240	Z	5.4	5.4	0	0
58	SA-1	Z	5	5	0	0
59	SA-2	Z	5	5	0	0
60	SA-3	Z	5	5	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	4.9	4.9	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	4.9	4.9	0	0
65	GRAT5	Z	4.9	4.9	0	0
66	GRAT4	Z	4.9	4.9	0	0
67	SFS1	Z	5.2	5.2	0	0
68	SFS2	Z	5.2	5.2	0	0
69	SFS3	Z	5.2	5.2	0	0
70	SFS4	Z	5.2	5.2	0	0
71	SFS5	Z	5.2	5.2	0	0
72	SFS6	Z	5.2	5.2	0	0

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	-2.9	-2.9	0	0
2	BRACE-2	X	-2.9	-2.9	0	0
3	BRACE-3	X	-2.9	-2.9	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	-3.2	-3.2	0	0
6	CONN-PL-240-2	X	-3.2	-3.2	0	0
7	CONN-PL-240-1	X	-3.2	-3.2	0	0
8	CONN-PL-120-1	X	-3.2	-3.2	0	0
9	CONN-PL-120-2	X	-3.2	-3.2	0	0
10	CONN-PL-0-3	X	-3.2	-3.2	0	0
11	CONN-PL-0-4	X	-3.2	-3.2	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	-3.2	-3.2	0	0
14	CONN-PL-120-3	X	-3.2	-3.2	0	0
15	CONN-PL-120-4	X	-3.2	-3.2	0	0
16	CORNER-PL-1	X	-3.2	-3.2	0	0
17	CORNER-PL-2	X	-3.2	-3.2	0	0
18	CORNER-PL-3	X	-3.2	-3.2	0	0
19	FM-BOT-0	X	-2.7	-2.7	0	0
20	FM-BOT-120	X	-2.7	-2.7	0	0
21	FM-BOT-240	X	-2.7	-2.7	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	-2.5	-2.5	0	0
24	SA-3	X	-2.5	-2.5	0	0

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
25	GRAT1	X	-2.4	-2.4	0	0
26	GRAT6	X	-2.4	-2.4	0	0
27	GRAT2	X	-2.4	-2.4	0	0
28	GRAT3	X	-2.4	-2.4	0	0
29	GRAT5	X	-2.4	-2.4	0	0
30	GRAT4	X	-2.4	-2.4	0	0
31	SFS1	X	-2.6	-2.6	0	0
32	SFS2	X	-2.6	-2.6	0	0
33	SFS3	X	-2.6	-2.6	0	0
34	SFS4	X	-2.6	-2.6	0	0
35	SFS5	X	-2.6	-2.6	0	0
36	SFS6	X	-2.6	-2.6	0	0
37	BRACE-1	Z	5	5	0	0
38	BRACE-2	Z	5	5	0	0
39	BRACE-3	Z	5	5	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	5.6	5.6	0	0
42	CONN-PL-240-2	Z	5.6	5.6	0	0
43	CONN-PL-240-1	Z	5.6	5.6	0	0
44	CONN-PL-120-1	Z	5.6	5.6	0	0
45	CONN-PL-120-2	Z	5.6	5.6	0	0
46	CONN-PL-0-3	Z	5.6	5.6	0	0
47	CONN-PL-0-4	Z	5.6	5.6	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	5.6	5.6	0	0
50	CONN-PL-120-3	Z	5.6	5.6	0	0
51	CONN-PL-120-4	Z	5.6	5.6	0	0
52	CORNER-PL-1	Z	5.6	5.6	0	0
53	CORNER-PL-2	Z	5.6	5.6	0	0
54	CORNER-PL-3	Z	5.6	5.6	0	0
55	FM-BOT-0	Z	4.7	4.7	0	0
56	FM-BOT-120	Z	4.7	4.7	0	0
57	FM-BOT-240	Z	4.7	4.7	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	4.3	4.3	0	0
60	SA-3	Z	4.3	4.3	0	0
61	GRAT1	Z	4.2	4.2	0	0
62	GRAT6	Z	4.2	4.2	0	0
63	GRAT2	Z	4.2	4.2	0	0
64	GRAT3	Z	4.2	4.2	0	0
65	GRAT5	Z	4.2	4.2	0	0
66	GRAT4	Z	4.2	4.2	0	0
67	SFS1	Z	4.5	4.5	0	0
68	SFS2	Z	4.5	4.5	0	0
69	SFS3	Z	4.5	4.5	0	0
70	SFS4	Z	4.5	4.5	0	0
71	SFS5	Z	4.5	4.5	0	0
72	SFS6	Z	4.5	4.5	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	-5	-5	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	-5	-5	0	0
4	CONN-PL-0-2	X	-5.6	-5.6	0	0
5	CONN-PL-0-1	X	-5.6	-5.6	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
6	CONN-PL-240-2	X	-5.6	-5.6	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	-5.6	-5.6	0	0
9	CONN-PL-120-2	X	-5.6	-5.6	0	0
10	CONN-PL-0-3	X	-5.6	-5.6	0	0
11	CONN-PL-0-4	X	-5.6	-5.6	0	0
12	CONN-PL-240-3	X	-5.6	-5.6	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	-5.6	-5.6	0	0
15	CONN-PL-120-4	X	-5.6	-5.6	0	0
16	CORNER-PL-1	X	-5.6	-5.6	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	-5.6	-5.6	0	0
19	FM-BOT-0	X	-4.7	-4.7	0	0
20	FM-BOT-120	X	-4.7	-4.7	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	-4.3	-4.3	0	0
23	SA-2	X	-4.3	-4.3	0	0
24	SA-3	X	-4.3	-4.3	0	0
25	GRAT1	X	-4.2	-4.2	0	0
26	GRAT6	X	0	0	0	0
27	GRAT2	X	-4.2	-4.2	0	0
28	GRAT3	X	-4.2	-4.2	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	-4.2	-4.2	0	0
31	SFS1	X	-4.5	-4.5	0	0
32	SFS2	X	-4.5	-4.5	0	0
33	SFS3	X	-4.5	-4.5	0	0
34	SFS4	X	-4.5	-4.5	0	0
35	SFS5	X	-4.5	-4.5	0	0
36	SFS6	X	-4.5	-4.5	0	0
37	BRACE-1	Z	2.9	2.9	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	2.9	2.9	0	0
40	CONN-PL-0-2	Z	3.2	3.2	0	0
41	CONN-PL-0-1	Z	3.2	3.2	0	0
42	CONN-PL-240-2	Z	3.2	3.2	0	0
43	CONN-PL-240-1	Z	0	0	0	0
44	CONN-PL-120-1	Z	3.2	3.2	0	0
45	CONN-PL-120-2	Z	3.2	3.2	0	0
46	CONN-PL-0-3	Z	3.2	3.2	0	0
47	CONN-PL-0-4	Z	3.2	3.2	0	0
48	CONN-PL-240-3	Z	3.2	3.2	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	3.2	3.2	0	0
51	CONN-PL-120-4	Z	3.2	3.2	0	0
52	CORNER-PL-1	Z	3.2	3.2	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	3.2	3.2	0	0
55	FM-BOT-0	Z	2.7	2.7	0	0
56	FM-BOT-120	Z	2.7	2.7	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	2.5	2.5	0	0
59	SA-2	Z	2.5	2.5	0	0
60	SA-3	Z	2.5	2.5	0	0
61	GRAT1	Z	2.4	2.4	0	0
62	GRAT6	Z	0	0	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
63	GRAT2	Z	2.4	2.4	0	0
64	GRAT3	Z	2.4	2.4	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	2.4	2.4	0	0
67	SFS1	Z	2.6	2.6	0	0
68	SFS2	Z	2.6	2.6	0	0
69	SFS3	Z	2.6	2.6	0	0
70	SFS4	Z	2.6	2.6	0	0
71	SFS5	Z	2.6	2.6	0	0
72	SFS6	Z	2.6	2.6	0	0

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
1	BRACE-1	X	-5.8	-5.8	0	0
2	BRACE-2	X	-5.8	-5.8	0	0
3	BRACE-3	X	-5.8	-5.8	0	0
4	CONN-PL-0-2	X	-6.4	-6.4	0	0
5	CONN-PL-0-1	X	-6.4	-6.4	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	-6.4	-6.4	0	0
8	CONN-PL-120-1	X	-6.4	-6.4	0	0
9	CONN-PL-120-2	X	-6.4	-6.4	0	0
10	CONN-PL-0-3	X	-6.4	-6.4	0	0
11	CONN-PL-0-4	X	-6.4	-6.4	0	0
12	CONN-PL-240-3	X	-6.4	-6.4	0	0
13	CONN-PL-240-4	X	-6.4	-6.4	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	-6.4	-6.4	0	0
16	CORNER-PL-1	X	-6.4	-6.4	0	0
17	CORNER-PL-2	X	-6.4	-6.4	0	0
18	CORNER-PL-3	X	-6.4	-6.4	0	0
19	FM-BOT-0	X	-5.4	-5.4	0	0
20	FM-BOT-120	X	-5.4	-5.4	0	0
21	FM-BOT-240	X	-5.4	-5.4	0	0
22	SA-1	X	-5	-5	0	0
23	SA-2	X	-5	-5	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	-4.9	-4.9	0	0
26	GRAT6	X	-4.9	-4.9	0	0
27	GRAT2	X	-4.9	-4.9	0	0
28	GRAT3	X	-4.9	-4.9	0	0
29	GRAT5	X	-4.9	-4.9	0	0
30	GRAT4	X	-4.9	-4.9	0	0
31	SFS1	X	-5.2	-5.2	0	0
32	SFS2	X	-5.2	-5.2	0	0
33	SFS3	X	-5.2	-5.2	0	0
34	SFS4	X	-5.2	-5.2	0	0
35	SFS5	X	-5.2	-5.2	0	0
36	SFS6	X	-5.2	-5.2	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	0	0	0	0
43	CONN-PL-240-1	Z	0	0	0	0

