Crown Castle
300 Barr Harbor Drive
Suite 300
Conshohocken, PA 19428

May 14, 2024

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

RE: **Notice of Exempt Modification for T-Mobile: CT11035E**
Crown Site ID# 841289
170 Ingham Hill Road, Old Saybrook, CT 06475
Latitude: 41° 18′ 35.55″/ Longitude: -72° 23′ 51.13″

Dear Ms. Bachman:

T-Mobile Northeast LLC currently maintains nine(9) antennas at the 141-foot mount on the existing 150-foot monopole tower located at 170 Ingham Hill Road, Old Saybrook, CT. The property is owned by Robert and Carol Lorenz and the tower is owned by Crown Castle. T-Mobile Northeast LLC now intends to remove six(6) antennas and replace with six(6) new antennas, and ancillary antenna equipment at the 141-ft level. This Eligible Facilities Request for antenna modification/proposal of an existing telecommunications facility includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:
Install New:
(3) AIR 6419 B41_TMO_CCIV2 ANTENNAS
(3) APXVLL19P_43-C-A20_TMO ANTENNAS
(3) RADIO 4460 B2/B25 B66_TMO RADIOS
(3) RADIO 4449 B71 B85A_T-MOBILE RADIOS
(3) RFS/CELWAVE -HB158-21U6S24-XXM_TMO_CABLES

Remove:
(3) ERICSSON – AIR21 KRC118023-1_B2A_B4P ANTENNAS
(3) ERICSSON – AIR21 KRC118023-1_B2P_B4A ANTENNAS
(3) GENERIC – TWIN STYLE 1B AWS TMAS
(6) ANDREW - LDF6-50A CABLES
(1) ERICSSON - 9X18 HCS CABLE
(3) ERICSSON - 6X12 HCS CABLES

Ground:
Install New:
(1) ERICSSON - ENCLOSURE 6160_V2 AC ENCLOSURE
(1) ERICSSON - B160 ENCLOSURE

(1) NEMA 3RSLACK BOX ON (N) H-FRAME
(1) WORK LIGHT W/ 30-60 MIN TIMER SWITCH

Remove:
(1) RBS 6102 CABINET

The facility was originally approved by the Connecticut Siting Council, Docket No. 051.2 on September 26, 1985.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Carl Fortuna, Jr., First Selectman, Town of Old Saybrook, Christina Costa, Town Planner, CZEO, Town of Old Saybrook and Robert and Carol Lorenz, Property Owner. Crown Castle is the tower owner.

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

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

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

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

Jenifer Bachi
Permitting Specialist
300 Barr Harbor Drive, Ste. 300
Conshohocken, PA 19428
(610) 635-3221
Jenifer.bachi@crowncastle.com

Attachments are as follows:

Exhibit A – Original Facility Approval
Exhibit B – Property Card
Exhibit C – Property Map
Exhibit D – Construction Drawings
Exhibit E – Structural Analysis Report
Exhibit F – Mount Analysis Report
Exhibit G – Power Density / RF Emissions Report
Exhibit H – Recipient Mailing Records
Check #2949970 for $625 Application Fee

cc:

via Fedex # 776362846552
Carl Fortuna, Jr., First Selectman
Town of Old Saybrook
302 Main Street
Old Saybrook, CT 06475
860-395-3123

Via Fedex # 776362931026
Christina Costa, Town Planner, CZEO
Town of Old Saybrook
302 Main Street
Old Saybrook, CT 06475
860-395-3131

Via Fedex # 776363058263
Robert & Carol Lorenz, Property Owner (via email only to carol.lorenz@roadrunner.com)
170 Ingham Hill Road
Old Saybrook, CT 06475

Crown Castle, Tower Owner

Check Application Fee $625

CROWN CASTLE USA INC.
2000 CORPORATE DRIVE
CANONSBURG PA 15317
724-416-2000

JPMorgan Chase Bank, N.A.
DALLAS TX
32-61/1110

2949970

SIX HUNDRED TWENTY FIVE AND 00/100**

DATE 04/01/24

$*******625.00

Pay To The Order Of
Connecticut Siting Council
Ten Franklin Square
New Britain CT 06051

2695915

Robt A Coll VP and Controller
Asst. Controller

VOID AFTER 180 DAYS

⑈2949970⑈ ⑆111000614⑆ 103410453⑈

Check No 2949970
Check Date 04/01/24

Stub 1 of 1

CKRQ 658837 ZN APP	03/27/24	Invoice Summ	625.00	625.00
			625.00	625.00

841289

Old ~~Sea~~ Saybrook

EXHIBIT A

Original Facility Approval

DOCKET NO. 51

AN APPLICATION SUBMITTED BY THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF FACILITIES TO PROVIDE CELLULAR SERVICE IN HARTFORD AND MIDDLESEX COUNTIES.	:	CONNECTICUT SITING COUNCIL
	:	September 26, 1985

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

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut be issued to Southern New England Telephone Company (SNET) for the construction, operation, and maintenance of a telecommunications tower and associated equipment building to provide cellular service at sites in Old Saybrook and Enfield, Connecticut.

The facilities shall be constructed, operated, and maintained as specified in this matter, and subject to the following conditions:

1. The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed
   a) 150' at the Old Saybrook site; and
   b) 150' at the Enfield site;
2. A fence not lower than eight feet shall surround each tower and its associated equipment building;
3. The applicant or its successor shall notify the Council if and when directional antennas or any other equipment is added to any of these facilities;
4. The applicant or its sucessor shall permit, in accordance with representations made by it during the proceeding, public or private entities to share space on the facilities, for due

consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing;

5. The facilities shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations;
6. The applicant shall submit a development and management plan (D&M) for the Old Saybrook site pursuant to sections 16-50j-75 through 16-50j-77 of the regulations of state agencies, except that irrelevant items in section 16-50j-76 need only be identified as such. The D&M plan shall include erosion control measures, reseeding plans, and tree removal plans. The applicant shall comply with the reporting requirements of section 16-50j-77 for both sites;
7. Construction activities shall take place during daylight working hours;
8. This decision and order shall be void and the towers and associated equipment approved herein shall be dismantled and removed, or reapplication for any new use shall be made to the Connecticut Siting Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction;
9. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the opinion and decision and order be served on each person listed below. A notice of the issuance shall be published in the

Hartford Courant, the Middletown Press, and the Old Saybrook Pictorial.

The parties to this proceeding are

Southern New England Telephone Company (Applicant)
227 Church Street
New Haven, Connecticut 06506
Attn: Peter J. Tyrrell
Senior Attorney
Room 314

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

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

Dated at New Britain, Connecticut, this 26th day of September, 1985.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
Commissioner Stanley Pac Designee: Christopher Cooper	Yes
Owen L. Clark	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
Pamela B. Katz	Yes
William H. Smith	Yes
Colin C. Tait	Absent

STATE OF CONNECTICUT)
: ss. New Britain, September 26, 1985
COUNTY OF HARTFORD)

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

ATTEST:

Christopher S. Wood, Executive Director
Connecticut Siting Council

EXHIBIT B

Property Card

170 INGHAM HILL RD

Location	170 INGHAM HILL RD	**MBLU**	051/ 033/ / /
Acct#	00559800	**Owner**	LORENZ CAROL J & ROBERT A
Assessment	$176,700	**Appraisal**	$303,200
PID	3322	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$163,400	$139,800	$303,200

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$114,400	$62,300	$176,700

Owner of Record

Owner	LORENZ CAROL J & ROBERT A	**Sale Price**	$0
Co-Owner		**Certificate**	
Address	P O BOX 351 CENTER OSSIPEE N H, NH 03814-0351	**Book & Page**	0211/0890
		Sale Date	03/15/1984

Ownership History

Ownership History
No Data for Ownership History

Building Information

Building 1 : Section 1

Year Built: 1959
Living Area: 1,383

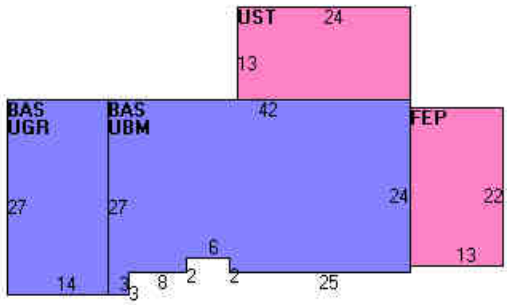
Building Attributes	
Field	**Description**
Style	Ranch
Model	Residential

Grade:	Average
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Wall 2	
Interior Flr 1	Vinyl/Asphalt
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	6 Rooms
Bath Style:	Average
Kitchen Style:	Modern
Num Kitchens	01
Cndtn	
Usrfld 103	
Usrfld 104	
Usrfld 105	
Usrfld 106	
Usrfld 107	
Num Park	
Fireplaces	
Usrfld 108	
Usrfld 101	
Usrfld 102	
Usrfld 100	
Usrfld 300	
Usrfld 301	

Building Photo

(http://images.vgsi.com/photos/OldSaybrookCTPhotos//\00\01\97\10.jpg)

Building Layout



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/3322_33

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,383	1,383
FEP	Porch, Enclosed,Framed	286	0
UBM	Basement, Unfinished	1,005	0
UGR	Garage, Unfinished	378	0
UST	Utility, Storage, Unfinished	312	0
		3,364	1,383

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #

FPL1	FIREPLACE 1 ST	1.00 UNITS	$2,300	1

Land

Land Use

Use Code	1010
Description	Single Family
Zone	AA-1

Land Line Valuation

Size (Acres)	11.8
Depth	0
Assessed Value	$62,300
Appraised Value	$139,800

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$163,400	$139,800	$303,200
2016	$147,200	$139,800	$287,000
2015	$145,700	$139,800	$285,500

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$114,400	$62,300	$176,700
2016	$103,000	$62,300	$165,300
2015	$102,000	$62,300	$164,300

INGHAM HILL RD

Location	INGHAM HILL RD	**MBLU**	052/ 04T/ / /
Acct#	00568700	**Owner**	LORENZ CAROL J & ROBERT A
Assessment	$545,300	**Appraisal**	$779,100
PID	3259	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$481,800	$297,300	$779,100
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$337,200	$208,100	$545,300

Owner of Record

Owner	LORENZ CAROL J & ROBERT A	**Sale Price**	$0
Co-Owner		**Certificate**	
Address	P O BOX 351 CENTER OSSIPEE, NH 03814	**Book & Page**	0211/0890
		Sale Date	01/20/1976

Ownership History

Ownership History
No Data for Ownership History

Building Information

Building 1 : Section 1

Year Built: 1990
Living Area: 880

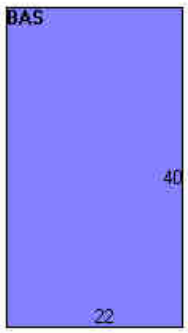
Building Attributes	
Field	**Description**
STYLE	Industrial
MODEL	Ind/Lg Com

Grade	Average
Stories:	1
Occupancy	1.00
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Forced Air-Duc
AC Type	Central
Struct Class	
Bldg Use	TEL REL TW
Total Rooms	
Total Bedrms	00
Total Baths	0
Usrfld 218	
Usrfld 219	
1st Floor Use:	4310
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	NONE
Ceiling/Wall	SUSP-CEIL ONLY
Rooms/Prtns	LIGHT
Wall Height	10.00
% Comn Wall	0.00

Building Photo

(http://images.vgsi.com/photos/OldSaybrookCTPhotos//\00\01\27\84.jpg)

Building Layout



(http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/3259_32

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	880	880
		880	880

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	4310
Description	TEL REL TW
Zone	AA-1

Land Line Valuation

Size (Acres)	0.23
Depth	0
Assessed Value	$208,100

Appraised Value $297,300

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
FN9	W/O TOP RL-8'			272.00 L.F.	$2,900	1
CELL	CELL TOWER			125.00 UNITS	$56,300	1
MSC1	ARRAYS			3.00 UNIT	$375,000	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2020	$481,800	$297,300	$779,100
2018	$481,800	$297,300	$779,100
2016	$159,500	$472,500	$632,000

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2020	$337,200	$208,100	$545,300
2018	$337,200	$208,100	$545,300
2016	$111,700	$330,800	$442,500

EXHIBIT C

Property Map


Barley Hill Rd
Barley Hill Rd
Barley Hill Rd
Ingham Hill Rd
Oyster River
Oyster River
170 Ingham Hill Road
Ingham Hill Rd
Laurel Brook Rd
Laurel Brook Rd
Goose Pond Rd
Hay House Farm

EXHIBIT D

Construction Drawings

THE COMPOUND AUDIT WAS NOT COMPLETED AT TIME OF THE CREATION OF THE CONSTRUCTION DRAWINGS. CONTRACTOR TO FIELD VERIFY COMPOUND CONDITIONS.

T-Mobile

T-MOBILE SITE NUMBER: CT11035E
T-MOBILE SITE NAME: OLDSAYBROOKSNETMOBILI_1
T-MOBILE PROJECT: ANCHOR

BUSINESS UNIT #: 841289
SITE ADDRESS: 170 INGHAM HILL ROAD, SAYBROOK, CT 06475
COUNTY: MIDDLESEX
SITE TYPE: MONOPOLE
TOWER HEIGHT: 150'-3"

SITE INFORMATION

CROWN CASTLE USA INC.

SITE NAME:	OLD SAYBROOK
BU NUMBER:	841289
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 12920 SE 38TH STREET BELLEVUE, WA 98006
SITE ADDRESS:	170 INGHAM HILL ROAD SAYBROOK, CT 06475
COUNTY:	MIDDLESEX
LATITUDE:	41° 18' 35.58" / 41.3099°
LONGITUDE:	-72° 23' 50.98" / -72.3975°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	224'+/- AMSL
AREA OF CONSTRUCTION:	EXISTING
CURRENT ZONING:	AA-1 (RESIDENCE)
MAP/PARCEL #:	052/004-0000
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	LORENZ CAROL J & ROBERT A PO BOX 351 CENTER OSSIPEE, NH 03814
JURISDICTION:	CONNECTICUT SITING COUNCIL TEN FRANKLIN SQUARE NEW BRITAIN, CT 06051
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO (800) 922-4455
TELCO PROVIDER:	AT&T (866) 620-6900

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 WALTER SMITH WSMITH@BTGRP.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	8020 KATY FREEWAY HOUSTON, TX 77024 TRICIA PELON - PROJECT MANAGER TRICIA.PELON@CROWNCASTLE.COM SUSAN PALM - AES SUSAN.PALM@CROWNCASTLE.COM

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

TEMPLATENAME_DATEOFGENERATION

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	COMPOUND PLAN
C-1.2	EXISTING EQUIPMENT PLAN
C-1.3	FINAL EQUIPMENT PLAN
C-2	TOWER ELEVATIONS
C-3	ANTENNA PLANS
C-4	FINAL EQUIPMENT SCHEDULE
C-5	TOWER EQUIPMENT DETAILS & SPECIFICATIONS
C-6.1	ENCLOSURE CLEARANCES
C-6.2	SITE SUPPORT CABINET SPECIFICATIONS
C-6.3	BATTERY CABINET SPECIFICATIONS
G-1	TYPICAL GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
ATTACHED	RFDS

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

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS BEFORE YOU DIG!
811

PROJECT DESCRIPTION

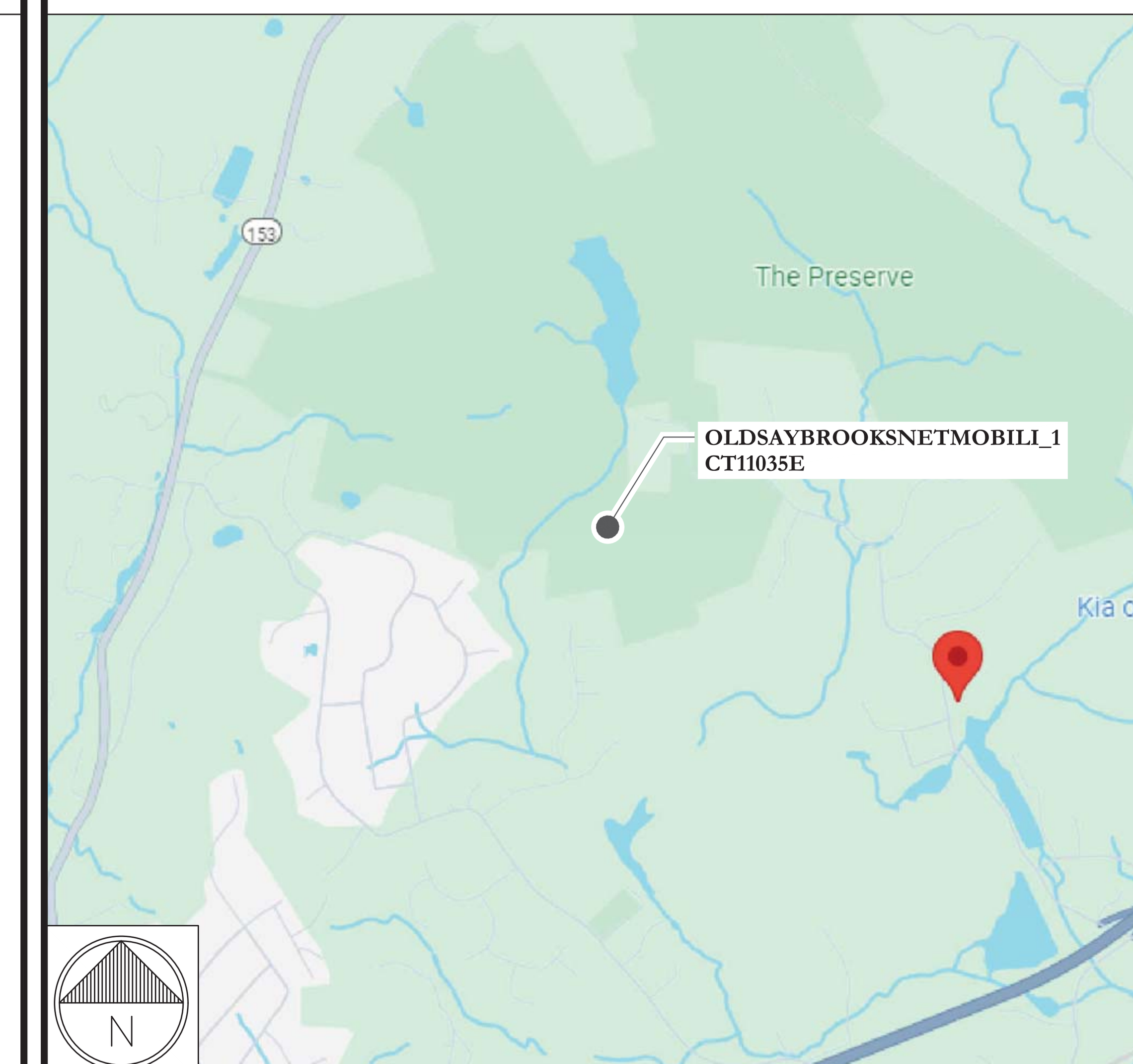
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- REMOVE (3) ERICSSON - AIR21 KRC118023-1_B2A_B4P ANTENNAS
- REMOVE (3) ERICSSON - AIR21 KRC118023-1_B2P_B4A ANTENNAS
- REMOVE (3) GENERIC - TWIN STYLE 1B AWS TMAs
- REMOVE (6) ANDREW - LDF6-50A CABLES
- REMOVE (1) ERICSSON - 9X18 HCS CABLE
- REMOVE (3) ERICSSON - 6X12 HCS CABLES
- INSTALL (3) RFS - APXVLL19P_43-C-A20 ANTENNAS
- INSTALL (3) ERICSSON - AIR 6419 B41 ANTENNAS
- INSTALL (3) ERICSSON - 4460 B25+B66 RADIOS
- INSTALL (3) RFS/CELWAVE - HB158-21U6S24- XXM_TMO CABLES

GROUND SCOPE OF WORK:
- REMOVE (1) RBS 6102 CABINET
- INSTALL (1) ERICSSON - ENCLOSURE 6160_V2 AC ENCLOSURE
- INSTALL (1) ERICSSON - B160 ENCLOSURE
- INSTALL (1) NEMA 3RSLACK BOX ON (N) H-FRAME
- INSTALL (1) WORK LIGHT W/ 30-60 MIN TIMER SWITCH

EXISTING T-MOBILE ELECTRIC SERVICE:
METER AND DISCONNECT: 200A 120/480V~3W
PPC: VERTIV 200A 120/240V~1PH, 200A GENERATOR PLUG, 200A MAXIMUM BRANCH CIRCUIT SIZE & 24 AC BREAKER POSITIONS

LOCATION MAP



NO SCALE

APPLICABLE CODES & REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2022 CONNECTICUT SBC/2021 IBC
MECHANICAL	2022 CONNECTICUT SBC/2021 IMC
ELECTRICAL	2022 CONNECTICUT SBC/2020 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	3/17/24
MOUNT ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	3/11/24
RFDS REVISION:	7
DATED:	2/22/24
ORDER ID:	658837
REVISION:	0

T-Mobile

CROWN CASTLE

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11035E

BU #: **841289**
CROWN CASTLE SITE NAME:
OLD SAYBROOK

170 INGHAM HILL ROAD
SAYBROOK, CT 06475

EXISTING 150'-3"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/10/24	FM	CONSTRUCTION	TDG
1	4/23/24	FM	CONSTRUCTION	TDG

STATE OF CONNECTICUT No. 23024 LICENSED PROFESSIONAL ENGINEER
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

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

SHEET NUMBER:	REVISION:
T-1	1

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

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

GENERAL NOTES:

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

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

ELECTRICAL INSTALLATION NOTES:

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

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

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

APWA UNIFORM COLOR CODE:

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

ABBREVIATIONS:

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

GREENFIELD GROUNDING NOTES:

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

T Mobile

CROWN CASTLE

B+T GRP
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T-MOBILE SITE NUMBER:
CT11035E

BU #: **841289**
CROWN CASTLE SITE NAME:
OLD SAYBROOK

170 INGHAM HILL ROAD
SAYBROOK, CT 06475

EXISTING 150'-3"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/10/24	FM	CONSTRUCTION	TDG
1	4/23/24	FM	CONSTRUCTION	TDG

CHAD TUTTLE
No. 23924
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

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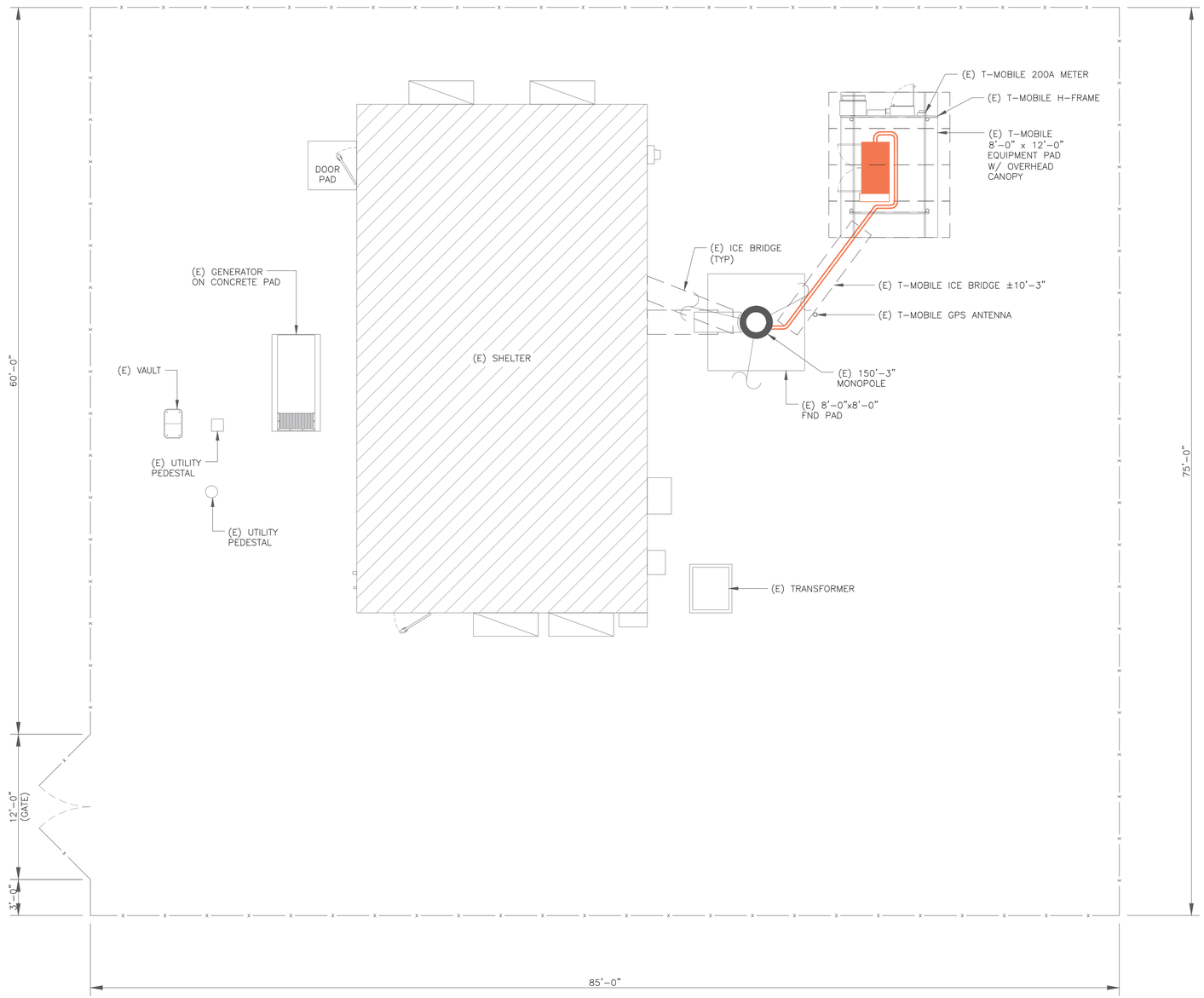
SHEET NUMBER: T-2

REVISION: 1

EQUIPMENT LEGEND:

- EXISTING
- TO BE RELOCATED/REMOVED
- NEW/RELOCATED



1 COMPOUND PLAN

SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

N

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STATE OF CONNECTICUT
GREGORY D. GOULET
No. 25824
LICENSED PROFESSIONAL ENGINEER
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: C-1.1

REVISION: 1

EQUIPMENT LEGEND:

- EXISTING
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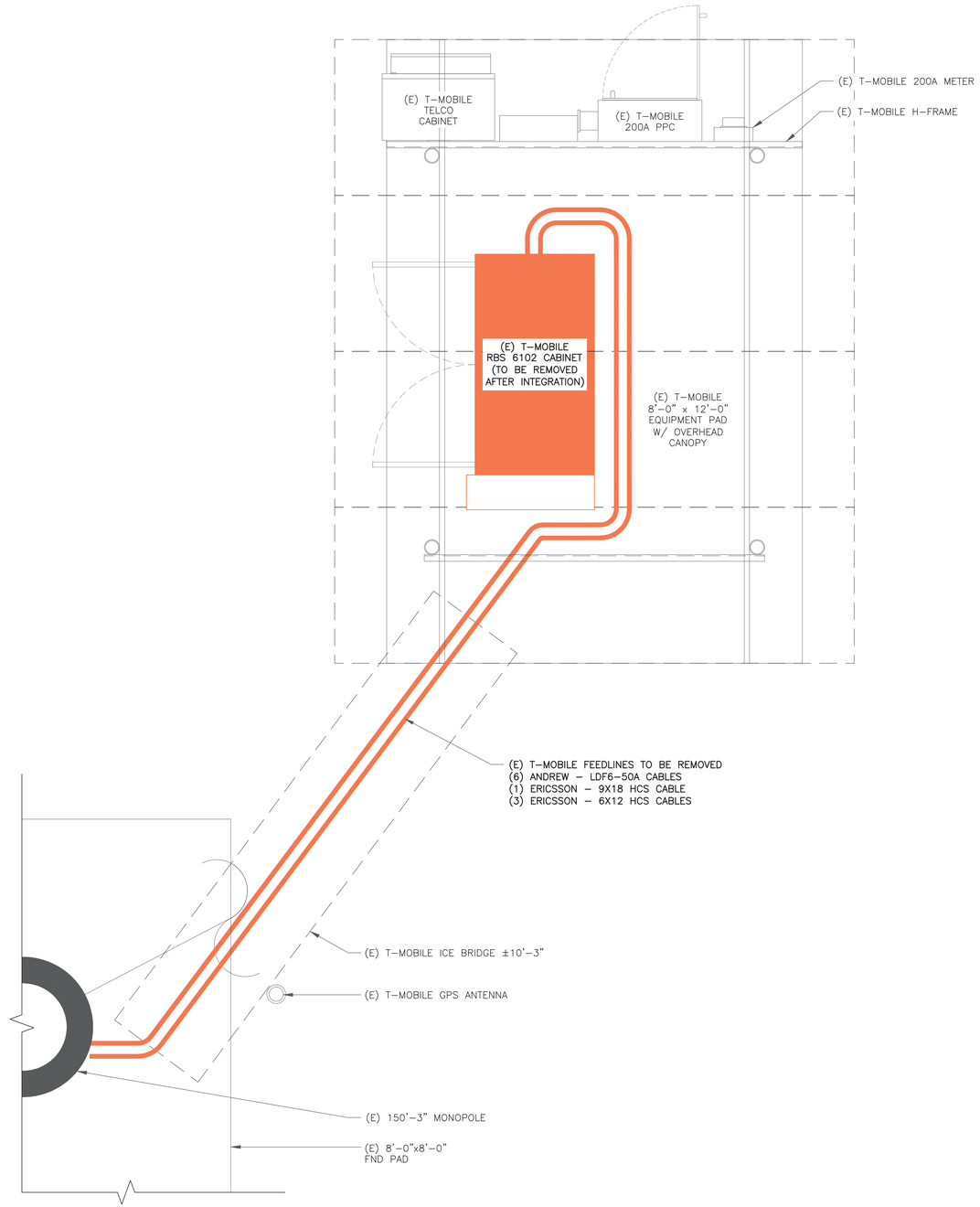
- NEW/RELOCATED



1 EXISTING EQUIPMENT PLAN

SCALE: 1" 6" 0 1" 3/4"=1'–0" (FULL SIZE) 3/8"=1'–0" (11x17)

N

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SHEET NUMBER: C-1.2

REVISION: 1

EQUIPMENT LEGEND:

- EXISTING
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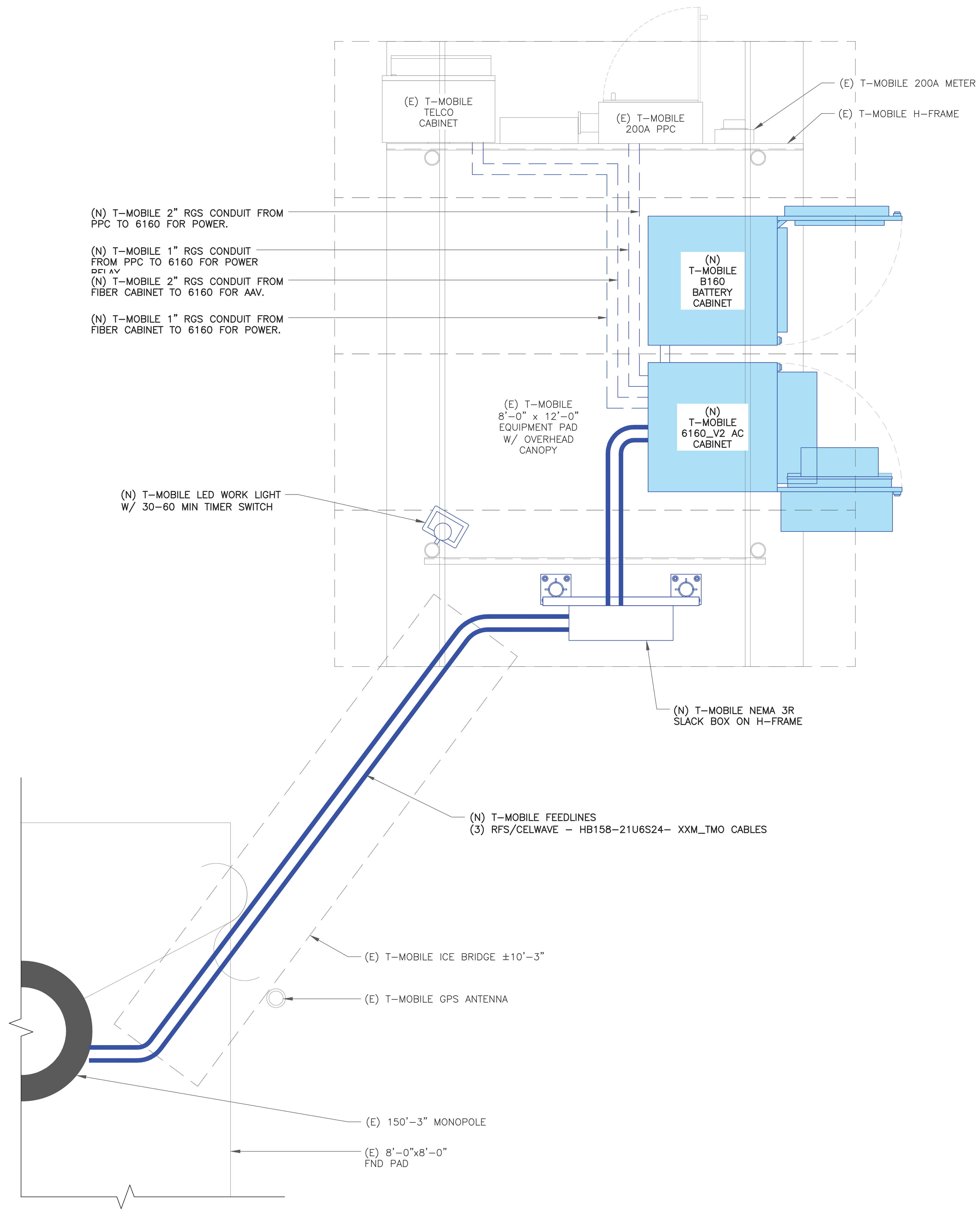
- NEW/RELOCATED