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	0	0	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	0	0	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	0	0	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	0	0	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	0	0	0	0
68	SFS2	Z	0	0	0	0
69	SFS3	Z	0	0	0	0
70	SFS4	Z	0	0	0	0
71	SFS5	Z	0	0	0	0
72	SFS6	Z	0	0	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	-5	-5	0	0
3	BRACE-3	X	-5	-5	0	0
4	CONN-PL-0-2	X	-5.6	-5.6	0	0
5	CONN-PL-0-1	X	-5.6	-5.6	0	0
6	CONN-PL-240-2	X	-5.6	-5.6	0	0
7	CONN-PL-240-1	X	-5.6	-5.6	0	0
8	CONN-PL-120-1	X	-5.6	-5.6	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	-5.6	-5.6	0	0
11	CONN-PL-0-4	X	-5.6	-5.6	0	0
12	CONN-PL-240-3	X	-5.6	-5.6	0	0
13	CONN-PL-240-4	X	-5.6	-5.6	0	0
14	CONN-PL-120-3	X	-5.6	-5.6	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	-5.6	-5.6	0	0
18	CORNER-PL-3	X	-5.6	-5.6	0	0
19	FM-BOT-0	X	-4.7	-4.7	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	-4.7	-4.7	0	0
22	SA-1	X	-4.3	-4.3	0	0
23	SA-2	X	-4.3	-4.3	0	0
24	SA-3	X	-4.3	-4.3	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
25	GRAT1	X	-4.2	-4.2	0	0
26	GRAT6	X	-4.2	-4.2	0	0
27	GRAT2	X	-4.2	-4.2	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	-4.2	-4.2	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	-4.5	-4.5	0	0
32	SFS2	X	-4.5	-4.5	0	0
33	SFS3	X	-4.5	-4.5	0	0
34	SFS4	X	-4.5	-4.5	0	0
35	SFS5	X	-4.5	-4.5	0	0
36	SFS6	X	-4.5	-4.5	0	0
37	BRACE-1	Z	0	0	0	0
38	BRACE-2	Z	-2.9	-2.9	0	0
39	BRACE-3	Z	-2.9	-2.9	0	0
40	CONN-PL-0-2	Z	-3.2	-3.2	0	0
41	CONN-PL-0-1	Z	-3.2	-3.2	0	0
42	CONN-PL-240-2	Z	-3.2	-3.2	0	0
43	CONN-PL-240-1	Z	-3.2	-3.2	0	0
44	CONN-PL-120-1	Z	-3.2	-3.2	0	0
45	CONN-PL-120-2	Z	0	0	0	0
46	CONN-PL-0-3	Z	-3.2	-3.2	0	0
47	CONN-PL-0-4	Z	-3.2	-3.2	0	0
48	CONN-PL-240-3	Z	-3.2	-3.2	0	0
49	CONN-PL-240-4	Z	-3.2	-3.2	0	0
50	CONN-PL-120-3	Z	-3.2	-3.2	0	0
51	CONN-PL-120-4	Z	0	0	0	0
52	CORNER-PL-1	Z	0	0	0	0
53	CORNER-PL-2	Z	-3.2	-3.2	0	0
54	CORNER-PL-3	Z	-3.2	-3.2	0	0
55	FM-BOT-0	Z	-2.7	-2.7	0	0
56	FM-BOT-120	Z	0	0	0	0
57	FM-BOT-240	Z	-2.7	-2.7	0	0
58	SA-1	Z	-2.5	-2.5	0	0
59	SA-2	Z	-2.5	-2.5	0	0
60	SA-3	Z	-2.5	-2.5	0	0
61	GRAT1	Z	-2.4	-2.4	0	0
62	GRAT6	Z	-2.4	-2.4	0	0
63	GRAT2	Z	-2.4	-2.4	0	0
64	GRAT3	Z	0	0	0	0
65	GRAT5	Z	-2.4	-2.4	0	0
66	GRAT4	Z	0	0	0	0
67	SFS1	Z	-2.6	-2.6	0	0
68	SFS2	Z	-2.6	-2.6	0	0
69	SFS3	Z	-2.6	-2.6	0	0
70	SFS4	Z	-2.6	-2.6	0	0
71	SFS5	Z	-2.6	-2.6	0	0
72	SFS6	Z	-2.6	-2.6	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	-2.9	-2.9	0	0
2	BRACE-2	X	-2.9	-2.9	0	0
3	BRACE-3	X	-2.9	-2.9	0	0
4	CONN-PL-0-2	X	-3.2	-3.2	0	0
5	CONN-PL-0-1	X	-3.2	-3.2	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
6	CONN-PL-240-2	X	-3.2	-3.2	0	0
7	CONN-PL-240-1	X	-3.2	-3.2	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	-3.2	-3.2	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	-3.2	-3.2	0	0
12	CONN-PL-240-3	X	-3.2	-3.2	0	0
13	CONN-PL-240-4	X	-3.2	-3.2	0	0
14	CONN-PL-120-3	X	-3.2	-3.2	0	0
15	CONN-PL-120-4	X	-3.2	-3.2	0	0
16	CORNER-PL-1	X	-3.2	-3.2	0	0
17	CORNER-PL-2	X	-3.2	-3.2	0	0
18	CORNER-PL-3	X	-3.2	-3.2	0	0
19	FM-BOT-0	X	-2.7	-2.7	0	0
20	FM-BOT-120	X	-2.7	-2.7	0	0
21	FM-BOT-240	X	-2.7	-2.7	0	0
22	SA-1	X	-2.5	-2.5	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	-2.5	-2.5	0	0
25	GRAT1	X	-2.4	-2.4	0	0
26	GRAT6	X	-2.4	-2.4	0	0
27	GRAT2	X	-2.4	-2.4	0	0
28	GRAT3	X	-2.4	-2.4	0	0
29	GRAT5	X	-2.4	-2.4	0	0
30	GRAT4	X	-2.4	-2.4	0	0
31	SFS1	X	-2.6	-2.6	0	0
32	SFS2	X	-2.6	-2.6	0	0
33	SFS3	X	-2.6	-2.6	0	0
34	SFS4	X	-2.6	-2.6	0	0
35	SFS5	X	-2.6	-2.6	0	0
36	SFS6	X	-2.6	-2.6	0	0
37	BRACE-1	Z	-5	-5	0	0
38	BRACE-2	Z	-5	-5	0	0
39	BRACE-3	Z	-5	-5	0	0
40	CONN-PL-0-2	Z	-5.6	-5.6	0	0
41	CONN-PL-0-1	Z	-5.6	-5.6	0	0
42	CONN-PL-240-2	Z	-5.6	-5.6	0	0
43	CONN-PL-240-1	Z	-5.6	-5.6	0	0
44	CONN-PL-120-1	Z	0	0	0	0
45	CONN-PL-120-2	Z	-5.6	-5.6	0	0
46	CONN-PL-0-3	Z	0	0	0	0
47	CONN-PL-0-4	Z	-5.6	-5.6	0	0
48	CONN-PL-240-3	Z	-5.6	-5.6	0	0
49	CONN-PL-240-4	Z	-5.6	-5.6	0	0
50	CONN-PL-120-3	Z	-5.6	-5.6	0	0
51	CONN-PL-120-4	Z	-5.6	-5.6	0	0
52	CORNER-PL-1	Z	-5.6	-5.6	0	0
53	CORNER-PL-2	Z	-5.6	-5.6	0	0
54	CORNER-PL-3	Z	-5.6	-5.6	0	0
55	FM-BOT-0	Z	-4.7	-4.7	0	0
56	FM-BOT-120	Z	-4.7	-4.7	0	0
57	FM-BOT-240	Z	-4.7	-4.7	0	0
58	SA-1	Z	-4.3	-4.3	0	0
59	SA-2	Z	0	0	0	0
60	SA-3	Z	-4.3	-4.3	0	0
61	GRAT1	Z	-4.2	-4.2	0	0
62	GRAT6	Z	-4.2	-4.2	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
63	GRAT2	Z	-4.2	-4.2	0	0
64	GRAT3	Z	-4.2	-4.2	0	0
65	GRAT5	Z	-4.2	-4.2	0	0
66	GRAT4	Z	-4.2	-4.2	0	0
67	SFS1	Z	-4.5	-4.5	0	0
68	SFS2	Z	-4.5	-4.5	0	0
69	SFS3	Z	-4.5	-4.5	0	0
70	SFS4	Z	-4.5	-4.5	0	0
71	SFS5	Z	-4.5	-4.5	0	0
72	SFS6	Z	-4.5	-4.5	0	0

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	0	0	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	0	0	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	0	0	0	0
6	CONN-PL-240-2	X	0	0	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	0	0	0	0
9	CONN-PL-120-2	X	0	0	0	0
10	CONN-PL-0-3	X	0	0	0	0
11	CONN-PL-0-4	X	0	0	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	0	0	0	0
15	CONN-PL-120-4	X	0	0	0	0
16	CORNER-PL-1	X	0	0	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	0	0	0	0
19	FM-BOT-0	X	0	0	0	0
20	FM-BOT-120	X	0	0	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	0	0	0	0
24	SA-3	X	0	0	0	0
25	GRAT1	X	0	0	0	0
26	GRAT6	X	0	0	0	0
27	GRAT2	X	0	0	0	0
28	GRAT3	X	0	0	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	0	0	0	0
31	SFS1	X	0	0	0	0
32	SFS2	X	0	0	0	0
33	SFS3	X	0	0	0	0
34	SFS4	X	0	0	0	0
35	SFS5	X	0	0	0	0
36	SFS6	X	0	0	0	0
37	BRACE-1	Z	-5.8	-5.8	0	0
38	BRACE-2	Z	-5.8	-5.8	0	0
39	BRACE-3	Z	0	0	0	0
40	CONN-PL-0-2	Z	-6.4	-6.4	0	0
41	CONN-PL-0-1	Z	0	0	0	0
42	CONN-PL-240-2	Z	-6.4	-6.4	0	0
43	CONN-PL-240-1	Z	-6.4	-6.4	0	0

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
44	CONN-PL-120-1	Z	-6.4	-6.4	0	0
45	CONN-PL-120-2	Z	-6.4	-6.4	0	0
46	CONN-PL-0-3	Z	-6.4	-6.4	0	0
47	CONN-PL-0-4	Z	0	0	0	0
48	CONN-PL-240-3	Z	-6.4	-6.4	0	0
49	CONN-PL-240-4	Z	-6.4	-6.4	0	0
50	CONN-PL-120-3	Z	-6.4	-6.4	0	0
51	CONN-PL-120-4	Z	-6.4	-6.4	0	0
52	CORNER-PL-1	Z	-6.4	-6.4	0	0
53	CORNER-PL-2	Z	-6.4	-6.4	0	0
54	CORNER-PL-3	Z	0	0	0	0
55	FM-BOT-0	Z	0	0	0	0
56	FM-BOT-120	Z	-5.4	-5.4	0	0
57	FM-BOT-240	Z	-5.4	-5.4	0	0
58	SA-1	Z	-5	-5	0	0
59	SA-2	Z	-5	-5	0	0
60	SA-3	Z	-5	-5	0	0
61	GRAT1	Z	0	0	0	0
62	GRAT6	Z	-4.9	-4.9	0	0
63	GRAT2	Z	0	0	0	0
64	GRAT3	Z	-4.9	-4.9	0	0
65	GRAT5	Z	-4.9	-4.9	0	0
66	GRAT4	Z	-4.9	-4.9	0	0
67	SFS1	Z	-5.2	-5.2	0	0
68	SFS2	Z	-5.2	-5.2	0	0
69	SFS3	Z	-5.2	-5.2	0	0
70	SFS4	Z	-5.2	-5.2	0	0
71	SFS5	Z	-5.2	-5.2	0	0
72	SFS6	Z	-5.2	-5.2	0	0

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	2.9	2.9	0	0
2	BRACE-2	X	2.9	2.9	0	0
3	BRACE-3	X	2.9	2.9	0	0
4	CONN-PL-0-2	X	0	0	0	0
5	CONN-PL-0-1	X	3.2	3.2	0	0
6	CONN-PL-240-2	X	3.2	3.2	0	0
7	CONN-PL-240-1	X	3.2	3.2	0	0
8	CONN-PL-120-1	X	3.2	3.2	0	0
9	CONN-PL-120-2	X	3.2	3.2	0	0
10	CONN-PL-0-3	X	3.2	3.2	0	0
11	CONN-PL-0-4	X	3.2	3.2	0	0
12	CONN-PL-240-3	X	0	0	0	0
13	CONN-PL-240-4	X	3.2	3.2	0	0
14	CONN-PL-120-3	X	3.2	3.2	0	0
15	CONN-PL-120-4	X	3.2	3.2	0	0
16	CORNER-PL-1	X	3.2	3.2	0	0
17	CORNER-PL-2	X	3.2	3.2	0	0
18	CORNER-PL-3	X	3.2	3.2	0	0
19	FM-BOT-0	X	2.7	2.7	0	0
20	FM-BOT-120	X	2.7	2.7	0	0
21	FM-BOT-240	X	2.7	2.7	0	0
22	SA-1	X	0	0	0	0
23	SA-2	X	2.5	2.5	0	0
24	SA-3	X	2.5	2.5	0	0

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
25	GRAT1	X	2.4	2.4	0	0
26	GRAT6	X	2.4	2.4	0	0
27	GRAT2	X	2.4	2.4	0	0
28	GRAT3	X	2.4	2.4	0	0
29	GRAT5	X	2.4	2.4	0	0
30	GRAT4	X	2.4	2.4	0	0
31	SFS1	X	2.6	2.6	0	0
32	SFS2	X	2.6	2.6	0	0
33	SFS3	X	2.6	2.6	0	0
34	SFS4	X	2.6	2.6	0	0
35	SFS5	X	2.6	2.6	0	0
36	SFS6	X	2.6	2.6	0	0
37	BRACE-1	Z	-5	-5	0	0
38	BRACE-2	Z	-5	-5	0	0
39	BRACE-3	Z	-5	-5	0	0
40	CONN-PL-0-2	Z	0	0	0	0
41	CONN-PL-0-1	Z	-5.6	-5.6	0	0
42	CONN-PL-240-2	Z	-5.6	-5.6	0	0
43	CONN-PL-240-1	Z	-5.6	-5.6	0	0
44	CONN-PL-120-1	Z	-5.6	-5.6	0	0
45	CONN-PL-120-2	Z	-5.6	-5.6	0	0
46	CONN-PL-0-3	Z	-5.6	-5.6	0	0
47	CONN-PL-0-4	Z	-5.6	-5.6	0	0
48	CONN-PL-240-3	Z	0	0	0	0
49	CONN-PL-240-4	Z	-5.6	-5.6	0	0
50	CONN-PL-120-3	Z	-5.6	-5.6	0	0
51	CONN-PL-120-4	Z	-5.6	-5.6	0	0
52	CORNER-PL-1	Z	-5.6	-5.6	0	0
53	CORNER-PL-2	Z	-5.6	-5.6	0	0
54	CORNER-PL-3	Z	-5.6	-5.6	0	0
55	FM-BOT-0	Z	-4.7	-4.7	0	0
56	FM-BOT-120	Z	-4.7	-4.7	0	0
57	FM-BOT-240	Z	-4.7	-4.7	0	0
58	SA-1	Z	0	0	0	0
59	SA-2	Z	-4.3	-4.3	0	0
60	SA-3	Z	-4.3	-4.3	0	0
61	GRAT1	Z	-4.2	-4.2	0	0
62	GRAT6	Z	-4.2	-4.2	0	0
63	GRAT2	Z	-4.2	-4.2	0	0
64	GRAT3	Z	-4.2	-4.2	0	0
65	GRAT5	Z	-4.2	-4.2	0	0
66	GRAT4	Z	-4.2	-4.2	0	0
67	SFS1	Z	-4.5	-4.5	0	0
68	SFS2	Z	-4.5	-4.5	0	0
69	SFS3	Z	-4.5	-4.5	0	0
70	SFS4	Z	-4.5	-4.5	0	0
71	SFS5	Z	-4.5	-4.5	0	0
72	SFS6	Z	-4.5	-4.5	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	BRACE-1	X	5	5	0	0
2	BRACE-2	X	0	0	0	0
3	BRACE-3	X	5	5	0	0
4	CONN-PL-0-2	X	5.6	5.6	0	0
5	CONN-PL-0-1	X	5.6	5.6	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
6	CONN-PL-240-2	X	5.6	5.6	0	0
7	CONN-PL-240-1	X	0	0	0	0
8	CONN-PL-120-1	X	5.6	5.6	0	0
9	CONN-PL-120-2	X	5.6	5.6	0	0
10	CONN-PL-0-3	X	5.6	5.6	0	0
11	CONN-PL-0-4	X	5.6	5.6	0	0
12	CONN-PL-240-3	X	5.6	5.6	0	0
13	CONN-PL-240-4	X	0	0	0	0
14	CONN-PL-120-3	X	5.6	5.6	0	0
15	CONN-PL-120-4	X	5.6	5.6	0	0
16	CORNER-PL-1	X	5.6	5.6	0	0
17	CORNER-PL-2	X	0	0	0	0
18	CORNER-PL-3	X	5.6	5.6	0	0
19	FM-BOT-0	X	4.7	4.7	0	0
20	FM-BOT-120	X	4.7	4.7	0	0
21	FM-BOT-240	X	0	0	0	0
22	SA-1	X	4.3	4.3	0	0
23	SA-2	X	4.3	4.3	0	0
24	SA-3	X	4.3	4.3	0	0
25	GRAT1	X	4.2	4.2	0	0
26	GRAT6	X	0	0	0	0
27	GRAT2	X	4.2	4.2	0	0
28	GRAT3	X	4.2	4.2	0	0
29	GRAT5	X	0	0	0	0
30	GRAT4	X	4.2	4.2	0	0
31	SFS1	X	4.5	4.5	0	0
32	SFS2	X	4.5	4.5	0	0
33	SFS3	X	4.5	4.5	0	0
34	SFS4	X	4.5	4.5	0	0
35	SFS5	X	4.5	4.5	0	0
36	SFS6	X	4.5	4.5	0	0
37	BRACE-1	Z	-2.9	-2.9	0	0
38	BRACE-2	Z	0	0	0	0
39	BRACE-3	Z	-2.9	-2.9	0	0
40	CONN-PL-0-2	Z	-3.2	-3.2	0	0
41	CONN-PL-0-1	Z	-3.2	-3.2	0	0
42	CONN-PL-240-2	Z	-3.2	-3.2	0	0
43	CONN-PL-240-1	Z	0	0	0	0
44	CONN-PL-120-1	Z	-3.2	-3.2	0	0
45	CONN-PL-120-2	Z	-3.2	-3.2	0	0
46	CONN-PL-0-3	Z	-3.2	-3.2	0	0
47	CONN-PL-0-4	Z	-3.2	-3.2	0	0
48	CONN-PL-240-3	Z	-3.2	-3.2	0	0
49	CONN-PL-240-4	Z	0	0	0	0
50	CONN-PL-120-3	Z	-3.2	-3.2	0	0
51	CONN-PL-120-4	Z	-3.2	-3.2	0	0
52	CORNER-PL-1	Z	-3.2	-3.2	0	0
53	CORNER-PL-2	Z	0	0	0	0
54	CORNER-PL-3	Z	-3.2	-3.2	0	0
55	FM-BOT-0	Z	-2.7	-2.7	0	0
56	FM-BOT-120	Z	-2.7	-2.7	0	0
57	FM-BOT-240	Z	0	0	0	0
58	SA-1	Z	-2.5	-2.5	0	0
59	SA-2	Z	-2.5	-2.5	0	0
60	SA-3	Z	-2.5	-2.5	0	0
61	GRAT1	Z	-2.4	-2.4	0	0
62	GRAT6	Z	0	0	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
63	GRAT2	Z	-2.4	-2.4	0	0
64	GRAT3	Z	-2.4	-2.4	0	0
65	GRAT5	Z	0	0	0	0
66	GRAT4	Z	-2.4	-2.4	0	0
67	SFS1	Z	-2.6	-2.6	0	0
68	SFS2	Z	-2.6	-2.6	0	0
69	SFS3	Z	-2.6	-2.6	0	0
70	SFS4	Z	-2.6	-2.6	0	0
71	SFS5	Z	-2.6	-2.6	0	0
72	SFS6	Z	-2.6	-2.6	0	0

Member Distributed Loads (BLC 199 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
1	BRACE-1	Y	-0.006	-0.282	0	4.094
2	BRACE-1	Y	-0.282	-0.659	4.094	8.187
3	BRACE-1	Y	-0.659	-1.043	8.187	12.281
4	BRACE-1	Y	-1.043	-1.476	12.281	16.374
5	BRACE-1	Y	-1.476	-1.428	16.374	20.468
6	BRACE-1	Y	-1.428	-0.887	20.468	24.561
7	BRACE-1	Y	-0.887	-0.323	24.561	28.655
8	BRACE-1	Y	-0.323	-0.219	28.655	32.748
9	BRACE-1	Y	-0.219	-0.9	32.748	36.842
10	BRACE-1	Y	-0.9	-1.476	36.842	40.935
11	BRACE-1	Y	-1.476	-1.406	40.935	45.029
12	BRACE-1	Y	-1.406	-1.035	45.029	49.122
13	BRACE-1	Y	-1.035	-0.647	49.122	53.216
14	BRACE-1	Y	-0.647	-0.277	53.216	57.31
15	BRACE-1	Y	-0.277	-0.006	57.31	61.403
16	CORNER-PL-1	Y	-0.119	-0.119	0	3.82
17	CORNER-PL-1	Y	-0.119	-0.119	3.82	7.64
18	SA-1	Y	-0.802	-0.877	0	4.288
19	SA-1	Y	-0.877	-1.086	4.288	8.576
20	SA-1	Y	-1.086	-1.583	8.576	12.864
21	SA-1	Y	-1.583	-1.785	12.864	17.152
22	SA-1	Y	-1.785	-2.006	17.152	21.44
23	SA-1	Y	-2.006	-2.512	21.44	25.728
24	SA-1	Y	-2.512	-2.742	25.728	30.016
25	SA-1	Y	-2.742	-3.009	30.016	34.304
26	SA-1	Y	-3.009	-2.738	34.304	38.592
27	SA-1	Y	-2.738	-1.704	38.592	42.88
28	SA-1	Y	-1.704	-0.712	42.88	47.168
29	SA-1	Y	-0.712	-0.013	47.168	51.456
30	GRAT1	Y	-0.151	-0.421	0	4.296
31	GRAT1	Y	-0.421	-0.606	4.296	8.593
32	GRAT1	Y	-0.606	-0.765	8.593	12.889
33	GRAT1	Y	-0.765	-1.028	12.889	17.186
34	GRAT1	Y	-1.028	-1.113	17.186	21.482
35	GRAT1	Y	-1.113	-1.166	21.482	25.779
36	GRAT1	Y	-1.166	-1.45	25.779	30.075
37	GRAT1	Y	-1.45	-1.67	30.075	34.372
38	GRAT1	Y	-1.67	-1.541	34.372	38.668
39	GRAT1	Y	-1.541	-1.209	38.668	42.965
40	GRAT1	Y	-1.209	-0.745	42.965	47.261
41	GRAT1	Y	-0.745	-0.337	47.261	51.558
42	GRAT1	Y	-0.337	-0.163	51.558	55.854
43	GRAT6	Y	-0.151	-0.421	0	4.296

Member Distributed Loads (BLC 199 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
44	GRAT6	Y	-.421	-.607	4.296	8.593
45	GRAT6	Y	-.607	-.769	8.593	12.889
46	GRAT6	Y	-.769	-1.026	12.889	17.186
47	GRAT6	Y	-1.026	-1.112	17.186	21.482
48	GRAT6	Y	-1.112	-1.174	21.482	25.779
49	GRAT6	Y	-1.174	-1.462	25.779	30.075
50	GRAT6	Y	-1.462	-1.636	30.075	34.372
51	GRAT6	Y	-1.636	-1.491	34.372	38.668
52	GRAT6	Y	-1.491	-1.297	38.668	42.965
53	GRAT6	Y	-1.297	-.841	42.965	47.261
54	GRAT6	Y	-.841	-.339	47.261	51.558
55	GRAT6	Y	-.339	-.164	51.558	55.854
56	BRACE-2	Y	-.006	-.277	0	4.094
57	BRACE-2	Y	-.277	-.647	4.094	8.187
58	BRACE-2	Y	-.647	-1.035	8.187	12.281
59	BRACE-2	Y	-1.035	-1.406	12.281	16.374
60	BRACE-2	Y	-1.406	-1.476	16.374	20.468
61	BRACE-2	Y	-1.476	-.9	20.468	24.561
62	BRACE-2	Y	-.9	-.219	24.561	28.655
63	BRACE-2	Y	-.219	-.323	28.655	32.748
64	BRACE-2	Y	-.323	-.887	32.748	36.842
65	BRACE-2	Y	-.887	-1.428	36.842	40.935
66	BRACE-2	Y	-1.428	-1.476	40.935	45.029
67	BRACE-2	Y	-1.476	-1.043	45.029	49.122
68	BRACE-2	Y	-1.043	-.659	49.122	53.216
69	BRACE-2	Y	-.659	-.282	53.216	57.31
70	BRACE-2	Y	-.282	-.006	57.31	61.403
71	CORNER-PL-2	Y	-.119	-.119	0	3.82
72	CORNER-PL-2	Y	-.119	-.119	3.82	7.64
73	SA-2	Y	-.802	-.877	0	4.288
74	SA-2	Y	-.877	-1.086	4.288	8.576
75	SA-2	Y	-1.086	-1.583	8.576	12.864
76	SA-2	Y	-1.583	-1.785	12.864	17.152
77	SA-2	Y	-1.785	-2.006	17.152	21.44
78	SA-2	Y	-2.006	-2.512	21.44	25.728
79	SA-2	Y	-2.512	-2.742	25.728	30.016
80	SA-2	Y	-2.742	-3.009	30.016	34.304
81	SA-2	Y	-3.009	-2.738	34.304	38.592
82	SA-2	Y	-2.738	-1.704	38.592	42.88
83	SA-2	Y	-1.704	-.712	42.88	47.168
84	SA-2	Y	-.712	-.013	47.168	51.456
85	GRAT2	Y	-.163	-.337	0	4.296
86	GRAT2	Y	-.337	-.745	4.296	8.593
87	GRAT2	Y	-.745	-1.209	8.593	12.889
88	GRAT2	Y	-1.209	-1.541	12.889	17.186
89	GRAT2	Y	-1.541	-1.67	17.186	21.482
90	GRAT2	Y	-1.67	-1.45	21.482	25.779
91	GRAT2	Y	-1.45	-1.166	25.779	30.075
92	GRAT2	Y	-1.166	-1.113	30.075	34.372
93	GRAT2	Y	-1.113	-1.028	34.372	38.668
94	GRAT2	Y	-1.028	-.765	38.668	42.965
95	GRAT2	Y	-.765	-.606	42.965	47.261
96	GRAT2	Y	-.606	-.421	47.261	51.558
97	GRAT2	Y	-.421	-.151	51.558	55.854
98	GRAT3	Y	-.151	-.421	0	4.296
99	GRAT3	Y	-.421	-.607	4.296	8.593
100	GRAT3	Y	-.607	-.769	8.593	12.889

Member Distributed Loads (BLC 199 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,....]	End Magnitude[lb/ft,....]	Start Location[in, %]	End Location[in, %]
101	GRAT3	Y	- .769	-1.026	12.889	17.186
102	GRAT3	Y	-1.026	-1.112	17.186	21.482
103	GRAT3	Y	-1.112	-1.174	21.482	25.779
104	GRAT3	Y	-1.174	-1.462	25.779	30.075
105	GRAT3	Y	-1.462	-1.636	30.075	34.372
106	GRAT3	Y	-1.636	-1.491	34.372	38.668
107	GRAT3	Y	-1.491	-1.297	38.668	42.965
108	GRAT3	Y	-1.297	-.841	42.965	47.261
109	GRAT3	Y	-.841	-.339	47.261	51.558
110	GRAT3	Y	-.339	-.164	51.558	55.854
111	BRACE-3	Y	-.006	-.282	0	4.094
112	BRACE-3	Y	-.282	-.659	4.094	8.187
113	BRACE-3	Y	-.659	-1.043	8.187	12.281
114	BRACE-3	Y	-1.043	-1.476	12.281	16.374
115	BRACE-3	Y	-1.476	-1.428	16.374	20.468
116	BRACE-3	Y	-1.428	-.887	20.468	24.561
117	BRACE-3	Y	-.887	-.323	24.561	28.655
118	BRACE-3	Y	-.323	-.219	28.655	32.748
119	BRACE-3	Y	-.219	-.9	32.748	36.842
120	BRACE-3	Y	-.9	-1.476	36.842	40.935
121	BRACE-3	Y	-1.476	-1.406	40.935	45.029
122	BRACE-3	Y	-1.406	-1.035	45.029	49.122
123	BRACE-3	Y	-1.035	-.647	49.122	53.216
124	BRACE-3	Y	-.647	-.277	53.216	57.31
125	BRACE-3	Y	-.277	-.006	57.31	61.403
126	CORNER-PL-3	Y	-.119	-.119	0	3.82
127	CORNER-PL-3	Y	-.119	-.119	3.82	7.64
128	SA-3	Y	-.802	-.877	0	4.288
129	SA-3	Y	-.877	-1.086	4.288	8.576
130	SA-3	Y	-1.086	-1.583	8.576	12.864
131	SA-3	Y	-1.583	-1.785	12.864	17.152
132	SA-3	Y	-1.785	-2.006	17.152	21.44
133	SA-3	Y	-2.006	-2.512	21.44	25.728
134	SA-3	Y	-2.512	-2.742	25.728	30.016
135	SA-3	Y	-2.742	-3.009	30.016	34.304
136	SA-3	Y	-3.009	-2.738	34.304	38.592
137	SA-3	Y	-2.738	-1.704	38.592	42.88
138	SA-3	Y	-1.704	-.712	42.88	47.168
139	SA-3	Y	-.712	-.013	47.168	51.456
140	GRAT5	Y	-.163	-.337	0	4.296
141	GRAT5	Y	-.337	-.745	4.296	8.593
142	GRAT5	Y	-.745	-1.209	8.593	12.889
143	GRAT5	Y	-1.209	-1.541	12.889	17.186
144	GRAT5	Y	-1.541	-1.67	17.186	21.482
145	GRAT5	Y	-1.67	-1.45	21.482	25.779
146	GRAT5	Y	-1.45	-1.166	25.779	30.075
147	GRAT5	Y	-1.166	-1.113	30.075	34.372
148	GRAT5	Y	-1.113	-1.028	34.372	38.668
149	GRAT5	Y	-1.028	-.765	38.668	42.965
150	GRAT5	Y	-.765	-.606	42.965	47.261
151	GRAT5	Y	-.606	-.421	47.261	51.558
152	GRAT5	Y	-.421	-.151	51.558	55.854
153	GRAT4	Y	-.164	-.339	0	4.296
154	GRAT4	Y	-.339	-.841	4.296	8.593
155	GRAT4	Y	-.841	-1.297	8.593	12.889
156	GRAT4	Y	-1.297	-1.491	12.889	17.186
157	GRAT4	Y	-1.491	-1.636	17.186	21.482