1 FINAL EQUIPMENT PLAN

SCALE: 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

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EXISTING 150'-3" MONOPOLE

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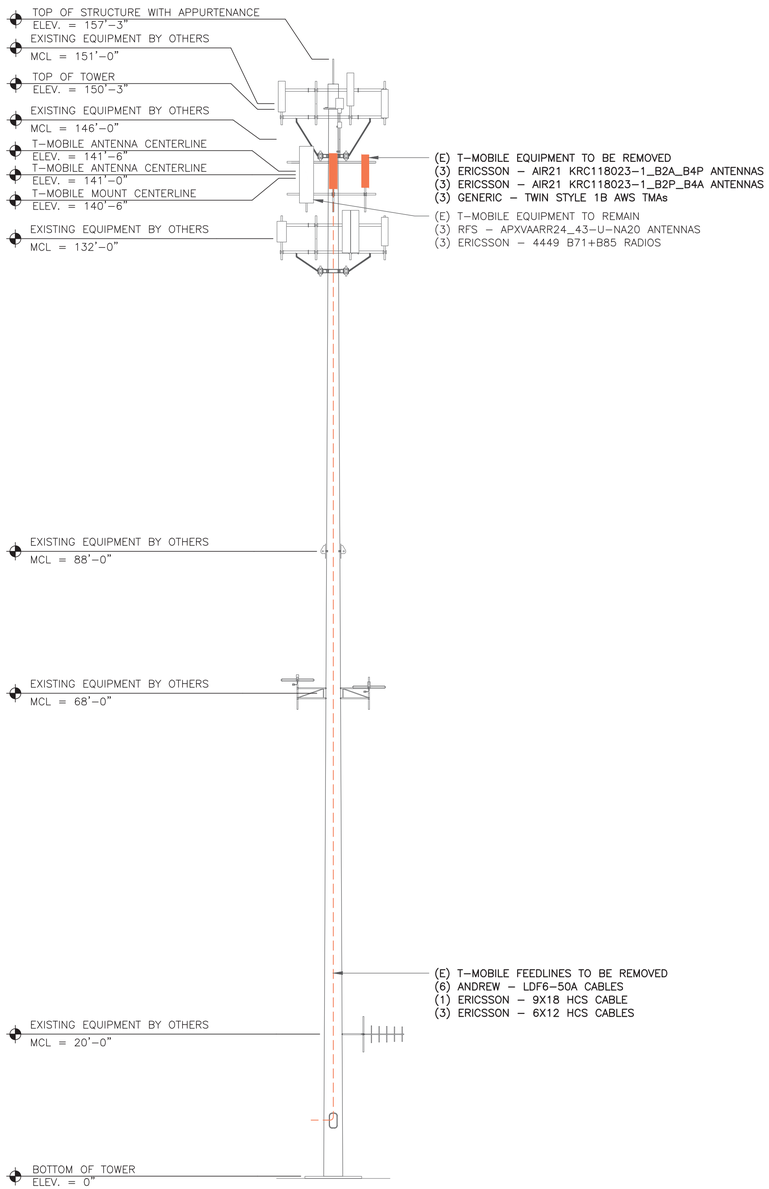
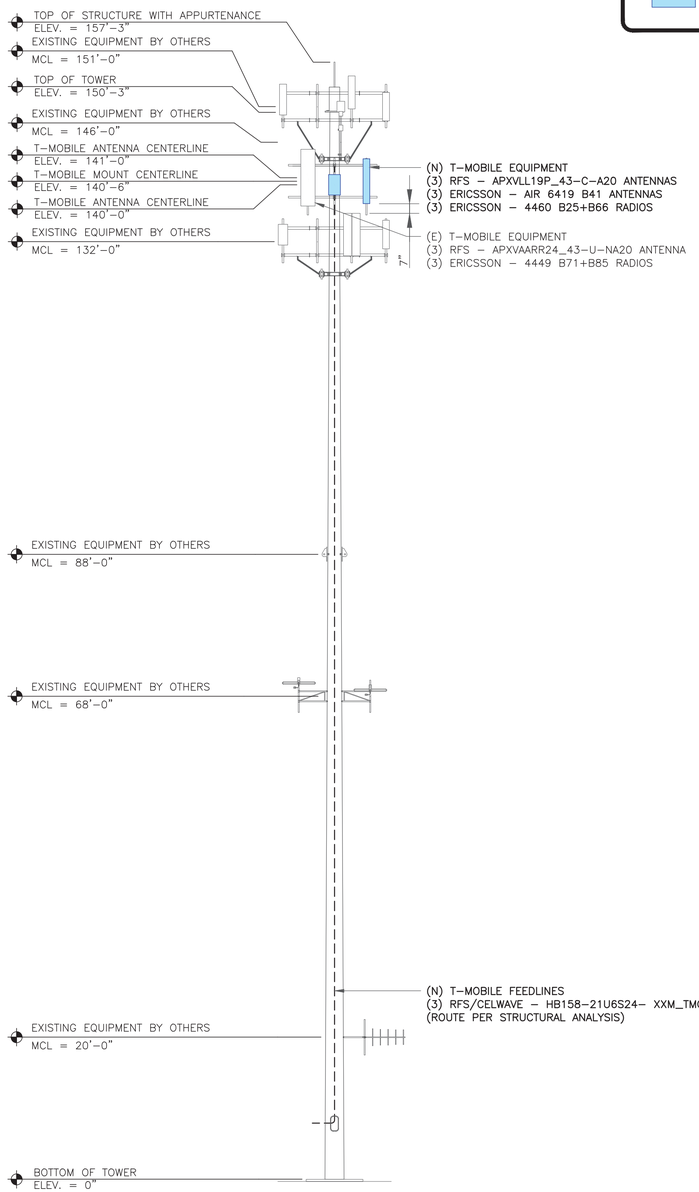
SHEET NUMBER: C-1.3

REVISION: 1



1 EXISTING TOWER ELEVATION

SCALE: 8' 4' 0 8' 3/32"=1'-0" (FULL SIZE) 3/64"=1'-0" (11x17)



2 FINAL TOWER ELEVATION

SCALE: 8' 4' 0 8' 3/32"=1'-0" (FULL SIZE) 3/64"=1'-0" (11x17)

EQUIPMENT LEGEND:

- EXISTING
- TO BE RELOCATED/REMOVED
- NEW/RELOCATED

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BU #: **841289**
CROWN CASTLE SITE NAME:
OLD SAYBROOK

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SAYBROOK, CT 06475

EXISTING 150'-3"
MONOPOLE

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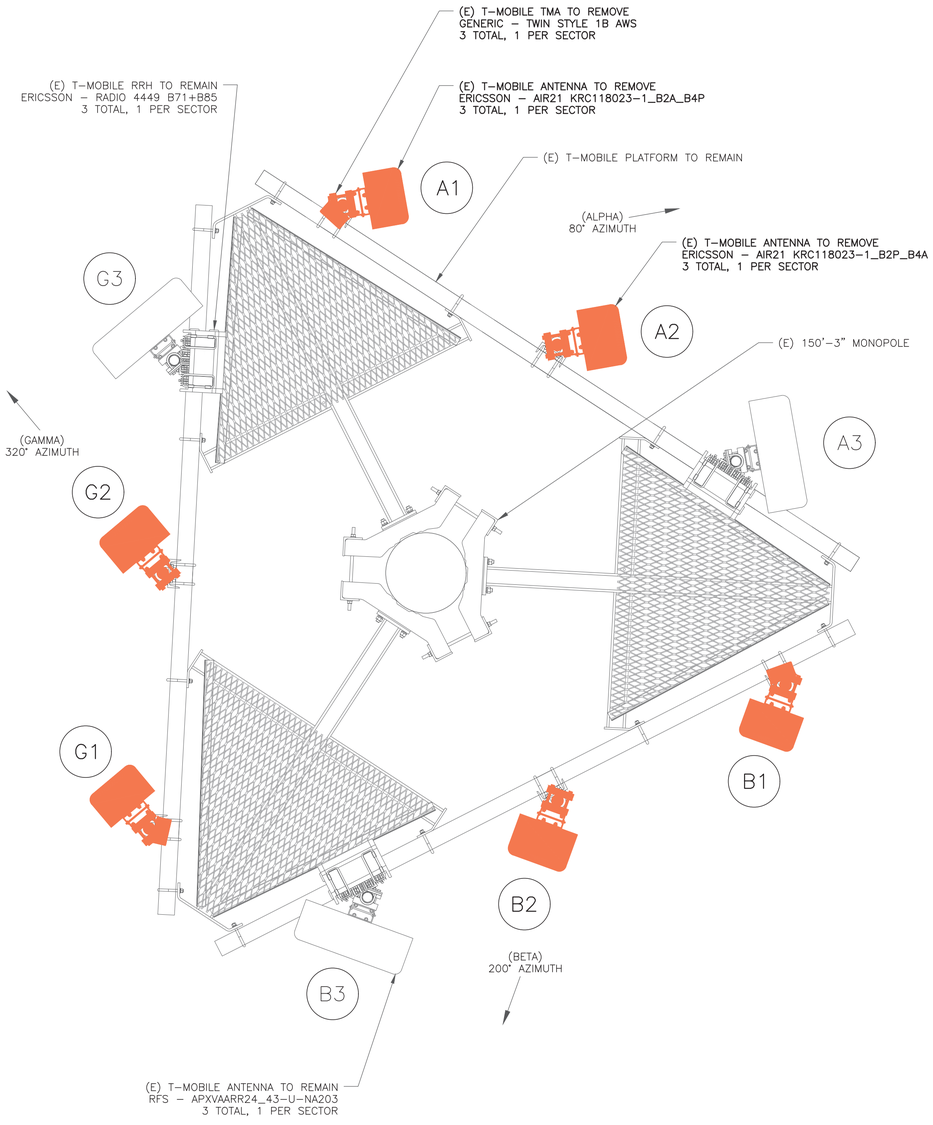
STATE OF CONNECTICUT
GREGORY D. GOUDREAU
No. 25824
LICENSED
PROFESSIONAL ENGINEER
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

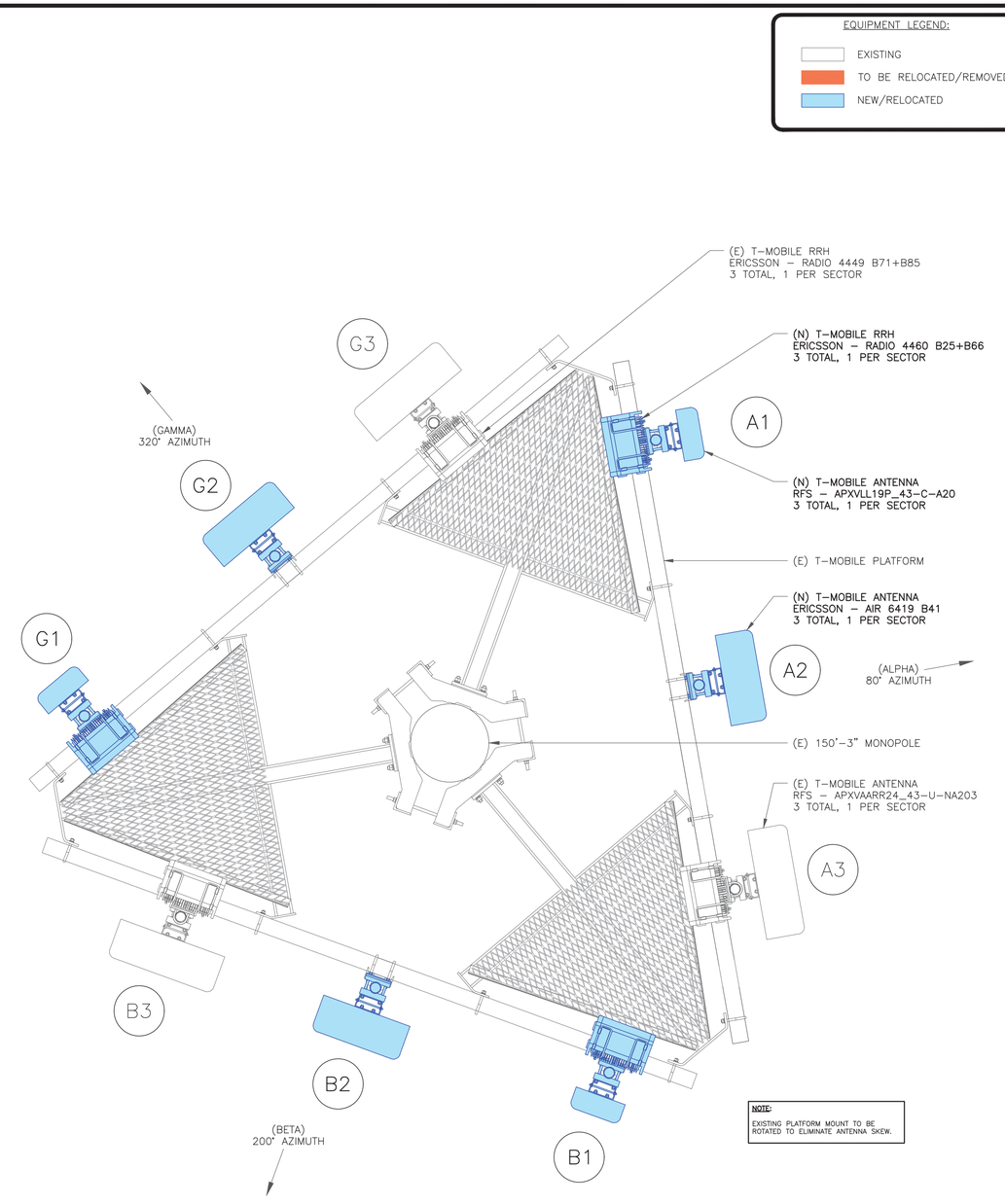
SHEET NUMBER: C-2

REVISION: 1



1 EXISTING ANTENNA PLAN
SCALE: 1' 6" 0 1' — 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

N



2 FINAL ANTENNA PLAN
SCALE: 1' 6" 0 1' — 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

N

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BU #: **841289**
CROWN CASTLE SITE NAME:
OLD SAYBROOK

170 INGHAM HILL ROAD
SAYBROOK, CT 06475

EXISTING 150'-3" MONOPOLE

ISSUED FOR:

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MTS ENGINEERING P.L.L.C.
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Expires 3/31/24

SHEET NUMBER: C-3

REVISION: 1

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	L2100/ L1900/ G1900/ N1900	(N) RFS – APXVLL19P_43–C–A20	80°	140'–0"	1	(N) RADIO 4460 B25+B66	TOWER	–	–	–	–	–	–	–	1	(N) 6X12 HYBRID	1–5/8"	190'–0"
A2	N2500	(N) ERICSSON – AIR 6419 B41	80°	140'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
A3	N600/ L600/ L700	(E) RFS – APXVAARR24_43–U–NA20	80°	141'–0"	1	(E) RADIO 4449 B71+B85	TOWER	–	–	–	–	–	–	–	–	–	–	–
B1	L2100/ L1900/ G1900/ N1900	(N) RFS – APXVLL19P_43–C–A20	200°	140'–0"	1	(N) RADIO 4460 B25+B66	TOWER	–	–	–	–	–	–	–	1	(N) 6X12 HYBRID	1–5/8"	190'–0"
B2	N2500	(N) ERICSSON – AIR 6419 B41	200°	140'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
B3	N600/ L600/ L700	(E) RFS – APXVAARR24_43–U–NA20	200°	141'–0"	1	(E) RADIO 4449 B71+B85	TOWER	–	–	–	–	–	–	–	–	–	–	–
G1	L2100/ L1900/ G1900/ N1900	(N) RFS – APXVLL19P_43–C–A20	320°	140'–0"	1	(N) RADIO 4460 B25+B66	TOWER	–	–	–	–	–	–	–	1	(N) 6X12 HYBRID	1–5/8"	190'–0"
G2	N2500	(N) ERICSSON – AIR 6419 B41	320°	140'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
G3	N600/ L600/ L700	(E) RFS – APXVAARR24_43–U–NA20	320°	141'–0"	1	(E) RADIO 4449 B71+B85	TOWER	–	–	–	–	–	–	–	–	–	–	–

1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

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T-MOBILE SITE NUMBER:
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OLD SAYBROOK

170 INGHAM HILL ROAD
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EXISTING 150'-3"
MONOPOLE

ISSUED FOR:

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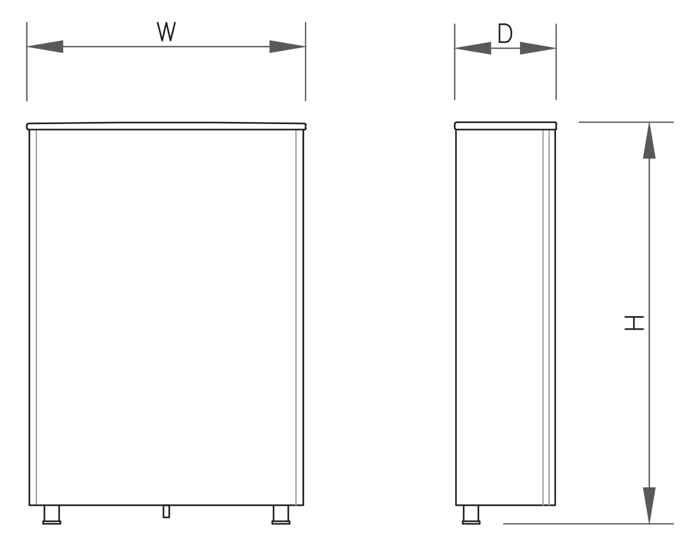
STATE OF CONNECTICUT
GREGORY D. GOULET
No. 23924
LICENSED
PROFESSIONAL ENGINEER
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: C-4

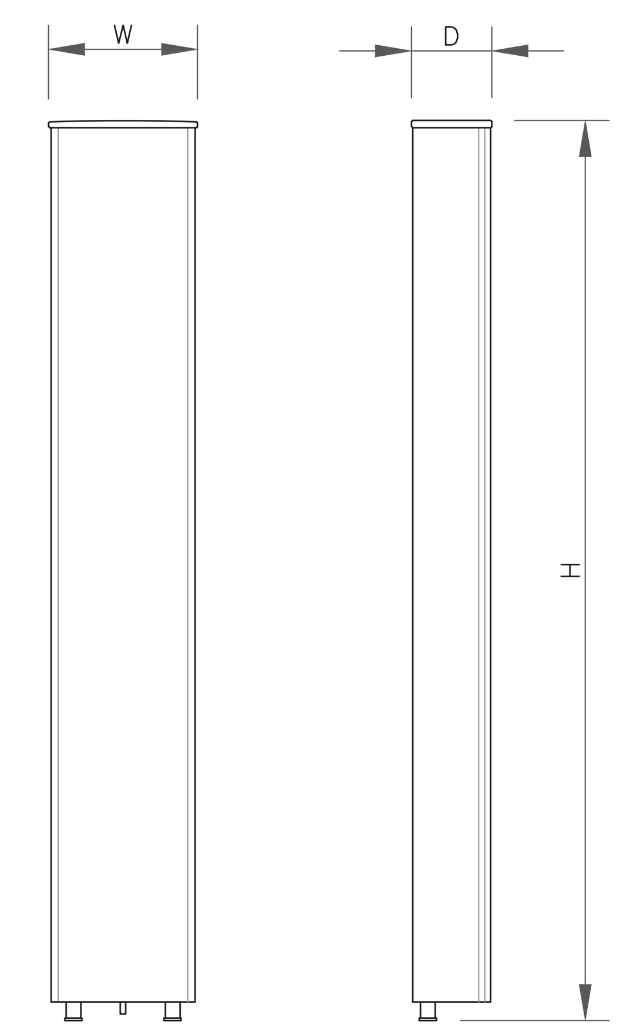
REVISION: 1



ANTENNA SPECS

MANUFACTURER	ERICSSON
MODEL #	AIR 6419 B41
WIDTH	19.92"
DEPTH	7.99"
HEIGHT	34.49"
WEIGHT	84.84 LBS

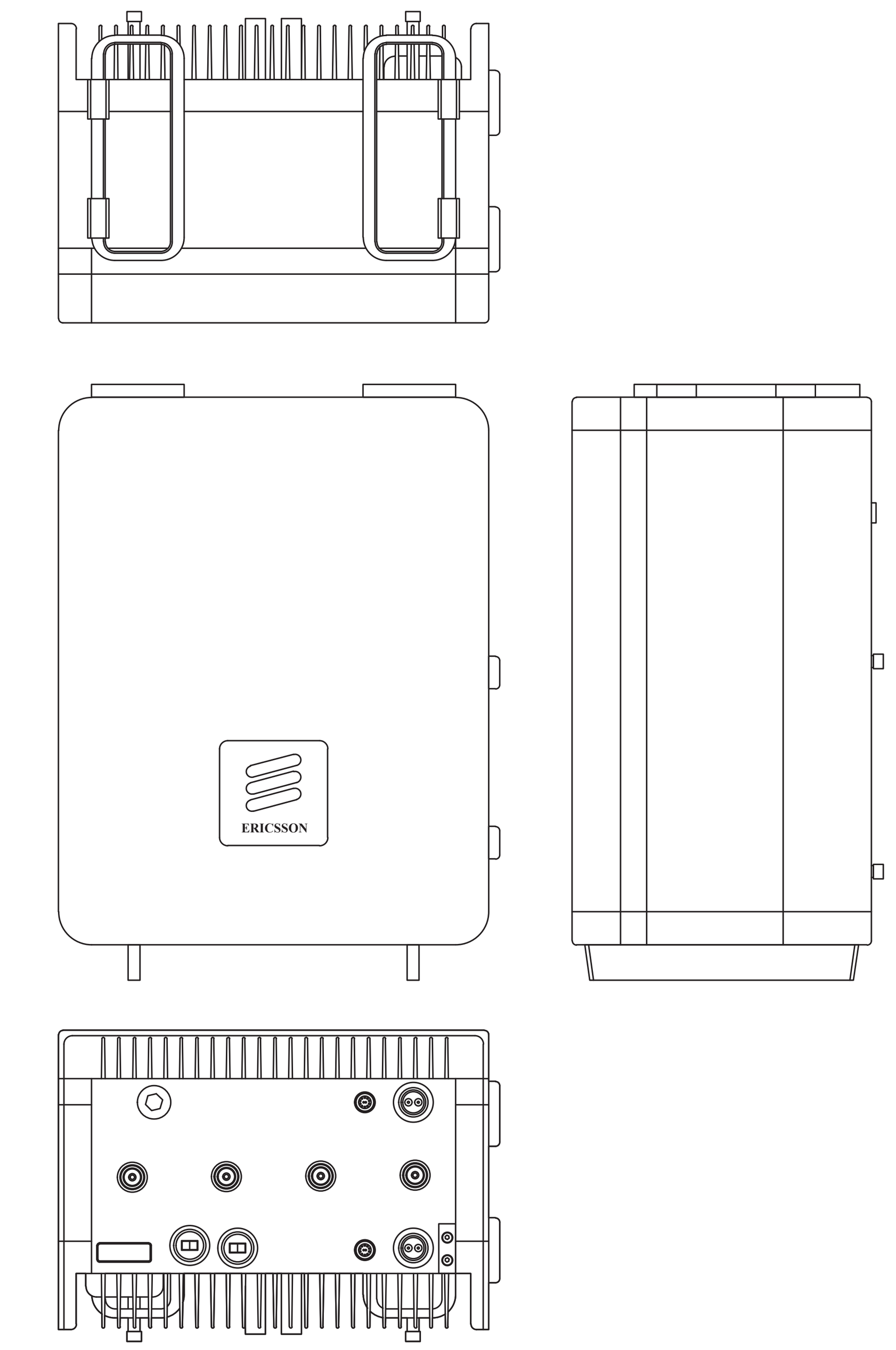
1 ANTENNA SPECS
SCALE: NOT TO SCALE



ANTENNA SPECS

MANUFACTURER	RFS
MODEL #	APXVLL19P_43-C-A20
WIDTH	11.30"
DEPTH	4.60"
HEIGHT	75.80"
WEIGHT	48.39 LBS

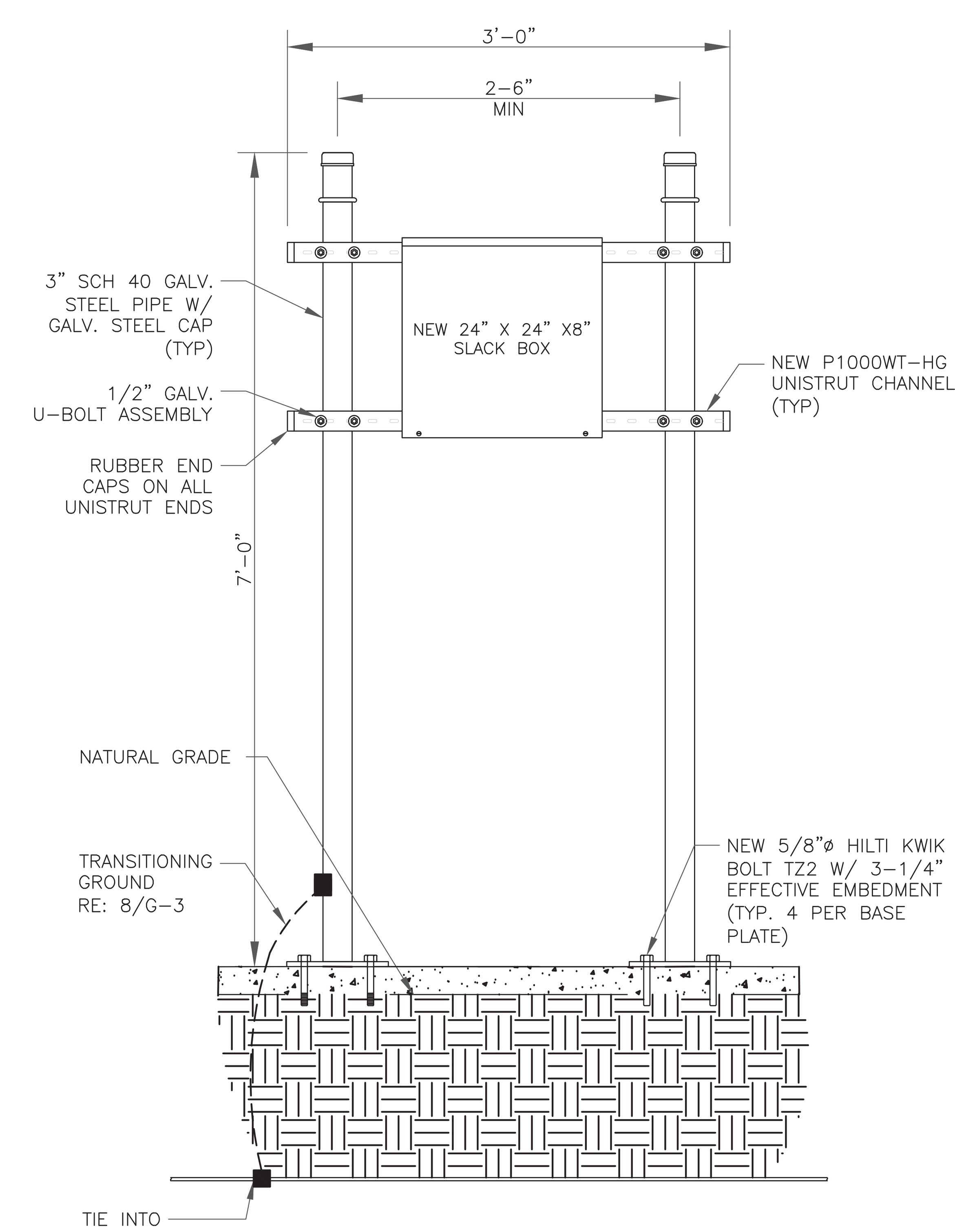
2 ANTENNA SPECS
SCALE: NOT TO SCALE



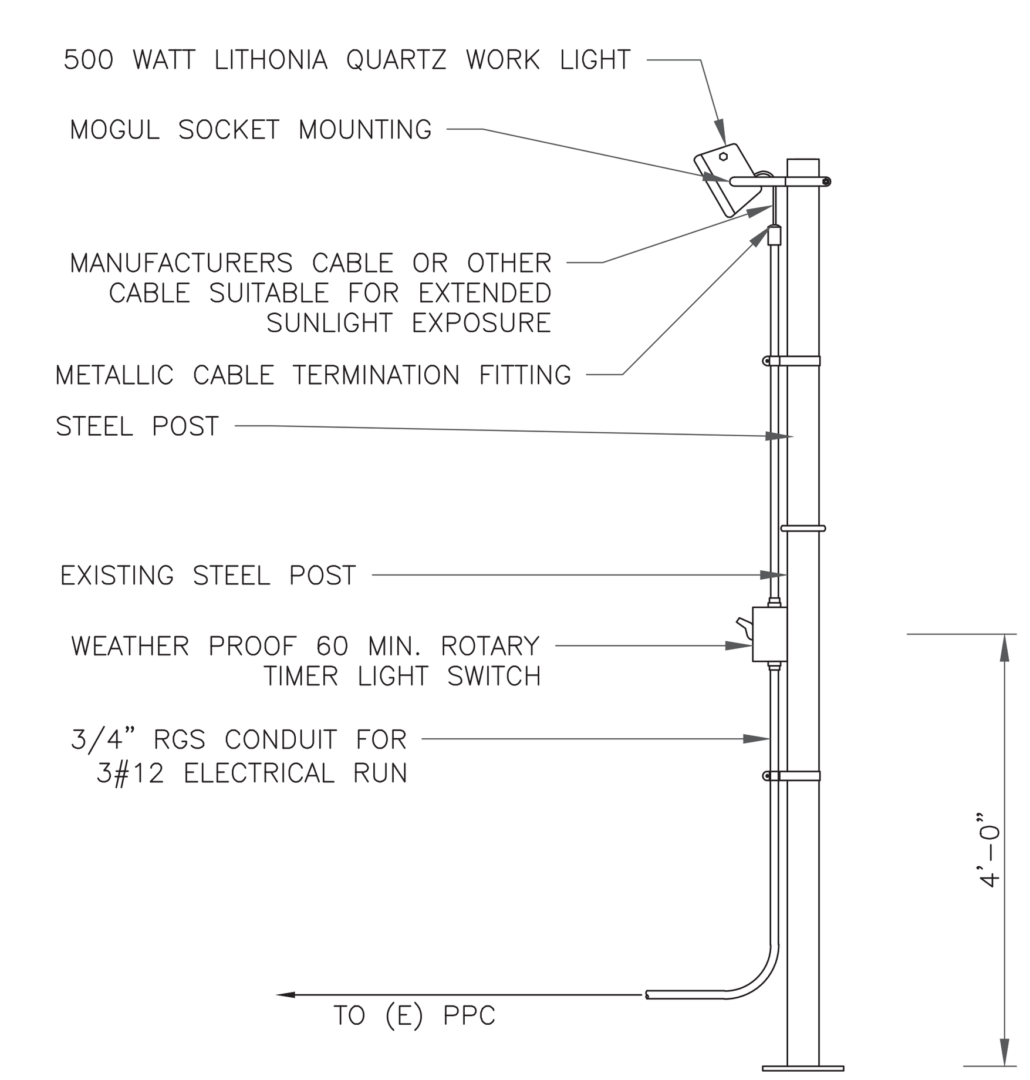
ERICSSON – RADIO 4460 B25+B66
WEIGHT: 106.0 LBS
SIZE (HxWxD): 17.0x15.1x11.9 IN.