Member Distributed Loads (BLC 199 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
158	GRAT4	Y	-1.636	-1.462	21.482	25.779
159	GRAT4	Y	-1.462	-1.174	25.779	30.075
160	GRAT4	Y	-1.174	-1.112	30.075	34.372
161	GRAT4	Y	-1.112	-1.026	34.372	38.668
162	GRAT4	Y	-1.026	-.769	38.668	42.965
163	GRAT4	Y	-.769	-.607	42.965	47.261
164	GRAT4	Y	-.607	-.421	47.261	51.558
165	GRAT4	Y	-.421	-.151	51.558	55.854

Member Distributed Loads (BLC 200 : BLC 14 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	BRACE-1	Y	-.077	-3.477	0	4.094
2	BRACE-1	Y	-3.477	-8.131	4.094	8.187
3	BRACE-1	Y	-8.131	-12.87	8.187	12.281
4	BRACE-1	Y	-12.87	-18.223	12.281	16.374
5	BRACE-1	Y	-18.223	-17.631	16.374	20.468
6	BRACE-1	Y	-17.631	-10.947	20.468	24.561
7	BRACE-1	Y	-10.947	-3.982	24.561	28.655
8	BRACE-1	Y	-3.982	-2.704	28.655	32.748
9	BRACE-1	Y	-2.704	-11.114	32.748	36.842
10	BRACE-1	Y	-11.114	-18.219	36.842	40.935
11	BRACE-1	Y	-18.219	-17.357	40.935	45.029
12	BRACE-1	Y	-17.357	-12.77	45.029	49.122
13	BRACE-1	Y	-12.77	-7.984	49.122	53.216
14	BRACE-1	Y	-7.984	-3.414	53.216	57.31
15	BRACE-1	Y	-3.414	-.077	57.31	61.403
16	CORNER-PL-1	Y	-1.47	-1.471	0	3.82
17	CORNER-PL-1	Y	-1.471	-1.472	3.82	7.64
18	SA-1	Y	-9.904	-10.825	0	4.288
19	SA-1	Y	-10.825	-13.408	4.288	8.576
20	SA-1	Y	-13.408	-19.537	8.576	12.864
21	SA-1	Y	-19.537	-22.035	12.864	17.152
22	SA-1	Y	-22.035	-24.763	17.152	21.44
23	SA-1	Y	-24.763	-31.01	21.44	25.728
24	SA-1	Y	-31.01	-33.845	25.728	30.016
25	SA-1	Y	-33.845	-37.134	30.016	34.304
26	SA-1	Y	-37.134	-33.79	34.304	38.592
27	SA-1	Y	-33.79	-21.034	38.592	42.88
28	SA-1	Y	-21.034	-8.792	42.88	47.168
29	SA-1	Y	-8.792	-.158	47.168	51.456
30	GRAT1	Y	-1.867	-5.192	0	4.296
31	GRAT1	Y	-5.192	-7.482	4.296	8.593
32	GRAT1	Y	-7.482	-9.443	8.593	12.889
33	GRAT1	Y	-9.443	-12.693	12.889	17.186
34	GRAT1	Y	-12.693	-13.743	17.186	21.482
35	GRAT1	Y	-13.743	-14.392	21.482	25.779
36	GRAT1	Y	-14.392	-17.9	25.779	30.075
37	GRAT1	Y	-17.9	-20.619	30.075	34.372
38	GRAT1	Y	-20.619	-19.017	34.372	38.668
39	GRAT1	Y	-19.017	-14.921	38.668	42.965
40	GRAT1	Y	-14.921	-9.193	42.965	47.261
41	GRAT1	Y	-9.193	-4.159	47.261	51.558
42	GRAT1	Y	-4.159	-2.014	51.558	55.854
43	GRAT6	Y	-1.865	-5.195	0	4.296
44	GRAT6	Y	-5.195	-7.498	4.296	8.593
45	GRAT6	Y	-7.498	-9.492	8.593	12.889

Member Distributed Loads (BLC 200 : BLC 14 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
46	GRAT6	Y	-9.492	-12.664	12.889	17.186
47	GRAT6	Y	-12.664	-13.728	17.186	21.482
48	GRAT6	Y	-13.728	-14.486	21.482	25.779
49	GRAT6	Y	-14.486	-18.05	25.779	30.075
50	GRAT6	Y	-18.05	-20.199	30.075	34.372
51	GRAT6	Y	-20.199	-18.407	34.372	38.668
52	GRAT6	Y	-18.407	-16.009	38.668	42.965
53	GRAT6	Y	-16.009	-10.378	42.965	47.261
54	GRAT6	Y	-10.378	-4.181	47.261	51.558
55	GRAT6	Y	-4.181	-2.027	51.558	55.854
56	BRACE-2	Y	-.077	-3.414	0	4.094
57	BRACE-2	Y	-3.414	-7.984	4.094	8.187
58	BRACE-2	Y	-7.984	-12.77	8.187	12.281
59	BRACE-2	Y	-12.77	-17.357	12.281	16.374
60	BRACE-2	Y	-17.357	-18.219	16.374	20.468
61	BRACE-2	Y	-18.219	-11.114	20.468	24.561
62	BRACE-2	Y	-11.114	-2.704	24.561	28.655
63	BRACE-2	Y	-2.704	-3.982	28.655	32.748
64	BRACE-2	Y	-3.982	-10.947	32.748	36.842
65	BRACE-2	Y	-10.947	-17.631	36.842	40.935
66	BRACE-2	Y	-17.631	-18.223	40.935	45.029
67	BRACE-2	Y	-18.223	-12.87	45.029	49.122
68	BRACE-2	Y	-12.87	-8.131	49.122	53.216
69	BRACE-2	Y	-8.131	-3.477	53.216	57.31
70	BRACE-2	Y	-3.477	-.077	57.31	61.403
71	CORNER-PL-2	Y	-1.47	-1.471	0	3.82
72	CORNER-PL-2	Y	-1.471	-1.472	3.82	7.64
73	SA-2	Y	-9.904	-10.825	0	4.288
74	SA-2	Y	-10.825	-13.408	4.288	8.576
75	SA-2	Y	-13.408	-19.537	8.576	12.864
76	SA-2	Y	-19.537	-22.035	12.864	17.152
77	SA-2	Y	-22.035	-24.763	17.152	21.44
78	SA-2	Y	-24.763	-31.01	21.44	25.728
79	SA-2	Y	-31.01	-33.845	25.728	30.016
80	SA-2	Y	-33.845	-37.134	30.016	34.304
81	SA-2	Y	-37.134	-33.79	34.304	38.592
82	SA-2	Y	-33.79	-21.034	38.592	42.88
83	SA-2	Y	-21.034	-8.792	42.88	47.168
84	SA-2	Y	-8.792	-.158	47.168	51.456
85	GRAT2	Y	-2.014	-4.159	0	4.296
86	GRAT2	Y	-4.159	-9.193	4.296	8.593
87	GRAT2	Y	-9.193	-14.921	8.593	12.889
88	GRAT2	Y	-14.921	-19.017	12.889	17.186
89	GRAT2	Y	-19.017	-20.619	17.186	21.482
90	GRAT2	Y	-20.619	-17.9	21.482	25.779
91	GRAT2	Y	-17.9	-14.392	25.779	30.075
92	GRAT2	Y	-14.392	-13.743	30.075	34.372
93	GRAT2	Y	-13.743	-12.693	34.372	38.668
94	GRAT2	Y	-12.693	-9.443	38.668	42.965
95	GRAT2	Y	-9.443	-7.482	42.965	47.261
96	GRAT2	Y	-7.482	-5.192	47.261	51.558
97	GRAT2	Y	-5.192	-1.867	51.558	55.854
98	GRAT3	Y	-1.865	-5.195	0	4.296
99	GRAT3	Y	-5.195	-7.498	4.296	8.593
100	GRAT3	Y	-7.498	-9.492	8.593	12.889
101	GRAT3	Y	-9.492	-12.664	12.889	17.186
102	GRAT3	Y	-12.664	-13.728	17.186	21.482

Member Distributed Loads (BLC 200 : BLC 14 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
103	GRAT3	Y	-13.728	-14.486	21.482	25.779
104	GRAT3	Y	-14.486	-18.05	25.779	30.075
105	GRAT3	Y	-18.05	-20.199	30.075	34.372
106	GRAT3	Y	-20.199	-18.407	34.372	38.668
107	GRAT3	Y	-18.407	-16.009	38.668	42.965
108	GRAT3	Y	-16.009	-10.378	42.965	47.261
109	GRAT3	Y	-10.378	-4.181	47.261	51.558
110	GRAT3	Y	-4.181	-2.027	51.558	55.854
111	BRACE-3	Y	-.077	-3.414	0	4.094
112	BRACE-3	Y	-3.414	-7.984	4.094	8.187
113	BRACE-3	Y	-7.984	-12.77	8.187	12.281
114	BRACE-3	Y	-12.77	-17.357	12.281	16.374
115	BRACE-3	Y	-17.357	-18.219	16.374	20.468
116	BRACE-3	Y	-18.219	-11.114	20.468	24.561
117	BRACE-3	Y	-11.114	-2.704	24.561	28.655
118	BRACE-3	Y	-2.704	-3.982	28.655	32.748
119	BRACE-3	Y	-3.982	-10.947	32.748	36.842
120	BRACE-3	Y	-10.947	-17.631	36.842	40.935
121	BRACE-3	Y	-17.631	-18.223	40.935	45.029
122	BRACE-3	Y	-18.223	-12.87	45.029	49.122
123	BRACE-3	Y	-12.87	-8.131	49.122	53.216
124	BRACE-3	Y	-8.131	-3.477	53.216	57.31
125	BRACE-3	Y	-3.477	-.077	57.31	61.403
126	CORNER-PL-3	Y	-1.472	-1.471	0	3.82
127	CORNER-PL-3	Y	-1.471	-1.47	3.82	7.64
128	SA-3	Y	-9.904	-10.825	0	4.288
129	SA-3	Y	-10.825	-13.408	4.288	8.576
130	SA-3	Y	-13.408	-19.537	8.576	12.864
131	SA-3	Y	-19.537	-22.035	12.864	17.152
132	SA-3	Y	-22.035	-24.763	17.152	21.44
133	SA-3	Y	-24.763	-31.01	21.44	25.728
134	SA-3	Y	-31.01	-33.845	25.728	30.016
135	SA-3	Y	-33.845	-37.134	30.016	34.304
136	SA-3	Y	-37.134	-33.79	34.304	38.592
137	SA-3	Y	-33.79	-21.034	38.592	42.88
138	SA-3	Y	-21.034	-8.792	42.88	47.168
139	SA-3	Y	-8.792	-.158	47.168	51.456
140	GRAT5	Y	-2.027	-4.181	0	4.296
141	GRAT5	Y	-4.181	-10.378	4.296	8.593
142	GRAT5	Y	-10.378	-16.009	8.593	12.889
143	GRAT5	Y	-16.009	-18.407	12.889	17.186
144	GRAT5	Y	-18.407	-20.199	17.186	21.482
145	GRAT5	Y	-20.199	-18.05	21.482	25.779
146	GRAT5	Y	-18.05	-14.486	25.779	30.075
147	GRAT5	Y	-14.486	-13.728	30.075	34.372
148	GRAT5	Y	-13.728	-12.664	34.372	38.668
149	GRAT5	Y	-12.664	-9.492	38.668	42.965
150	GRAT5	Y	-9.492	-7.498	42.965	47.261
151	GRAT5	Y	-7.498	-5.195	47.261	51.558
152	GRAT5	Y	-5.195	-1.865	51.558	55.854
153	GRAT4	Y	-2.014	-4.159	0	4.296
154	GRAT4	Y	-4.159	-9.193	4.296	8.593
155	GRAT4	Y	-9.193	-14.921	8.593	12.889
156	GRAT4	Y	-14.921	-19.017	12.889	17.186
157	GRAT4	Y	-19.017	-20.619	17.186	21.482
158	GRAT4	Y	-20.619	-17.9	21.482	25.779
159	GRAT4	Y	-17.9	-14.392	25.779	30.075

Member Distributed Loads (BLC 200 : BLC 14 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
160	GRAT4	Y	-14.392	-13.743	30.075	34.372
161	GRAT4	Y	-13.743	-12.693	34.372	38.668
162	GRAT4	Y	-12.693	-9.443	38.668	42.965
163	GRAT4	Y	-9.443	-7.482	42.965	47.261
164	GRAT4	Y	-7.482	-5.192	47.261	51.558
165	GRAT4	Y	-5.192	-1.867	51.558	55.854

Load Combinations

	Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
1	1.4D	Yes	Y		1	1.4									
2	1.2D + 1.0W (0 deg)	Yes	Y		1	1.2	2	1	175	1					
3	1.2D + 1.0W (30 d...	Yes	Y		1	1.2	3	1	176	1					
4	1.2D + 1.0W (60 d...	Yes	Y		1	1.2	4	1	177	1					
5	1.2D + 1.0W (90 d...	Yes	Y		1	1.2	5	1	178	1					
6	1.2D + 1.0W (120 ...	Yes	Y		1	1.2	6	1	179	1					
7	1.2D + 1.0W (150 ...	Yes	Y		1	1.2	7	1	180	1					
8	1.2D + 1.0W (180 ...	Yes	Y		1	1.2	8	1	181	1					
9	1.2D + 1.0W (210 ...	Yes	Y		1	1.2	9	1	182	1					
10	1.2D + 1.0W (240 ...	Yes	Y		1	1.2	10	1	183	1					
11	1.2D + 1.0W (270 ...	Yes	Y		1	1.2	11	1	184	1					
12	1.2D + 1.0W (300 ...	Yes	Y		1	1.2	12	1	185	1					
13	1.2D + 1.0W (330 ...	Yes	Y		1	1.2	13	1	186	1					
14	1.2D + Di + Wi (0 d...	Yes	Y		1	1.2	14	1	15	1	187	1			
15	1.2D + Di + Wi (30 ...	Yes	Y		1	1.2	14	1	16	1	188	1			
16	1.2D + Di + Wi (60 ...	Yes	Y		1	1.2	14	1	17	1	189	1			
17	1.2D + Di + Wi (90 ...	Yes	Y		1	1.2	14	1	18	1	190	1			
18	1.2D + Di + Wi (12...	Yes	Y		1	1.2	14	1	19	1	191	1			
19	1.2D + Di + Wi (15...	Yes	Y		1	1.2	14	1	20	1	192	1			
20	1.2D + Di + Wi (18...	Yes	Y		1	1.2	14	1	21	1	193	1			
21	1.2D + Di + Wi (21...	Yes	Y		1	1.2	14	1	22	1	194	1			
22	1.2D + Di + Wi (24...	Yes	Y		1	1.2	14	1	23	1	195	1			
23	1.2D + Di + Wi (27...	Yes	Y		1	1.2	14	1	24	1	196	1			
24	1.2D + Di + Wi (30...	Yes	Y		1	1.2	14	1	25	1	197	1			
25	1.2D + Di + Wi (33...	Yes	Y		1	1.2	14	1	26	1	198	1			
26	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	27	.097					
27	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	28	.097					
28	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	29	.097					
29	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	30	.097					
30	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	31	.097					
31	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	32	.097					
32	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	33	.097					
33	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	34	.097					
34	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	35	.097					
35	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	36	.097					
36	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	37	.097					
37	1.2D + 1.0 Ev + 1.0...	Yes	Y		1	1.2	1	.039	38	.097					
38	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	2	.058	175	.058			
39	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	3	.058	176	.058			
40	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	4	.058	177	.058			
41	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	5	.058	178	.058			
42	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	6	.058	179	.058			
43	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	7	.058	180	.058			
44	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	8	.058	181	.058			
45	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	9	.058	182	.058			
46	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	10	.058	183	.058			

Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
47	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	11	.058	184	.058				
48	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	12	.058	185	.058				
49	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.5	13	.058	186	.058				
50	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	2	.058	175	.058				
51	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	3	.058	176	.058				
52	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	4	.058	177	.058				
53	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	5	.058	178	.058				
54	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	6	.058	179	.058				
55	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	7	.058	180	.058				
56	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	8	.058	181	.058				
57	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	9	.058	182	.058				
58	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	10	.058	183	.058				
59	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	11	.058	184	.058				
60	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	12	.058	185	.058				
61	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	40	1.5	13	.058	186	.058				
62	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	2	.058	175	.058				
63	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	3	.058	176	.058				
64	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	4	.058	177	.058				
65	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	5	.058	178	.058				
66	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	6	.058	179	.058				
67	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	7	.058	180	.058				
68	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	8	.058	181	.058				
69	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	9	.058	182	.058				
70	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	10	.058	183	.058				
71	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	11	.058	184	.058				
72	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	12	.058	185	.058				
73	1.2D + 1.5Lm3 + 1...	Yes	Y		1	1.2	41	1.5	13	.058	186	.058				
74	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	2	.058	175	.058				
75	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	3	.058	176	.058				
76	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	4	.058	177	.058				
77	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	5	.058	178	.058				
78	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	6	.058	179	.058				
79	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	7	.058	180	.058				
80	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	8	.058	181	.058				
81	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	9	.058	182	.058				
82	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	10	.058	183	.058				
83	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	11	.058	184	.058				
84	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	12	.058	185	.058				
85	1.2D + 1.5Lm4 + 1...	Yes	Y		1	1.2	42	1.5	13	.058	186	.058				
86	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	2	.058	175	.058				
87	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	3	.058	176	.058				
88	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	4	.058	177	.058				
89	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	5	.058	178	.058				
90	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	6	.058	179	.058				
91	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	7	.058	180	.058				
92	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	8	.058	181	.058				
93	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	9	.058	182	.058				
94	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	10	.058	183	.058				
95	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	11	.058	184	.058				
96	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	12	.058	185	.058				
97	1.2D + 1.5Lm5 + 1...	Yes	Y		1	1.2	43	1.5	13	.058	186	.058				
98	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	2	.058	175	.058				
99	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	3	.058	176	.058				
100	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	4	.058	177	.058				
101	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	5	.058	178	.058				
102	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	6	.058	179	.058				
103	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	7	.058	180	.058				

Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
104	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	8	.058	181	.058				
105	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	9	.058	182	.058				
106	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	10	.058	183	.058				
107	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	11	.058	184	.058				
108	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	12	.058	185	.058				
109	1.2D + 1.5Lm6 + 1...	Yes	Y		1	1.2	44	1.5	13	.058	186	.058				
110	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	2	.058	175	.058				
111	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	3	.058	176	.058				
112	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	4	.058	177	.058				
113	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	5	.058	178	.058				
114	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	6	.058	179	.058				
115	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	7	.058	180	.058				
116	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	8	.058	181	.058				
117	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	9	.058	182	.058				
118	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	10	.058	183	.058				
119	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	11	.058	184	.058				
120	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	12	.058	185	.058				
121	1.2D + 1.5Lm7 + 1...	Yes	Y		1	1.2	45	1.5	13	.058	186	.058				
122	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	2	.058	175	.058				
123	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	3	.058	176	.058				
124	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	4	.058	177	.058				
125	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	5	.058	178	.058				
126	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	6	.058	179	.058				
127	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	7	.058	180	.058				
128	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	8	.058	181	.058				
129	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	9	.058	182	.058				
130	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	10	.058	183	.058				
131	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	11	.058	184	.058				
132	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	12	.058	185	.058				
133	1.2D + 1.5Lm8 + 1...	Yes	Y		1	1.2	46	1.5	13	.058	186	.058				
134	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	2	.058	175	.058				
135	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	3	.058	176	.058				
136	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	4	.058	177	.058				
137	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	5	.058	178	.058				
138	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	6	.058	179	.058				
139	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	7	.058	180	.058				
140	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	8	.058	181	.058				
141	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	9	.058	182	.058				
142	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	10	.058	183	.058				
143	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	11	.058	184	.058				
144	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	12	.058	185	.058				
145	1.2D + 1.5Lm9 + 1...	Yes	Y		1	1.2	47	1.5	13	.058	186	.058				
146	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	2	.058	175	.058				
147	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	3	.058	176	.058				
148	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	4	.058	177	.058				
149	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	5	.058	178	.058				
150	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	6	.058	179	.058				
151	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	7	.058	180	.058				
152	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	8	.058	181	.058				
153	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	9	.058	182	.058				
154	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	10	.058	183	.058				
155	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	11	.058	184	.058				
156	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	12	.058	185	.058				
157	1.2D + 1.5Lm10 + ...	Yes	Y		1	1.2	48	1.5	13	.058	186	.058				
158	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	2	.058	175	.058				
159	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	3	.058	176	.058				
160	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	4	.058	177	.058				

Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
161	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	5	.058	178	.058			
162	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	6	.058	179	.058			
163	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	7	.058	180	.058			
164	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	8	.058	181	.058			
165	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	9	.058	182	.058			
166	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	10	.058	183	.058			
167	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	11	.058	184	.058			
168	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	12	.058	185	.058			
169	1.2D + 1.5Lm11 + ...	Yes	Y		1	1.2	49	1.5	13	.058	186	.058			
170	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	2	.058	175	.058			
171	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	3	.058	176	.058			
172	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	4	.058	177	.058			
173	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	5	.058	178	.058			
174	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	6	.058	179	.058			
175	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	7	.058	180	.058			
176	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	8	.058	181	.058			
177	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	9	.058	182	.058			
178	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	10	.058	183	.058			
179	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	11	.058	184	.058			
180	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	12	.058	185	.058			
181	1.2D + 1.5Lm12 + ...	Yes	Y		1	1.2	50	1.5	13	.058	186	.058			
182	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	2	.058	175	.058			
183	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	3	.058	176	.058			
184	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	4	.058	177	.058			
185	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	5	.058	178	.058			
186	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	6	.058	179	.058			
187	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	7	.058	180	.058			
188	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	8	.058	181	.058			
189	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	9	.058	182	.058			
190	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	10	.058	183	.058			
191	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	11	.058	184	.058			
192	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	12	.058	185	.058			
193	1.2D + 1.5Lm13 + ...	Yes	Y		1	1.2	51	1.5	13	.058	186	.058			
194	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	2	.058	175	.058			
195	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	3	.058	176	.058			
196	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	4	.058	177	.058			
197	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	5	.058	178	.058			
198	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	6	.058	179	.058			
199	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	7	.058	180	.058			
200	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	8	.058	181	.058			
201	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	9	.058	182	.058			
202	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	10	.058	183	.058			
203	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	11	.058	184	.058			
204	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	12	.058	185	.058			
205	1.2D + 1.5Lm14 + ...		Y		1	1.2	52	1.5	13	.058	186	.058			
206	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	2	.058	175	.058			
207	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	3	.058	176	.058			
208	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	4	.058	177	.058			
209	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	5	.058	178	.058			
210	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	6	.058	179	.058			
211	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	7	.058	180	.058			
212	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	8	.058	181	.058			
213	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	9	.058	182	.058			
214	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	10	.058	183	.058			
215	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	11	.058	184	.058			
216	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	12	.058	185	.058			
217	1.2D + 1.5Lm15 + ...		Y		1	1.2	53	1.5	13	.058	186	.058			

Load Combinations (Continued)