3 RRH SPEC
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE



5 H-FRAME DETAIL
SCALE: NOT TO SCALE



6 WORK LIGHT W/ TIMER SWITCH DETAIL
SCALE: NOT TO SCALE

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T-MOBILE SITE NUMBER:
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CROWN CASTLE SITE NAME:
OLD SAYBROOK

170 INGHAM HILL ROAD
SAYBROOK, CT 06475

EXISTING 150'-3" MONOPOLE

ISSUED FOR:

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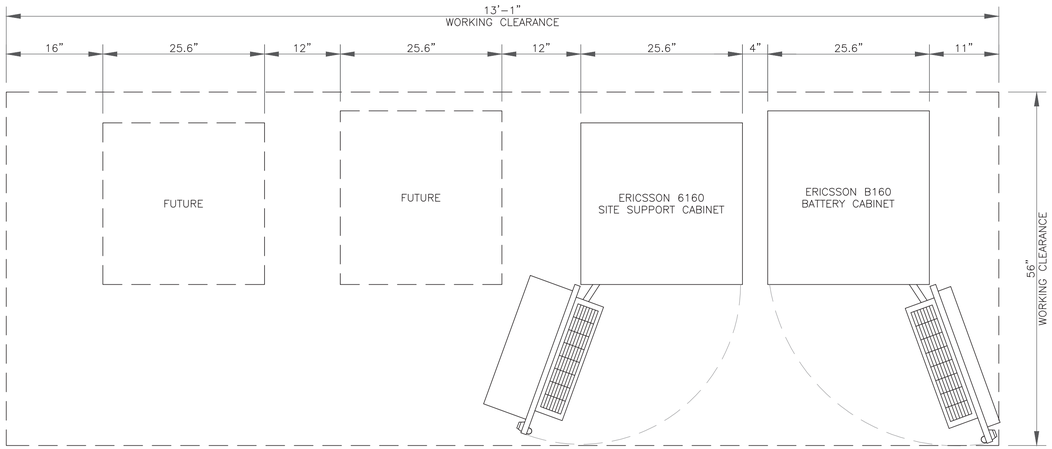
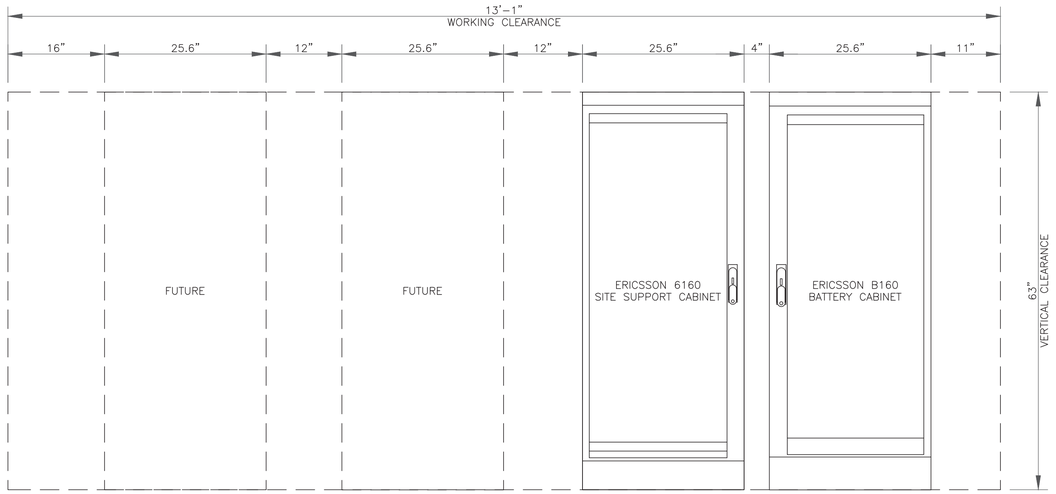
No. 23024 LICENSED PROFESSIONAL ENGINEER
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

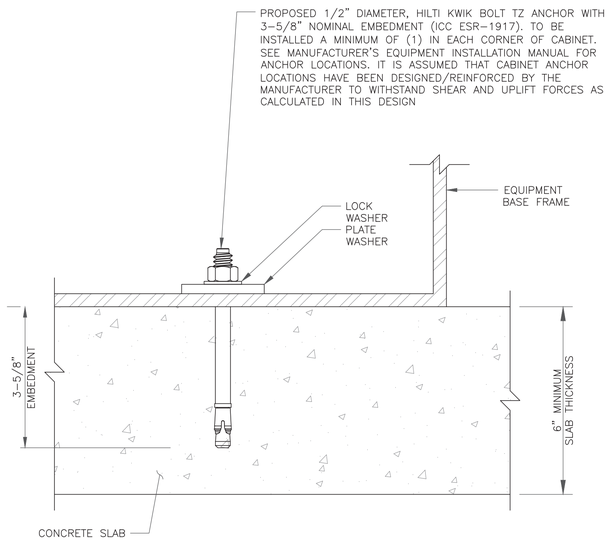
SHEET NUMBER: C-5
REVISION: 1



1 PLAN VIEW WORKING CLEARANCE 6160 & B160 LAYOUT
SCALE: NOT TO SCALE

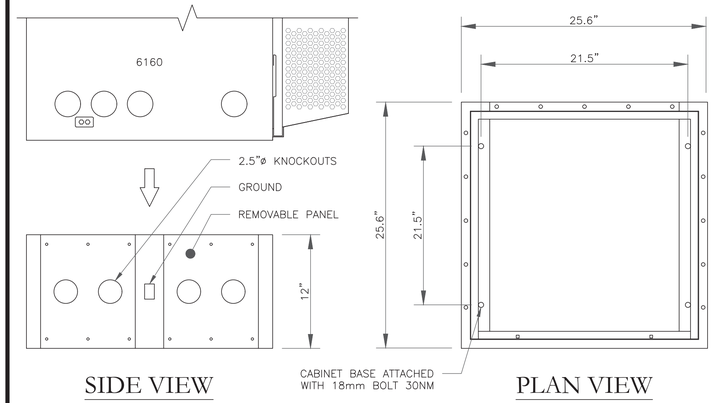


2 ELEVATION VIEW WORKING CLEARANCE 6160 & B160 LAYOUT
SCALE: NOT TO SCALE



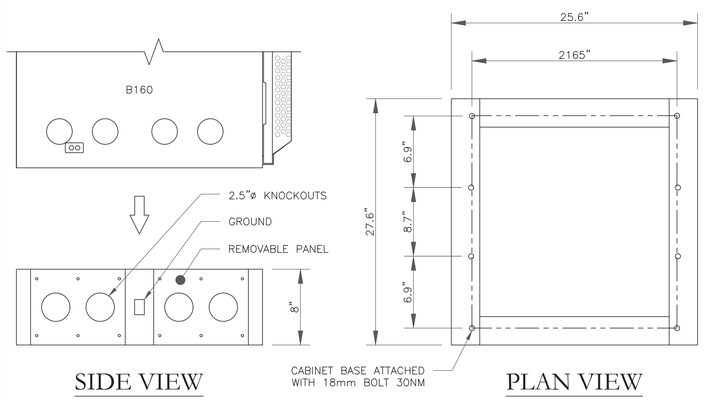
3 TYPICAL ANCHOR BOLT DETAIL
SCALE: NOT TO SCALE

MANUFACTURER:	ERICSSON
MODEL:	6160 12" BASE FRAME (SXK 125 5009/1)
DIMENSIONS (HxWxD):	12"x25.6"x25.6"
T-MOBILE SKU#	T.B.D.



4 ERICSSON 6160 PLINTH DETAIL
SCALE: NOT TO SCALE

MANUFACTURER:	ERICSSON
MODEL:	B160 BASE FRAME (SKU 125 5010/1)
DIMENSIONS (HxWxD):	8"x27.5"x25.6"
T-MOBILE SKU#	T.B.D.



5 ERICSSON B160 PLINTH DETAIL
SCALE: NOT TO SCALE

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BER:2386985
Expires 3/31/24

SHEET NUMBER: C-6.1

REVISION: 1

MANUFACTURER:	ERICSSON
MODEL:	(UT6160_ENCL_AC) V1 CABINET
DIMENSIONS (HxWxD):	63"x25.6"x33.6"
WEIGHT:	373 LBS
SKU #:	T.B.D.

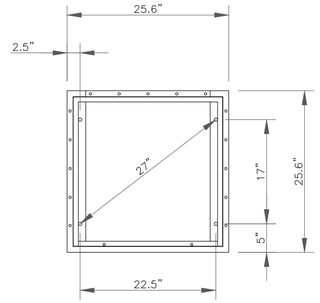
NOTE:

CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS

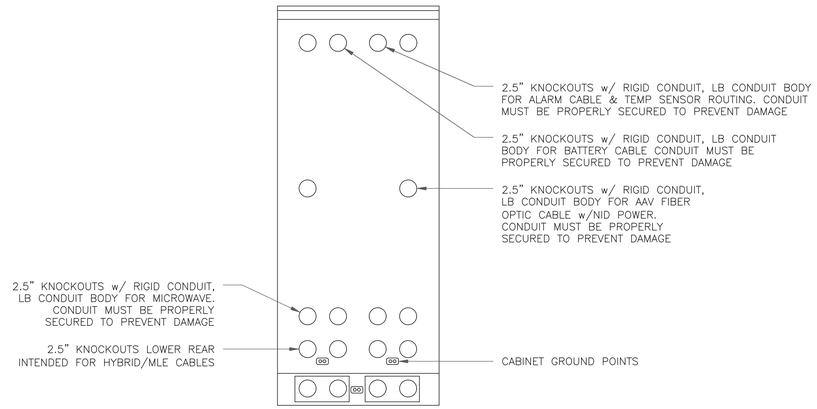
CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING

GROUNDING NOTE:

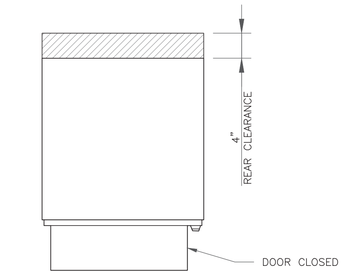
CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.



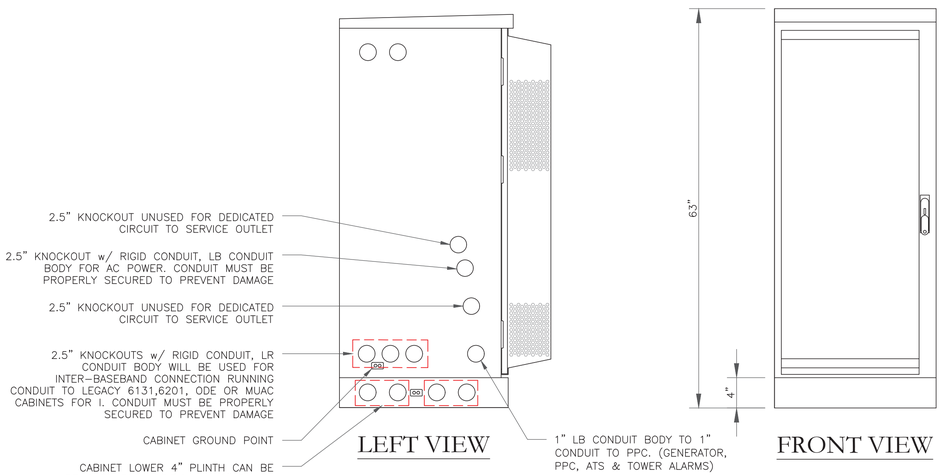
BOLT DOWN PATTERN



REAR VIEW

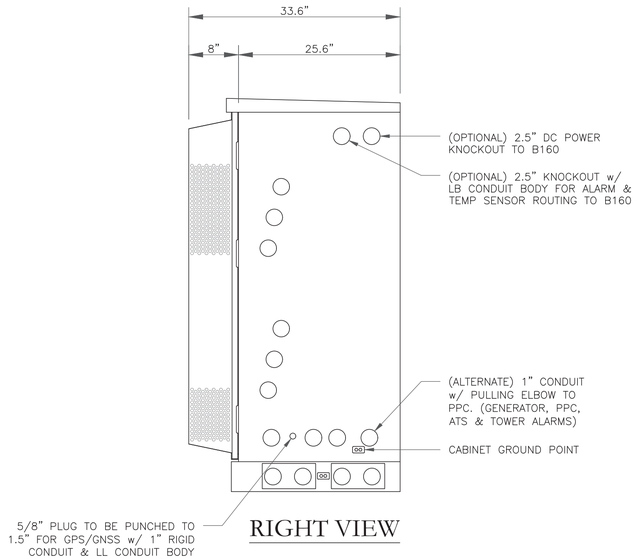


PLAN VIEW

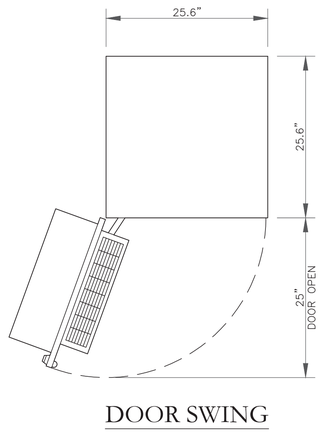


LEFT VIEW

FRONT VIEW



RIGHT VIEW



DOOR SWING

1 6160 ERICSSON SITE SUPPORT CABINET

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

TEMPLATENAME_DATEOFGENERATION

T-Mobile

CROWN CASTLE

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11035E

BU #: **841289**
CROWN CASTLE SITE NAME:
OLD SAYBROOK

170 INGHAM HILL ROAD
SAYBROOK, CT 06475

EXISTING 150'-3" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/10/24	FM	CONSTRUCTION	TDG
1	4/23/24	FM	CONSTRUCTION	TDG

STATE OF CONNECTICUT
GREGORY D. GOUDREAU
No. 25824
LICENSED
PROFESSIONAL ENGINEER
4/23/24

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: C-6.2

REVISION: 1

MANUFACTURER:	ERICSSON
MODEL:	B160 BATTERY CABINET
DIMENSIONS (HxWxD):	63"x25.6"x29.5"
WEIGHT:	295 LBS
SKU #:	T.B.D.

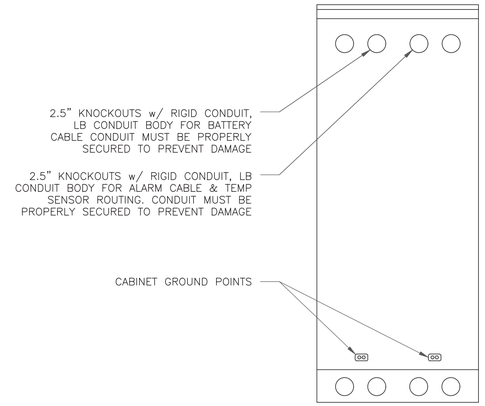
NOTE:

CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS

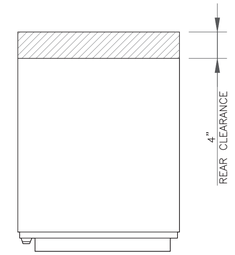
CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING

GROUNDING NOTE:

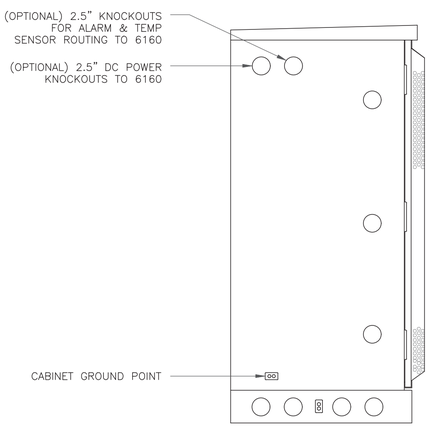
CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED.



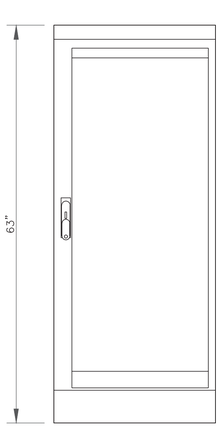
REAR VIEW



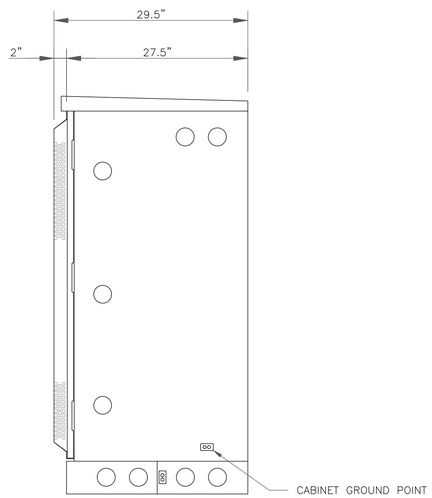
PLAN VIEW



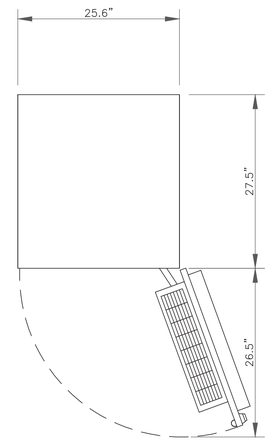
LEFT VIEW



FRONT VIEW



RIGHT VIEW



DOOR SWING

1 ERICSSON B160 BATTERY CABINET

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

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T-MOBILE SITE NUMBER:
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BU #: **841289**
CROWN CASTLE SITE NAME:
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170 INGHAM HILL ROAD
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EXISTING 150'-3"
MONOPOLE

ISSUED FOR:

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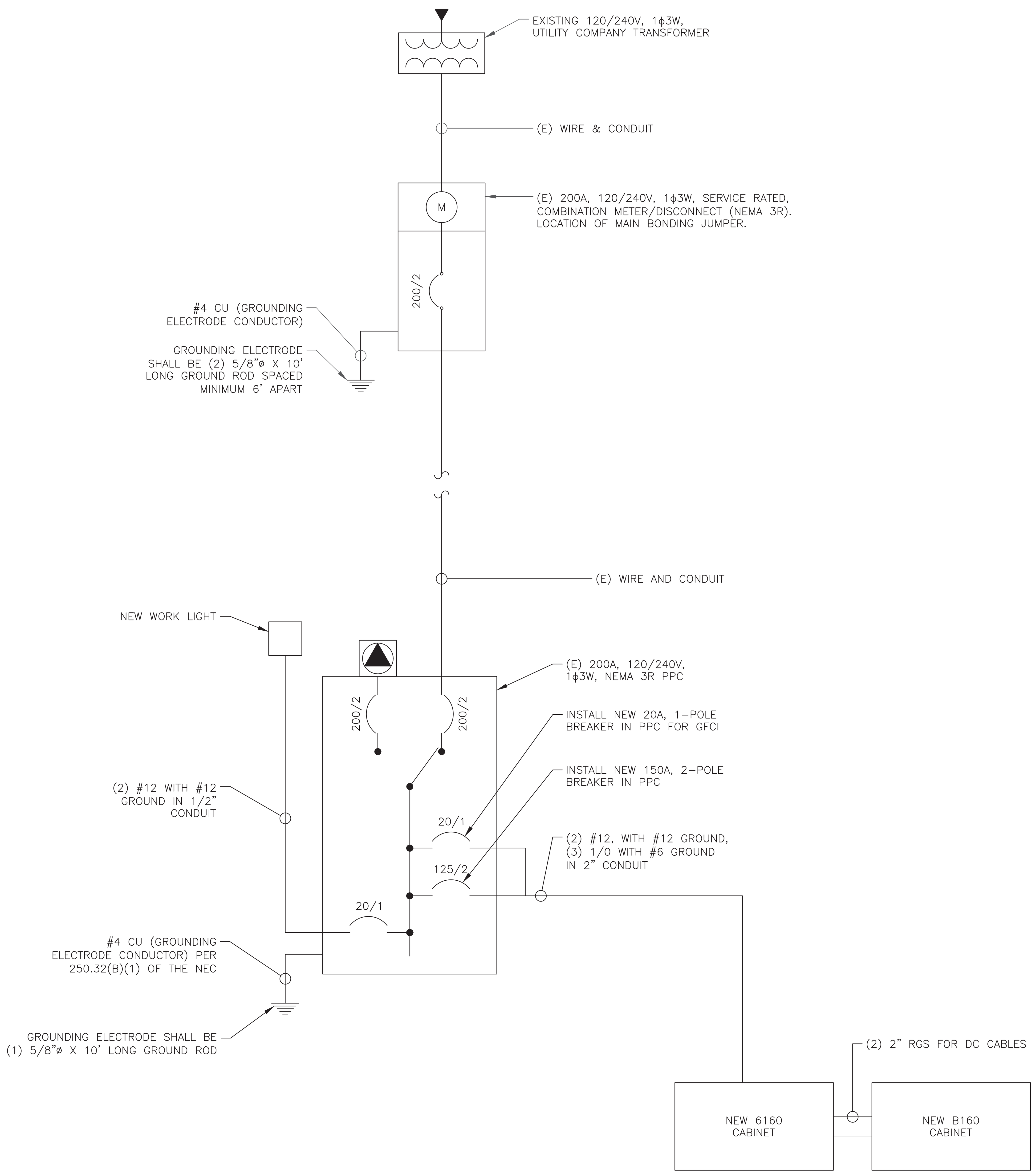
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: C-6.3

REVISION: 1



NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.

1 ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

NOTES:

1. PANEL SCHEDULE PENDING FIELD VERIFICATION.

EXISTING PANEL SCHEDULE

LOAD	POLES	AMPS	BUS L1	BUS L2	AMPS	POLES	LOAD
SURGE	2	60	1	2	20	1	PPC PLUG
			3	4	15	1	OCS PLUG
EMERSON	1	20	5	6			
LIGHT	1	20	7	8			
RBS 6102	2	125	9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			

RATED VOLTAGE: ■120/240 □______. 1 PHASE, 3 WIRE	BRANCH POLES: □12 ■24 □30 □42	APPROVED MF'RS
RATED AMPS: □100 ■200 □400 □______.	CABINET: ■SURFACE □FLUSH	NEMA □1 ■3R □4X
□MAIN LUGS ONLY / MAIN 200 AMPS ■BREAKER □FUSED SWITCH	■HINGED DOOR	■KEYED DOOR LATCH
□FUSED ■CIRCUIT BREAKER BRANCH DEVICES	□__________ TO BE GFCI BREAKERS	FULL NEUTRAL BUS / GROUND BAR
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL		

2 EXISTING PANEL SCHEDULE
SCALE: NOT TO SCALE

EXISTING PANEL SCHEDULE

LOAD	POLES	AMPS	BUS L1	BUS L2	AMPS	POLES	LOAD
SURGE	2	60	1	2	20	1	PPC PLUG
			3	4	15	1	OCS PLUG
EMERSON	1	20	5	6	20	1	OCS PLUG
LIGHT	1	20	7	8			
6160	2	125	9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			

RATED VOLTAGE: ■120/240 □______. 1 PHASE, 3 WIRE	BRANCH POLES: □12 ■24 □30 □42	APPROVED MF'RS
RATED AMPS: □100 ■200 □400 □______.	CABINET: ■SURFACE □FLUSH	NEMA □1 ■3R □4X
□MAIN LUGS ONLY / MAIN 200 AMPS ■BREAKER □FUSED SWITCH	■HINGED DOOR	■KEYED DOOR LATCH
□FUSED ■CIRCUIT BREAKER BRANCH DEVICES	□__________ TO BE GFCI BREAKERS	FULL NEUTRAL BUS / GROUND BAR
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL		

REMOVE EXISTING 2P 125A BREAKER IN POSITION 2 AND 4
INSTALL NEW 1P 20A BREAKER IN POSITION 6
REPLACE EXISTING BREAKER WITH NEW 2P 125A BREAKER IN POSITIONS 9 AND 11
IF 150A BREAKER WILL NOT PROPERLY FIT IN EXISTING PANEL, REPLACE (E) PANEL WITH SQUARE D PANEL QO130M150PRB (OR APPROVED EQUAL).
UPGRADE FEEDER WIRES TO MEET AMPACITY IF NEW PANEL IS REQUIRED.
FINAL PANEL DESIGN AND CALCULATIONS FOR WIRE SIZE WERE BASED OFF OF EXISTING PHOTOS

3 FINAL PANEL SCHEDULE
SCALE: NOT TO SCALE

T Mobile

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EXISTING 150'-3"
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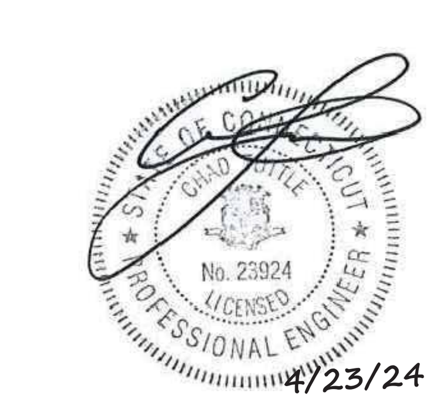


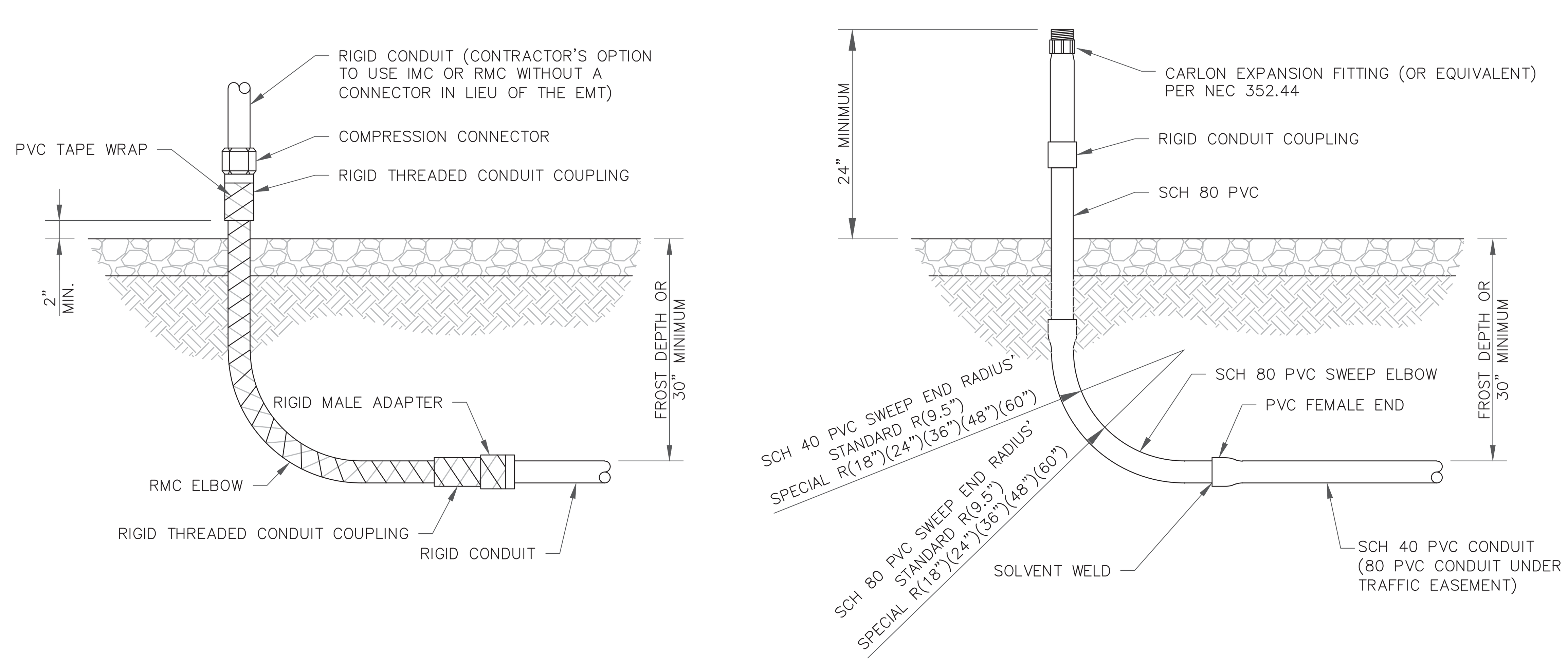
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: E-1
REVISION: 1

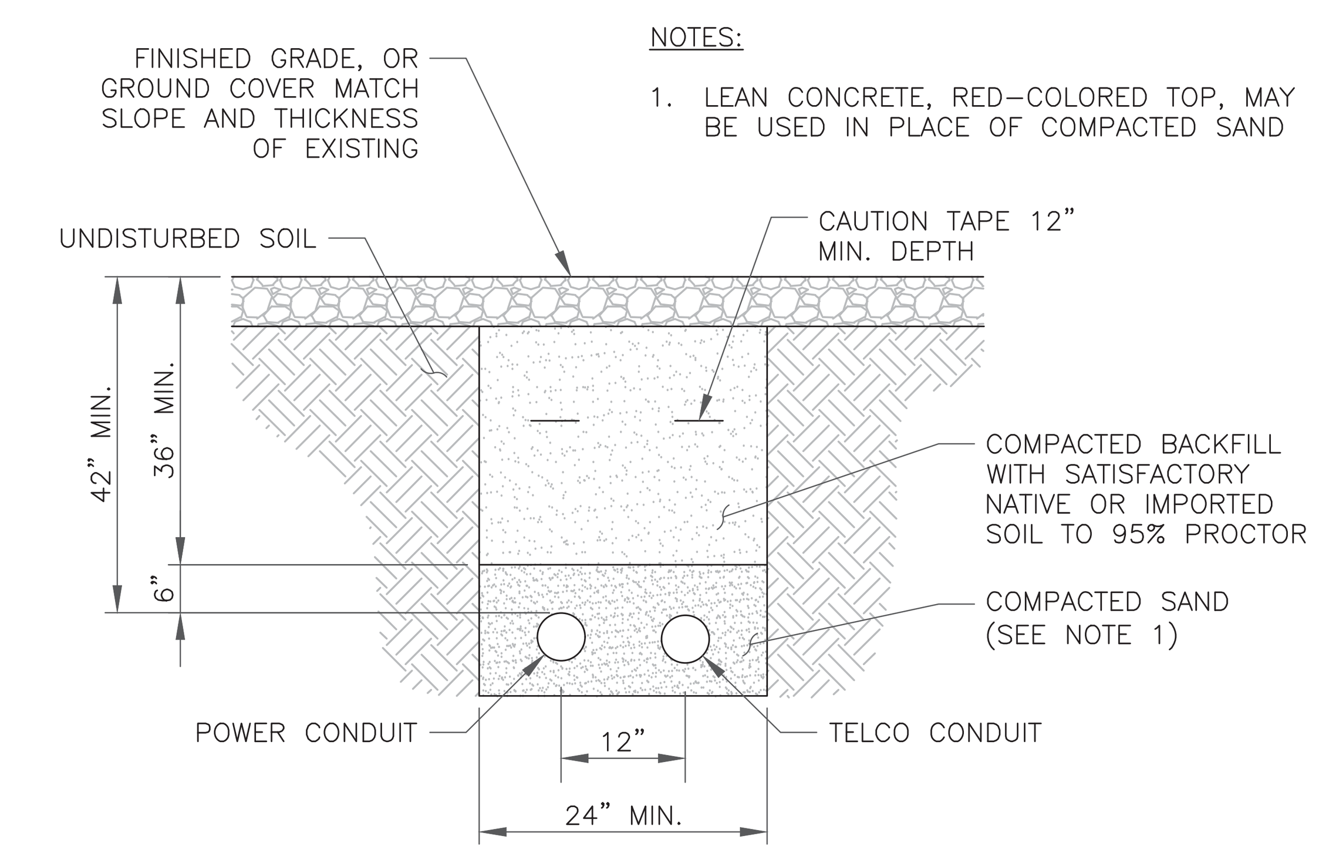
1 NOT USED
SCALE: NOT TO SCALE

INSTALLER NOTES:

ALL METAL CONDUIT INSTALLED IN DIRECT CONTACT WITH THE EARTH SHALL BE CONSIDERED TO BE INSTALLED IN A SEVERELY CORROSIVE ENVIRONMENT AND IS REQUIRED TO HAVE SUPPLEMENTAL PROTECTION AGAINST CORROSION (NEC ARTICLE 342.10(B) & 344.10(B)(1)). THIS PROTECTION SHALL EITHER BE AN APPROVED MANUFACTURER INSTALLED PROTECTIVE COATING ON THE CONDUIT OR SHALL BE (2) LAYERS OF 10 MIL PVC PIPE WRAP TAPE INSTALLED USING OPPOSING SPIRAL WRAPS. ON VERTICAL PIPE THE OUTSIDE LAYER OF TAPE SHALL BE WRAPPED SO AS TO PROVIDE SHEDDING OF WATER (i.e. TAPE SHOULD WRAP IN AN UPWARD DIRECTION WITH LOWER WRAP BEING BENEATH THE WRAP ABOVE). SPIRAL WRAPS SHALL HAVE A MINIMUM OF 1/4" OVERLAP WITH THE PRECEDING TAPE WRAP. ANY OTHER METHODS OF CORROSION PROTECTION SHALL REQUIRE APPROVAL BY THE ENGINEER OF RECORD PRIOR TO BEING USED.



2 CONDUIT STUB UP DETAILS
SCALE: NOT TO SCALE



NOTES:

1. LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND

3 TRENCH DETAIL
SCALE: NOT TO SCALE

T-Mobile

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4/23/24

MTS ENGINEERING P.L.L.C.
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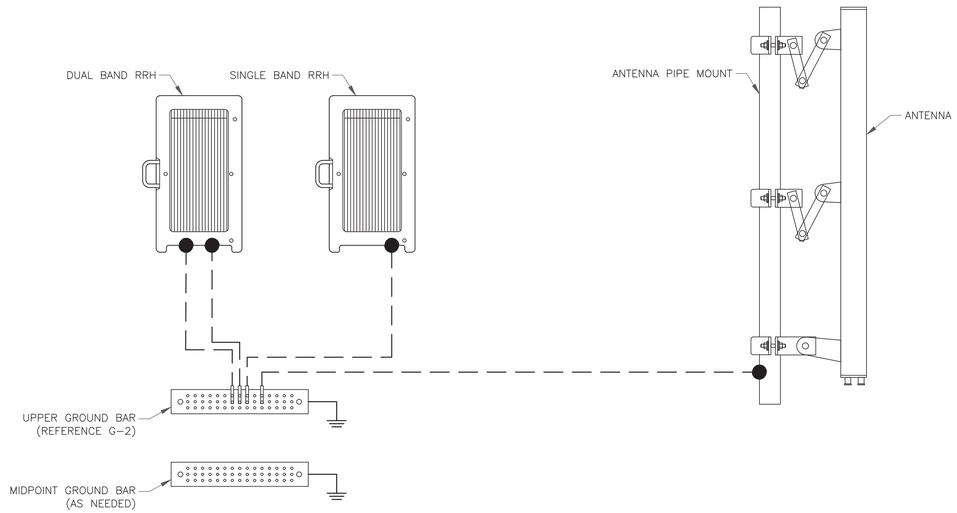
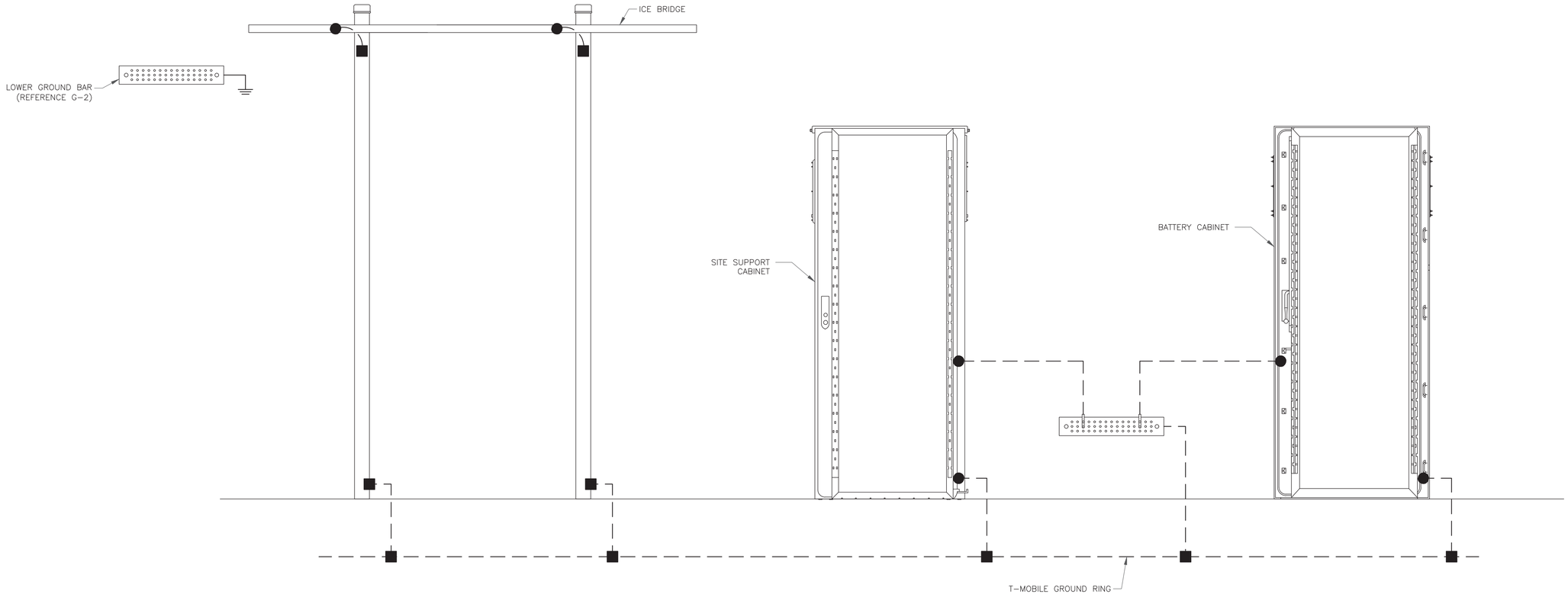
SHEET NUMBER: E-2
REVISION: 1



ANTENNA LEVEL

GROUND LEVEL



1 TYPICAL FINAL GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

- #6 STRANDED COPPER WITH GREEN INSULATION GROUND WIRE
- #2 STRANDED COPPER WITH GREEN INSULATION GROUND WIRE
- #2 BARE, SOLID, TINNED COPPER GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- GROUND ROD W/ TEST WELL

NOTE:

SEE FINAL EQUIPMENT PLAN FOR NEW EQUIPMENT REQUIRING GROUNDING. CONTRACTOR TO VERIFY EXISTING EQUIPMENT GROUNDING IN FIELD. CONTRACTOR TO VERIFY IN FIELD AND INSTALL ANY MISSING T-MOBILE GROUND BARS ON SITE.