	Description	Solve	P	Delta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
218	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	2	.058	175	.058				
219	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	3	.058	176	.058				
220	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	4	.058	177	.058				
221	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	5	.058	178	.058				
222	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	6	.058	179	.058				
223	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	7	.058	180	.058				
224	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	8	.058	181	.058				
225	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	9	.058	182	.058				
226	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	10	.058	183	.058				
227	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	11	.058	184	.058				
228	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	12	.058	185	.058				
229	1.2D + 1.5Lm16 + ...	Y			1	1.2	54	1.5	13	.058	186	.058				
230	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	2	.058	175	.058				
231	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	3	.058	176	.058				
232	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	4	.058	177	.058				
233	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	5	.058	178	.058				
234	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	6	.058	179	.058				
235	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	7	.058	180	.058				
236	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	8	.058	181	.058				
237	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	9	.058	182	.058				
238	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	10	.058	183	.058				
239	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	11	.058	184	.058				
240	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	12	.058	185	.058				
241	1.2D + 1.5Lm17 + ...	Y			1	1.2	55	1.5	13	.058	186	.058				
242	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	2	.058	175	.058				
243	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	3	.058	176	.058				
244	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	4	.058	177	.058				
245	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	5	.058	178	.058				
246	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	6	.058	179	.058				
247	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	7	.058	180	.058				
248	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	8	.058	181	.058				
249	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	9	.058	182	.058				
250	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	10	.058	183	.058				
251	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	11	.058	184	.058				
252	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	12	.058	185	.058				
253	1.2D + 1.5Lm18 + ...	Y			1	1.2	56	1.5	13	.058	186	.058				
254	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	2	.058	175	.058				
255	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	3	.058	176	.058				
256	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	4	.058	177	.058				
257	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	5	.058	178	.058				
258	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	6	.058	179	.058				
259	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	7	.058	180	.058				
260	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	8	.058	181	.058				
261	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	9	.058	182	.058				
262	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	10	.058	183	.058				
263	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	11	.058	184	.058				
264	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	12	.058	185	.058				
265	1.2D + 1.5Lm19 + ...	Y			1	1.2	57	1.5	13	.058	186	.058				
266	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	2	.058	175	.058				
267	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	3	.058	176	.058				
268	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	4	.058	177	.058				
269	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	5	.058	178	.058				
270	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	6	.058	179	.058				
271	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	7	.058	180	.058				
272	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	8	.058	181	.058				
273	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	9	.058	182	.058				
274	1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	10	.058	183	.058				

Load Combinations (Continued)

Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
275 1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	11	.058	184	.058					
276 1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	12	.058	185	.058					
277 1.2D + 1.5Lm20 + ...	Y			1	1.2	58	1.5	13	.058	186	.058					
278 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	2	.058	175	.058					
279 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	3	.058	176	.058					
280 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	4	.058	177	.058					
281 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	5	.058	178	.058					
282 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	6	.058	179	.058					
283 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	7	.058	180	.058					
284 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	8	.058	181	.058					
285 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	9	.058	182	.058					
286 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	10	.058	183	.058					
287 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	11	.058	184	.058					
288 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	12	.058	185	.058					
289 1.2D + 1.5Lm21 + ...	Y			1	1.2	59	1.5	13	.058	186	.058					
290 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	2	.058	175	.058					
291 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	3	.058	176	.058					
292 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	4	.058	177	.058					
293 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	5	.058	178	.058					
294 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	6	.058	179	.058					
295 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	7	.058	180	.058					
296 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	8	.058	181	.058					
297 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	9	.058	182	.058					
298 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	10	.058	183	.058					
299 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	11	.058	184	.058					
300 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	12	.058	185	.058					
301 1.2D + 1.5Lm22 + ...	Y			1	1.2	60	1.5	13	.058	186	.058					
302 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	2	.058	175	.058					
303 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	3	.058	176	.058					
304 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	4	.058	177	.058					
305 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	5	.058	178	.058					
306 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	6	.058	179	.058					
307 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	7	.058	180	.058					
308 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	8	.058	181	.058					
309 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	9	.058	182	.058					
310 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	10	.058	183	.058					
311 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	11	.058	184	.058					
312 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	12	.058	185	.058					
313 1.2D + 1.5Lm23 + ...	Y			1	1.2	61	1.5	13	.058	186	.058					
314 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	2	.058	175	.058					
315 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	3	.058	176	.058					
316 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	4	.058	177	.058					
317 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	5	.058	178	.058					
318 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	6	.058	179	.058					
319 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	7	.058	180	.058					
320 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	8	.058	181	.058					
321 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	9	.058	182	.058					
322 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	10	.058	183	.058					
323 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	11	.058	184	.058					
324 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	12	.058	185	.058					
325 1.2D + 1.5Lm24 + ...	Y			1	1.2	62	1.5	13	.058	186	.058					
326 1.2D + 1.5Lm25 + ...	Y			1	1.2	63	1.5	2	.058	175	.058					
327 1.2D + 1.5Lm25 + ...	Y			1	1.2	63	1.5	3	.058	176	.058					
328 1.2D + 1.5Lm25 + ...	Y			1	1.2	63	1.5	4	.058	177	.058					
329 1.2D + 1.5Lm25 + ...	Y			1	1.2	63	1.5	5	.058	178	.058					
330 1.2D + 1.5Lm25 + ...	Y			1	1.2	63	1.5	6	.058	179	.058					
331 1.2D + 1.5Lm25 + ...	Y			1	1.2	63	1.5	7	.058	180	.058					

Load Combinations (Continued)

Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
332 1.2D + 1.5Lm25 + ...	Y		1	1.2	63	1.5	8	.058	181	.058			
333 1.2D + 1.5Lm25 + ...	Y		1	1.2	63	1.5	9	.058	182	.058			
334 1.2D + 1.5Lm25 + ...	Y		1	1.2	63	1.5	10	.058	183	.058			
335 1.2D + 1.5Lm25 + ...	Y		1	1.2	63	1.5	11	.058	184	.058			
336 1.2D + 1.5Lm25 + ...	Y		1	1.2	63	1.5	12	.058	185	.058			
337 1.2D + 1.5Lm25 + ...	Y		1	1.2	63	1.5	13	.058	186	.058			
338 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	2	.058	175	.058			
339 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	3	.058	176	.058			
340 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	4	.058	177	.058			
341 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	5	.058	178	.058			
342 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	6	.058	179	.058			
343 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	7	.058	180	.058			
344 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	8	.058	181	.058			
345 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	9	.058	182	.058			
346 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	10	.058	183	.058			
347 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	11	.058	184	.058			
348 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	12	.058	185	.058			
349 1.2D + 1.5Lm26 + ...	Y		1	1.2	64	1.5	13	.058	186	.058			
350 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	2	.058	175	.058			
351 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	3	.058	176	.058			
352 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	4	.058	177	.058			
353 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	5	.058	178	.058			
354 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	6	.058	179	.058			
355 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	7	.058	180	.058			
356 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	8	.058	181	.058			
357 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	9	.058	182	.058			
358 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	10	.058	183	.058			
359 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	11	.058	184	.058			
360 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	12	.058	185	.058			
361 1.2D + 1.5Lm27 + ...	Y		1	1.2	65	1.5	13	.058	186	.058			
362 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	2	.058	175	.058			
363 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	3	.058	176	.058			
364 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	4	.058	177	.058			
365 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	5	.058	178	.058			
366 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	6	.058	179	.058			
367 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	7	.058	180	.058			
368 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	8	.058	181	.058			
369 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	9	.058	182	.058			
370 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	10	.058	183	.058			
371 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	11	.058	184	.058			
372 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	12	.058	185	.058			
373 1.2D + 1.5Lm28 + ...	Y		1	1.2	66	1.5	13	.058	186	.058			
374 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	2	.058	175	.058			
375 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	3	.058	176	.058			
376 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	4	.058	177	.058			
377 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	5	.058	178	.058			
378 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	6	.058	179	.058			
379 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	7	.058	180	.058			
380 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	8	.058	181	.058			
381 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	9	.058	182	.058			
382 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	10	.058	183	.058			
383 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	11	.058	184	.058			
384 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	12	.058	185	.058			
385 1.2D + 1.5Lm29 + ...	Y		1	1.2	67	1.5	13	.058	186	.058			
386 1.2D + 1.5Lm30 + ...	Y		1	1.2	68	1.5	2	.058	175	.058			
387 1.2D + 1.5Lm30 + ...	Y		1	1.2	68	1.5	3	.058	176	.058			
388 1.2D + 1.5Lm30 + ...	Y		1	1.2	68	1.5	4	.058	177	.058			

Load Combinations (Continued)

Description	Solve	P	Delta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
389 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	5	.058	178	.058				
390 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	6	.058	179	.058				
391 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	7	.058	180	.058				
392 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	8	.058	181	.058				
393 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	9	.058	182	.058				
394 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	10	.058	183	.058				
395 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	11	.058	184	.058				
396 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	12	.058	185	.058				
397 1.2D + 1.5Lm30 + ...	Y				1	1.2	68	1.5	13	.058	186	.058				
398 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	2	.058	175	.058				
399 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	3	.058	176	.058				
400 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	4	.058	177	.058				
401 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	5	.058	178	.058				
402 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	6	.058	179	.058				
403 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	7	.058	180	.058				
404 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	8	.058	181	.058				
405 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	9	.058	182	.058				
406 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	10	.058	183	.058				
407 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	11	.058	184	.058				
408 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	12	.058	185	.058				
409 1.2D + 1.5Lm31 + ...	Y				1	1.2	69	1.5	13	.058	186	.058				
410 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	2	.058	175	.058				
411 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	3	.058	176	.058				
412 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	4	.058	177	.058				
413 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	5	.058	178	.058				
414 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	6	.058	179	.058				
415 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	7	.058	180	.058				
416 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	8	.058	181	.058				
417 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	9	.058	182	.058				
418 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	10	.058	183	.058				
419 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	11	.058	184	.058				
420 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	12	.058	185	.058				
421 1.2D + 1.5Lm32 + ...	Y				1	1.2	70	1.5	13	.058	186	.058				
422 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	2	.058	175	.058				
423 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	3	.058	176	.058				
424 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	4	.058	177	.058				
425 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	5	.058	178	.058				
426 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	6	.058	179	.058				
427 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	7	.058	180	.058				
428 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	8	.058	181	.058				
429 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	9	.058	182	.058				
430 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	10	.058	183	.058				
431 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	11	.058	184	.058				
432 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	12	.058	185	.058				
433 1.2D + 1.5Lm33 + ...	Y				1	1.2	71	1.5	13	.058	186	.058				
434 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	2	.058	175	.058				
435 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	3	.058	176	.058				
436 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	4	.058	177	.058				
437 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	5	.058	178	.058				
438 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	6	.058	179	.058				
439 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	7	.058	180	.058				
440 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	8	.058	181	.058				
441 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	9	.058	182	.058				
442 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	10	.058	183	.058				
443 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	11	.058	184	.058				
444 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	12	.058	185	.058				
445 1.2D + 1.5Lm34 + ...	Y				1	1.2	72	1.5	13	.058	186	.058				

Load Combinations (Continued)

	Description	Solve	P	Delta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
446	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	2	.058	175	.058			
447	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	3	.058	176	.058			
448	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	4	.058	177	.058			
449	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	5	.058	178	.058			
450	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	6	.058	179	.058			
451	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	7	.058	180	.058			
452	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	8	.058	181	.058			
453	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	9	.058	182	.058			
454	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	10	.058	183	.058			
455	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	11	.058	184	.058			
456	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	12	.058	185	.058			
457	1.2D + 1.5Lm35 + ...		Y		1	1.2	73	1.5	13	.058	186	.058			
458	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	2	.058	175	.058			
459	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	3	.058	176	.058			
460	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	4	.058	177	.058			
461	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	5	.058	178	.058			
462	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	6	.058	179	.058			
463	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	7	.058	180	.058			
464	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	8	.058	181	.058			
465	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	9	.058	182	.058			
466	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	10	.058	183	.058			
467	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	11	.058	184	.058			
468	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	12	.058	185	.058			
469	1.2D + 1.5Lm36 + ...		Y		1	1.2	74	1.5	13	.058	186	.058			
470	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	75	1.5							
471	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	76	1.5							
472	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	77	1.5							
473	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	78	1.5							
474	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	79	1.5							
475	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	80	1.5							
476	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	81	1.5							
477	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	82	1.5							
478	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	83	1.5							
479	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	84	1.5							
480	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	85	1.5							
481	1.2D + 1.5Lv (Posit...	Yes	Y		1	1.2	86	1.5							
482	1.2D + 1.5Lv (Posit...		Y		1	1.2	87	1.5							
483	1.2D + 1.5Lv (Posit...		Y		1	1.2	88	1.5							
484	1.2D + 1.5Lv (Posit...		Y		1	1.2	89	1.5							
485	1.2D + 1.5Lv (Posit...		Y		1	1.2	90	1.5							
486	1.2D + 1.5Lv (Posit...		Y		1	1.2	91	1.5							
487	1.2D + 1.5Lv (Posit...		Y		1	1.2	92	1.5							
488	1.2D + 1.5Lv (Posit...		Y		1	1.2	93	1.5							
489	1.2D + 1.5Lv (Posit...		Y		1	1.2	94	1.5							
490	1.2D + 1.5Lv (Posit...		Y		1	1.2	95	1.5							
491	1.2D + 1.5Lv (Posit...		Y		1	1.2	96	1.5							
492	1.2D + 1.5Lv (Posit...		Y		1	1.2	97	1.5							
493	1.2D + 1.5Lv (Posit...		Y		1	1.2	98	1.5							
494	1.2D + 1.5Lv (Posit...		Y		1	1.2	99	1.5							
495	1.2D + 1.5Lv (Posit...		Y		1	1.2	100	1.5							
496	1.2D + 1.5Lv (Posit...		Y		1	1.2	101	1.5							
497	1.2D + 1.5Lv (Posit...		Y		1	1.2	102	1.5							
498	1.2D + 1.5Lv (Posit...		Y		1	1.2	103	1.5							
499	1.2D + 1.5Lv (Posit...		Y		1	1.2	104	1.5							
500	1.2D + 1.5Lv (Posit...		Y		1	1.2	105	1.5							
501	1.2D + 1.5Lv (Posit...		Y		1	1.2	106	1.5							
502	1.2D + 1.5Lv (Posit...		Y		1	1.2	107	1.5							