T-Mobile

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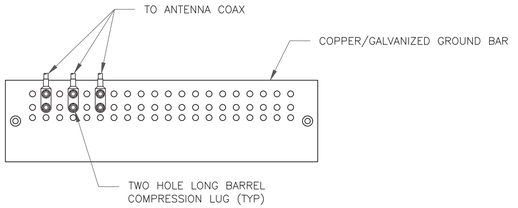
BER:2386985
Expires 3/31/24

SHEET NUMBER: G-1

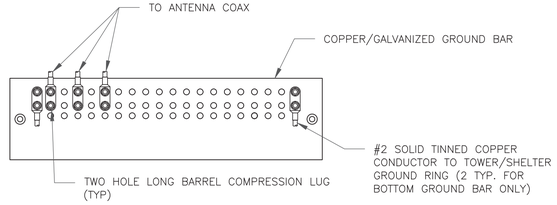
REVISION: 1



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

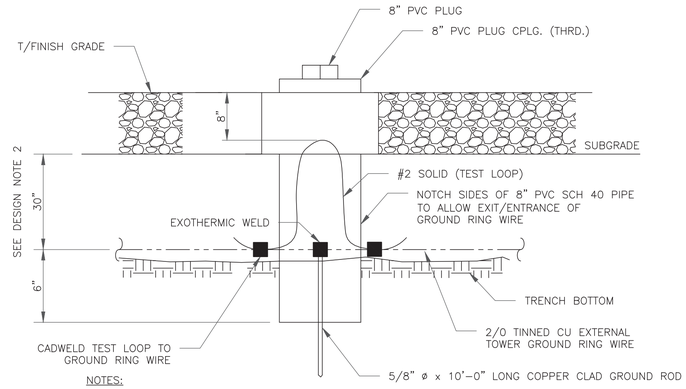
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

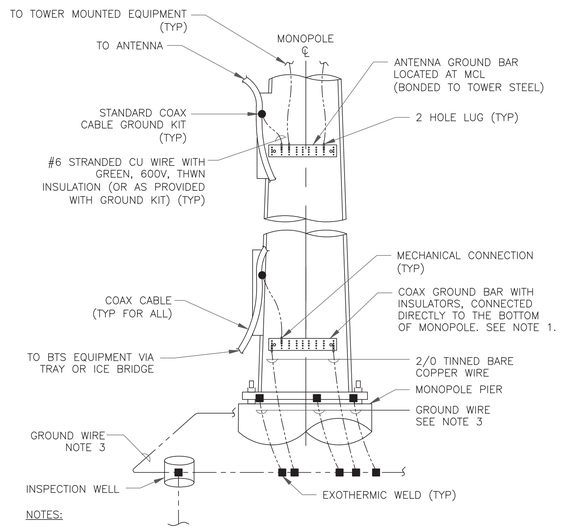
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

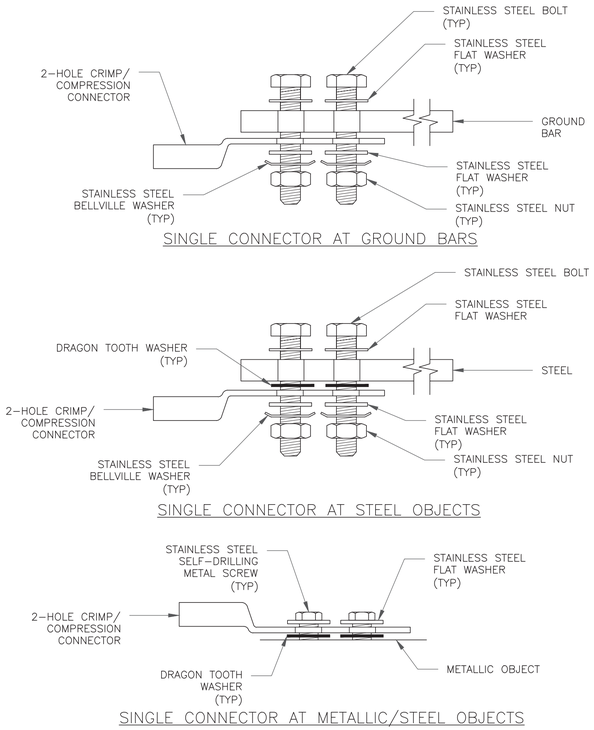
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



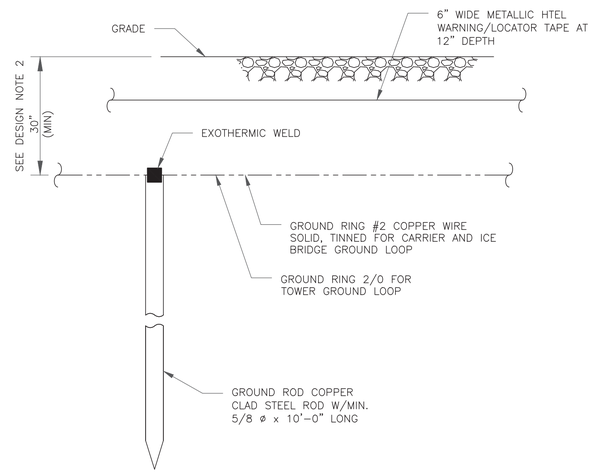
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

T-Mobile

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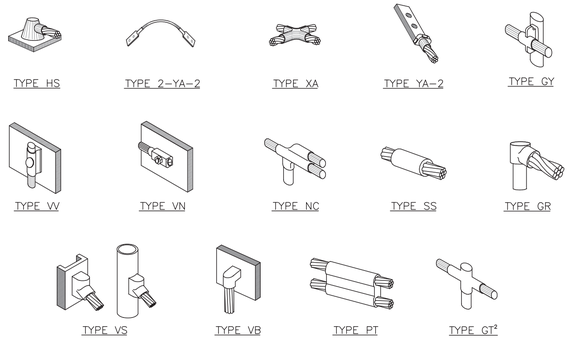
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: G-2

REVISION: 1

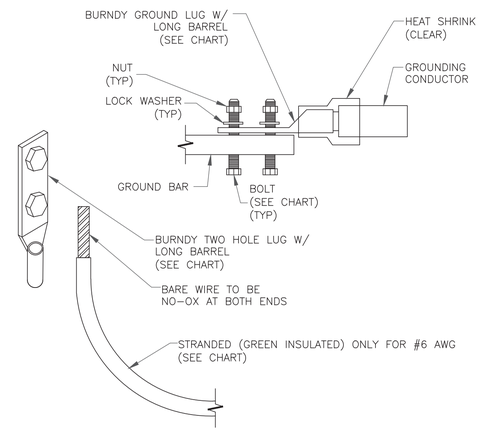


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

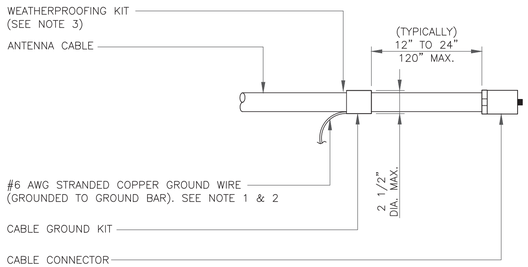
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" – 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" – 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" – 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" – 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" – 16 NC S 2 BOLT



NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER,GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

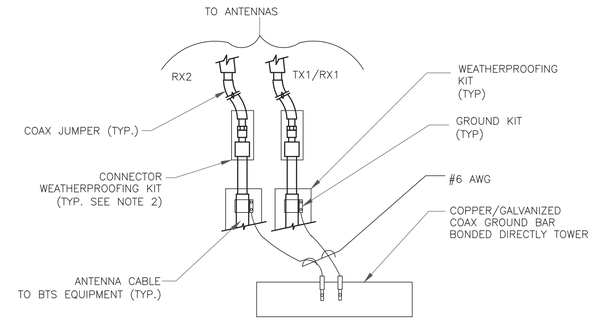
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

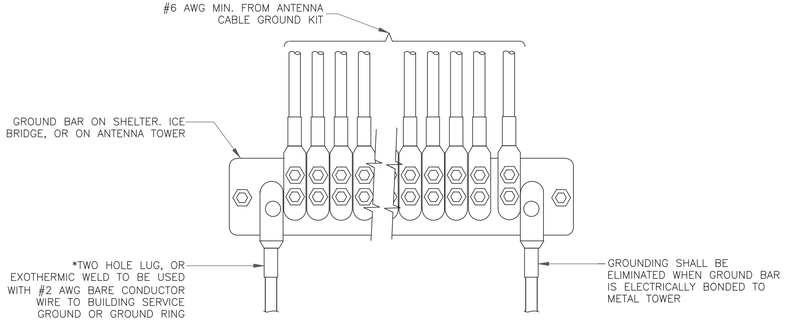
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



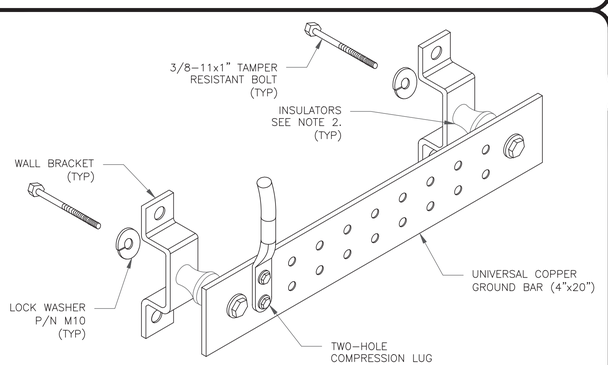
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



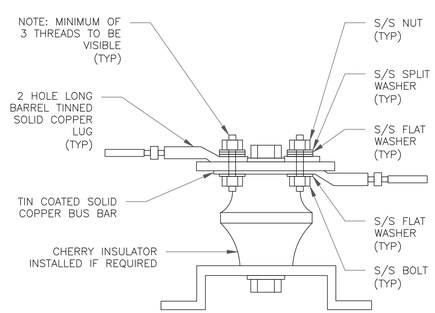
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



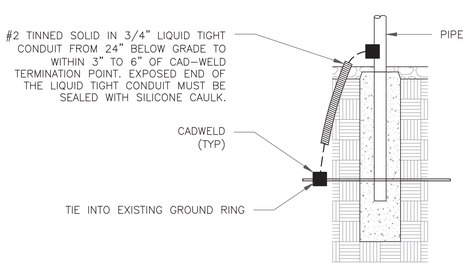
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

T-Mobile

CROWN CASTLE

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

T-MOBILE SITE NUMBER:
CT11035E

BU #: **841289**
CROWN CASTLE SITE NAME:
OLD SAYBROOK

170 INGHAM HILL ROAD
SAYBROOK, CT 06475

EXISTING 150'-3"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/10/24	FM	CONSTRUCTION	TDG
1	4/23/24	FM	CONSTRUCTION	TDG

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/24

SHEET NUMBER: G-3

REVISION: 1

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Section 1 - Site Information

Site ID: CT11035E
Status: Draft
Version: 7
Project Type: Anchor
Approved: Not approved
Approved By: Not approved
Last Modified: 02/22/2024 3:33:43 PM
Last Modified By: Dessa.Jiminez4@T-Mobile.com

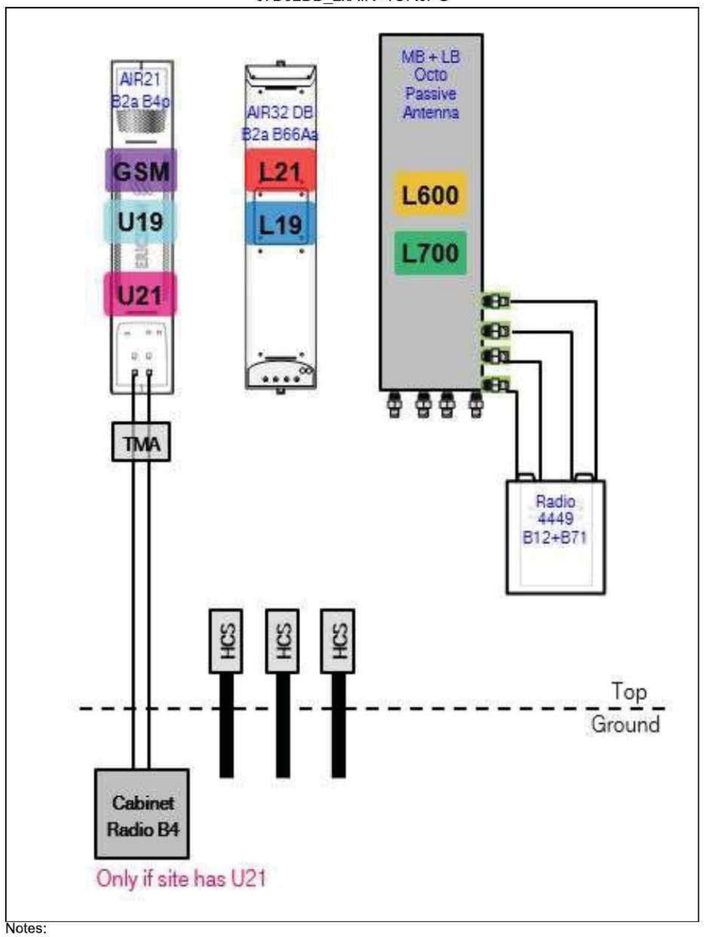
Site Name: OldSaybrookSNETMobili_1
Site Class: Monopole
Site Type: Structure Non Building
Plan Year:
Market: CONNECTICUT CT
Vendor: Ericsson
Landlord: Crown Castle ATT

Latitude: 41.309883
Longitude: -72.397495
Address: 170 Ingham Hill Road
City, State: Old Saybrook, CT
Region: NORTHEAST

RAN Template: 67D5D998E 6160			AL Template: 67D5998E_1xAIR+1OP+1QP	
Sector Count: 3	**Antenna Count:** 9	**Coax Line Count:** 0	**TMA Count:** 0	**RRU Count:** 6

Section 2 - Existing Template Images

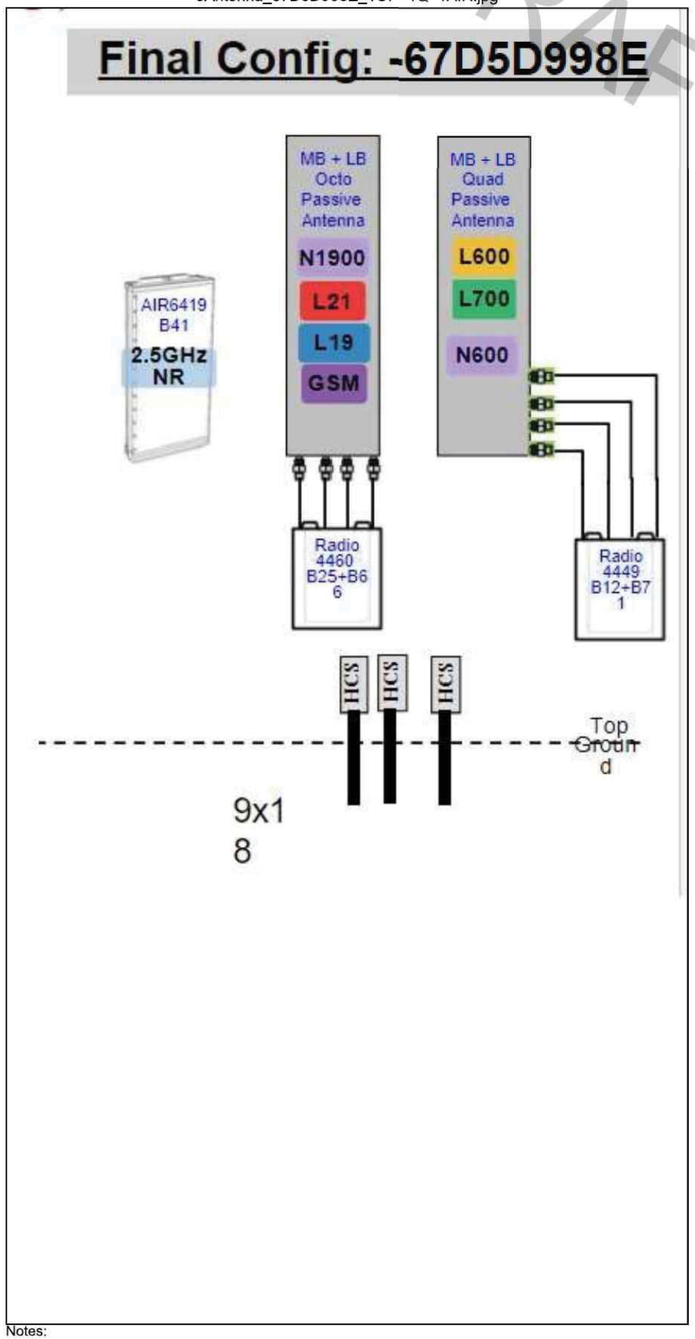
67D92DB_2xAIR+1OP.JPG



Notes:

Section 3 - Proposed Template Images

3Antenna_67D5D998E_1OP+1Q+1AIR.jpg



Notes:

Section 4 - Siteplan Images

----- This section is intentionally blank. -----

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Section 5 - RAN Equipment

Existing RAN Equipment

Template: 67D92DB Outdoor

Enclosure	1
Enclosure Type	RBS 6102
Radio	RUS01 B4 (x6) [U2100 (DECOMMISSIONED)]
Baseband	BB 6630 [L1900] [L2100]; BB 6630 [N600] [L600] [L700]; DUG20 [G1900]; DUW30 [U2100 (DECOMMISSIONED)]
Transport System	CSR 7705 SAR M
Hybrid Cable System	Ericsson 6x12 HCS *Select Length & AWG* (x3); Ericsson 9x18 HCS *Select Length*

Proposed RAN Equipment

Template: 67D5D998E 6160

Enclosure	1	2	3
Enclosure Type	Enclosure 6160_v2 AC	RBS 6601	B160
Baseband	BB 6630 [N1900] [L1900] [L2100]; BB 6630 [N600] [L600] [L700]; RP 6651 [N2500]	DUG20 [G1900]	
Transport System	CSR IXRe V2 (Gen2)		
Hybrid Cable System	Hybrid Trunk 6/24 4AWG 60m (x3)		

RAN Scope of Work:

RF Notes: Need to verify if it is possible to keep the mount azimuth same as to antenna azimuth :80/200 320 to avoid skew.

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Section 6 - A&L Equipment

Existing Template: 67D92DB_2xAIR+1OP
Proposed Template: 67D5998E_1xAIR+1OP+1QP

Sector 1 (Existing) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1		2		3			
Antenna Model	Ericsson - AIR21 KRC118023-1_B2A_B4P (Quad)		Ericsson - AIR21 KRC118023-1_B2P_B4A (Quad)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	80		80		80			
M. Tilt	0		0		0			
Height (ft)	140		140		141			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech	G1900 L1900		L2100		N600 L700 L600	N600 L700 L600		
Dark Tech								
Restricted Tech								
Decomm. Tech		U2100						
E. Tilt	2	2	2	2		2	2	
Cables	Fiber Jumper **(x2)**	1-1/4" Coax - 169 ft. **(x2)**	Fiber Jumper		Coax Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper		
TMAs		Generic Twin Style 1B - AWS (At Antenna)						
Diplexer / Combiners								
Radio					Radio 4449 B71+B85 (At Antenna)	Radio 4449 B71+B85 (At Antenna)		
Sector Equipment								

Unconnected Equipment:

Cable: Fiber Jumper

Scope of Work:

Replace LB Dual in Position 3 with (1) LB/MB Octo.
Replace RRUS11 B12 in Position 3 with (1) Radio 4449 B71+B12 for L600 and L700.

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Sector 1 (Proposed) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1		2		3			
Antenna Model	RFS_APXVLL19P_43-C-A20 (Quad)		AIR 6419 B41 (Active Antenna - Massive MIMO)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	80		80		80			
M. Tilt	0		0		0			
Height (ft)	140		140		141			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech	L2100 L1900 G1900 N1900	L2100 L1900 N1900	N2500	N2500	N600 L600 L700	N600 L600 L700		
Dark Tech								
Restricted Tech								
Decomm. Tech								
E. Tilt	2	2	2	2		2	2	
Cables	Fiber Jumper (At Antenna) **(x2)** Coax Jumper **(x4)**	Fiber Jumper (At Antenna) **(x2)** Coax Jumper **(x4)**	Fiber Jumper (At Antenna) **(x4)**	Fiber Jumper (At Antenna) **(x4)**	Coax Jumper (At Antenna) **(x4)** Fiber Jumper (At Antenna) **(x2)**	Coax Jumper (At Antenna) **(x4)** Fiber Jumper (At Antenna) **(x2)**		
TMAs								
Diplexer / Combiners								
Radio	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)			Radio 4449 B71+B85 (At Antenna)	Radio 4449 B71+B85 (At Antenna)		
Sector Equipment								

Unconnected Equipment:

Scope of Work:

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Sector 2 (Existing) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1		2		3			
Antenna Model	Ericsson - AIR21 KRC118023-1_B2A_B4P (Quad)		Ericsson - AIR21 KRC118023-1_B2P_B4A (Quad)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	200		200		200			
M. Tilt	0		0		0			
Height (ft)	140		140		141			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech	G1900 L1900		L2100		N600 L700 L600	N600 L700 L600		
Dark Tech								
Restricted Tech								
Decomm. Tech		U2100						
E. Tilt	2	2	2	2		2	2	
Cables	Fiber Jumper (x2)	1-1/4" Coax - 169 ft. (x2)	Fiber Jumper		Coax Jumper (x2)	Coax Jumper (x2) Fiber Jumper		
TMAs		Generic Twin Style 1B - AWS (At Antenna)						
Diplexer / Combiners								
Radio					Radio 4449 B71+B85 (At Antenna)	— Radio 4449 B71+B85 (At Antenna)		
Sector Equipment								

Unconnected Equipment:

Cable: Fiber Jumper

Scope of Work:

Replace LB Dual in Position 3 with (1) LB/MB Octo.
Replace RRUS11 B12 in Position 3 with (1) Radio 4449 B71+B12 for L600 and L700.

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Sector 2 (Proposed) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1		2		3			
Antenna Model	RFS_APXVLL19P_43-C-A20 (Quad)		AIR 6419 B41 (Active Antenna - Massive MIMO)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	200		200		200			
M. Tilt	0		0		0			
Height (ft)	140		140		141			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech	L1900 L2100 G1900 N1900	L1900 L2100 N1900	N2500	N2500	N600 L700 L600	N600 L700 L600		
Dark Tech								
Restricted Tech								
Decomm. Tech								
E. Tilt	2	2	2	2		2	2	
Cables	Fiber Jumper (At Antenna) (x2) Coax Jumper (x4)	— Fiber Jumper (At Antenna) (x2) — Coax Jumper (x4)	Fiber Jumper (At Antenna) (x4)	— Fiber Jumper (At Antenna) (x4)	Coax Jumper (At Antenna) (x4) Fiber Jumper (At Antenna) (x2)	— Coax Jumper (At Antenna) (x4) — Fiber Jumper (At Antenna) (x2)		
TMAs								
Diplexer / Combiners								
Radio	Radio 4460 B25+B66 (At Antenna)	— Radio 4460 B25+B66 (At Antenna)			Radio 4449 B71+B85 (At Antenna)	— Radio 4449 B71+B85 (At Antenna)		
Sector Equipment								

Unconnected Equipment:

Scope of Work:

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Sector 3 (Existing) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1		2		3			
Antenna Model	Ericsson - AIR21 KRC118023-1_B2A_B4P (Quad)		Ericsson - AIR21 KRC118023-1_B2P_B4A (Quad)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	320		320		320			
M. Tilt	0		0		0			
Height (ft)	140		140		141			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech	G1900 L1900		L2100		N600 L700 L600	N600 L700 L600		
Dark Tech								
Restricted Tech								
Decomm. Tech		U2100						
E. Tilt	2	2	2	2		2	2	
Cables	Fiber Jumper (x2)	1-1/4" Coax - 169 ft. (x2)	Fiber Jumper		Coax Jumper (x2)	Coax Jumper (x2) Fiber Jumper		
TMAs		Generic Twin Style 1B - AWS (At Antenna)						
Diplexer / Combiners								
Radio					Radio 4449 B71+B85 (At Antenna)	Radio 4449 B71+B85 (At Antenna)		
Sector Equipment								

Unconnected Equipment:

Scope of Work:

Replace LB Dual in Position 3 with (1) LB/MB Octo.
Replace RRUS11 B12 in Position 3 with (1) Radio 4449 B71+B12 for L600 and L700.

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5D998E 6160	67D5998E_1xAIR+1OP+1QP

CT11035E_Anchor_7_draft

Print Name: Standard (1)
PORs: Anchor_Phase 3

Sector 3 (Proposed) view from behind

Coverage Type	A - Outdoor Macro							
Antenna	1		2		3			
Antenna Model	RFS_APXVLL19P_43-C-A20 (Quad)		AIR 6419 B41 (Active Antenna - Massive MIMO)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	320		320		320			
M. Tilt	0		0		0			
Height (ft)	140		140		141			
Ports	P1	P2	P3	P4	P5	P6	P7	P8
Active Tech	N1900 L1900 G1900 L2100	N1900 L1900 L2100	N2500	N2500	N600 L600 L700	N600 L600 L700		
Dark Tech								
Restricted Tech								
Decomm. Tech								
E. Tilt	2	2	2	2		2	2	
Cables	Fiber Jumper (At Antenna) (x2) Coax Jumper (x4)	Fiber Jumper (At Antenna) (x2) Coax Jumper (x4)	Fiber Jumper (At Antenna) (x4)	Fiber Jumper (At Antenna) (x4)	Coax Jumper (At Antenna) (x4) Fiber Jumper (At Antenna) (x2)	Coax Jumper (At Antenna) (x4) Fiber Jumper (At Antenna) (x2)		
TMAs								
Diplexer / Combiners								
Radio	Radio 4460 B25+B66 (At Antenna)	Radio 4460 B25+B66 (At Antenna)			Radio 4449 B71+B85 (At Antenna)	Radio 4449 B71+B85 (At Antenna)		
Sector Equipment								

Unconnected Equipment:

Scope of Work:

*A dashed border indicates shared connected equipment. Any shared equipment, besides the first, is denoted with the SHARED keyword.

EXHIBIT E

Structural Analysis Report

Date: **March 17, 2024**

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation:	***T-Mobile* Co-Locate**	
	Site Number:	CT11035E
	Site Name:	OldSaybrookSNETMobili_1
Crown Castle Designation:	**BU Number:**	841289
	Site Name:	Old Saybrook
	JDE Job Number:	2103534
	Work Order Number:	2288308
	Order Number:	658837 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	55790.939817
Site Data:	**170 Ingham Hill Road, Old Saybrook, Middlesex County, CT 06475** **Latitude *41° 18' 35.55"*, Longitude *-72° 23' 51.13"*** **150.2 Foot - Monopole Guyed Tower**	

Tower Engineering Professionals 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-94.5%**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: PPS / CS

Respectfully submitted by:

Aaron T. Rucker, P.E.

Electronic Copy

03/17/2024

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 150.2-ft monopole guyed tower designed by ITT Meyer. The tower has been modified multiple times in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	B
Topographic Factor:	1.0
Ice Thickness:	1.00 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)
141.0	141.0	3	RFS Celwave	APXVAALL24_43-U-NA20 w/ Mount Pipe	3	1-5/8
		3	Ericsson	RADIO 4449 B71 B85A_ T-MOBILE		
		1	Tower Mounts	Platform Mount [LP 303-1_HR-1]		
	140.0	3	Ericsson	AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe		
		3	RFS Celwave	APXVLL19P_43-C-A20_TMO w/ Mount Pipe		
		3	Ericsson	RADIO 4460 B2/B25 B66_TMO		

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)
151.0	153.0	3	Andrew	SBNHH-1D65A w/ Mount Pipe	2 4 12	3/8 3/4 1-1/4
		2	Raycap	DC6-48-60-18-8C		
		1	Ericsson	RRUS 32		
		2	Ericsson	RRUS 4426 B66		
	152.0	2	Quintel Technology	QS46512-2 w/ Mount Pipe		
		1	Kathrein	80010799 w/ Mount Pipe		
		2	Ericsson	RRUS 32		
		1	Ericsson	RRUS 4426 B66		
		3	Ericsson	RRUS E2 B29		
	151.0	2	CCI Antennas	OPA65R-BU4B w/ Mount Pipe		
		1	Tower Mounts	Platform Mount [LP 404-1_KCKR]		
	150.0	1	CCI Antennas	OPA65R-BU8B w/ Mount Pipe		
146.0	146.0	3	Powerwave Technologies	TT19-08BP111-001	-	-
		6	Kaelus	DBC0061F1V51-2		
		3	Ericsson	RADIO 4449 B5 B12_TMO		
		1	Tower Mounts	Pipe Mount [PM 601-3]		
132.0	133.0	3	Antel	BXA-80080/4CF w/ Mount Pipe	11 2	1-1/4 1-5/8
		4	Commscope	JAHH-65B-R3B w/ Mount Pipe		
		2	Commscope	JAHH-45B-R3B w/ Mount Pipe		
		3	Samsung Telecom.	MT6407-77A w/ Mount Pipe		
		3	Commscope	CBC78T-DS-43-2X		
		2	Kaelus	KA-6030		
		3	Samsung Telecom.	RF4440D-13A		
		1	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecom.	RF4439D-25A		
	132.0	1	Tower Mounts	Miscellaneous [NA 510-1]		
		1	Tower Mounts	Platform Mount [LP 403-1_KCKR]		
68.0	70.0	1	Kathrein	FMO	2	1/2
	69.0	1	Kathrein	FMO		
	68.0	2	Tower Mounts	Side Arm Mount [SO 305-1]		
20.0	20.0	1	Maxrad	MYA-43012N	1	5/16
		1	Tower Mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Geotechnical Report	4468634	CCISites
Foundation Mapping Report	4591935	CCISites
Tower Mapping Report	5204147	CCISites
Tower Reinforcement Drawings	4478711	CCISites
Post-Modification Inspection	4468635	CCISites
Tower Reinforcement Drawings	4489382	CCISites
Post-Modification Inspection	4489415	CCISites
Tower Reinforcement Drawings	5293057	CCISites
Post-Modification Inspection	5874000	CCISites
Tower Reinforcement Drawings	6254746	CCISites
Post-Modification Inspection	6444911	CCISites
Tower Reinforcement Drawings	8122612	CCISites
Tower Reinforcement Drawings	8292599	CCISites
Post-Modification Inspection	9017983	CCISites

3.1) Analysis Method

tnxTower (version 8.2.4.3), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

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

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)[1,2]

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP15.78x15x0.1875	Pole	16.2%	Pass
145 - 140	Pole	TP16.56x15.78x0.1875	Pole	29.4%	Pass
140 - 135	Pole	TP17.34x16.56x0.1875	Pole	46.2%	Pass
135 - 130	Pole	TP18.12x17.34x0.1875	Pole	66.2%	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
130 - 125	Pole	TP18.9x18.12x0.1875	Pole	86.6%	Pass
125 - 123.75	Pole	TP19.095x18.9x0.1875	Pole	91.4%	Pass
123.75 - 123.5	Pole + Reinf.	TP19.134x19.095x0.4563	Reinf. 7 Tension Rupture	63.4%	Pass
123.5 - 118.5	Pole + Reinf.	TP19.914x19.134x0.4375	Reinf. 7 Tension Rupture	76.2%	Pass
118.5 - 113.5	Pole + Reinf.	TP20.694x19.914x0.4313	Reinf. 7 Tension Rupture	87.9%	Pass
113.5 - 112.75	Pole + Reinf.	TP20.811x20.694x0.425	Reinf. 7 Tension Rupture	89.5%	Pass
112.75 - 112.5	Pole + Reinf.	TP20.85x20.811x1.0625	Reinf. 6 Tension Rupture	48.5%	Pass
112.5 - 110	Pole + Reinf.	TP21.24x20.85x1.0375	Reinf. 6 Tension Rupture	51.7%	Pass
110 - 107.25	Pole + Reinf.	TP21.696x21.24x1.075	Reinf. 6 Tension Rupture	51.7%	Pass
107.25 - 107	Pole + Reinf.	TP21.738x21.696x0.55	Reinf. 5 Tension Rupture	61.3%	Pass
107 - 102	Pole + Reinf.	TP22.568x21.738x0.5375	Reinf. 5 Tension Rupture	67.0%	Pass
102 - 97	Pole + Reinf.	TP23.398x22.568x0.525	Reinf. 5 Tension Rupture	72.4%	Pass
97 - 95	Pole + Reinf.	TP23.729x23.398x0.5188	Reinf. 5 Tension Rupture	74.4%	Pass
95 - 94.75	Pole + Reinf.	TP23.771x23.729x0.65	Reinf. 1 Tension Rupture	71.8%	Pass
94.75 - 89.75	Pole + Reinf.	TP24.601x23.771x0.625	Reinf. 1 Tension Rupture	76.6%	Pass
89.75 - 88.67	Pole + Reinf.	TP24.78x24.601x0.625	Reinf. 1 Tension Rupture	77.6%	Pass
88.67 - 87.75	Pole + Reinf.	TP24.932x24.78x0.625	Reinf. 1 Tension Rupture	77.0%	Pass
87.75 - 87.5	Pole + Reinf.	TP24.974x24.932x0.5875	Reinf. 1 Tension Rupture	88.8%	Pass
87.5 - 85.5	Pole + Reinf.	TP25.305x24.974x0.575	Reinf. 1 Tension Rupture	89.0%	Pass
85.5 - 85.25	Pole + Reinf.	TP25.346x25.305x0.775	Reinf. 4 Tension Rupture	69.1%	Pass
85.25 - 83	Pole + Reinf.	TP25.718x25.346x0.7625	Reinf. 4 Tension Rupture	69.3%	Pass
83 - 82.75	Pole + Reinf.	TP25.76x25.718x0.825	Reinf. 1 Tension Rupture	67.3%	Pass
82.75 - 82.5	Pole + Reinf.	TP25.801x25.76x0.65	Reinf. 2 Tension Rupture	78.4%	Pass
82.5 - 77.5	Pole + Reinf.	TP26.629x25.801x0.6375	Reinf. 2 Tension Rupture	78.3%	Pass
77.5 - 73.5	Pole + Reinf.	TP27.87x26.629x0.625	Reinf. 2 Tension Rupture	78.0%	Pass
73.5 - 69	Pole + Reinf.	TP27.482x26.791x0.6625	Reinf. 3 Tension Rupture	73.1%	Pass
69 - 64	Pole + Reinf.	TP28.249x27.482x0.6625	Reinf. 3 Tension Rupture	72.8%	Pass
64 - 59	Pole + Reinf.	TP29.017x28.249x0.65	Reinf. 3 Tension Rupture	72.3%	Pass
59 - 55.42	Pole + Reinf.	TP29.567x29.017x0.6375	Reinf. 3 Tension Rupture	71.9%	Pass
55.42 - 55.17	Pole + Reinf.	TP29.605x29.567x0.6375	Reinf. 3 Tension Rupture	71.8%	Pass
55.17 - 50.17	Pole + Reinf.	TP30.373x29.605x0.625	Reinf. 3 Tension Rupture	71.0%	Pass
50.17 - 47.17	Pole + Reinf.	TP30.834x30.373x0.625	Reinf. 3 Tension Rupture	70.4%	Pass
47.17 - 46.92	Pole	TP30.872x30.834x0.3125	Pole	94.5%	Pass
46.92 - 43.42	Pole	TP31.41x30.872x0.3125	Pole	93.2%	Pass
43.42 - 43.17	Pole	TP31.448x31.41x0.3125	Pole	93.1%	Pass
43.17 - 41.17	Pole	TP31.755x31.448x0.3125	Pole	92.3%	Pass
41.17 - 40.92	Pole + Reinf.	TP31.794x31.755x0.5875	Reinf. 8 Tension Rupture	69.1%	Pass
40.92 - 35.92	Pole + Reinf.	TP32.561x31.794x0.5875	Reinf. 8 Tension Rupture	67.6%	Pass
35.92 - 35.67	Pole + Reinf.	TP33.24x32.561x0.5875	Reinf. 8 Tension Rupture	67.6%	Pass
35.67 - 30.5	Pole	TP32.757x31.975x0.375	Pole	71.6%	Pass
30.5 - 25.5	Pole	TP33.514x32.757x0.375	Pole	69.6%	Pass
25.5 - 20.5	Pole	TP34.271x33.514x0.375	Pole	67.5%	Pass
20.5 - 15.5	Pole	TP35.028x34.271x0.375	Pole	65.3%	Pass
15.5 - 10.5	Pole	TP35.785x35.028x0.375	Pole	63.1%	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
10.5 - 5.5	Pole	TP36.542x35.785x0.375	Pole	61.0%	Pass
5.5 - 0.5	Pole	TP37.299x36.542x0.375	Pole	58.9%	Pass
0.5 - 0	Pole	TP37.375x37.299x0.375	Pole	58.4%	Pass
88.67 - 87.75	Guy A@88.67 (15 deg)	1 5/8	54	83.4%	Pass
88.67 - 87.75	Guy B@88.67 (15 deg)	1 3/8	53	57.6%	Pass
88.67 - 87.75	Guy C@88.67 (-15 deg)	1 3/8	52	69.4%	Pass
				Summary	
			Pole	94.5%	Pass
			Reinforcement	89.5%	Pass
			Guy A	83.4%	Pass
			Guy B	57.6%	Pass
			Guy C	69.4%	Pass
			Overall	**94.5%**	**Pass**

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Flange Connection	110.0	55.0	Pass
1,2	Guy Lug	88.7	88.6	Pass
1,2	Anchor Rods	-	54.7	Pass
1,2	Base plate	-	42.7	Pass
1,2	Mast Foundation Structural	-	39.2	Pass
1,2	Mast Foundation Soil Interaction	-	63.7	Pass
1,2	Guy Anchor Shaft (Inner)	-	83.9	Pass
1,2	Guy Anchor Structural (Inner)	-	74.6	Pass
1,2	Guy Anchor Soil Interaction (Inner)	-	70.5	Pass
1,2	Guy Anchor Shaft (Outer)	-	49.8	Pass
1,2	Guy Anchor Structural (Outer)	-	33.4	Pass
1,2	Guy Anchor Soil Interaction (Outer)	-	47.1	Pass

Structure Rating (max from all components) =	**94.5%**

Notes:
1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
2) Rating per TIA-222-H Section 15.5

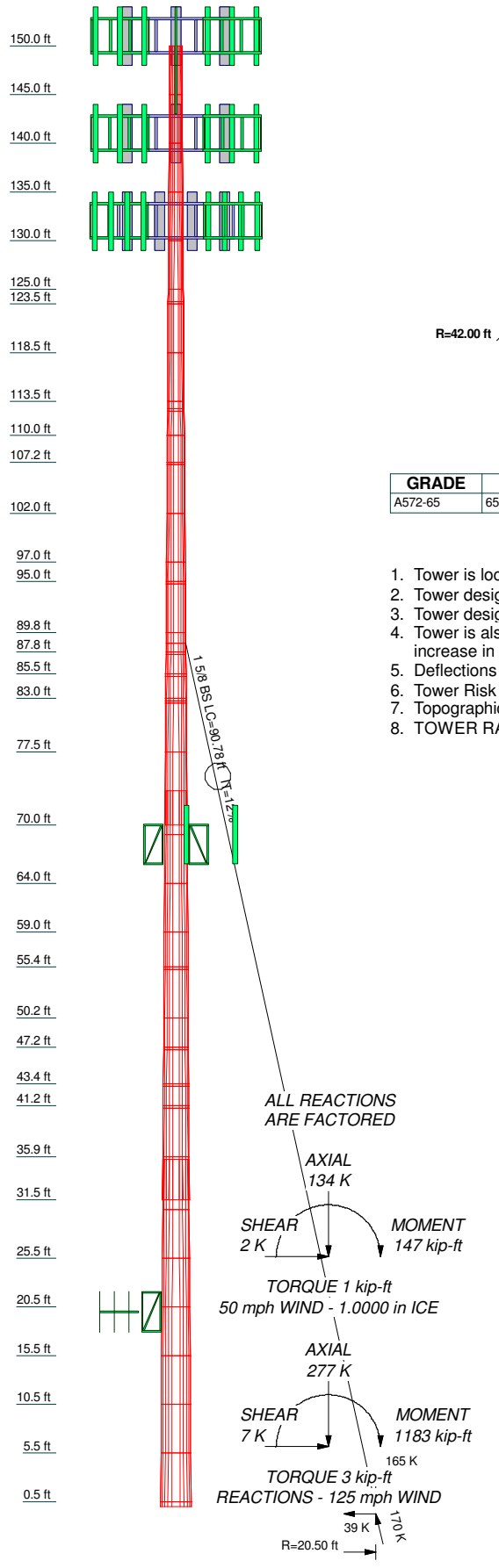
4.1) Recommendations

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

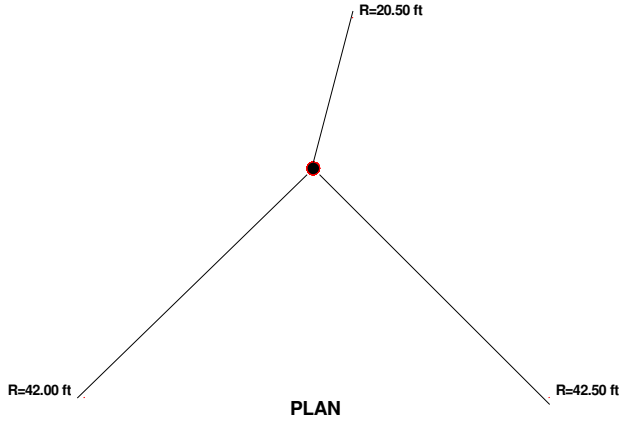
APPENDIX A

TNXTOWER OUTPUT

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	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Length (ft)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.50
Number of Sides	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Thickness (in)	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.4375	0.4375	0.3750	0.3750	0.3750	0.3750	0.3750	0.5313	0.5250	0.3750	0.3750	0.6250	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750	0.6250	0.6250	0.6250	0.6250	0.6250	0.6250	0.6500	0.6875	0.6875	0.6250	0.6250	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875
Socket Length (ft)																													3.50														4.17											
Top Dia (in)	15.0000	15.7800	16.5600	17.3400	18.1200	18.9000	19.6800	19.1460	19.9140	20.6940	21.4740	22.2540	23.0340	23.8140	21.7200	22.5677	23.3477	24.1277	24.9077	25.6877	26.4677	27.2477	28.0277	28.8077	29.5877	25.8000	26.6287	27.4087	27.7900	28.2495	29.0173	29.7972	30.5772	31.3572	32.1372	32.9172	33.6972	34.4772	35.2572	36.0372	36.8172	37.5972	38.3772	32.7571	33.5144	34.2714	35.0284	35.7853	36.5423	37.2993
Bot Dia (in)	15.7800	16.5600	17.3400	18.1200	18.9000	19.6800	20.4600	19.9140	20.6940	21.4740	22.2540	23.0340	23.8140	24.5940	22.5677	23.3477	24.1277	24.9077	25.6877	26.4677	27.2477	28.0277	28.8077	29.5877	30.3677	26.6287	27.4087	28.1887	27.7900	29.0173	29.7972	30.5772	31.3572	32.1372	32.9172	33.6972	34.4772	35.2572	36.0372	36.8172	37.5972	38.3772	39.1572	33.5144	34.2714	35.0284	35.7853	36.5423	37.2993	37.8700
Grade	A572-65																																																			
Weight (K)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.7	0.7	0.3	0.3	0.9	0.2	0.2	0.2	0.2	0.2	0.2	0.9	1.4	0.9	0.8	0.9	0.9	0.9	0.7	0.0	1.0	0.6	0.4	0.0	0.0	0.0	1.0	0.0	0.0	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.1



ALL REACTIONS ARE FACTORED



PLAN

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Middlesex County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 94.5%

Tower Engineering Professionals

Tower Engineering Professionals
326 Tryon Road
Raleigh. NC 27603
Phone: (919) 661-6351
FAX: (919) 661-6350

Job: ***Old Saybrook (BU 841289)***			
Project: ***TEP No. 55790.939817***			
Client: Crown Castle	Drawn by: MS	App'd:	
Code: TIA-222-H	Date: 03/17/24	Scale: NTS	
Path:		Dwg No. E-1	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:
Tower is located in Middlesex County, Connecticut.
Tower base elevation above sea level: 159.00 ft.
Basic wind speed of 125 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Safety factor used in guy design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-145.00	5.00	0.00	12	15.0000	15.7800	0.1875	0.7500	A572-65 (65 ksi)
L2	145.00-140.00	5.00	0.00	12	15.7800	16.5600	0.1875	0.7500	A572-65 (65 ksi)
L3	140.00-135.00	5.00	0.00	12	16.5600	17.3400	0.1875	0.7500	A572-65 (65 ksi)
L4	135.00-130.00	5.00	0.00	12	17.3400	18.1200	0.1875	0.7500	A572-65 (65 ksi)
L5	130.00-125.00	5.00	0.00	12	18.1200	18.9000	0.1875	0.7500	A572-65 (65 ksi)
L6	125.00-123.75	1.25	0.00	12	18.9000	19.0950	0.1875	0.7500	A572-65 (65 ksi)
L7	123.75-123.50	0.25	0.00	12	19.0950	19.1340	0.4562	1.8250	A572-65 (65 ksi)
L8	123.50-118.50	5.00	0.00	12	19.1340	19.9140	0.4375	1.7500	A572-65 (65 ksi)
L9	118.50-113.50	5.00	0.00	12	19.9140	20.6940	0.4313	1.7250	A572-65 (65 ksi)
L10	113.50-112.75	0.75	0.00	12	20.6940	20.8110	0.4250	1.7000	A572-65 (65 ksi)
L11	112.75-112.50	0.25	0.00	12	20.8110	20.8500	1.0625	4.2500	A572-65 (65 ksi)
L12	112.50-110.00	2.50	0.00	12	20.8500	21.2400	1.0375	4.1500	A572-65 (65 ksi)
L13	110.00-107.25	2.75	0.00	12	21.2400	21.6964	1.0750	4.3000	A572-65 (65 ksi)
L14	107.25-107.00	0.25	0.00	12	21.6964	21.7379	0.5500	2.2000	A572-65 (65 ksi)
L15	107.00-102.00	5.00	0.00	12	21.7379	22.5677	0.5375	2.1500	A572-65 (65 ksi)
L16	102.00-97.00	5.00	0.00	12	22.5677	23.3975	0.5250	2.1000	A572-65 (65 ksi)
L17	97.00-95.00	2.00	0.00	12	23.3975	23.7295	0.5188	2.0750	A572-65 (65 ksi)
L18	95.00-94.75	0.25	0.00	12	23.7295	23.7709	0.6500	2.6000	A572-65 (65 ksi)
L19	94.75-89.75	5.00	0.00	12	23.7709	24.6008	0.6250	2.5000	A572-65 (65 ksi)
L20	89.75-88.67	1.08	0.00	12	24.6008	24.7800	0.6250	2.5000	A572-65 (65 ksi)
L21	88.67-87.75	0.92	0.00	12	24.7800	24.9323	0.6250	2.5000	A572-65 (65 ksi)
L22	87.75-87.50	0.25	0.00	12	24.9323	24.9736	0.5875	2.3500	A572-65 (65 ksi)
L23	87.50-85.50	2.00	0.00	12	24.9736	25.3047	0.5750	2.3000	A572-65 (65 ksi)
L24	85.50-85.25	0.25	0.00	12	25.3047	25.3460	0.7750	3.1000	A572-65 (65 ksi)
L25	85.25-83.00	2.25	0.00	12	25.3460	25.7184	0.7625	3.0500	A572-65 (65 ksi)
L26	83.00-82.75	0.25	0.00	12	25.7184	25.7598	0.8250	3.3000	A572-65 (65 ksi)
L27	82.75-82.50	0.25	0.00	12	25.7598	25.8012	0.6500	2.6000	A572-65 (65 ksi)
L28	82.50-77.50	5.00	0.00	12	25.8012	26.6287	0.6375	2.5500	A572-65 (65 ksi)
L29	77.50-70.00	7.50	3.50	12	26.6287	27.8700	0.6250	2.5000	A572-65 (65 ksi)
L30	70.00-69.00	4.50	0.00	12	26.7907	27.4817	0.6625	2.6500	A572-65 (65 ksi)
L31	69.00-64.00	5.00	0.00	12	27.4817	28.2495	0.6625	2.6500	A572-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
									(65 ksi)
L32	64.00-59.00	5.00	0.00	12	28.2495	29.0173	0.6500	2.6000	A572-65 (65 ksi)
L33	59.00-55.42	3.58	0.00	12	29.0173	29.5670	0.6375	2.5500	A572-65 (65 ksi)
L34	55.42-55.17	0.25	0.00	12	29.5670	29.6054	0.6375	2.5500	A572-65 (65 ksi)
L35	55.17-50.17	5.00	0.00	12	29.6054	30.3731	0.6250	2.5000	A572-65 (65 ksi)
L36	50.17-47.17	3.00	0.00	12	30.3731	30.8338	0.6250	2.5000	A572-65 (65 ksi)
L37	47.17-46.92	0.25	0.00	12	30.8338	30.8722	0.3125	1.2500	A572-65 (65 ksi)
L38	46.92-43.42	3.50	0.00	12	30.8722	31.4096	0.3125	1.2500	A572-65 (65 ksi)
L39	43.42-43.17	0.25	0.00	12	31.4096	31.4480	0.3125	1.2500	A572-65 (65 ksi)
L40	43.17-41.17	2.00	0.00	12	31.4480	31.7551	0.3125	1.2500	A572-65 (65 ksi)
L41	41.17-40.92	0.25	0.00	12	31.7551	31.7935	0.5875	2.3500	A572-65 (65 ksi)
L42	40.92-35.92	5.00	0.00	12	31.7935	32.5613	0.5875	2.3500	A572-65 (65 ksi)
L43	35.92-31.50	4.42	4.17	12	32.5613	33.2400	0.5875	2.3500	A572-65 (65 ksi)
L44	31.50-30.50	5.17	0.00	12	31.9747	32.7574	0.3750	1.5000	A572-65 (65 ksi)
L45	30.50-25.50	5.00	0.00	12	32.7574	33.5144	0.3750	1.5000	A572-65 (65 ksi)
L46	25.50-20.50	5.00	0.00	12	33.5144	34.2714	0.3750	1.5000	A572-65 (65 ksi)
L47	20.50-15.50	5.00	0.00	12	34.2714	35.0284	0.3750	1.5000	A572-65 (65 ksi)
L48	15.50-10.50	5.00	0.00	12	35.0284	35.7853	0.3750	1.5000	A572-65 (65 ksi)
L49	10.50-5.50	5.00	0.00	12	35.7853	36.5423	0.3750	1.5000	A572-65 (65 ksi)
L50	5.50-0.50	5.00	0.00	12	36.5423	37.2993	0.3750	1.5000	A572-65 (65 ksi)
L51	0.50-0.00	0.50		12	37.2993	37.3750	0.3750	1.5000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	15.4630	8.9430	250.4541	5.3029	7.7700	32.2335	507.4880	4.4015	3.5175	18.76
	16.2705	9.4140	292.1395	5.5821	8.1740	35.7399	591.9539	4.6333	3.7265	19.875
L2	16.2705	9.4140	292.1395	5.5821	8.1740	35.7399	591.9539	4.6333	3.7265	19.875
	17.0780	9.8849	338.2113	5.8614	8.5781	39.4274	685.3078	4.8650	3.9356	20.99
L3	17.0780	9.8849	338.2113	5.8614	8.5781	39.4274	685.3078	4.8650	3.9356	20.99
	17.8855	10.3558	388.8887	6.1406	8.9821	43.2959	787.9940	5.0968	4.1446	22.105
L4	17.8855	10.3558	388.8887	6.1406	8.9821	43.2959	787.9940	5.0968	4.1446	22.105
	18.6931	10.8267	444.3914	6.4198	9.3862	47.3454	900.4574	5.3286	4.3537	23.22
L5	18.6931	10.8267	444.3914	6.4198	9.3862	47.3454	900.4574	5.3286	4.3537	23.22
	19.5006	11.2977	504.9386	6.6991	9.7902	51.5759	1023.1424	5.5604	4.5627	24.334

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L6	19.5006	11.2977	504.9386	6.6991	9.7902	51.5759	1023.1424	5.5604	4.5627	24.334
	19.7025	11.4154	520.8893	6.7689	9.8912	52.6618	1055.4629	5.6183	4.6150	24.613
L7	19.6077	27.3827	1214.2135	6.6727	9.8912	122.7568	2460.3257	13.4769	3.8947	8.536
	19.6480	27.4399	1221.8514	6.6866	9.9114	123.2772	2475.8021	13.5051	3.9052	8.559
L8	19.6546	26.3387	1175.1703	6.6933	9.9114	118.5674	2381.2137	12.9631	3.9554	9.041
	20.4622	27.4375	1328.4727	6.9726	10.3155	128.7847	2691.8458	13.5039	4.1645	9.519
L9	20.4644	27.0542	1310.7555	6.9748	10.3155	127.0672	2655.9461	13.3153	4.1812	9.696
	21.2719	28.1374	1474.5724	7.2541	10.7195	137.5599	2987.8834	13.8484	4.3902	10.18
L10	21.2741	27.7381	1454.5469	7.2563	10.7195	135.6918	2947.3063	13.6519	4.4070	10.369
	21.3952	27.8982	1479.8811	7.2982	10.7801	137.2790	2998.6402	13.7307	4.4383	10.443
L11	21.1703	67.5646	3363.3581	7.0700	10.7801	311.9970	6815.0753	33.2532	2.7298	2.569
	21.2107	67.6980	3383.3236	7.0839	10.8003	313.2620	6855.5310	33.3189	2.7403	2.579
L12	21.2195	66.1886	3316.2538	7.0929	10.8003	307.0520	6719.6294	32.5760	2.8073	2.706
	21.6233	67.4915	3515.9709	7.2325	11.0023	319.5663	7124.3103	33.2173	2.9118	2.807
L13	21.6100	69.8011	3622.8051	7.2191	11.0023	329.2765	7340.7852	34.3540	2.8113	2.615
	22.0825	71.3810	3874.4018	7.3825	11.2387	344.7365	7850.5885	35.1315	2.9336	2.729
L14	22.2677	37.4503	2137.5377	7.5704	11.2387	190.1938	4331.2309	18.4319	4.3406	7.892
	22.3107	37.5238	2150.1445	7.5853	11.2602	190.9504	4356.7756	18.4680	4.3518	7.912
L15	22.3151	36.6926	2104.9987	7.5897	11.2602	186.9411	4265.2982	18.0590	4.3853	8.159
	23.1742	38.1288	2361.9790	7.8868	11.6901	202.0500	4786.0097	18.7658	4.6076	8.572
L16	23.1786	37.2632	2310.9785	7.8913	11.6901	197.6873	4682.6690	18.3398	4.6411	8.84
	24.0377	38.6660	2581.9240	8.1884	12.1199	213.0315	5231.6781	19.0302	4.8635	9.264
L17	24.0399	38.2161	2553.2788	8.1906	12.1199	210.6680	5173.6350	18.8088	4.8803	9.408
	24.3835	38.7706	2666.0280	8.3094	12.2919	216.8939	5402.0955	19.0817	4.9692	9.579
L18	24.3372	48.3053	3284.2151	8.2624	12.2919	267.1863	6654.7103	23.7744	4.6175	7.104
	24.3802	48.3921	3301.9596	8.2773	12.3133	268.1610	6690.6653	23.8171	4.6286	7.121
L19	24.3890	46.5812	3185.2712	8.2862	12.3133	258.6844	6454.2231	22.9259	4.6956	7.513
	25.2481	48.2512	3540.2908	8.5833	12.7432	277.8182	7173.5889	23.7478	4.9180	7.869
L20	25.2481	48.2512	3540.2908	8.5833	12.7432	277.8182	7173.5889	23.7478	4.9180	7.869
	25.4337	48.6119	3620.2867	8.6475	12.8360	282.0408	7335.6824	23.9253	4.9660	7.946
L21	25.4337	48.6119	3620.2867	8.6475	12.8360	282.0408	7335.6824	23.9253	4.9660	7.946
	25.5913	48.9184	3689.1828	8.7020	12.9149	285.6529	7475.2846	24.0761	5.0068	8.011
L22	25.6045	46.0542	3483.9066	8.7154	12.9149	269.7584	7059.3394	22.6665	5.1073	8.693
	25.6474	46.1325	3501.7004	8.7302	12.9363	270.6870	7095.3944	22.7050	5.1184	8.712
L23	25.6518	45.1741	3432.4691	8.7347	12.9363	265.3353	6955.1129	22.2333	5.1519	8.96
	25.9945	45.7870	3574.0765	8.8532	13.1078	272.6677	7242.0479	22.5349	5.2406	9.114
L24	25.9239	61.2138	4701.2987	8.7816	13.1078	358.6639	9526.1057	30.1275	4.7046	6.071
	25.9668	61.3170	4725.1289	8.7964	13.1292	359.8934	9574.3923	30.1784	4.7157	6.085
L25	25.9712	60.3587	4656.0159	8.8009	13.1292	354.6294	9434.3505	29.7067	4.7492	6.229
	26.3567	61.2730	4870.8239	8.9342	13.3221	365.6187	9869.6097	30.1567	4.8490	6.359
L26	26.3346	66.1294	5230.5754	8.9118	13.3221	392.6227	10598.5639	32.5469	4.6815	5.675
	26.3775	66.2393	5256.7004	8.9267	13.3436	393.9499	10651.5003	32.6010	4.6926	5.688
L27	26.4392	52.5548	4229.4581	8.9893	13.3436	316.9659	8570.0289	25.8659	5.1616	7.941
	26.4820	52.6414	4250.4011	9.0041	13.3650	318.0246	8612.4649	25.9085	5.1727	7.958
L28	26.4865	51.6547	4174.8811	9.0086	13.3650	312.3740	8459.4409	25.4229	5.2062	8.167
	27.3432	53.3534	4600.4594	9.3049	13.7937	333.5196	9321.7780	26.2589	5.4280	8.514
L29	27.3476	52.3325	4516.7648	9.3093	13.7937	327.4520	9152.1901	25.7564	5.4615	8.738
	28.6327	54.8306	5194.9608	9.7537	14.4367	359.8451	10526.3990	26.9859	5.7942	9.271
L30	28.0585	55.7380	4856.8823	9.3539	13.8776	349.9801	9841.3602	27.4326	5.4044	8.158
	28.2175	57.2121	5252.5020	9.6013	14.2355	368.9713	10642.9932	28.1581	5.5896	8.437
L31	28.2175	57.2121	5252.5020	9.6013	14.2355	368.9713	10642.9932	28.1581	5.5896	8.437
	29.0123	58.8500	5716.6388	9.8761	14.6332	390.6613	11583.4600	28.9642	5.7954	8.748
L32	29.0167	57.7657	5616.4053	9.8806	14.6332	383.8116	11380.3599	28.4305	5.8289	8.967
	29.8116	59.3727	6098.2817	10.1555	15.0309	405.7152	12356.7721	29.2214	6.0346	9.284
L33	29.8160	58.2566	5988.9171	10.1600	15.0309	398.4392	12135.1698	28.6721	6.0681	9.519
	30.3851	59.3850	6343.7223	10.3568	15.3157	414.1974	12854.1013	29.2275	6.2155	9.75
L34	30.3851	59.3850	6343.7223	10.3568	15.3157	414.1974	12854.1013	29.2275	6.2155	9.75
	30.4249	59.4638	6369.0099	10.3705	15.3356	415.3092	12905.3408	29.2663	6.2257	9.766
L35	30.4293	58.3230	6252.2141	10.3750	15.3356	407.6932	12668.6808	28.7048	6.2592	10.015
	31.2241	59.8681	6762.4102	10.6498	15.7333	429.8154	13702.4764	29.4653	6.4650	10.344
L36	31.2241	59.8681	6762.4102	10.6498	15.7333	429.8154	13702.4764	29.4653	6.4650	10.344
	31.7010	60.7952	7081.4560	10.8148	15.9719	443.3693	14348.9498	29.9216	6.5885	10.542

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L37	31.8113	30.7121	3651.7516	10.9266	15.9719	228.6358	7399.4387	15.1155	7.4260	23.763
	31.8510	30.7507	3665.5482	10.9404	15.9918	229.2143	7427.3944	15.1346	7.4362	23.796
L38	31.8510	30.7507	3665.5482	10.9404	15.9918	229.2143	7427.3944	15.1346	7.4362	23.796
	32.4074	31.2915	3862.3620	11.1328	16.2702	237.3889	7826.1926	15.4007	7.5803	24.257
L39	32.4074	31.2915	3862.3620	11.1328	16.2702	237.3889	7826.1926	15.4007	7.5803	24.257
	32.4472	31.3301	3876.6838	11.1465	16.2901	237.9782	7855.2124	15.4197	7.5906	24.29
L40	32.4472	31.3301	3876.6838	11.1465	16.2901	237.9782	7855.2124	15.4197	7.5906	24.29
	32.7651	31.6391	3992.5331	11.2565	16.4492	242.7196	8089.9544	15.5718	7.6729	24.553
L41	32.6681	58.9614	7310.7362	11.1580	16.4492	444.4444	14813.5337	29.0190	6.9359	11.806
	32.7078	59.0340	7337.7833	11.1718	16.4690	445.5500	14868.3383	29.0547	6.9462	11.823
L42	32.7078	59.0340	7337.7833	11.1718	16.4690	445.5500	14868.3383	29.0547	6.9462	11.823
	33.5027	60.4864	7892.8180	11.4466	16.8667	467.9514	15992.9891	29.7696	7.1519	12.173
L43	33.5027	60.4864	7892.8180	11.4466	16.8667	467.9514	15992.9891	29.7696	7.1519	12.173
	34.2053	61.7704	8406.1862	11.6896	17.2183	488.2118	17033.2123	30.4015	7.3338	12.483
L44	33.6239	38.1566	4863.1885	11.3127	16.5629	293.6197	9854.1384	18.7795	7.5642	20.171
	33.7807	39.1017	5233.5959	11.5929	16.9683	308.4331	10604.6842	19.2447	7.7740	20.731
L45	33.7807	39.1017	5233.5959	11.5929	16.9683	308.4331	10604.6842	19.2447	7.7740	20.731
	34.5644	40.0158	5609.2705	11.8639	17.3605	323.1063	11365.9028	19.6946	7.9769	21.272
L46	34.5644	40.0158	5609.2705	11.8639	17.3605	323.1063	11365.9028	19.6946	7.9769	21.272
	35.3480	40.9299	6002.5058	12.1349	17.7526	338.1204	12162.7041	20.1444	8.1797	21.813
L47	35.3480	40.9299	6002.5058	12.1349	17.7526	338.1204	12162.7041	20.1444	8.1797	21.813
	36.1317	41.8439	6413.7024	12.4059	18.1447	353.4755	12995.8998	20.5943	8.3826	22.354
L48	36.1317	41.8439	6413.7024	12.4059	18.1447	353.4755	12995.8998	20.5943	8.3826	22.354
	36.9154	42.7580	6843.2624	12.6769	18.5368	369.1717	13866.3050	21.0442	8.5855	22.895
L49	36.9154	42.7580	6843.2624	12.6769	18.5368	369.1717	13866.3050	21.0442	8.5855	22.895
	37.6991	43.6720	7291.5860	12.9479	18.9289	385.2088	14774.7301	21.4940	8.7883	23.436
L50	37.6991	43.6720	7291.5860	12.9479	18.9289	385.2088	14774.7301	21.4940	8.7883	23.436
	38.4828	44.5861	7759.0754	13.2189	19.3210	401.5869	15721.9904	21.9439	8.9912	23.977
L51	38.4828	44.5861	7759.0754	13.2189	19.3210	401.5869	15721.9904	21.9439	8.9912	23.977
	38.5612	44.6775	7806.8936	13.2460	19.3603	403.2434	15818.8830	21.9889	9.0115	24.031

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	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
L1 150.00-145.00				1	1	1			
L2 145.00-140.00				1	1	1			
L3 140.00-135.00				1	1	1			
L4 135.00-130.00				1	1	1			
L5 130.00-125.00				1	1	1			
L6 125.00-123.75				1	1	1			
L7 123.75-123.50				1	1	0.909561			
L8 123.50-118.50				1	1	0.926805			
L9 118.50-113.50				1	1	0.92049			
L10 113.50-112.75				1	1	0.930911			
L11 112.75-112.50				1	1	0.544845			
L12 112.50-110.00				1	1	0.550001			
L13				1	1	0.583829			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	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
110.00-107.25									
L14				1	1	1.1115			
107.25-107.00									
L15				1	1	1.11138			
107.00-102.00									
L16				1	1	1.11322			
102.00-97.00									
L17				1	1	1.11711			
97.00-95.00									
L18				1	1	1.06124			
95.00-94.75									
L19				1	1	1.07819			
94.75-89.75									
L20				1	1	1.07315			
89.75-88.67									
L21				1	1	1.06894			
88.67-87.75									
L22				1	1	1.04195			
87.75-87.50									
L23				1	1	1.05564			
87.50-85.50									
L24				1	1	0.935801			
85.50-85.25									
L25				1	1	0.941365			
85.25-83.00									
L26				1	1	0.962			
83.00-82.75									
L27				1	1	1.05656			
82.75-82.50									
L28				1	1	1.05495			
82.50-77.50									
L29				1	1	1.05876			
77.50-70.00									
L30				1	1	0.950459			
70.00-69.00									
L31				1	1	0.937134			
69.00-64.00									
L32				1	1	0.941896			
64.00-59.00									
L33				1	1	0.951015			
59.00-55.42									
L34				1	1	0.950404			
55.42-55.17									
L35				1	1	0.95689			
55.17-50.17									
L36				1	1	0.949923			
50.17-47.17									
L37				1	1	1			
47.17-46.92									
L38				1	1	1			
46.92-43.42									
L39				1	1	1			
43.42-43.17									
L40				1	1	1			
43.17-41.17									
L41				1	1	0.950092			
41.17-40.92									
L42				1	1	0.940051			
40.92-35.92									

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	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
L43 35.92-31.50				1	1	0.939561			
L44 31.50-30.50				1	1	1			
L45 30.50-25.50				1	1	1			
L46 25.50-20.50				1	1	1			
L47 20.50-15.50				1	1	1			
L48 15.50-10.50				1	1	1			
L49 10.50-5.50				1	1	1			
L50 5.50-0.50				1	1	1			
L51 0.50-0.00				1	1	1			

Guy Data

Guy Elevation ft	Guy Grade		Guy Size	Initial Tension K	%	Guy Modulus ksi	Guy Weight plf	L_u ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %
88.67	BS	A	1 5/8	38.88	12%	24000	5.550	90.69	20.50	15.0000	0.00	100%
		B	1 3/8	27.84	12%	24000	3.970	97.79	42.50	15.0000	0.00	100%
		C	1 3/8	27.84	12%	24000	3.970	97.58	42.00	-15.0000	0.00	100%

Guy Data *(cont'd)*

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
88.67	Corner						

Guy Data *(cont'd)*

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
88.67	A572-50 (50 ksi)	Solid Round				A572-50 (50 ksi)	Solid Round	

Guy Data *(cont'd)*

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
88.67	0.50	0.39	0.39		0.58 1.3 sec/pulse	0.68 1.4 sec/pulse	0.68 1.4 sec/pulse	

Guy Data *(cont'd)*

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm K_x	Torque Arm K_y	Pull Off K_x	Pull Off K_y	Diagonal K_x	Diagonal K_y
88.67	No	No			1	1	1	1

Guy Data *(cont'd)*

Guy Elevation ft	Torque-Arm Bolt Size in	Torque-Arm Number	Torque-Arm Net Width Deduct in	Torque-Arm U	Pull Off Bolt Size in	Pull Off Number	Pull Off Net Width Deduct in	Pull Off U	Diagonal Bolt Size in	Diagonal Number	Diagonal Net Width Deduct in	Diagonal U
88.67	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q_z ksf	q_z Ice ksf	Ice Thickness in
88.67	A	44.34	0	0	0.8755
	B	44.34	0	0	0.8755
	C	44.34	0	0	0.8755