Load Combinations (Continued)

Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
503 1.2D + 1.5Lv (Posit...	Y		1	1.2	108	1.5							
504 1.2D + 1.5Lv (Posit...	Y		1	1.2	109	1.5							
505 1.2D + 1.5Lv (Posit...	Y		1	1.2	110	1.5							
506 1.2D + 1.5Lv (Posit...	Y		1	1.2	111	1.5							
507 1.2D + 1.5Lv (Posit...	Y		1	1.2	112	1.5							
508 1.2D + 1.5Lv (Posit...	Y		1	1.2	113	1.5							
509 1.2D + 1.5Lv (Posit...	Y		1	1.2	114	1.5							
510 1.2D + 1.5Lv (Posit...	Y		1	1.2	115	1.5							
511 1.2D + 1.5Lv (Posit...	Y		1	1.2	116	1.5							
512 1.2D + 1.5Lv (Posit...	Y		1	1.2	117	1.5							
513 1.2D + 1.5Lv (Posit...	Y		1	1.2	118	1.5							
514 1.2D + 1.5Lv (Posit...	Y		1	1.2	119	1.5							
515 1.2D + 1.5Lv (Posit...	Y		1	1.2	120	1.5							
516 1.2D + 1.5Lv (Posit...	Y		1	1.2	121	1.5							
517 1.2D + 1.5Lv (Posit...	Y		1	1.2	122	1.5							
518 1.2D + 1.5Lv (Posit...	Y		1	1.2	123	1.5							
519 1.2D + 1.5Lv (Posit...	Y		1	1.2	124	1.5							
520 1.2D + 1.5Lv (Posit...	Y		1	1.2	125	1.5							
521 1.2D + 1.5Lv (Posit...	Y		1	1.2	126	1.5							
522 1.2D + 1.5Lv (Posit...	Y		1	1.2	127	1.5							
523 1.2D + 1.5Lv (Posit...	Y		1	1.2	128	1.5							
524 1.2D + 1.5Lv (Posit...	Y		1	1.2	129	1.5							
525 1.2D + 1.5Lv (Posit...	Y		1	1.2	130	1.5							
526 1.2D + 1.5Lv (Posit...	Y		1	1.2	131	1.5							
527 1.2D + 1.5Lv (Posit...	Y		1	1.2	132	1.5							
528 1.2D + 1.5Lv (Posit...	Y		1	1.2	133	1.5							
529 1.2D + 1.5Lv (Posit...	Y		1	1.2	134	1.5							
530 1.2D + 1.5Lv (Posit...	Y		1	1.2	135	1.5							
531 1.2D + 1.5Lv (Posit...	Y		1	1.2	136	1.5							
532 1.2D + 1.5Lv (Posit...	Y		1	1.2	137	1.5							
533 1.2D + 1.5Lv (Posit...	Y		1	1.2	138	1.5							
534 1.2D + 1.5Lv (Posit...	Y		1	1.2	139	1.5							
535 1.2D + 1.5Lv (Posit...	Y		1	1.2	140	1.5							
536 1.2D + 1.5Lv (Posit...	Y		1	1.2	141	1.5							
537 1.2D + 1.5Lv (Posit...	Y		1	1.2	142	1.5							
538 1.2D + 1.5Lv (Posit...	Y		1	1.2	143	1.5							
539 1.2D + 1.5Lv (Posit...	Y		1	1.2	144	1.5							
540 1.2D + 1.5Lv (Posit...	Y		1	1.2	145	1.5							
541 1.2D + 1.5Lv (Posit...	Y		1	1.2	146	1.5							
542 1.2D + 1.5Lv (Posit...	Y		1	1.2	147	1.5							
543 1.2D + 1.5Lv (Posit...	Y		1	1.2	148	1.5							
544 1.2D + 1.5Lv (Posit...	Y		1	1.2	149	1.5							
545 1.2D + 1.5Lv (Posit...	Y		1	1.2	150	1.5							
546 1.2D + 1.5Lv (Posit...	Y		1	1.2	151	1.5							
547 1.2D + 1.5Lv (Posit...	Y		1	1.2	152	1.5							
548 1.2D + 1.5Lv (Posit...	Y		1	1.2	153	1.5							
549 1.2D + 1.5Lv (Posit...	Y		1	1.2	154	1.5							
550 1.2D + 1.5Lv (Posit...	Y		1	1.2	155	1.5							
551 1.2D + 1.5Lv (Posit...	Y		1	1.2	156	1.5							
552 1.2D + 1.5Lv (Posit...	Y		1	1.2	157	1.5							
553 1.2D + 1.5Lv (Posit...	Y		1	1.2	158	1.5							
554 1.2D + 1.5Lv (Posit...	Y		1	1.2	159	1.5							
555 1.2D + 1.5Lv (Posit...	Y		1	1.2	160	1.5							
556 1.2D + 1.5Lv (Posit...	Y		1	1.2	161	1.5							
557 1.2D + 1.5Lv (Posit...	Y		1	1.2	162	1.5							
558 1.2D + 1.5Lv (Posit...	Y		1	1.2	163	1.5							
559 1.2D + 1.5Lv (Posit...	Y		1	1.2	164	1.5							

Load Combinations (Continued)

Description	Solve	PDelta	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...
560 1.2D + 1.5Lv (Posit...		Y		1	1.2	165	1.5								
561 1.2D + 1.5Lv (Posit...		Y		1	1.2	166	1.5								
562 1.2D + 1.5Lv (Posit...		Y		1	1.2	167	1.5								
563 1.2D + 1.5Lv (Posit...		Y		1	1.2	168	1.5								
564 1.2D + 1.5Lv (Posit...		Y		1	1.2	169	1.5								
565 1.2D + 1.5Lv (Posit...		Y		1	1.2	170	1.5								
566 1.2D + 1.5Lv (Posit...		Y		1	1.2	171	1.5								
567 1.2D + 1.5Lv (Posit...		Y		1	1.2	172	1.5								
568 1.2D + 1.5Lv (Posit...		Y		1	1.2	173	1.5								
569 1.2D + 1.5Lv (Posit...		Y		1	1.2	174	1.5								

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1 N26 max	1119.126	8	629.237	18	1780.769	12	-654.83	11	1056.775	9	-307.207	13
2 min	-1190.091	2	64.494	12	-1723.722	6	-3017.712	18	-1070.504	3	-1661.155	19
3 N20 max	1549.23	8	746.919	22	1790.611	10	3403.149	22	1443.055	13	-315.157	2
4 min	-1531.881	2	63.773	4	-1739.423	4	628.302	5	-1404.146	7	-2100.048	20
5 N14 max	2140.857	8	1009.557	14	1548.604	11	230.323	132	1602.306	5	4346.273	14
6 min	-2421.502	2	126.909	8	-1554.452	5	-206.714	138	-1577.177	11	873.218	8
7 N133 max	-630.669	8	2967.867	14	403.986	45	0	481	0	481	0	481
8 min	-3594.765	14	587.972	8	-469.067	75	0	1	0	1	0	1
9 N136 max	2060.133	21	2983.46	22	3002.845	23	0	481	0	481	0	481
10 min	301.887	3	650.804	4	561.15	5	0	1	0	1	0	1
11 N139A max	2085.085	19	3176.816	18	-569.614	11	0	481	0	481	0	481
12 min	289.859	13	658.04	12	-3266.724	17	0	1	0	1	0	1
13 Totals: max	5512.405	8	11311.892	19	5171.541	11						
14 min	-5512.406	2	2815.727	13	-5171.542	5						

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

Member	Shape	Code ...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [...]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1 GRAT5	L2x2x3	.389	54.109	16	.118	55.854	z	16	7911.602	23392.8	557.717	1239.29	3...	H2-1
2 GRAT4	L2x2x3	.385	54.109	24	.132	55.854	y	24	7911.602	23392.8	557.717	1239.29	3...	H2-1
3 GRAT2	L2x2x3	.369	54.109	20	.120	55.854	y	20	7911.602	23392.8	557.717	1239.29	3...	H2-1
4 GRAT3	L2x2x3	.348	1.745	24	.117	0	y	24	7911.602	23392.8	557.717	1239.29	3...	H2-1
5 BRACE-2	L3X3X3	.326	30.702	18	.034	0	y	17	25975.519	35316	1320.097	2439.697	1...	H2-1
6 CONN-PL-2...	PL 6x1/2	.321	1.92	17	.156	1.92	y	21	96298.758	97200	1012.5	12150	1...	H1-1b
7 BRACE-3	L3X3X3	.315	30.702	22	.034	61.403	y	19	25975.519	35316	1320.097	2390.605	1...	H2-1
8 CONN-PL-1...	PL 6x1/2	.313	1.92	23	.171	1.92	y	19	96298.758	97200	1012.5	12150	1...	H1-1b
9 GRAT1	L2x2x3	.311	1.745	20	.096	0	y	20	7911.602	23392.8	557.717	1239.29	3...	H2-1
10 CONN-PL-0-4	PL 6x1/2	.299	1.92	19	.144	1.92	y	15	96298.758	97200	1012.5	12150	1...	H1-1b
11 BRACE-1	L3X3X3	.298	30.702	23	.034	61.403	y	23	25975.519	35316	1320.097	2445.455	1...	H2-1
12 CONN-PL-1...	PL 6x1/2	.294	1.92	25	.177	1.92	y	17	96298.758	97200	1012.5	12150	1...	H1-1b
13 SA-3	HSS4X4X4	.294	64.32	17	.052	64.32	z	11	129360.14	139518	16180.5	16180.5	1...	H1-1b
14 GRAT6	L2x2x3	.286	1.745	16	.123	0	z	16	7911.602	23392.8	557.717	1235.087	2...	H2-1
15 FM-BOT-120	PIPE 3.0	.285	51	19	.142	55.5		24	58969.283	65205	5748.75	5748.75	1...	H1-1b
16 FM-BOT-240	PIPE 3.0	.281	51	21	.134	55.5		16	58969.283	65205	5748.75	5748.75	1...	H1-1b
17 FM-BOT-0	PIPE 3.0	.275	93	15	.139	88.5		20	58969.283	65205	5748.75	5748.75	1...	H1-1b
18 SA-2	HSS4X4X4	.269	64.32	20	.047	64.32	z	7	129360.14	139518	16180.5	16180.5	1...	H1-1b
19 CONN-PL-0-1	PL 6x1/2	.262	1.92	21	.156	1.92	y	25	96298.758	97200	1012.5	12150	1...	H1-1b
20 CONN-PL-2...	PL 6x1/2	.261	0	17	.164	2.4	y	21	95795.487	97200	1012.5	12150	2...	H1-1b
21 CONN-PL-1...	PL 6x1/2	.255	0	23	.178	2.4	y	19	95795.488	97200	1012.5	12150	2...	H1-1b
22 CONN-PL-0-3	PL 6x1/2	.250	0	19	.153	2.4	y	15	95795.488	97200	1012.5	12150	2...	H1-1b
23 CONN-PL-2...	PL 6x1/2	.245	1.92	15	.181	1.92	y	23	96298.758	97200	1012.5	12150	1...	H1-1b
24 SFS4	L2.5x2.5x3	.239	26.665	23	.009	0	z	14	15728.743	29192.4	872.574	1671.033	1...	H2-1