Guy-Mast Forces (Excluding Wind) - No Ice

Guy Elevation ft	Guy Location	Chord Angle °	Guy Tension Top Bottom K	F_x K	F_y K	F_z K	M_x kip-ft	M_y kip-ft	M_z kip-ft
88.67	A	77.6172	39.37 38.88	2.07	38.47	-8.13	-38.49	0.00	-9.78
	B	64.9363	28.19 27.84	8.44	25.57	8.34	18.55	0.00	-18.79
	C	65.2020	28.19 27.84	-8.36	25.63	8.26	18.59	0.00	18.83

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top Bottom K	F_x	F_y	F_z	M_x	M_y	M_z
ft		°		K	K	K	kip-ft	kip-ft	kip-ft
			Sum:	**2.15**	89.67	**8.46**	**-1.35**	0.00	**-9.74**

Guy-Mast Forces (Excluding Wind) - Ice

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top Bottom K	F_x	F_y	F_z	M_x	M_y	M_z
ft		°		K	K	K	kip-ft	kip-ft	kip-ft
88.67	A	77.6172	51.91 51.19	2.72	50.72	-10.71	-50.76	0.00	-12.89
	B	64.9363	37.14 36.58	11.11	33.70	10.97	24.45	0.00	-24.76
	C	65.2020	37.14 36.58	-11.00	33.77	10.86	24.50	0.00	24.81
			Sum:	**2.83**	118.20	**11.12**	**-1.81**	0.00	**-12.84**

Guy-Mast Forces (Excluding Wind) - Service

Guy Elevation	Guy Location	Chord Angle	Guy Tension Top Bottom K	F_x	F_y	F_z	M_x	M_y	M_z
ft		°		K	K	K	kip-ft	kip-ft	kip-ft
88.67	A	77.6172	39.37 38.88	2.07	38.47	-8.13	-38.49	0.00	-9.78
	B	64.9363	28.19 27.84	8.44	25.57	8.34	18.55	0.00	-18.79
	C	65.2020	28.19 27.84	-8.36	25.63	8.26	18.59	0.00	18.83
			Sum:	**2.15**	89.67	**8.46**	**-1.35**	0.00	**-9.74**

Guy-Tensioning Information

				Temperature At Time Of Tensioning													
				0 F		20 F		40 F		60 F		80 F		100 F		120 F	
Guy Elevation		H	V	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept
ft		ft	ft	K	ft	K	ft	K	ft	K	ft	K	ft	K	ft	K	ft
88.67	A	19.47	88.67	39.565	0.57	39.337	0.58	39.108	0.58	38.880	0.58	38.652	0.59	38.424	0.59	38.196	0.59
	B	41.47	88.67	29.736	0.63	29.104	0.65	28.472	0.66	27.840	0.68	27.209	0.69	26.577	0.71	25.947	0.73
	C	40.97	88.67	29.699	0.63	29.079	0.65	28.459	0.66	27.840	0.68	27.221	0.69	26.602	0.71	25.984	0.72

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
141										
HB158-21U6S24-xxM_TMO(1-5/8)	A	No	Surface Ar (CaAa)	141.00 - 0.00	3	3	-0.250 -0.250	1.9960		0.00
68										
LDF4-50A(1/2)	C	No	Surface Ar (CaAa)	68.00 - 0.00	2	2	0.000 0.000	0.6250		0.00
20										
ATCB-B01(5/16)	C	No	Surface Ar (CaAa)	20.00 - 0.00	1	1	0.000 0.000	0.3150		0.00
*****										
****										
PL 1x4	A	No	Surface Af (CaAa)	96.75 - 71.75	1	1	0.000 0.000	4.0000	10.0000	0.00
PL 1x4	C	No	Surface Af (CaAa)	96.75 - 71.75	1	1	0.000 0.000	4.0000	10.0000	0.00
**										
(Area) CCI-65FP-060100 (H)	A	No	Surface Af (CaAa)	85.00 - 50.00	1	1	0.250 0.250	6.0000	14.0000	0.00
(Area) CCI-65FP-060100 (H)	C	No	Surface Af (CaAa)	85.00 - 50.00	1	1	0.250 0.250	6.0000	14.0000	0.00
(Area) CCI-65FP-060100 (H)	B	No	Surface Af (CaAa)	85.00 - 50.00	1	1	0.250 0.250	6.0000	14.0000	0.00
**										
(Area) CCI-65FP-065125 (H)	A	No	Surface Af (CaAa)	110.00 - 85.00	1	1	0.250 0.250	6.5000	15.5000	0.00
(Area) CCI-65FP-065125 (H)	C	No	Surface Af (CaAa)	110.00 - 85.00	1	1	0.250 0.250	6.5000	15.5000	0.00
(Area) CCI-65FP-065125 (H)	B	No	Surface Af (CaAa)	110.00 - 80.00	1	1	0.000 0.000	6.5000	15.5000	0.00
**										
(Area) CCI-65FP-045100 (H)	A	No	Surface Af (CaAa)	125.75 - 110.75	1	1	0.250 0.250	4.5000	11.0000	0.00
(Area) CCI-65FP-045100 (H)	C	No	Surface Af (CaAa)	125.75 - 110.75	1	1	0.250 0.250	4.5000	11.0000	0.00
(Area) CCI-65FP-045100 (H)	B	No	Surface Af (CaAa)	125.75 - 110.75	1	1	0.250 0.250	4.5000	11.0000	0.00
**										
FJ CCI-65FP-065125 (H)	A	No	Surface Af (CaAa)	116.92 - 103.08	1	1	0.500 0.500	6.5000	15.5000	0.00
FJ CCI-65FP-065125 (H)	C	No	Surface Af (CaAa)	116.92 - 103.08	1	1	0.500 0.500	6.5000	15.5000	0.00
FJ CCI-65FP-065125 (H)	B	No	Surface Af (CaAa)	116.92 - 103.08	1	1	0.500 0.500	6.5000	15.5000	0.00
**										
(Area) CCI-65FP-065125 (H)	A	No	Surface Af (CaAa)	50.00 - 29.92	1	1	0.250 0.250	6.5000	15.5000	0.00
(Area) CCI-65FP-065125 (H)	C	No	Surface Af (CaAa)	50.00 - 29.92	1	1	0.250 0.250	6.5000	15.5000	0.00
(Area) CCI-65FP-065125 (H)	B	No	Surface Af (CaAa)	50.00 - 29.92	1	1	0.250 0.250	6.5000	15.5000	0.00
**										
(Area) CCI-65FP-045100 (H)	A	No	Surface Af (CaAa)	87.00 - 41.92	1	1	-0.250 -0.250	4.5000	11.0000	0.00
(Area) CCI-65FP-045100 (H)	C	No	Surface Af (CaAa)	87.00 - 41.92	1	1	-0.250 -0.250	4.5000	11.0000	0.00
**										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
151									
LDF6-50A(1-1/4)	C	No	No	Inside Pole	150.00 - 0.00	12	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	150.00 - 0.00	2	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	150.00 - 0.00	4	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
132									
LDF6-50A(1-1/4)	C	No	No	Inside Pole	132.00 - 0.00	11	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
HB158-21U6S12-XXXM-01(1-5/8)	C	No	No	Inside Pole	132.00 - 0.00	2	No Ice	0.00	0.00
							1/2" Ice	0.00	0.00
							1" Ice	0.00	0.00
**									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.00-145.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.05
L2	145.00-140.00	A	0.000	0.000	0.599	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.05
L3	140.00-135.00	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.05
L4	135.00-130.00	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.07
L5	130.00-125.00	A	0.000	0.000	3.556	0.000	0.04
		B	0.000	0.000	0.562	0.000	0.00
		C	0.000	0.000	0.562	0.000	0.10
L6	125.00-123.75	A	0.000	0.000	1.686	0.000	0.01
		B	0.000	0.000	0.938	0.000	0.00
		C	0.000	0.000	0.938	0.000	0.03
L7	123.75-123.50	A	0.000	0.000	0.337	0.000	0.00
		B	0.000	0.000	0.188	0.000	0.00
		C	0.000	0.000	0.188	0.000	0.01
L8	123.50-118.50	A	0.000	0.000	6.744	0.000	0.04
		B	0.000	0.000	3.750	0.000	0.00
		C	0.000	0.000	3.750	0.000	0.10
L9	118.50-113.50	A	0.000	0.000	10.449	0.000	0.04

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	7.455	0.000	0.00
		C	0.000	0.000	7.455	0.000	0.10
L10	113.50-112.75	A	0.000	0.000	1.824	0.000	0.01
		B	0.000	0.000	1.375	0.000	0.00
		C	0.000	0.000	1.375	0.000	0.02
L11	112.75-112.50	A	0.000	0.000	0.608	0.000	0.00
		B	0.000	0.000	0.458	0.000	0.00
		C	0.000	0.000	0.458	0.000	0.01
L12	112.50-110.00	A	0.000	0.000	5.518	0.000	0.02
		B	0.000	0.000	4.021	0.000	0.00
		C	0.000	0.000	4.021	0.000	0.05
L13	110.00-107.25	A	0.000	0.000	7.605	0.000	0.02
		B	0.000	0.000	5.958	0.000	0.00
		C	0.000	0.000	5.958	0.000	0.06
L14	107.25-107.00	A	0.000	0.000	0.691	0.000	0.00
		B	0.000	0.000	0.542	0.000	0.00
		C	0.000	0.000	0.542	0.000	0.01
L15	107.00-102.00	A	0.000	0.000	12.657	0.000	0.04
		B	0.000	0.000	9.663	0.000	0.00
		C	0.000	0.000	9.663	0.000	0.10
L16	102.00-97.00	A	0.000	0.000	8.411	0.000	0.04
		B	0.000	0.000	5.417	0.000	0.00
		C	0.000	0.000	5.417	0.000	0.10
L17	97.00-95.00	A	0.000	0.000	4.531	0.000	0.01
		B	0.000	0.000	2.167	0.000	0.00
		C	0.000	0.000	3.333	0.000	0.04
L18	95.00-94.75	A	0.000	0.000	0.587	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.438	0.000	0.01
L19	94.75-89.75	A	0.000	0.000	11.744	0.000	0.04
		B	0.000	0.000	5.417	0.000	0.00
		C	0.000	0.000	8.750	0.000	0.10
L20	89.75-88.67	A	0.000	0.000	2.537	0.000	0.01
		B	0.000	0.000	1.170	0.000	0.00
		C	0.000	0.000	1.890	0.000	0.02
L21	88.67-87.75	A	0.000	0.000	2.161	0.000	0.01
		B	0.000	0.000	0.997	0.000	0.00
		C	0.000	0.000	1.610	0.000	0.02
L22	87.75-87.50	A	0.000	0.000	0.587	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.438	0.000	0.01
L23	87.50-85.50	A	0.000	0.000	5.823	0.000	0.01
		B	0.000	0.000	2.167	0.000	0.00
		C	0.000	0.000	4.625	0.000	0.04
L24	85.50-85.25	A	0.000	0.000	0.775	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.625	0.000	0.01
L25	85.25-83.00	A	0.000	0.000	6.806	0.000	0.02
		B	0.000	0.000	4.438	0.000	0.00
		C	0.000	0.000	5.458	0.000	0.05
L26	83.00-82.75	A	0.000	0.000	0.754	0.000	0.00
		B	0.000	0.000	0.521	0.000	0.00
		C	0.000	0.000	0.604	0.000	0.01
L27	82.75-82.50	A	0.000	0.000	0.754	0.000	0.00
		B	0.000	0.000	0.521	0.000	0.00
		C	0.000	0.000	0.604	0.000	0.01
L28	82.50-77.50	A	0.000	0.000	15.077	0.000	0.04
		B	0.000	0.000	7.708	0.000	0.00
		C	0.000	0.000	12.083	0.000	0.10
L29	77.50-70.00	A	0.000	0.000	21.449	0.000	0.06
		B	0.000	0.000	7.500	0.000	0.00

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	16.958	0.000	0.15
L30	70.00-69.00	A	0.000	0.000	2.349	0.000	0.01
		B	0.000	0.000	1.000	0.000	0.00
		C	0.000	0.000	1.750	0.000	0.02
L31	69.00-64.00	A	0.000	0.000	11.744	0.000	0.04
		B	0.000	0.000	5.000	0.000	0.00
		C	0.000	0.000	9.250	0.000	0.10
L32	64.00-59.00	A	0.000	0.000	11.744	0.000	0.04
		B	0.000	0.000	5.000	0.000	0.00
		C	0.000	0.000	9.375	0.000	0.10
L33	59.00-55.42	A	0.000	0.000	8.409	0.000	0.03
		B	0.000	0.000	3.580	0.000	0.00
		C	0.000	0.000	6.713	0.000	0.07
L34	55.42-55.17	A	0.000	0.000	0.587	0.000	0.00
		B	0.000	0.000	0.250	0.000	0.00
		C	0.000	0.000	0.469	0.000	0.01
L35	55.17-50.17	A	0.000	0.000	11.744	0.000	0.04
		B	0.000	0.000	5.000	0.000	0.00
		C	0.000	0.000	9.375	0.000	0.10
L36	50.17-47.17	A	0.000	0.000	7.282	0.000	0.02
		B	0.000	0.000	3.236	0.000	0.00
		C	0.000	0.000	5.861	0.000	0.06
L37	47.17-46.92	A	0.000	0.000	0.608	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.490	0.000	0.01
L38	46.92-43.42	A	0.000	0.000	8.512	0.000	0.03
		B	0.000	0.000	3.792	0.000	0.00
		C	0.000	0.000	6.854	0.000	0.07
L39	43.42-43.17	A	0.000	0.000	0.608	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.490	0.000	0.01
L40	43.17-41.17	A	0.000	0.000	4.302	0.000	0.01
		B	0.000	0.000	2.167	0.000	0.00
		C	0.000	0.000	3.354	0.000	0.04
L41	41.17-40.92	A	0.000	0.000	0.421	0.000	0.00
		B	0.000	0.000	0.271	0.000	0.00
		C	0.000	0.000	0.302	0.000	0.01
L42	40.92-35.92	A	0.000	0.000	8.411	0.000	0.04
		B	0.000	0.000	5.417	0.000	0.00
		C	0.000	0.000	6.042	0.000	0.10
L43	35.92-31.50	A	0.000	0.000	7.435	0.000	0.03
		B	0.000	0.000	4.788	0.000	0.00
		C	0.000	0.000	5.341	0.000	0.09
L44	31.50-30.50	A	0.000	0.000	1.682	0.000	0.01
		B	0.000	0.000	1.083	0.000	0.00
		C	0.000	0.000	1.208	0.000	0.02
L45	30.50-25.50	A	0.000	0.000	3.622	0.000	0.04
		B	0.000	0.000	0.628	0.000	0.00
		C	0.000	0.000	1.253	0.000	0.10
L46	25.50-20.50	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.625	0.000	0.10
L47	20.50-15.50	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.767	0.000	0.10
L48	15.50-10.50	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.782	0.000	0.10
L49	10.50-5.50	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.782	0.000	0.10

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L50	5.50-0.50	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.782	0.000	0.10
L51	0.50-0.00	A	0.000	0.000	0.299	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.078	0.000	0.01

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.00-145.00	A	0.987	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.05
L2	145.00-140.00	A	0.984	0.000	0.000	0.994	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.05
L3	140.00-135.00	A	0.980	0.000	0.000	4.968	0.000	0.07
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.05
L4	135.00-130.00	A	0.977	0.000	0.000	4.963	0.000	0.07
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.07
L5	130.00-125.00	A	0.973	0.000	0.000	5.667	0.000	0.08
		B		0.000	0.000	0.708	0.000	0.00
		C		0.000	0.000	0.708	0.000	0.10
L6	125.00-123.75	A	0.971	0.000	0.000	2.419	0.000	0.03
		B		0.000	0.000	1.180	0.000	0.01
		C		0.000	0.000	1.180	0.000	0.03
L7	123.75-123.50	A	0.970	0.000	0.000	0.484	0.000	0.01
		B		0.000	0.000	0.236	0.000	0.00
		C		0.000	0.000	0.236	0.000	0.01
L8	123.50-118.50	A	0.968	0.000	0.000	9.670	0.000	0.10
		B		0.000	0.000	4.718	0.000	0.03
		C		0.000	0.000	4.718	0.000	0.13
L9	118.50-113.50	A	0.964	0.000	0.000	13.724	0.000	0.13
		B		0.000	0.000	8.777	0.000	0.05
		C		0.000	0.000	8.777	0.000	0.15
L10	113.50-112.75	A	0.961	0.000	0.000	2.339	0.000	0.02
		B		0.000	0.000	1.597	0.000	0.01
		C		0.000	0.000	1.597	0.000	0.02
L11	112.75-112.50	A	0.961	0.000	0.000	0.780	0.000	0.01
		B		0.000	0.000	0.532	0.000	0.00
		C		0.000	0.000	0.532	0.000	0.01
L12	112.50-110.00	A	0.960	0.000	0.000	7.088	0.000	0.06
		B		0.000	0.000	4.617	0.000	0.03
		C		0.000	0.000	4.617	0.000	0.08
L13	110.00-107.25	A	0.958	0.000	0.000	9.488	0.000	0.08
		B		0.000	0.000	6.771	0.000	0.04
		C		0.000	0.000	6.771	0.000	0.09
L14	107.25-107.00	A	0.956	0.000	0.000	0.862	0.000	0.01
		B		0.000	0.000	0.615	0.000	0.00
		C		0.000	0.000	0.615	0.000	0.01
L15	107.00-102.00	A	0.954	0.000	0.000	15.958	0.000	0.14
		B		0.000	0.000	11.023	0.000	0.06
		C		0.000	0.000	11.023	0.000	0.16
L16	102.00-97.00	A	0.949	0.000	0.000	11.295	0.000	0.11

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B		0.000	0.000	6.366	0.000	0.04
		C		0.000	0.000	6.366	0.000	0.14
L17	97.00-95.00	A	0.946	0.000	0.000	6.013	0.000	0.05
		B		0.000	0.000	2.545	0.000	0.01
		C		0.000	0.000	4.043	0.000	0.06
L18	95.00-94.75	A	0.945	0.000	0.000	0.778	0.000	0.01
		B		0.000	0.000	0.318	0.000	0.00
		C		0.000	0.000	0.532	0.000	0.01
L19	94.75-89.75	A	0.942	0.000	0.000	15.554	0.000	0.13
		B		0.000	0.000	6.359	0.000	0.03
		C		0.000	0.000	10.634	0.000	0.16
L20	89.75-88.67	A	0.939	0.000	0.000	3.357	0.000	0.03
		B		0.000	0.000	1.373	0.000	0.01
		C		0.000	0.000	2.296	0.000	0.03
L21	88.67-87.75	A	0.938	0.000	0.000	2.859	0.000	0.02
		B		0.000	0.000	1.169	0.000	0.01
		C		0.000	0.000	1.955	0.000	0.03
L22	87.75-87.50	A	0.937	0.000	0.000	0.777	0.000	0.01
		B		0.000	0.000	0.318	0.000	0.00
		C		0.000	0.000	0.531	0.000	0.01
L23	87.50-85.50	A	0.936	0.000	0.000	7.620	0.000	0.06
		B		0.000	0.000	2.541	0.000	0.01
		C		0.000	0.000	5.655	0.000	0.07
L24	85.50-85.25	A	0.935	0.000	0.000	1.011	0.000	0.01
		B		0.000	0.000	0.318	0.000	0.00
		C		0.000	0.000	0.765	0.000	0.01
L25	85.25-83.00	A	0.933	0.000	0.000	8.928	0.000	0.07
		B		0.000	0.000	5.231	0.000	0.03
		C		0.000	0.000	6.718	0.000	0.08
L26	83.00-82.75	A	0.932	0.000	0.000	0.989	0.000	0.01
		B		0.000	0.000	0.614	0.000	0.00
		C		0.000	0.000	0.744	0.000	0.01
L27	82.75-82.50	A	0.932	0.000	0.000	0.989	0.000	0.01
		B		0.000	0.000	0.614	0.000	0.00
		C		0.000	0.000	0.744	0.000	0.01
L28	82.50-77.50	A	0.929	0.000	0.000	19.773	0.000	0.15
		B		0.000	0.000	9.101	0.000	0.05
		C		0.000	0.000	14.869	0.000	0.18
L29	77.50-70.00	A	0.921	0.000	0.000	28.122	0.000	0.22
		B		0.000	0.000	8.882	0.000	0.05
		C		0.000	0.000	20.781	0.000	0.26
L30	70.00-69.00	A	0.916	0.000	0.000	3.097	0.000	0.03
		B		0.000	0.000	1.184	0.000	0.01
		C		0.000	0.000	2.118	0.000	0.03
L31	69.00-64.00	A	0.912	0.000	0.000	15.455	0.000	0.13
		B		0.000	0.000	5.912	0.000	0.03
		C		0.000	0.000	12.110	0.000	0.17
L32	64.00-59.00	A	0.905	0.000	0.000	15.432	0.000	0.13
		B		0.000	0.000	5.905	0.000	0.03
		C		0.000	0.000	12.471	0.000	0.17
L33	59.00-55.42	A	0.898	0.000	0.000	11.034	0.000	0.09
		B		0.000	0.000	4.223	0.000	0.02
		C		0.000	0.000	8.914	0.000	0.12
L34	55.42-55.17	A	0.895	0.000	0.000	0.770	0.000	0.01
		B		0.000	0.000	0.295	0.000	0.00
		C		0.000	0.000	0.622	0.000	0.01
L35	55.17-50.17	A	0.891	0.000	0.000	15.387	0.000	0.13
		B		0.000	0.000	5.891	0.000	0.03
		C		0.000	0.000	12.426	0.000	0.17
L36	50.17-47.17	A	0.884	0.000	0.000	9.454	0.000	0.08
		B		0.000	0.000	3.766	0.000	0.02

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	7.678	0.000	0.10
L37	47.17-46.92	A	0.881	0.000	0.000	0.789	0.000	0.01
		B		0.000	0.000	0.315	0.000	0.00
		C		0.000	0.000	0.641	0.000	0.01
L38	46.92-43.42	A	0.877	0.000	0.000	11.032	0.000	0.09
		B		0.000	0.000	4.406	0.000	0.02
		C		0.000	0.000	8.959	0.000	0.12
L39	43.42-43.17	A	0.873	0.000	0.000	0.787	0.000	0.01
		B		0.000	0.000	0.315	0.000	0.00
		C		0.000	0.000	0.639	0.000	0.01
L40	43.17-41.17	A	0.871	0.000	0.000	5.603	0.000	0.05
		B		0.000	0.000	2.515	0.000	0.01
		C		0.000	0.000	4.418	0.000	0.06
L41	41.17-40.92	A	0.869	0.000	0.000	0.556	0.000	0.01
		B		0.000	0.000	0.314	0.000	0.00
		C		0.000	0.000	0.408	0.000	0.01
L42	40.92-35.92	A	0.863	0.000	0.000	11.101	0.000	0.10
		B		0.000	0.000	6.280	0.000	0.03
		C		0.000	0.000	8.140	0.000	0.14
L43	35.92-31.50	A	0.852	0.000	0.000	9.791	0.000	0.09
		B		0.000	0.000	5.541	0.000	0.03
		C		0.000	0.000	7.173	0.000	0.13
L44	31.50-30.50	A	0.845	0.000	0.000	2.215	0.000	0.02
		B		0.000	0.000	1.254	0.000	0.01
		C		0.000	0.000	1.623	0.000	0.03
L45	30.50-25.50	A	0.836	0.000	0.000	5.513	0.000	0.07
		B		0.000	0.000	0.725	0.000	0.00
		C		0.000	0.000	2.552	0.000	0.11
L46	25.50-20.50	A	0.820	0.000	0.000	4.767	0.000	0.07
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	1.806	0.000	0.11
L47	20.50-15.50	A	0.800	0.000	0.000	4.742	0.000	0.07
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.643	0.000	0.12
L48	15.50-10.50	A	0.774	0.000	0.000	4.710	0.000	0.07
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.681	0.000	0.12
L49	10.50-5.50	A	0.738	0.000	0.000	4.665	0.000	0.06
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.598	0.000	0.11
L50	5.50-0.50	A	0.669	0.000	0.000	4.578	0.000	0.06
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.443	0.000	0.11
L51	0.50-0.00	A	0.522	0.000	0.000	0.439	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.211	0.000	0.01

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	150.00-145.00	0.0000	0.0000	0.0000	0.0000
L2	145.00-140.00	-0.7685	0.0000	-0.8499	0.0000
L3	140.00-135.00	-2.7784	0.0000	-2.7422	0.0000
L4	135.00-130.00	-2.8307	0.0000	-2.7889	0.0000
L5	130.00-125.00	-2.4516	0.0000	-2.5333	0.0000

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L6	125.00-123.75	-1.3527	0.0000	-1.6080	0.0000
L7	123.75-123.50	-1.3598	0.0000	-1.6163	0.0000
L8	123.50-118.50	-1.3791	0.0000	-1.6366	0.0000
L9	118.50-113.50	-0.9247	0.0000	-1.2134	0.0000
L10	113.50-112.75	-0.8135	0.0000	-1.0870	0.0000
L11	112.75-112.50	-0.8126	0.0000	-1.0862	0.0000
L12	112.50-110.00	-0.8915	0.0000	-1.1936	0.0000
L13	110.00-107.25	-0.9105	-1.2562	-1.1761	-1.2242
L14	107.25-107.00	-0.9205	-1.2707	-1.1893	-1.2387
L15	107.00-102.00	-1.0144	-1.4018	-1.3010	-1.3567
L16	102.00-97.00	-1.6155	-2.2364	-1.8334	-1.9162
L17	97.00-95.00	-2.2594	-1.3728	-2.4131	-1.1480
L18	95.00-94.75	-2.3440	-1.2767	-2.4915	-1.0612
L19	94.75-89.75	-2.3724	-1.2931	-2.5219	-1.0753
L20	89.75-88.67	-2.4051	-1.3120	-2.5571	-1.0916
L21	88.67-87.75	-2.4158	-1.3181	-2.5685	-1.0970
L22	87.75-87.50	-2.4216	-1.3215	-2.5748	-1.0999
L23	87.50-85.50	-2.1692	-0.1730	-2.3304	-0.0543
L24	85.50-85.25	-2.0984	0.1421	-2.2716	0.2391
L25	85.25-83.00	-0.5889	0.7570	-0.9155	0.7969
L26	83.00-82.75	-0.4228	0.8306	-0.7634	0.8658
L27	82.75-82.50	-0.4232	0.8314	-0.7638	0.8664
L28	82.50-77.50	-1.1424	1.2896	-1.4407	1.2859
L29	77.50-70.00	-1.8383	1.7770	-2.0897	1.7187
L30	70.00-69.00	-1.2723	1.5504	-1.5673	1.4875
L31	69.00-64.00	-1.2708	1.7347	-1.4990	1.8440
L32	64.00-59.00	-1.2915	1.8117	-1.5053	1.9572
L33	59.00-55.42	-1.3125	1.8434	-1.5270	1.9866
L34	55.42-55.17	-1.3218	1.8574	-1.5366	1.9996
L35	55.17-50.17	-1.3345	1.8765	-1.5496	2.0171
L36	50.17-47.17	-1.3056	1.8377	-1.5357	1.9999
L37	47.17-46.92	-1.3094	1.8438	-1.5400	2.0058
L38	46.92-43.42	-1.3181	1.8569	-1.5489	2.0177
L39	43.42-43.17	-1.3267	1.8699	-1.5577	2.0294
L40	43.17-41.17	-1.3972	1.3706	-1.6230	1.5712
L41	41.17-40.92	-1.5409	0.3086	-1.7505	0.6494
L42	40.92-35.92	-1.5515	0.3109	-1.7628	0.6528
L43	35.92-31.50	-1.5702	0.3149	-1.7845	0.6583
L44	31.50-30.50	-1.5632	0.3134	-1.7764	0.6552
L45	30.50-25.50	-2.7636	0.5544	-2.7627	1.0128
L46	25.50-20.50	-3.0778	0.6180	-2.9954	1.0914
L47	20.50-15.50	-3.0634	0.7541	-2.9264	1.5659
L48	15.50-10.50	-3.0708	0.7718	-2.9362	1.6051
L49	10.50-5.50	-3.0805	0.7749	-2.9532	1.5814
L50	5.50-0.50	-3.0900	0.7778	-2.9651	1.5222
L51	0.50-0.00	-3.0950	0.7794	-2.9566	1.3680