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

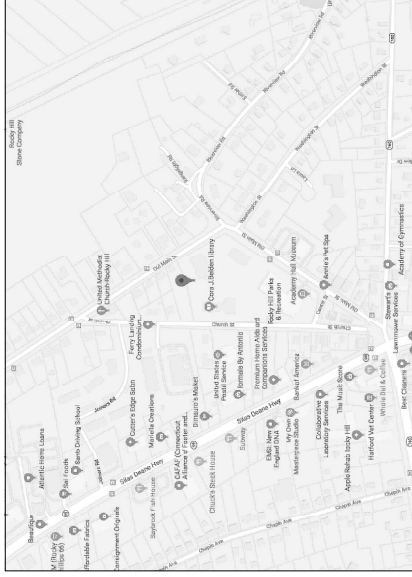
	Member	Shape	Code ...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [...]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
25	SFS5	L2.5x2.5x3	.236	26.684	17	.009	0	y	14	15714.443	29192.4	872.574	1670.777	1...	H2-1
26	MP7	PIPE 2.0	.236	48	12	.018	48		12	14916.096	32130	1871.625	1871.625	1...	H1-1b
27	MP8	PIPE 2.0	.236	48	12	.018	48		12	14916.096	32130	1871.625	1871.625	1...	H1-1b
28	MP10	PIPE 2.0	.236	48	4	.018	48		4	14916.096	32130	1871.625	1871.625	1...	H1-1b
29	MP12	PIPE 2.0	.236	48	4	.018	48		4	14916.096	32130	1871.625	1871.625	1...	H1-1b
30	MP4	PIPE 2.0	.236	48	8	.018	48		8	14916.096	32130	1871.625	1871.625	1...	H1-1b
31	MP3	PIPE 2.0	.236	48	8	.018	48		8	14916.096	32130	1871.625	1871.625	1...	H1-1b
32	SFS2	L2.5x2.5x3	.233	26.665	19	.008	0	z	22	15728.743	29192.4	872.574	1671.087	1...	H2-1
33	SA-1	HSS4X4X4	.232	64.32	21	.037	64.32	z	3	129360.14	139518	16180.5	16180.5	1...	H1-1b
34	CORNER-P...	PL 6x1/2	.228	3.82	13	.043	3.82	y	4...	83869.892	97200	1012.5	12150	1...	H1-1b
35	CONN-PL-1...	PL 6x1/2	.228	0	25	.185	2.4	y	17	95795.487	97200	1012.5	12150	2...	H1-1b
36	CORNER-P...	PL 6x1/2	.216	3.82	9	.045	3.82	y	4...	83869.892	97200	1012.5	12150	1...	H1-1b
37	SFS3	L2.5x2.5x3	.214	26.684	25	.009	0	y	22	15714.443	29192.4	872.574	1670.728	1...	H2-1
38	CONN-PL-0-2	PL 6x1/2	.204	0	21	.163	2.4	y	25	95795.487	97200	1012.5	12150	2...	H1-1b
39	CORNER-P...	PL 6x1/2	.202	3.82	5	.042	3.82	y	4...	83869.892	97200	1012.5	12150	1...	H1-1b
40	SFS1	L2.5x2.5x3	.197	26.684	21	.009	0	y	18	15714.443	29192.4	872.574	1670.781	1...	H2-1
41	SFS6	L2.5x2.5x3	.195	26.665	15	.009	0	z	18	15728.743	29192.4	872.574	1671.091	1...	H2-1
42	CONN-PL-2...	PL 6x1/2	.192	0	15	.189	2.4	y	23	95795.488	97200	1012.5	12150	2...	H1-1b
43	MP2	PIPE 2.0	.131	48	8	.010	48		8	14916.096	32130	1871.625	1871.625	1...	H1-1b
44	MP5	PIPE 2.0	.131	48	12	.010	48		12	14916.096	32130	1871.625	1871.625	1...	H1-1b
45	MP9	PIPE 2.0	.130	48	4	.010	48		4	14916.096	32130	1871.625	1871.625	1...	H1-1b
46	M92	PL 6x1/2	.044	1.44	12	.273	0	y	24	96691.773	97200	1012.5	12150	1...	H1-1b
47	M84	PL 6x1/2	.043	1.44	8	.246	0	y	21	96691.773	97200	1012.5	12150	1...	H1-1b
48	M86	PL 6x1/2	.041	1.44	4	.248	1.44	y	16	96691.774	97200	1012.5	12150	1...	H1-1b
49	M88	PL 6x1/2	.039	1.44	10	.257	0	y	17	96691.773	97200	1012.5	12150	1...	H1-1b
50	M90	PL 6x1/2	.038	1.44	12	.253	1.44	y	24	96691.774	97200	1012.5	12150	1...	H1-1b
51	M82	PL 6x1/2	.034	1.44	2	.216	1.44	y	20	96691.774	97200	1012.5	12150	1...	H1-1b
52	MP6	PIPE 2.0	.004	48	12	.004	48		12	14916.096	32130	1871.625	1871.625	1...	H1-1b
53	MP11	PIPE 2.0	.004	48	4	.004	48		4	14916.096	32130	1871.625	1871.625	1...	H1-1b
54	MP1	PIPE 2.0	.004	48	8	.004	48		8	14916.096	32130	1871.625	1871.625	1...	H1-1b
55	MP13	PIPE 2.0	.000	15.313	26	.000	15		26	29810.292	32130	1871.625	1871.625	1...	H1-1b

APPENDIX D
MOUNT MODIFICATION DESIGN DRAWING (MDD)

MOUNT MODIFICATION DRAWINGS

SITE INFORMATION

SITE NAME: ROCKY HILL/ RTE 160_1
SITE NUMBER: 827050
SITE ADDRESS: 699 OLD MAIN ST.
ROCKY HILL, CT 06067
HARTFORD COUNTY
COORDINATES: N 41° 40' 5.77"
W 72° 38' 16.93"
ETS JOB #: 196668.14B - MODIFICATION DESIGN DRAWINGS



DRIVING DIRECTIONS

1. FROM ROCKY HILL, HEAD SW ON CORNCRIB LN
 2. CORNCRIB LN TURNS LEFT AND BECOMES SILO DR
 3. TURN LEFT ONTO GILBERT AVE
 4. TURN RIGHT ONTO CT-160 E
 5. TURN LEFT ONTO OLD MAIN ST
 6. TURN LEFT TO STAY ON OLD MAIN ST
 7. TOWER WILL BE ON THE LEFT
- 0.2 MI
0.3 MI
0.3 MI
1.4 MI
0.2 MI
335 FT

PROJECT CONTACTS

1. CLIENT REPRESENTATIVE
KEVIN MORROW
CROWN CASTLE
3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277
(704) 405-6619
KEVIN.MORROW@CROWNCASTLE.COM
2. CONSTRUCTION MANAGER
TBD
3. ENGINEER OF RECORD (EOR)
FREDERIC G. BOST, P.E.
3227 WELLINGTON CT
RALEIGH, NC 27615
OFFICE: (919) 782-2710
GEOFF.BOST@ETS-PLLC.COM

TOWER INFORMATION

TOWER MANUFACTURER: PIROD
TOWER TYPE: MONOPOLE
TOWER HEIGHT: 148.5 FT
MOUNT HEIGHT: 140 FT

CODE COMPLIANCE

THIS REINFORCEMENT DESIGN IS BASED ON THE REQUIREMENTS OF TIA STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES USING:

BUILDING CODE: 2018 CONNECTICUT STATE
BUILDING CODE (2015 IBC)
TIA CODE: TIA-222-H
ULTIMATE WIND SPEED: 125 MPH
ICE THICKNESS: 2.00 IN
WIND SPEED WITH ICE: 50 MPH
EXPOSURE CATEGORY: C
RISK CATEGORY: II
TOPOGRAPHIC CATEGORY: 1

SHEET INDEX

SHEET #	REV.	DATE	DESCRIPTION
T-1	0	11/13/2019	TITLE PAGE
N-1	0	11/13/2019	PROJECT NOTES
S-1	0	11/13/2019	MOUNT MODIFICATION SCHEDULE
S-2	0	11/13/2019	MOUNT MODIFICATION DETAILS

PLANS PREPARED BY:

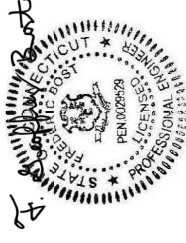


PLANS PREPARED FOR:



SITE NAME:
Rocky Hill/ Rte 160_1
SITE NUMBER:
827050
SITE ADDRESS:
699 OLD MAIN ST.
ROCKY HILL, CT 06067

SEAL:



11/13/2019

REV.	DATE	FOR CONSTRUCTION
0	11/13/2019	FOR CONSTRUCTION

DRAWN BY:	EDR	CHECKED BY:	HHT
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SHEET TITLE:

TITLE PAGE

SHEET NUMBER:

T-1

REVISION:

0

ETS #: 196668.14B

GENERAL NOTES:

1. ALL REFERENCES TO THE OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED CROWN CASTLE OR ITS DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE OR SHE HAS THE NECESSARY KNOWLEDGE, SKILL, EXPERIENCE, AND ABILITY, THAT HE OR SHE HAS THE PERSONNEL, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND THE STATE OF CONNECTICUT.
3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2018 CONNECTICUT STATE BUILDING CODE (2015 IBC).
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, JOISTS, OR THE DOWNS TO MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT AGENT FOR APPROVAL.
11. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
12. IF APPLICABLE, ALL CONCRETE WORK SHALL COMPLY TO LOCAL CODES AND THE ACI 318-14, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
13. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.

WELDING NOTES:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D11/D1.1M: 2015 "STRUCTURAL WELDING CODE-STEEL".
2. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
3. CONTRACTOR SHALL RETAIN AN AWS CERTIFIED WELD INSPECTOR TO PERFORM VISUAL INSPECTIONS ON FIELD WELDS. A LETTER AND REPORT SHALL BE ISSUED TO THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LETTER AND REPORT TO TOWER OWNER.
4. GRIND THE SURFACE ADJACENT TO THE WELD FOR A DISTANCE OF 2" MINIMUM ALL AROUND. GRIND THE SURFACE OF THE ROD TO BE INSTALLED FOR A DISTANCE OF 2" MINIMUM ALL AROUND THE AREA TO BE WELDED. ENSURE BOTH AREAS ARE 100% FREE OF ALL GALVANIZING, SURFACES TO BE WELDED SHALL BE FREE FROM SCALE, SLAG, RUST, MOISTURE, GREASE OR ANY OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING.
5. DO NOT WELD IF THE TEMPERATURE OF THE STEEL IN THE VICINITY OF THE WELD AREA IS BELOW 0°F. WHEN THE TEMPERATURE IS BETWEEN 0°F AND 32°F, PREHEAT AND MAINTAIN THE STEEL IN THE VICINITY OF THE WELD AREA AT 70°F DURING THE WELDING PROCESS.
6. DO NOT WELD ON WET OR FROST-COVERED SURFACES & PROVIDE ADEQUATE PROTECTION FROM HIGH WINDS.
7. FOR ALL WELDING, USE E70XX ELECTRODES.
8. AFTER FINAL INSPECTION, THE AREA OF THE WELDS, THE INSTALLATION AND ALL SURFACES DAMAGED BY WELDING OR GRINDING SHALL BE REPAIRED TO ORIGINAL CONDITION. THE REPAIRING SHALL BE PERFORMED BY BRUSH THE GALVANIZING COMPOUND SHALL CONTAIN A MINIMUM OF 95% ± PURE ZINC. THE FINISHED COATING SHALL BE A MINIMUM THICKNESS OF 3 MILS.

STRUCTURAL STEEL NOTES:

1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, 15TH EDITION.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

STRUCTURAL STEEL:	ASTM A36 (GR. 36)
• CHANNEL, SOLID ROUND, ANGLE, PLATE	ASTM A500 (GR. B-46)
• HSS (RECTANGULAR)	ASTM A500 (GR. B-42)
• HSS (ROUND)	ASTM A53 (GR. 35)
• PIPE	ASTM A325
• CONNECTION BOLTS	SAE J429 (GR. 2)
• U-BOLTS	ASTM A563
• NUTS	ASTM F436
• WASHERS	

3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, 15TH EDITION.
4. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
5. HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED. AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
6. REPAIR DAMAGED SURFACES WITH GALVANIZING OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED: SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIFE OFF EXCESS MATERIAL.
7. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
8. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST 1 1/2" FROM THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
10. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

BOLT TIGHTENING PROCEDURE:

1. CONNECTION BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS. LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:
2. FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

8.2.1 TURN-OF-THE-NUT TIGHTENING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT IN A MANNER THAT WILL MINIMIZE RELAXATION OF PREVIOUSLY PRETENSIONED BOLTS.

TIGHTEN CONNECTION BOLTS BY AISC – "TURN OF THE NUT" METHOD, USING THE CHART BELOW.

BOLT LENGTHS UP TO AND INCLUDING FOUR DIA.

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
3/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
1/2"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIA. BUT NOT EXCEEDING EIGHT DIA.

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
3/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
1/2"	BOLTS 3.25 TO 6.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.75 TO 7.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+½ TURN BEYOND SNUG TIGHT

4. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

PLANS PREPARED BY:

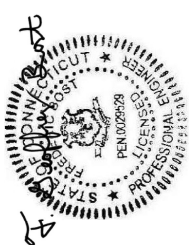


PLANS PREPARED FOR:



SITE NAME:
Rocky Hill/ Rte 160_1
SITE NUMBER:
827050
SITE ADDRESS:
690 OLD MAIN ST.
ROCKY HILL, CT 06067

SEAL:



1/1/3/2019

REV	DATE	FOR CONSTRUCTION
0	1/1/3/2019	FOR CONSTRUCTION
DRAWN BY:	EDR	CHECKED BY: HHT
SHEET TITLE:		

PROJECT NOTES

SHEET NUMBER:

N-1

REVISION:

0

ETS #: 196GG014B



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CROWN
CASTLE

SEAL:

[illegible]

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MOUNT MODIFICATION DETAILS

SHEET NUMBER:	REVISION:
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S-2

REVISION:

ETS #: 196668.14B



MATERIALS



SCALE: N.T.S.

SCALE: N.T.S.

Exhibit F

Power Density/RF Emissions Report

General Power Density

Site Name: Rocky Hill East, CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW CBRS	3600	1	50	50	140	0.0009	1.0	0.09%
VZW PCS	1970	1	4790	4790	140	0.0879	1.0	8.79%
VZW Cellular LTE	869	1	1510	1510	140	0.0277	0.579333333	4.78%
VZW Cellular	869	3	391	1173	140	0.0215	0.579333333	3.71%
VZW AWS	2145	1	4900	4900	140	0.0899	1.0	8.99%
VZW 700	746	1	2550	2550	140	0.0468	0.497333333	9.41%

Total Percentage of Maximum Permissible Exposure

35.78%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Section 1.13101 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used, including the following assumptions:

1. closest accessible point is distance from antenna to base of pole;
2. continuous transmission from all available channels at full power for indefinite time period; and,
3. all RF energy is assumed to be directed solely to the base of the pole.