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L2	8	HB158-21U6S24-xxM_TMO	140.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		(1-5/8)	141.00		
L3	8	HB158-21U6S24-xxM_TMO	135.00 -	1.0000	1.0000
		(1-5/8)	140.00		
L4	8	HB158-21U6S24-xxM_TMO	130.00 -	1.0000	1.0000
		(1-5/8)	135.00		
L5	8	HB158-21U6S24-xxM_TMO	125.00 -	1.0000	1.0000
		(1-5/8)	130.00		
L5	31	(Area) CCI-65FP-045100 (H)	125.00 -	1.0000	1.0000
			125.75		
L5	32	(Area) CCI-65FP-045100 (H)	125.00 -	1.0000	1.0000
			125.75		
L5	33	(Area) CCI-65FP-045100 (H)	125.00 -	1.0000	1.0000
			125.75		
L6	8	HB158-21U6S24-xxM_TMO	123.75 -	1.0000	1.0000
		(1-5/8)	125.00		
L6	31	(Area) CCI-65FP-045100 (H)	123.75 -	1.0000	1.0000
			125.00		
L6	32	(Area) CCI-65FP-045100 (H)	123.75 -	1.0000	1.0000
			125.00		
L6	33	(Area) CCI-65FP-045100 (H)	123.75 -	1.0000	1.0000
			125.00		
L7	8	HB158-21U6S24-xxM_TMO	123.50 -	1.0000	1.0000
		(1-5/8)	123.75		
L7	31	(Area) CCI-65FP-045100 (H)	123.50 -	1.0000	1.0000
			123.75		
L7	32	(Area) CCI-65FP-045100 (H)	123.50 -	1.0000	1.0000
			123.75		
L7	33	(Area) CCI-65FP-045100 (H)	123.50 -	1.0000	1.0000
			123.75		
L8	8	HB158-21U6S24-xxM_TMO	118.50 -	1.0000	1.0000
		(1-5/8)	123.50		
L8	31	(Area) CCI-65FP-045100 (H)	118.50 -	1.0000	1.0000
			123.50		
L8	32	(Area) CCI-65FP-045100 (H)	118.50 -	1.0000	1.0000
			123.50		
L8	33	(Area) CCI-65FP-045100 (H)	118.50 -	1.0000	1.0000
			123.50		
L9	8	HB158-21U6S24-xxM_TMO	113.50 -	1.0000	1.0000
		(1-5/8)	118.50		
L9	31	(Area) CCI-65FP-045100 (H)	113.50 -	1.0000	1.0000
			118.50		
L9	32	(Area) CCI-65FP-045100 (H)	113.50 -	1.0000	1.0000
			118.50		
L9	33	(Area) CCI-65FP-045100 (H)	113.50 -	1.0000	1.0000
			118.50		
L9	35	FJ CCI-65FP-065125 (H)	113.50 -	1.0000	1.0000
			116.92		
L9	36	FJ CCI-65FP-065125 (H)	113.50 -	1.0000	1.0000
			116.92		
L9	37	FJ CCI-65FP-065125 (H)	113.50 -	1.0000	1.0000
			116.92		
L10	8	HB158-21U6S24-xxM_TMO	112.75 -	1.0000	1.0000
		(1-5/8)	113.50		
L10	31	(Area) CCI-65FP-045100 (H)	112.75 -	1.0000	1.0000
			113.50		
L10	32	(Area) CCI-65FP-045100 (H)	112.75 -	1.0000	1.0000
			113.50		
L10	33	(Area) CCI-65FP-045100 (H)	112.75 -	1.0000	1.0000
			113.50		
L10	35	FJ CCI-65FP-065125 (H)	112.75 -	1.0000	1.0000
			113.50		
L10	36	FJ CCI-65FP-065125 (H)	112.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L10	37	FJ CCI-65FP-065125 (H)	113.50 - 112.75	1.0000	1.0000
L11	8	HB158-21U6S24-xxM_TMO (1-5/8)	113.50 - 112.50	1.0000	1.0000
L11	31	(Area) CCI-65FP-045100 (H)	112.75 - 112.50	1.0000	1.0000
L11	32	(Area) CCI-65FP-045100 (H)	112.75 - 112.50	1.0000	1.0000
L11	33	(Area) CCI-65FP-045100 (H)	112.75 - 112.50	1.0000	1.0000
L11	35	FJ CCI-65FP-065125 (H)	112.75 - 112.50	1.0000	1.0000
L11	36	FJ CCI-65FP-065125 (H)	112.75 - 112.50	1.0000	1.0000
L11	37	FJ CCI-65FP-065125 (H)	112.75 - 112.50	1.0000	1.0000
L12	8	HB158-21U6S24-xxM_TMO (1-5/8)	112.50 - 110.00	1.0000	1.0000
L12	31	(Area) CCI-65FP-045100 (H)	112.50 - 110.00	1.0000	1.0000
L12	32	(Area) CCI-65FP-045100 (H)	112.50 - 110.00	1.0000	1.0000
L12	33	(Area) CCI-65FP-045100 (H)	112.50 - 110.00	1.0000	1.0000
L12	35	FJ CCI-65FP-065125 (H)	112.50 - 110.00	1.0000	1.0000
L12	36	FJ CCI-65FP-065125 (H)	112.50 - 110.00	1.0000	1.0000
L12	37	FJ CCI-65FP-065125 (H)	112.50 - 110.00	1.0000	1.0000
L13	8	HB158-21U6S24-xxM_TMO (1-5/8)	110.00 - 107.25	1.0000	1.0000
L13	27	(Area) CCI-65FP-065125 (H)	110.00 - 107.25	1.0000	1.0000
L13	28	(Area) CCI-65FP-065125 (H)	110.00 - 107.25	1.0000	1.0000
L13	29	(Area) CCI-65FP-065125 (H)	110.00 - 107.25	1.0000	1.0000
L13	35	FJ CCI-65FP-065125 (H)	110.00 - 107.25	1.0000	1.0000
L13	36	FJ CCI-65FP-065125 (H)	110.00 - 107.25	1.0000	1.0000
L13	37	FJ CCI-65FP-065125 (H)	110.00 - 107.25	1.0000	1.0000
L14	8	HB158-21U6S24-xxM_TMO (1-5/8)	107.25 - 107.00	1.0000	1.0000
L14	27	(Area) CCI-65FP-065125 (H)	107.25 - 107.00	1.0000	1.0000
L14	28	(Area) CCI-65FP-065125 (H)	107.25 - 107.00	1.0000	1.0000
L14	29	(Area) CCI-65FP-065125 (H)	107.25 - 107.00	1.0000	1.0000
L14	35	FJ CCI-65FP-065125 (H)	107.25 - 107.00	1.0000	1.0000
L14	36	FJ CCI-65FP-065125 (H)	107.25 - 107.00	1.0000	1.0000
L14	37	FJ CCI-65FP-065125 (H)	107.25 - 107.00	1.0000	1.0000
L15	8	HB158-21U6S24-xxM_TMO (1-5/8)	107.00 - 102.00	1.0000	1.0000
L15	27	(Area) CCI-65FP-065125 (H)	107.00 - 102.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			107.00		
L15	28	(Area) CCI-65FP-065125 (H)	102.00 - 107.00	1.0000	1.0000
L15	29	(Area) CCI-65FP-065125 (H)	102.00 - 107.00	1.0000	1.0000
L15	35	FJ CCI-65FP-065125 (H)	103.08 - 107.00	1.0000	1.0000
L15	36	FJ CCI-65FP-065125 (H)	103.08 - 107.00	1.0000	1.0000
L15	37	FJ CCI-65FP-065125 (H)	103.08 - 107.00	1.0000	1.0000
L16	8	HB158-21U6S24-xxM_TMO (1-5/8)	97.00 - 102.00	1.0000	1.0000
L16	27	(Area) CCI-65FP-065125 (H)	97.00 - 102.00	1.0000	1.0000
L16	28	(Area) CCI-65FP-065125 (H)	97.00 - 102.00	1.0000	1.0000
L16	29	(Area) CCI-65FP-065125 (H)	97.00 - 102.00	1.0000	1.0000
L17	8	HB158-21U6S24-xxM_TMO (1-5/8)	95.00 - 97.00	1.0000	1.0000
L17	20	PL 1x4	95.00 - 96.75	1.0000	1.0000
L17	21	PL 1x4	95.00 - 96.75	1.0000	1.0000
L17	27	(Area) CCI-65FP-065125 (H)	95.00 - 97.00	1.0000	1.0000
L17	28	(Area) CCI-65FP-065125 (H)	95.00 - 97.00	1.0000	1.0000
L17	29	(Area) CCI-65FP-065125 (H)	95.00 - 97.00	1.0000	1.0000
L18	8	HB158-21U6S24-xxM_TMO (1-5/8)	94.75 - 95.00	1.0000	1.0000
L18	20	PL 1x4	94.75 - 95.00	1.0000	1.0000
L18	21	PL 1x4	94.75 - 95.00	1.0000	1.0000
L18	27	(Area) CCI-65FP-065125 (H)	94.75 - 95.00	1.0000	1.0000
L18	28	(Area) CCI-65FP-065125 (H)	94.75 - 95.00	1.0000	1.0000
L18	29	(Area) CCI-65FP-065125 (H)	94.75 - 95.00	1.0000	1.0000
L19	8	HB158-21U6S24-xxM_TMO (1-5/8)	89.75 - 94.75	1.0000	1.0000
L19	20	PL 1x4	89.75 - 94.75	1.0000	1.0000
L19	21	PL 1x4	89.75 - 94.75	1.0000	1.0000
L19	27	(Area) CCI-65FP-065125 (H)	89.75 - 94.75	1.0000	1.0000
L19	28	(Area) CCI-65FP-065125 (H)	89.75 - 94.75	1.0000	1.0000
L19	29	(Area) CCI-65FP-065125 (H)	89.75 - 94.75	1.0000	1.0000
L20	8	HB158-21U6S24-xxM_TMO (1-5/8)	88.67 - 89.75	1.0000	1.0000
L20	20	PL 1x4	88.67 - 89.75	1.0000	1.0000
L20	21	PL 1x4	88.67 - 89.75	1.0000	1.0000
L20	27	(Area) CCI-65FP-065125 (H)	88.67 - 89.75	1.0000	1.0000
L20	28	(Area) CCI-65FP-065125 (H)	88.67 - 89.75	1.0000	1.0000
L20	29	(Area) CCI-65FP-065125 (H)	88.67 - 89.75	1.0000	1.0000
L21	8	HB158-21U6S24-xxM_TMO (1-5/8)	87.75 - 88.67	1.0000	1.0000
L21	20	PL 1x4	87.75 - 88.67	1.0000	1.0000
L21	21	PL 1x4	87.75 - 88.67	1.0000	1.0000
L21	27	(Area) CCI-65FP-065125 (H)	87.75 - 88.67	1.0000	1.0000
L21	28	(Area) CCI-65FP-065125 (H)	87.75 - 88.67	1.0000	1.0000
L21	29	(Area) CCI-65FP-065125 (H)	87.75 - 88.67	1.0000	1.0000
L22	8	HB158-21U6S24-xxM_TMO (1-5/8)	87.50 - 87.75	1.0000	1.0000
L22	20	PL 1x4	87.50 - 87.75	1.0000	1.0000
L22	21	PL 1x4	87.50 - 87.75	1.0000	1.0000
L22	27	(Area) CCI-65FP-065125 (H)	87.50 - 87.75	1.0000	1.0000
L22	28	(Area) CCI-65FP-065125 (H)	87.50 - 87.75	1.0000	1.0000
L22	29	(Area) CCI-65FP-065125 (H)	87.50 - 87.75	1.0000	1.0000
L23	8	HB158-21U6S24-xxM_TMO (1-5/8)	85.50 - 87.50	1.0000	1.0000
L23	20	PL 1x4	85.50 - 87.50	1.0000	1.0000
L23	21	PL 1x4	85.50 - 87.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L23	27	(Area) CCI-65FP-065125 (H)	85.50 - 87.50	1.0000	1.0000
L23	28	(Area) CCI-65FP-065125 (H)	85.50 - 87.50	1.0000	1.0000
L23	29	(Area) CCI-65FP-065125 (H)	85.50 - 87.50	1.0000	1.0000
L23	43	(Area) CCI-65FP-045100 (H)	85.50 - 87.00	1.0000	1.0000
L23	44	(Area) CCI-65FP-045100 (H)	85.50 - 87.00	1.0000	1.0000
L24	8	HB158-21U6S24-xxM_TMO (1-5/8)	85.25 - 85.50	1.0000	1.0000
L24	20	PL 1x4	85.25 - 85.50	1.0000	1.0000
L24	21	PL 1x4	85.25 - 85.50	1.0000	1.0000
L24	27	(Area) CCI-65FP-065125 (H)	85.25 - 85.50	1.0000	1.0000
L24	28	(Area) CCI-65FP-065125 (H)	85.25 - 85.50	1.0000	1.0000
L24	29	(Area) CCI-65FP-065125 (H)	85.25 - 85.50	1.0000	1.0000
L24	43	(Area) CCI-65FP-045100 (H)	85.25 - 85.50	1.0000	1.0000
L24	44	(Area) CCI-65FP-045100 (H)	85.25 - 85.50	1.0000	1.0000
L25	8	HB158-21U6S24-xxM_TMO (1-5/8)	83.00 - 85.25	1.0000	1.0000
L25	20	PL 1x4	83.00 - 85.25	1.0000	1.0000
L25	21	PL 1x4	83.00 - 85.25	1.0000	1.0000
L25	23	(Area) CCI-65FP-060100 (H)	83.00 - 85.00	1.0000	1.0000
L25	24	(Area) CCI-65FP-060100 (H)	83.00 - 85.00	1.0000	1.0000
L25	25	(Area) CCI-65FP-060100 (H)	83.00 - 85.00	1.0000	1.0000
L25	27	(Area) CCI-65FP-065125 (H)	85.00 - 85.25	1.0000	1.0000
L25	28	(Area) CCI-65FP-065125 (H)	85.00 - 85.25	1.0000	1.0000
L25	29	(Area) CCI-65FP-065125 (H)	83.00 - 85.25	1.0000	1.0000
L25	43	(Area) CCI-65FP-045100 (H)	83.00 - 85.25	1.0000	1.0000
L25	44	(Area) CCI-65FP-045100 (H)	83.00 - 85.25	1.0000	1.0000
L26	8	HB158-21U6S24-xxM_TMO (1-5/8)	82.75 - 83.00	1.0000	1.0000
L26	20	PL 1x4	82.75 - 83.00	1.0000	1.0000
L26	21	PL 1x4	82.75 - 83.00	1.0000	1.0000
L26	23	(Area) CCI-65FP-060100 (H)	82.75 - 83.00	1.0000	1.0000
L26	24	(Area) CCI-65FP-060100 (H)	82.75 - 83.00	1.0000	1.0000
L26	25	(Area) CCI-65FP-060100 (H)	82.75 - 83.00	1.0000	1.0000
L26	29	(Area) CCI-65FP-065125 (H)	82.75 - 83.00	1.0000	1.0000
L26	43	(Area) CCI-65FP-045100 (H)	82.75 - 83.00	1.0000	1.0000
L26	44	(Area) CCI-65FP-045100 (H)	82.75 - 83.00	1.0000	1.0000
L27	8	HB158-21U6S24-xxM_TMO (1-5/8)	82.50 - 82.75	1.0000	1.0000
L27	20	PL 1x4	82.50 - 82.75	1.0000	1.0000
L27	21	PL 1x4	82.50 - 82.75	1.0000	1.0000
L27	23	(Area) CCI-65FP-060100 (H)	82.50 - 82.75	1.0000	1.0000
L27	24	(Area) CCI-65FP-060100 (H)	82.50 - 82.75	1.0000	1.0000
L27	25	(Area) CCI-65FP-060100 (H)	82.50 - 82.75	1.0000	1.0000
L27	29	(Area) CCI-65FP-065125 (H)	82.50 - 82.75	1.0000	1.0000
L27	43	(Area) CCI-65FP-045100 (H)	82.50 - 82.75	1.0000	1.0000
L27	44	(Area) CCI-65FP-045100 (H)	82.50 - 82.75	1.0000	1.0000
L28	8	HB158-21U6S24-xxM_TMO (1-5/8)	77.50 - 82.50	1.0000	1.0000
L28	20	PL 1x4	77.50 - 82.50	1.0000	1.0000
L28	21	PL 1x4	77.50 - 82.50	1.0000	1.0000
L28	23	(Area) CCI-65FP-060100 (H)	77.50 - 82.50	1.0000	1.0000
L28	24	(Area) CCI-65FP-060100 (H)	77.50 - 82.50	1.0000	1.0000
L28	25	(Area) CCI-65FP-060100 (H)	77.50 - 82.50	1.0000	1.0000
L28	29	(Area) CCI-65FP-065125 (H)	80.00 - 82.50	1.0000	1.0000
L28	43	(Area) CCI-65FP-045100 (H)	77.50 - 82.50	1.0000	1.0000
L28	44	(Area) CCI-65FP-045100 (H)	77.50 - 82.50	1.0000	1.0000
L29	8	HB158-21U6S24-xxM_TMO (1-5/8)	70.00 - 77.50	1.0000	1.0000
L29	20	PL 1x4	71.75 - 77.50	1.0000	1.0000
L29	21	PL 1x4	71.75 - 77.50	1.0000	1.0000
L29	23	(Area) CCI-65FP-060100 (H)	70.00 - 77.50	1.0000	1.0000
L29	24	(Area) CCI-65FP-060100 (H)	70.00 - 77.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L29	25	(Area) CCI-65FP-060100 (H)	70.00 - 77.50	1.0000	1.0000
L29	43	(Area) CCI-65FP-045100 (H)	70.00 - 77.50	1.0000	1.0000
L29	44	(Area) CCI-65FP-045100 (H)	70.00 - 77.50	1.0000	1.0000
L30	8	HB158-21U6S24-xxM_TMO (1-5/8)	69.00 - 70.00	1.0000	1.0000
L30	23	(Area) CCI-65FP-060100 (H)	69.00 - 70.00	1.0000	1.0000
L30	24	(Area) CCI-65FP-060100 (H)	69.00 - 70.00	1.0000	1.0000
L30	25	(Area) CCI-65FP-060100 (H)	69.00 - 70.00	1.0000	1.0000
L30	43	(Area) CCI-65FP-045100 (H)	69.00 - 70.00	1.0000	1.0000
L30	44	(Area) CCI-65FP-045100 (H)	69.00 - 70.00	1.0000	1.0000
L31	8	HB158-21U6S24-xxM_TMO (1-5/8)	64.00 - 69.00	1.0000	1.0000
L31	14	LDF4-50A(1/2)	64.00 - 68.00	1.0000	1.0000
L31	23	(Area) CCI-65FP-060100 (H)	64.00 - 69.00	1.0000	1.0000
L31	24	(Area) CCI-65FP-060100 (H)	64.00 - 69.00	1.0000	1.0000
L31	25	(Area) CCI-65FP-060100 (H)	64.00 - 69.00	1.0000	1.0000
L31	43	(Area) CCI-65FP-045100 (H)	64.00 - 69.00	1.0000	1.0000
L31	44	(Area) CCI-65FP-045100 (H)	64.00 - 69.00	1.0000	1.0000
L32	8	HB158-21U6S24-xxM_TMO (1-5/8)	59.00 - 64.00	1.0000	1.0000
L32	14	LDF4-50A(1/2)	59.00 - 64.00	1.0000	1.0000
L32	23	(Area) CCI-65FP-060100 (H)	59.00 - 64.00	1.0000	1.0000
L32	24	(Area) CCI-65FP-060100 (H)	59.00 - 64.00	1.0000	1.0000
L32	25	(Area) CCI-65FP-060100 (H)	59.00 - 64.00	1.0000	1.0000
L32	43	(Area) CCI-65FP-045100 (H)	59.00 - 64.00	1.0000	1.0000
L32	44	(Area) CCI-65FP-045100 (H)	59.00 - 64.00	1.0000	1.0000
L33	8	HB158-21U6S24-xxM_TMO (1-5/8)	55.42 - 59.00	1.0000	1.0000
L33	14	LDF4-50A(1/2)	55.42 - 59.00	1.0000	1.0000
L33	23	(Area) CCI-65FP-060100 (H)	55.42 - 59.00	1.0000	1.0000
L33	24	(Area) CCI-65FP-060100 (H)	55.42 - 59.00	1.0000	1.0000
L33	25	(Area) CCI-65FP-060100 (H)	55.42 - 59.00	1.0000	1.0000
L33	43	(Area) CCI-65FP-045100 (H)	55.42 - 59.00	1.0000	1.0000
L33	44	(Area) CCI-65FP-045100 (H)	55.42 - 59.00	1.0000	1.0000
L34	8	HB158-21U6S24-xxM_TMO (1-5/8)	55.17 - 55.42	1.0000	1.0000
L34	14	LDF4-50A(1/2)	55.17 - 55.42	1.0000	1.0000
L34	23	(Area) CCI-65FP-060100 (H)	55.17 - 55.42	1.0000	1.0000
L34	24	(Area) CCI-65FP-060100 (H)	55.17 - 55.42	1.0000	1.0000
L34	25	(Area) CCI-65FP-060100 (H)	55.17 - 55.42	1.0000	1.0000
L34	43	(Area) CCI-65FP-045100 (H)	55.17 - 55.42	1.0000	1.0000
L34	44	(Area) CCI-65FP-045100 (H)	55.17 - 55.42	1.0000	1.0000
L35	8	HB158-21U6S24-xxM_TMO (1-5/8)	50.17 - 55.17	1.0000	1.0000
L35	14	LDF4-50A(1/2)	50.17 - 55.17	1.0000	1.0000
L35	23	(Area) CCI-65FP-060100 (H)	50.17 - 55.17	1.0000	1.0000
L35	24	(Area) CCI-65FP-060100 (H)	50.17 - 55.17	1.0000	1.0000
L35	25	(Area) CCI-65FP-060100 (H)	50.17 - 55.17	1.0000	1.0000
L35	43	(Area) CCI-65FP-045100 (H)	50.17 - 55.17	1.0000	1.0000
L35	44	(Area) CCI-65FP-045100 (H)	50.17 - 55.17	1.0000	1.0000
L36	8	HB158-21U6S24-xxM_TMO (1-5/8)	47.17 - 50.17	1.0000	1.0000
L36	14	LDF4-50A(1/2)	47.17 - 50.17	1.0000	1.0000
L36	23	(Area) CCI-65FP-060100 (H)	50.00 - 50.17	1.0000	1.0000
L36	24	(Area) CCI-65FP-060100 (H)	50.00 - 50.17	1.0000	1.0000
L36	25	(Area) CCI-65FP-060100 (H)	50.00 - 50.17	1.0000	1.0000
L36	39	(Area) CCI-65FP-065125 (H)	47.17 - 50.00	1.0000	1.0000
L36	40	(Area) CCI-65FP-065125 (H)	47.17 - 50.00	1.0000	1.0000
L36	41	(Area) CCI-65FP-065125 (H)	47.17 - 50.00	1.0000	1.0000
L36	43	(Area) CCI-65FP-045100 (H)	47.17 - 50.17	1.0000	1.0000
L36	44	(Area) CCI-65FP-045100 (H)	47.17 - 50.17	1.0000	1.0000
L37	8	HB158-21U6S24-xxM_TMO	46.92 - 47.17	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		(1-5/8)			
L37	14	LDF4-50A(1/2)	46.92 - 47.17	1.0000	1.0000
L37	39	(Area) CCI-65FP-065125 (H)	46.92 - 47.17	1.0000	1.0000
L37	40	(Area) CCI-65FP-065125 (H)	46.92 - 47.17	1.0000	1.0000
L37	41	(Area) CCI-65FP-065125 (H)	46.92 - 47.17	1.0000	1.0000
L37	43	(Area) CCI-65FP-045100 (H)	46.92 - 47.17	1.0000	1.0000
L37	44	(Area) CCI-65FP-045100 (H)	46.92 - 47.17	1.0000	1.0000
L38	8	HB158-21U6S24-xxM_TMO	43.42 - 46.92	1.0000	1.0000
		(1-5/8)			
L38	14	LDF4-50A(1/2)	43.42 - 46.92	1.0000	1.0000
L38	39	(Area) CCI-65FP-065125 (H)	43.42 - 46.92	1.0000	1.0000
L38	40	(Area) CCI-65FP-065125 (H)	43.42 - 46.92	1.0000	1.0000
L38	41	(Area) CCI-65FP-065125 (H)	43.42 - 46.92	1.0000	1.0000
L38	43	(Area) CCI-65FP-045100 (H)	43.42 - 46.92	1.0000	1.0000
L38	44	(Area) CCI-65FP-045100 (H)	43.42 - 46.92	1.0000	1.0000
L39	8	HB158-21U6S24-xxM_TMO	43.17 - 43.42	1.0000	1.0000
		(1-5/8)			
L39	14	LDF4-50A(1/2)	43.17 - 43.42	1.0000	1.0000
L39	39	(Area) CCI-65FP-065125 (H)	43.17 - 43.42	1.0000	1.0000
L39	40	(Area) CCI-65FP-065125 (H)	43.17 - 43.42	1.0000	1.0000
L39	41	(Area) CCI-65FP-065125 (H)	43.17 - 43.42	1.0000	1.0000
L39	43	(Area) CCI-65FP-045100 (H)	43.17 - 43.42	1.0000	1.0000
L39	44	(Area) CCI-65FP-045100 (H)	43.17 - 43.42	1.0000	1.0000
L40	8	HB158-21U6S24-xxM_TMO	41.17 - 43.17	1.0000	1.0000
		(1-5/8)			
L40	14	LDF4-50A(1/2)	41.17 - 43.17	1.0000	1.0000
L40	39	(Area) CCI-65FP-065125 (H)	41.17 - 43.17	1.0000	1.0000
L40	40	(Area) CCI-65FP-065125 (H)	41.17 - 43.17	1.0000	1.0000
L40	41	(Area) CCI-65FP-065125 (H)	41.17 - 43.17	1.0000	1.0000
L40	43	(Area) CCI-65FP-045100 (H)	41.92 - 43.17	1.0000	1.0000
L40	44	(Area) CCI-65FP-045100 (H)	41.92 - 43.17	1.0000	1.0000
L41	8	HB158-21U6S24-xxM_TMO	40.92 - 41.17	1.0000	1.0000
		(1-5/8)			
L41	14	LDF4-50A(1/2)	40.92 - 41.17	1.0000	1.0000
L41	39	(Area) CCI-65FP-065125 (H)	40.92 - 41.17	1.0000	1.0000
L41	40	(Area) CCI-65FP-065125 (H)	40.92 - 41.17	1.0000	1.0000
L41	41	(Area) CCI-65FP-065125 (H)	40.92 - 41.17	1.0000	1.0000
L42	8	HB158-21U6S24-xxM_TMO	35.92 - 40.92	1.0000	1.0000
		(1-5/8)			
L42	14	LDF4-50A(1/2)	35.92 - 40.92	1.0000	1.0000
L42	39	(Area) CCI-65FP-065125 (H)	35.92 - 40.92	1.0000	1.0000
L42	40	(Area) CCI-65FP-065125 (H)	35.92 - 40.92	1.0000	1.0000
L42	41	(Area) CCI-65FP-065125 (H)	35.92 - 40.92	1.0000	1.0000
L43	8	HB158-21U6S24-xxM_TMO	31.50 - 35.92	1.0000	1.0000
		(1-5/8)			
L43	14	LDF4-50A(1/2)	31.50 - 35.92	1.0000	1.0000
L43	39	(Area) CCI-65FP-065125 (H)	31.50 - 35.92	1.0000	1.0000
L43	40	(Area) CCI-65FP-065125 (H)	31.50 - 35.92	1.0000	1.0000
L43	41	(Area) CCI-65FP-065125 (H)	31.50 - 35.92	1.0000	1.0000
L44	8	HB158-21U6S24-xxM_TMO	30.50 - 31.50	1.0000	1.0000
		(1-5/8)			
L44	14	LDF4-50A(1/2)	30.50 - 31.50	1.0000	1.0000
L44	39	(Area) CCI-65FP-065125 (H)	30.50 - 31.50	1.0000	1.0000
L44	40	(Area) CCI-65FP-065125 (H)	30.50 - 31.50	1.0000	1.0000
L44	41	(Area) CCI-65FP-065125 (H)	30.50 - 31.50	1.0000	1.0000
L45	8	HB158-21U6S24-xxM_TMO	25.50 - 30.50	1.0000	1.0000
		(1-5/8)			
L45	14	LDF4-50A(1/2)	25.50 - 30.50	1.0000	1.0000
L45	39	(Area) CCI-65FP-065125 (H)	29.92 - 30.50	1.0000	1.0000
L45	40	(Area) CCI-65FP-065125 (H)	29.92 - 30.50	1.0000	1.0000
L45	41	(Area) CCI-65FP-065125 (H)	29.92 - 30.50	1.0000	1.0000
L46	8	HB158-21U6S24-xxM_TMO	20.50 - 25.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		(1-5/8)			
L46	14	LDF4-50A(1/2)	20.50 - 25.50	1.0000	1.0000
L47	8	HB158-21U6S24-xxM_TMO (1-5/8)	15.50 - 20.50	1.0000	1.0000
L47	14	LDF4-50A(1/2)	15.50 - 20.50	1.0000	1.0000
L47	16	ATCB-B01(5/16)	15.50 - 20.00	1.0000	1.0000
L48	8	HB158-21U6S24-xxM_TMO (1-5/8)	10.50 - 15.50	1.0000	1.0000
L48	14	LDF4-50A(1/2)	10.50 - 15.50	1.0000	1.0000
L48	16	ATCB-B01(5/16)	10.50 - 15.50	1.0000	1.0000
L49	8	HB158-21U6S24-xxM_TMO (1-5/8)	5.50 - 10.50	1.0000	1.0000
L49	14	LDF4-50A(1/2)	5.50 - 10.50	1.0000	1.0000
L49	16	ATCB-B01(5/16)	5.50 - 10.50	1.0000	1.0000
L50	8	HB158-21U6S24-xxM_TMO (1-5/8)	0.50 - 5.50	1.0000	1.0000
L50	14	LDF4-50A(1/2)	0.50 - 5.50	1.0000	1.0000
L50	16	ATCB-B01(5/16)	0.50 - 5.50	1.0000	1.0000
L51	8	HB158-21U6S24-xxM_TMO (1-5/8)	0.00 - 0.50	1.0000	1.0000
L51	14	LDF4-50A(1/2)	0.00 - 0.50	1.0000	1.0000
L51	16	ATCB-B01(5/16)	0.00 - 0.50	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L5	31	(Area) CCI-65FP-045100 (H)	125.00 - 125.75	Auto	0.0000
L5	32	(Area) CCI-65FP-045100 (H)	125.00 - 125.75	Auto	0.0000
L5	33	(Area) CCI-65FP-045100 (H)	125.00 - 125.75	Auto	0.0000
L6	31	(Area) CCI-65FP-045100 (H)	123.75 - 125.00	Auto	0.0000
L6	32	(Area) CCI-65FP-045100 (H)	123.75 - 125.00	Auto	0.0000
L6	33	(Area) CCI-65FP-045100 (H)	123.75 - 125.00	Auto	0.0000
L7	31	(Area) CCI-65FP-045100 (H)	123.50 - 123.75	Auto	0.1333
L7	32	(Area) CCI-65FP-045100 (H)	123.50 - 123.75	Auto	0.1333
L7	33	(Area) CCI-65FP-045100 (H)	123.50 - 123.75	Auto	0.1333
L8	31	(Area) CCI-65FP-045100 (H)	118.50 - 123.50	Auto	0.0978
L8	32	(Area) CCI-65FP-045100 (H)	118.50 - 123.50	Auto	0.0978
L8	33	(Area) CCI-65FP-045100 (H)	118.50 - 123.50	Auto	0.0978
L9	31	(Area) CCI-65FP-045100 (H)	113.50 - 118.50	Auto	0.0476

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L9	32	(Area) CCI-65FP-045100 (H)	113.50 - 118.50	Auto	0.0476
L9	33	(Area) CCI-65FP-045100 (H)	113.50 - 118.50	Auto	0.0476
L9	35	FJ CCI-65FP-065125 (H)	113.50 - 116.92	Auto	0.3356
L9	36	FJ CCI-65FP-065125 (H)	113.50 - 116.92	Manual	1.0000
L9	37	FJ CCI-65FP-065125 (H)	113.50 - 116.92	Manual	1.0000
L10	31	(Area) CCI-65FP-045100 (H)	112.75 - 113.50	Auto	0.0172
L10	32	(Area) CCI-65FP-045100 (H)	112.75 - 113.50	Auto	0.0172
L10	33	(Area) CCI-65FP-045100 (H)	112.75 - 113.50	Auto	0.0172
L10	35	FJ CCI-65FP-065125 (H)	112.75 - 113.50	Auto	0.3196
L10	36	FJ CCI-65FP-065125 (H)	112.75 - 113.50	Manual	1.0000
L10	37	FJ CCI-65FP-065125 (H)	112.75 - 113.50	Manual	1.0000
L11	31	(Area) CCI-65FP-045100 (H)	112.50 - 112.75	Auto	0.3922
L11	32	(Area) CCI-65FP-045100 (H)	112.50 - 112.75	Auto	0.3922
L11	33	(Area) CCI-65FP-045100 (H)	112.50 - 112.75	Auto	0.3922
L11	35	FJ CCI-65FP-065125 (H)	112.50 - 112.75	Auto	0.5792
L11	36	FJ CCI-65FP-065125 (H)	112.50 - 112.75	Manual	1.0000
L11	37	FJ CCI-65FP-065125 (H)	112.50 - 112.75	Manual	1.0000
L12	31	(Area) CCI-65FP-045100 (H)	110.75 - 112.50	Auto	0.3680
L12	32	(Area) CCI-65FP-045100 (H)	110.75 - 112.50	Auto	0.3680
L12	33	(Area) CCI-65FP-045100 (H)	110.75 - 112.50	Auto	0.3680
L12	35	FJ CCI-65FP-065125 (H)	110.00 - 112.50	Auto	0.5601
L12	36	FJ CCI-65FP-065125 (H)	110.00 - 112.50	Manual	1.0000
L12	37	FJ CCI-65FP-065125 (H)	110.00 - 112.50	Manual	1.0000
L13	27	(Area) CCI-65FP-065125 (H)	107.25 - 110.00	Auto	0.5581
L13	28	(Area) CCI-65FP-065125 (H)	107.25 - 110.00	Auto	0.5581
L13	29	(Area) CCI-65FP-065125 (H)	107.25 - 110.00	Auto	0.5581
L13	35	FJ CCI-65FP-065125 (H)	107.25 - 110.00	Auto	0.5581
L13	36	FJ CCI-65FP-065125 (H)	107.25 - 110.00	Manual	1.0000
L13	37	FJ CCI-65FP-065125 (H)	107.25 - 110.00	Manual	1.0000
L14	27	(Area) CCI-65FP-065125 (H)	107.00 - 107.25	Auto	0.3314
L14	28	(Area) CCI-65FP-065125 (H)	107.00 -	Auto	0.3314

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
			107.25		
L14	29	(Area) CCI-65FP-065125 (H)	107.00 - 107.25	Auto	0.3314
L14	35	FJ CCI-65FP-065125 (H)	107.00 - 107.25	Auto	0.3314
L14	36	FJ CCI-65FP-065125 (H)	107.00 - 107.25	Manual	1.0000
L14	37	FJ CCI-65FP-065125 (H)	107.00 - 107.25	Manual	1.0000
L15	27	(Area) CCI-65FP-065125 (H)	102.00 - 107.00	Auto	0.3082
L15	28	(Area) CCI-65FP-065125 (H)	102.00 - 107.00	Auto	0.3082
L15	29	(Area) CCI-65FP-065125 (H)	102.00 - 107.00	Auto	0.3082
L15	35	FJ CCI-65FP-065125 (H)	103.08 - 107.00	Auto	0.3119
L15	36	FJ CCI-65FP-065125 (H)	103.08 - 107.00	Manual	1.0000
L15	37	FJ CCI-65FP-065125 (H)	103.08 - 107.00	Manual	1.0000
L16	27	(Area) CCI-65FP-065125 (H)	97.00 - 102.00	Auto	0.2689
L16	28	(Area) CCI-65FP-065125 (H)	97.00 - 102.00	Auto	0.2689
L16	29	(Area) CCI-65FP-065125 (H)	97.00 - 102.00	Auto	0.2689
L17	20	PL 1x4	95.00 - 96.75	Auto	0.0000
L17	21	PL 1x4	95.00 - 96.75	Auto	0.0000
L17	27	(Area) CCI-65FP-065125 (H)	95.00 - 97.00	Auto	0.2423
L17	28	(Area) CCI-65FP-065125 (H)	95.00 - 97.00	Auto	0.2423
L17	29	(Area) CCI-65FP-065125 (H)	95.00 - 97.00	Auto	0.2423
L18	20	PL 1x4	94.75 - 95.00	Auto	0.0000
L18	21	PL 1x4	94.75 - 95.00	Auto	0.0000
L18	27	(Area) CCI-65FP-065125 (H)	94.75 - 95.00	Auto	0.2888
L18	28	(Area) CCI-65FP-065125 (H)	94.75 - 95.00	Auto	0.2888
L18	29	(Area) CCI-65FP-065125 (H)	94.75 - 95.00	Auto	0.2888
L19	20	PL 1x4	89.75 - 94.75	Auto	0.0000
L19	21	PL 1x4	89.75 - 94.75	Auto	0.0000
L19	27	(Area) CCI-65FP-065125 (H)	89.75 - 94.75	Auto	0.2605
L19	28	(Area) CCI-65FP-065125 (H)	89.75 - 94.75	Auto	0.2605
L19	29	(Area) CCI-65FP-065125 (H)	89.75 - 94.75	Auto	0.2605
L20	20	PL 1x4	88.67 - 89.75	Auto	0.0000
L20	21	PL 1x4	88.67 - 89.75	Auto	0.0000
L20	27	(Area) CCI-65FP-065125 (H)	88.67 - 89.75	Auto	0.2397
L20	28	(Area) CCI-65FP-065125 (H)	88.67 - 89.75	Auto	0.2397
L20	29	(Area) CCI-65FP-065125 (H)	88.67 - 89.75	Auto	0.2397
L21	20	PL 1x4	87.75 - 88.67	Auto	0.0000
L21	21	PL 1x4	87.75 - 88.67	Auto	0.0000
L21	27	(Area) CCI-65FP-065125 (H)	87.75 - 88.67	Auto	0.2329
L21	28	(Area) CCI-65FP-065125 (H)	87.75 - 88.67	Auto	0.2329
L21	29	(Area) CCI-65FP-065125 (H)	87.75 - 88.67	Auto	0.2329
L22	20	PL 1x4	87.50 - 87.75	Auto	0.0000
L22	21	PL 1x4	87.50 - 87.75	Auto	0.0000
L22	27	(Area) CCI-65FP-065125 (H)	87.50 - 87.75	Auto	0.2134
L22	28	(Area) CCI-65FP-065125 (H)	87.50 - 87.75	Auto	0.2134
L22	29	(Area) CCI-65FP-065125 (H)	87.50 - 87.75	Auto	0.2134
L23	20	PL 1x4	85.50 - 87.50	Auto	0.0000
L23	21	PL 1x4	85.50 - 87.50	Auto	0.0000
L23	27	(Area) CCI-65FP-065125 (H)	85.50 - 87.50	Auto	0.2006
L23	28	(Area) CCI-65FP-065125 (H)	85.50 - 87.50	Auto	0.2006
L23	29	(Area) CCI-65FP-065125 (H)	85.50 - 87.50	Auto	0.2006
L23	43	(Area) CCI-65FP-045100 (H)	85.50 - 87.00	Auto	0.0000
L23	44	(Area) CCI-65FP-045100 (H)	85.50 - 87.00	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L24	20	PL 1x4	85.25 - 85.50	Auto	0.0000
L24	21	PL 1x4	85.25 - 85.50	Auto	0.0000
L24	27	(Area) CCI-65FP-065125 (H)	85.25 - 85.50	Auto	0.2754
L24	28	(Area) CCI-65FP-065125 (H)	85.25 - 85.50	Auto	0.2754
L24	29	(Area) CCI-65FP-065125 (H)	85.25 - 85.50	Auto	0.2754
L24	43	(Area) CCI-65FP-045100 (H)	85.25 - 85.50	Auto	0.0000
L24	44	(Area) CCI-65FP-045100 (H)	85.25 - 85.50	Auto	0.0000
L25	20	PL 1x4	83.00 - 85.25	Auto	0.0000
L25	21	PL 1x4	83.00 - 85.25	Auto	0.0000
L25	23	(Area) CCI-65FP-060100 (H)	83.00 - 85.00	Auto	0.1992
L25	24	(Area) CCI-65FP-060100 (H)	83.00 - 85.00	Auto	0.1992
L25	25	(Area) CCI-65FP-060100 (H)	83.00 - 85.00	Auto	0.1992
L25	27	(Area) CCI-65FP-065125 (H)	85.00 - 85.25	Auto	0.2685
L25	28	(Area) CCI-65FP-065125 (H)	85.00 - 85.25	Auto	0.2685
L25	29	(Area) CCI-65FP-065125 (H)	83.00 - 85.25	Auto	0.2617
L25	43	(Area) CCI-65FP-045100 (H)	83.00 - 85.25	Auto	0.0000
L25	44	(Area) CCI-65FP-045100 (H)	83.00 - 85.25	Auto	0.0000
L26	20	PL 1x4	82.75 - 83.00	Auto	0.0000
L26	21	PL 1x4	82.75 - 83.00	Auto	0.0000
L26	23	(Area) CCI-65FP-060100 (H)	82.75 - 83.00	Auto	0.2188
L26	24	(Area) CCI-65FP-060100 (H)	82.75 - 83.00	Auto	0.2188
L26	25	(Area) CCI-65FP-060100 (H)	82.75 - 83.00	Auto	0.2188
L26	29	(Area) CCI-65FP-065125 (H)	82.75 - 83.00	Auto	0.2789
L26	43	(Area) CCI-65FP-045100 (H)	82.75 - 83.00	Auto	0.0000
L26	44	(Area) CCI-65FP-045100 (H)	82.75 - 83.00	Auto	0.0000
L27	20	PL 1x4	82.50 - 82.75	Auto	0.0000
L27	21	PL 1x4	82.50 - 82.75	Auto	0.0000
L27	23	(Area) CCI-65FP-060100 (H)	82.50 - 82.75	Auto	0.1388
L27	24	(Area) CCI-65FP-060100 (H)	82.50 - 82.75	Auto	0.1388
L27	25	(Area) CCI-65FP-060100 (H)	82.50 - 82.75	Auto	0.1388
L27	29	(Area) CCI-65FP-065125 (H)	82.50 - 82.75	Auto	0.2051
L27	43	(Area) CCI-65FP-045100 (H)	82.50 - 82.75	Auto	0.0000
L27	44	(Area) CCI-65FP-045100 (H)	82.50 - 82.75	Auto	0.0000
L28	20	PL 1x4	77.50 - 82.50	Auto	0.0000
L28	21	PL 1x4	77.50 - 82.50	Auto	0.0000
L28	23	(Area) CCI-65FP-060100 (H)	77.50 - 82.50	Auto	0.1138
L28	24	(Area) CCI-65FP-060100 (H)	77.50 - 82.50	Auto	0.1138
L28	25	(Area) CCI-65FP-060100 (H)	77.50 - 82.50	Auto	0.1138
L28	29	(Area) CCI-65FP-065125 (H)	80.00 - 82.50	Auto	0.1905
L28	43	(Area) CCI-65FP-045100 (H)	77.50 - 82.50	Auto	0.0000
L28	44	(Area) CCI-65FP-045100 (H)	77.50 - 82.50	Auto	0.0000
L29	20	PL 1x4	71.75 - 77.50	Auto	0.0000
L29	21	PL 1x4	71.75 - 77.50	Auto	0.0000
L29	23	(Area) CCI-65FP-060100 (H)	70.00 - 77.50	Auto	0.0620
L29	24	(Area) CCI-65FP-060100 (H)	70.00 - 77.50	Auto	0.0620
L29	25	(Area) CCI-65FP-060100 (H)	70.00 - 77.50	Auto	0.0620
L29	43	(Area) CCI-65FP-045100 (H)	70.00 - 77.50	Auto	0.0000
L29	44	(Area) CCI-65FP-045100 (H)	70.00 - 77.50	Auto	0.0000
L30	23	(Area) CCI-65FP-060100 (H)	69.00 - 70.00	Auto	0.0718
L30	24	(Area) CCI-65FP-060100 (H)	69.00 - 70.00	Auto	0.0718
L30	25	(Area) CCI-65FP-060100 (H)	69.00 - 70.00	Auto	0.0718
L30	43	(Area) CCI-65FP-045100 (H)	69.00 - 70.00	Auto	0.0000
L30	44	(Area) CCI-65FP-045100 (H)	69.00 - 70.00	Auto	0.0000
L31	23	(Area) CCI-65FP-060100 (H)	64.00 - 69.00	Auto	0.0513
L31	24	(Area) CCI-65FP-060100 (H)	64.00 - 69.00	Auto	0.0513
L31	25	(Area) CCI-65FP-060100 (H)	64.00 - 69.00	Auto	0.0513
L31	43	(Area) CCI-65FP-045100 (H)	64.00 - 69.00	Auto	0.0000
L31	44	(Area) CCI-65FP-045100 (H)	64.00 - 69.00	Auto	0.0000
L32	23	(Area) CCI-65FP-060100 (H)	59.00 - 64.00	Auto	0.0119
L32	24	(Area) CCI-65FP-060100 (H)	59.00 - 64.00	Auto	0.0119
L32	25	(Area) CCI-65FP-060100 (H)	59.00 - 64.00	Auto	0.0119

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L32	43	(Area) CCI-65FP-045100 (H)	59.00 - 64.00	Auto	0.0000
L32	44	(Area) CCI-65FP-045100 (H)	59.00 - 64.00	Auto	0.0000
L33	23	(Area) CCI-65FP-060100 (H)	55.42 - 59.00	Auto	0.0000
L33	24	(Area) CCI-65FP-060100 (H)	55.42 - 59.00	Auto	0.0000
L33	25	(Area) CCI-65FP-060100 (H)	55.42 - 59.00	Auto	0.0000
L33	43	(Area) CCI-65FP-045100 (H)	55.42 - 59.00	Auto	0.0000
L33	44	(Area) CCI-65FP-045100 (H)	55.42 - 59.00	Auto	0.0000
L34	23	(Area) CCI-65FP-060100 (H)	55.17 - 55.42	Auto	0.0000
L34	24	(Area) CCI-65FP-060100 (H)	55.17 - 55.42	Auto	0.0000
L34	25	(Area) CCI-65FP-060100 (H)	55.17 - 55.42	Auto	0.0000
L34	43	(Area) CCI-65FP-045100 (H)	55.17 - 55.42	Auto	0.0000
L34	44	(Area) CCI-65FP-045100 (H)	55.17 - 55.42	Auto	0.0000
L35	23	(Area) CCI-65FP-060100 (H)	50.17 - 55.17	Auto	0.0000
L35	24	(Area) CCI-65FP-060100 (H)	50.17 - 55.17	Auto	0.0000
L35	25	(Area) CCI-65FP-060100 (H)	50.17 - 55.17	Auto	0.0000
L35	43	(Area) CCI-65FP-045100 (H)	50.17 - 55.17	Auto	0.0000
L35	44	(Area) CCI-65FP-045100 (H)	50.17 - 55.17	Auto	0.0000
L36	23	(Area) CCI-65FP-060100 (H)	50.00 - 50.17	Auto	0.0000
L36	24	(Area) CCI-65FP-060100 (H)	50.00 - 50.17	Auto	0.0000
L36	25	(Area) CCI-65FP-060100 (H)	50.00 - 50.17	Auto	0.0000
L36	39	(Area) CCI-65FP-065125 (H)	47.17 - 50.00	Auto	0.0005
L36	40	(Area) CCI-65FP-065125 (H)	47.17 - 50.00	Auto	0.0005
L36	41	(Area) CCI-65FP-065125 (H)	47.17 - 50.00	Auto	0.0005
L36	43	(Area) CCI-65FP-045100 (H)	47.17 - 50.17	Auto	0.0000
L36	44	(Area) CCI-65FP-045100 (H)	47.17 - 50.17	Auto	0.0000
L37	39	(Area) CCI-65FP-065125 (H)	46.92 - 47.17	Auto	0.0000
L37	40	(Area) CCI-65FP-065125 (H)	46.92 - 47.17	Auto	0.0000
L37	41	(Area) CCI-65FP-065125 (H)	46.92 - 47.17	Auto	0.0000
L37	43	(Area) CCI-65FP-045100 (H)	46.92 - 47.17	Auto	0.0000
L37	44	(Area) CCI-65FP-045100 (H)	46.92 - 47.17	Auto	0.0000
L38	39	(Area) CCI-65FP-065125 (H)	43.42 - 46.92	Auto	0.0000
L38	40	(Area) CCI-65FP-065125 (H)	43.42 - 46.92	Auto	0.0000
L38	41	(Area) CCI-65FP-065125 (H)	43.42 - 46.92	Auto	0.0000
L38	43	(Area) CCI-65FP-045100 (H)	43.42 - 46.92	Auto	0.0000
L38	44	(Area) CCI-65FP-045100 (H)	43.42 - 46.92	Auto	0.0000
L39	39	(Area) CCI-65FP-065125 (H)	43.17 - 43.42	Auto	0.0000
L39	40	(Area) CCI-65FP-065125 (H)	43.17 - 43.42	Auto	0.0000
L39	41	(Area) CCI-65FP-065125 (H)	43.17 - 43.42	Auto	0.0000
L39	43	(Area) CCI-65FP-045100 (H)	43.17 - 43.42	Auto	0.0000
L39	44	(Area) CCI-65FP-045100 (H)	43.17 - 43.42	Auto	0.0000
L40	39	(Area) CCI-65FP-065125 (H)	41.17 - 43.17	Auto	0.0000
L40	40	(Area) CCI-65FP-065125 (H)	41.17 - 43.17	Auto	0.0000
L40	41	(Area) CCI-65FP-065125 (H)	41.17 - 43.17	Auto	0.0000
L40	43	(Area) CCI-65FP-045100 (H)	41.92 - 43.17	Auto	0.0000
L40	44	(Area) CCI-65FP-045100 (H)	41.92 - 43.17	Auto	0.0000
L41	39	(Area) CCI-65FP-065125 (H)	40.92 - 41.17	Auto	0.0000
L41	40	(Area) CCI-65FP-065125 (H)	40.92 - 41.17	Auto	0.0000
L41	41	(Area) CCI-65FP-065125 (H)	40.92 - 41.17	Auto	0.0000
L42	39	(Area) CCI-65FP-065125 (H)	35.92 - 40.92	Auto	0.0000
L42	40	(Area) CCI-65FP-065125 (H)	35.92 - 40.92	Auto	0.0000
L42	41	(Area) CCI-65FP-065125 (H)	35.92 - 40.92	Auto	0.0000
L43	39	(Area) CCI-65FP-065125 (H)	31.50 - 35.92	Auto	0.0000
L43	40	(Area) CCI-65FP-065125 (H)	31.50 - 35.92	Auto	0.0000
L43	41	(Area) CCI-65FP-065125 (H)	31.50 - 35.92	Auto	0.0000
L44	39	(Area) CCI-65FP-065125 (H)	30.50 - 31.50	Auto	0.0000
L44	40	(Area) CCI-65FP-065125 (H)	30.50 - 31.50	Auto	0.0000
L44	41	(Area) CCI-65FP-065125 (H)	30.50 - 31.50	Auto	0.0000
L45	39	(Area) CCI-65FP-065125 (H)	29.92 - 30.50	Auto	0.0000
L45	40	(Area) CCI-65FP-065125 (H)	29.92 - 30.50	Auto	0.0000
L45	41	(Area) CCI-65FP-065125 (H)	29.92 - 30.50	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
6' x 15"dia. Top Hat	C	None		0.0000	151.00	No Ice	4.13	4.13	0.08
						1/2" Ice	6.05	6.05	0.14
						1" Ice	6.47	6.47	0.21
151									
OPA65R-BU4B w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	4.00 4.41 4.84	4.24 4.66 5.09	0.08 0.13 0.18
OPA65R-BU8B w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 -1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	8.87 9.68 10.51	7.93 8.73 9.55	0.11 0.19 0.29
OPA65R-BU4B w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	4.00 4.41 4.84	4.24 4.66 5.09	0.08 0.13 0.18
SBNHH-1D65A w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	3.04 3.34 3.65	2.45 2.75 3.05	0.05 0.10 0.16
SBNHH-1D65A w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	3.04 3.34 3.65	2.45 2.75 3.05	0.05 0.10 0.16
SBNHH-1D65A w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	3.04 3.34 3.65	2.45 2.75 3.05	0.05 0.10 0.16
QS46512-2 w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	2.95 3.25 3.55	3.33 3.63 3.94	0.09 0.15 0.21
QS46512-2 w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	2.95 3.25 3.55	3.33 3.63 3.94	0.09 0.15 0.21
80010799 w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	9.91 10.67 11.44	6.15 6.87 7.60	0.14 0.24 0.36
DC6-48-60-18-8C	A	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.14 1.79 2.00	1.14 1.79 2.00	0.03 0.05 0.07
DC6-48-60-18-8C	B	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.14 1.79 2.00	1.14 1.79 2.00	0.03 0.05 0.07
RRUS 32	A	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	2.86 3.08 3.32	1.78 1.97 2.17	0.06 0.08 0.10
RRUS 32	B	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	2.86 3.08 3.32	1.78 1.97 2.17	0.06 0.08 0.10
RRUS 32	C	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	2.86 3.08 3.32	1.78 1.97 2.17	0.06 0.08 0.10
RRUS 4426 B66	A	From	4.00	0.0000	151.00	No Ice	1.64	0.73	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
		Centroid-Leg	0.00			1/2" Ice	1.80	0.84	0.06
			1.00			1" Ice	1.97	0.97	0.08
RRUS 4426 B66	B	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.73 0.84 0.97	0.05 0.06 0.08
RRUS 4426 B66	C	From Centroid-Leg	4.00 0.00 2.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.73 0.84 0.97	0.05 0.06 0.08
RRUS E2 B29	A	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	3.15 3.36 3.59	1.29 1.44 1.60	0.06 0.08 0.11
RRUS E2 B29	B	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	3.15 3.36 3.59	1.29 1.44 1.60	0.06 0.08 0.11
RRUS E2 B29	C	From Centroid-Leg	4.00 0.00 1.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	3.15 3.36 3.59	1.29 1.44 1.60	0.06 0.08 0.11
2.4" Dia x 6-ft Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
2.4" Dia x 6-ft Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
2.4" Dia x 6-ft Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
Platform Mount [LP 404-1_KCKR]	C	None		0.0000	151.00	No Ice 1/2" Ice 1" Ice	35.82 45.85 55.76	35.82 45.85 55.76	2.32 3.02 3.89
146									
TT19-08BP111-001	A	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	0.55 0.64 0.74	0.44 0.53 0.63	0.02 0.02 0.03
TT19-08BP111-001	B	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	0.55 0.64 0.74	0.44 0.53 0.63	0.02 0.02 0.03
TT19-08BP111-001	C	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	0.55 0.64 0.74	0.44 0.53 0.63	0.02 0.02 0.03
(2) DBC0061F1V51-2	A	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	0.43 0.51 0.61	0.41 0.50 0.59	0.03 0.03 0.04
(2) DBC0061F1V51-2	B	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	0.43 0.51 0.61	0.41 0.50 0.59	0.03 0.03 0.04
(2) DBC0061F1V51-2	C	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	0.43 0.51 0.61	0.41 0.50 0.59	0.03 0.03 0.04
RADIO 4449 B5 B12_TMO	A	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.58 1.74 1.91	0.07 0.09 0.12
RADIO 4449 B5 B12_TMO	B	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.58 1.74 1.91	0.07 0.09 0.12
RADIO 4449 B5 B12_TMO	C	From Leg	1.00 0.00 0.00	0.0000	146.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.58 1.74 1.91	0.07 0.09 0.12

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Pipe Mount [PM 601-3]	C	None		0.0000	146.00	No Ice	3.17	3.17	0.20
						1/2" Ice	3.79	3.79	0.23
						1" Ice	4.42	4.42	0.28
141									
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	A	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	5.79 6.24 6.71	2.97 3.34 3.73	0.10 0.14 0.19
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	B	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	5.79 6.24 6.71	2.97 3.34 3.73	0.10 0.14 0.19
AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	C	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	5.79 6.24 6.71	2.97 3.34 3.73	0.10 0.14 0.19
APXVLL19P_43-C-A20_TMO w/ Mount Pipe	A	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	5.08 5.59 6.10	3.20 3.68 4.17	0.08 0.13 0.20
APXVLL19P_43-C-A20_TMO w/ Mount Pipe	B	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	5.08 5.59 6.10	3.20 3.68 4.17	0.08 0.13 0.20
APXVLL19P_43-C-A20_TMO w/ Mount Pipe	C	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	5.08 5.59 6.10	3.20 3.68 4.17	0.08 0.13 0.20
APXVAALL24_43-U-NA20 w/ Mount Pipe	A	From Centroid-Face	4.00 0.00 0.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
APXVAALL24_43-U-NA20 w/ Mount Pipe	B	From Centroid-Face	4.00 0.00 0.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
APXVAALL24_43-U-NA20 w/ Mount Pipe	C	From Centroid-Face	4.00 0.00 0.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
RADIO 4460 B2/B25 B66_TMO	A	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	2.14 2.32 2.51	1.69 1.85 2.02	0.11 0.13 0.16
RADIO 4460 B2/B25 B66_TMO	B	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	2.14 2.32 2.51	1.69 1.85 2.02	0.11 0.13 0.16
RADIO 4460 B2/B25 B66_TMO	C	From Centroid-Face	4.00 0.00 -1.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	2.14 2.32 2.51	1.69 1.85 2.02	0.11 0.13 0.16
RADIO 4449 B71 B85A_T-MOBILE	A	From Centroid-Face	4.00 0.00 0.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4449 B71 B85A_T-MOBILE	B	From Centroid-Face	4.00 0.00 0.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4449 B71 B85A_T-MOBILE	C	From Centroid-Face	4.00 0.00 0.00	0.0000	141.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
Platform Mount [LP 303-1_HR-1]	C	None		0.0000	141.00	No Ice 1/2" Ice 1" Ice	17.09 21.47 25.72	17.09 21.47 25.72	1.50 1.88 2.35
132									
BXA-80080/4CF w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 1.00	0.0000	132.00	No Ice 1/2" Ice 1" Ice	4.93 5.46 6.00	3.64 4.14 4.66	0.05 0.09 0.14
BXA-80080/4CF w/ Mount	B	From	4.00	0.0000	132.00	No Ice	4.93	3.64	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Pipe		Centroid-Leg	0.00				1/2" Ice	5.46	4.14	0.09
			1.00				1" Ice	6.00	4.66	0.14
BXA-80080/4CF w/ Mount Pipe	C	From Centroid-Leg	4.00	0.0000	132.00		No Ice	4.93	3.64	0.05
			0.00				1/2" Ice	5.46	4.14	0.09
			1.00				1" Ice	6.00	4.66	0.14
(2) JAHH-65B-R3B w/ Mount Pipe	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	5.50	4.38	0.10
			0.00				1/2" Ice	5.97	4.84	0.17
			1.00				1" Ice	6.45	5.30	0.25
(2) JAHH-45B-R3B w/ Mount Pipe	B	From Centroid-Leg	4.00	0.0000	132.00		No Ice	8.26	4.39	0.12
			0.00				1/2" Ice	8.83	4.91	0.20
			1.00				1" Ice	9.41	5.43	0.29
(2) JAHH-65B-R3B w/ Mount Pipe	C	From Centroid-Leg	4.00	0.0000	132.00		No Ice	5.50	4.38	0.10
			0.00				1/2" Ice	5.97	4.84	0.17
			1.00				1" Ice	6.45	5.30	0.25
MT6407-77A w/ Mount Pipe	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	5.94	3.10	0.10
			0.00				1/2" Ice	6.47	3.55	0.13
			1.00				1" Ice	7.02	4.02	0.18
MT6407-77A w/ Mount Pipe	B	From Centroid-Leg	4.00	0.0000	132.00		No Ice	5.94	3.10	0.10
			0.00				1/2" Ice	6.47	3.55	0.13
			1.00				1" Ice	7.02	4.02	0.18
MT6407-77A w/ Mount Pipe	C	From Centroid-Leg	4.00	0.0000	132.00		No Ice	5.94	3.10	0.10
			0.00				1/2" Ice	6.47	3.55	0.13
			1.00				1" Ice	7.02	4.02	0.18
CBC78T-DS-43-2X	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	0.37	0.51	0.02
			0.00				1/2" Ice	0.45	0.60	0.03
			1.00				1" Ice	0.53	0.70	0.04
CBC78T-DS-43-2X	B	From Centroid-Leg	4.00	0.0000	132.00		No Ice	0.37	0.51	0.02
			0.00				1/2" Ice	0.45	0.60	0.03
			1.00				1" Ice	0.53	0.70	0.04
CBC78T-DS-43-2X	C	From Centroid-Leg	4.00	0.0000	132.00		No Ice	0.37	0.51	0.02
			0.00				1/2" Ice	0.45	0.60	0.03
			1.00				1" Ice	0.53	0.70	0.04
KA-6030	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	0.96	0.29	0.02
			0.00				1/2" Ice	1.09	0.36	0.02
			1.00				1" Ice	1.22	0.45	0.03
KA-6030	B	From Centroid-Leg	4.00	0.0000	132.00		No Ice	0.96	0.29	0.02
			0.00				1/2" Ice	1.09	0.36	0.02
			1.00				1" Ice	1.22	0.45	0.03
RF4440D-13A	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	1.87	1.13	0.07
			0.00				1/2" Ice	2.03	1.27	0.09
			1.00				1" Ice	2.21	1.41	0.11
RF4440D-13A	B	From Centroid-Leg	4.00	0.0000	132.00		No Ice	1.87	1.13	0.07
			0.00				1/2" Ice	2.03	1.27	0.09
			1.00				1" Ice	2.21	1.41	0.11
RF4440D-13A	C	From Centroid-Leg	4.00	0.0000	132.00		No Ice	1.87	1.13	0.07
			0.00				1/2" Ice	2.03	1.27	0.09
			1.00				1" Ice	2.21	1.41	0.11
RVZDC-6627-PF-48	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	3.79	2.51	0.03
			0.00				1/2" Ice	4.04	2.73	0.06
			1.00				1" Ice	4.30	2.95	0.10
RF4439D-25A	A	From Centroid-Leg	4.00	0.0000	132.00		No Ice	1.87	1.25	0.07
			0.00				1/2" Ice	2.03	1.39	0.09
			1.00				1" Ice	2.21	1.54	0.11
RF4439D-25A	B	From Centroid-Leg	4.00	0.0000	132.00		No Ice	1.87	1.25	0.07
			0.00				1/2" Ice	2.03	1.39	0.09
			1.00				1" Ice	2.21	1.54	0.11
RF4439D-25A	C	From	4.00	0.0000	132.00		No Ice	1.87	1.25	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
		Centroid-Leg	0.00			1/2" Ice	2.03	1.39	0.09
			1.00			1" Ice	2.21	1.54	0.11
Miscellaneous [NA 510-1]	C	None		0.0000	132.00	No Ice	6.36	6.36	0.26
						1/2" Ice	8.52	8.52	0.34
						1" Ice	10.62	10.62	0.46
Platform Mount [LP 403-1_KCKR]	C	None		0.0000	132.00	No Ice	30.16	30.16	1.77
						1/2" Ice	37.53	37.53	2.32
						1" Ice	45.13	45.13	2.97
68									
FMO	B	From Leg	3.00	0.0000	68.00	No Ice	8.40	8.40	0.01
			0.00			1/2" Ice	8.81	8.81	0.18
			1.00			1" Ice	9.24	9.24	0.36
FMO	C	From Leg	3.00	0.0000	68.00	No Ice	8.40	8.40	0.01
			0.00			1/2" Ice	8.81	8.81	0.18
			2.00			1" Ice	9.24	9.24	0.36
2.4" Dia. x 10-ft Mount Pipe	B	From Leg	3.00	0.0000	68.00	No Ice	2.38	2.38	0.04
			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
2.4" Dia x 6-ft Pipe	B	From Leg	3.00	0.0000	68.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			0.00			1" Ice	2.30	2.30	0.05
2.4" Dia. x 10-ft Mount Pipe	C	From Leg	3.00	0.0000	68.00	No Ice	2.38	2.38	0.04
			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
2.4" Dia x 6-ft Pipe	C	From Leg	3.00	0.0000	68.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.93	1.93	0.03
			0.00			1" Ice	2.30	2.30	0.05
Side Arm Mount [SO 305-1]	B	From Leg	1.50	0.0000	68.00	No Ice	0.53	1.52	0.03
			0.00			1/2" Ice	0.78	2.07	0.04
			0.00			1" Ice	1.06	2.66	0.06
Side Arm Mount [SO 305-1]	C	From Leg	1.50	0.0000	68.00	No Ice	0.53	1.52	0.03
			0.00			1/2" Ice	0.78	2.07	0.04
			0.00			1" Ice	1.06	2.66	0.06
20									
MYA-43012N	C	From Leg	3.00	0.0000	20.00	No Ice	0.62	0.62	0.01
			0.00			1/2" Ice	1.12	1.12	0.01
			0.00			1" Ice	1.62	1.62	0.02
2.4" Dia x 4-ft Mount Pipe	C	From Leg	3.00	0.0000	20.00	No Ice	0.87	0.87	0.01
			0.00			1/2" Ice	1.12	1.12	0.02
			0.00			1" Ice	1.37	1.37	0.03
Side Arm Mount [SO 701-1]	C	From Leg	1.50	0.0000	20.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
***									

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy

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

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	150 - 145	Pole	Max Tension	4	0.00	-0.01	-0.00
			Max. Compression	14	-9.30	-1.24	-0.45
			Max. Mx	5	-4.79	-34.29	-1.48
			Max. My	8	-4.93	-1.68	-32.74
			Max. Vy	5	6.02	-34.29	-1.48
			Max. Vx	8	5.79	-1.68	-32.74
			Max. Torque	9			1.31
L2	145 - 140	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-15.95	-1.30	-0.52
			Max. Mx	5	-8.31	-67.57	-2.92
			Max. My	8	-8.54	-3.03	-64.82
			Max. Vy	5	9.88	-67.57	-2.92
			Max. Vx	8	9.58	-3.03	-64.82
			Max. Torque	9			1.31
L3	140 - 135	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-16.40	-1.34	-0.61
			Max. Mx	5	-8.64	-117.62	-4.80

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	8	-8.87	-4.76	-113.39
			Max. Vy	5	10.17	-117.62	-4.80
			Max. Vx	8	9.87	-4.76	-113.39
			Max. Torque	9			1.31
L4	135 - 130	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-24.46	-1.81	-0.40
			Max. Mx	5	-12.91	-180.93	-7.21
			Max. My	8	-13.25	-7.31	-174.61
			Max. Vy	5	14.98	-180.93	-7.21
			Max. Vx	8	14.56	-7.31	-174.61
			Max. Torque	9			1.31
L5	130 - 125	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-25.02	-1.87	-0.54
			Max. Mx	5	-13.43	-256.22	-10.20
			Max. My	8	-13.76	-10.06	-247.86
			Max. Vy	5	15.19	-256.22	-10.20
			Max. Vx	8	14.78	-10.06	-247.86
			Max. Torque	2			-1.24
L6	125 - 123.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-25.18	-1.89	-0.57
			Max. Mx	5	-13.57	-275.20	-10.94
			Max. My	8	-13.90	-10.74	-266.34
			Max. Vy	5	15.24	-275.20	-10.94
			Max. Vx	8	14.84	-10.74	-266.34
			Max. Torque	2			-1.24
L7	123.75 - 123.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-25.23	-1.90	-0.58
			Max. Mx	5	-13.63	-279.03	-11.24
			Max. My	8	-13.95	-10.98	-270.06
			Max. Vy	5	15.48	-279.03	-11.24
			Max. Vx	8	14.96	-10.98	-270.06
			Max. Torque	2			-1.24
L8	123.5 - 118.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-26.14	-1.95	-0.72
			Max. Mx	5	-14.35	-355.86	-14.15
			Max. My	8	-14.68	-13.68	-345.04
			Max. Vy	5	15.56	-355.86	-14.15
			Max. Vx	8	15.19	-13.68	-345.04
			Max. Torque	2			-1.24
L9	118.5 - 113.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-27.15	-2.00	-0.86
			Max. Mx	5	-15.11	-434.43	-17.24
			Max. My	8	-15.43	-16.51	-422.07
			Max. Vy	5	15.94	-434.43	-17.24
			Max. Vx	8	15.67	-16.51	-422.07
			Max. Torque	2			-1.24
L10	113.5 - 112.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-27.31	-2.00	-0.88
			Max. Mx	5	-15.22	-446.40	-17.72
			Max. My	8	-15.55	-16.95	-433.83
			Max. Vy	5	16.03	-446.40	-17.72
			Max. Vx	8	15.75	-16.95	-433.83
			Max. Torque	2			-1.23
L11	112.75 - 112.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-27.37	-2.01	-0.90
			Max. Mx	5	-15.28	-450.46	-18.17
			Max. My	8	-15.60	-17.29	-437.80
			Max. Vy	6	17.71	-399.40	-234.23
			Max. Vx	7	17.04	-241.89	-387.16
			Max. Torque	2			-1.22
L12	112.5 - 110	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	14	-27.99	-2.03	-0.96
			Max. Mx	5	-15.73	-490.81	-19.49
			Max. My	8	-16.06	-18.56	-477.50
			Max. Vy	5	16.36	-490.81	-19.49
			Max. Vx	8	16.05	-18.56	-477.50
			Max. Torque	2			-1.22
L13	110 - 107.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-28.76	-2.05	-1.03
			Max. Mx	5	-16.28	-536.17	-21.27
			Max. My	8	-16.62	-20.18	-521.94
			Max. Vy	5	16.70	-536.17	-21.27
			Max. Vx	8	16.32	-20.18	-521.94
			Max. Torque	2			-1.22
L14	107.25 - 107	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-28.83	-2.06	-1.04
			Max. Mx	5	-16.34	-540.37	-21.57
			Max. My	8	-16.68	-20.42	-526.03
			Max. Vy	5	17.06	-540.37	-21.57
			Max. Vx	8	16.51	-20.42	-526.03
			Max. Torque	2			-1.22
L15	107 - 102	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-30.21	-2.09	-1.18
			Max. Mx	5	-17.41	-624.91	-24.73
			Max. My	8	-17.76	-23.32	-608.59
			Max. Vy	5	17.17	-624.91	-24.73
			Max. Vx	8	16.74	-23.32	-608.59
			Max. Torque	2			-1.22
L16	102 - 97	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-31.52	-2.13	-1.32
			Max. Mx	5	-18.53	-711.36	-28.13
			Max. My	8	-18.88	-26.41	-692.90
			Max. Vy	5	17.49	-711.36	-28.13
			Max. Vx	8	17.04	-26.41	-692.90
			Max. Torque	2			-1.22
L17	97 - 95	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-32.07	-2.14	-1.39
			Max. Mx	5	-18.98	-746.38	-29.51
			Max. My	8	-19.34	-27.66	-727.04
			Max. Vy	5	17.62	-746.38	-29.51
			Max. Vx	8	17.16	-27.66	-727.04
			Max. Torque	2			-1.21
L18	95 - 94.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-32.14	-2.15	-1.40
			Max. Mx	5	-19.06	-750.82	-29.85
			Max. My	8	-19.41	-27.92	-731.34
			Max. Vy	5	18.04	-750.82	-29.85
			Max. Vx	8	17.38	-27.92	-731.34
			Max. Torque	2			-1.21
L19	94.75 - 89.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-33.69	-2.16	-1.56
			Max. Mx	5	-20.34	-839.56	-33.26
			Max. My	8	-20.69	-31.05	-817.81
			Max. Vy	5	17.97	-839.56	-33.26
			Max. Vx	8	17.48	-31.05	-817.81
			Max. Torque	2			-1.21
L20	89.75 - 88.67	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	14	-34.03	-2.17	-1.60
			Max. Mx	5	-20.62	-858.95	-34.04
			Max. My	8	-20.98	-31.75	-836.69
			Max. Vy	5	18.04	-858.95	-34.04
			Max. Vx	8	17.55	-31.75	-836.69

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	2			-1.21
L21	88.67 - 87.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-254.80	-743.59	-355.31
			Max. Mx	5	-222.97	-819.77	-1.99
			Max. My	2	-131.80	9.08	752.75
			Max. Vy	12	9.12	656.32	398.72
			Max. Vx	2	12.84	9.08	752.75
			Max. Torque	7			4.44
		Guy A	Bottom Tension	7	169.67		
			Top Tension	7	170.14		
			Top Cable Vert	7	165.57		
			Top Cable Norm	7	38.81		
			Top Cable Tan	7	5.26		
			Bot Cable Vert	7	-165.00		
			Bot Cable Norm	7	39.12		
			Bot Cable Tan	7	5.58		
		Guy B	Bottom Tension	12	83.82		
			Top Tension	12	84.17		
			Top Cable Vert	12	76.21		
			Top Cable Norm	12	35.73		
			Top Cable Tan	12	0.25		
			Bot Cable Vert	12	-75.68		
			Bot Cable Norm	12	36.03		
			Bot Cable Tan	12	0.34		
		Guy C	Bottom Tension	5	101.07		
			Top Tension	5	101.41		
			Top Cable Vert	5	91.86		
			Top Cable Norm	5	42.88		
			Top Cable Tan	5	2.65		
			Bot Cable Vert	5	-91.37		
			Bot Cable Norm	5	43.11		
			Bot Cable Tan	5	2.93		
L22	87.75 - 87.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-254.87	-745.41	-357.49
			Max. Mx	5	-223.02	-820.05	-4.51
			Max. My	2	-132.01	8.93	740.96
			Max. Vy	7	10.12	-476.92	-613.21
			Max. Vx	2	12.79	8.93	740.96
			Max. Torque	7			4.44
L23	87.5 - 85.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-255.33	-758.07	-372.69
			Max. Mx	5	-223.47	-821.54	-23.53
			Max. My	2	-132.06	8.88	737.76
			Max. Vy	12	9.25	636.55	383.24
			Max. Vx	2	12.96	8.70	724.89
			Max. Torque	7			4.44
L24	85.5 - 85.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-255.40	-759.85	-374.91
			Max. Mx	5	-223.54	-821.75	-26.09
			Max. My	2	-132.50	8.54	711.97
			Max. Vy	7	10.24	-495.46	-619.33
			Max. Vx	2	12.91	8.54	711.97
			Max. Torque	7			4.44
L25	85.25 - 83	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-256.00	-773.26	-391.62
			Max. Mx	5	-224.13	-822.72	-47.49
			Max. My	2	-132.56	8.49	708.74
			Max. Vy	12	9.33	614.62	366.12
			Max. Vx	2	13.01	8.29	694.16
			Max. Torque	7			4.44
L26	83 - 82.75	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	6	-256.08	-774.96	-393.81
			Max. Mx	5	-224.20	-822.88	-50.05
			Max. My	2	-133.14	8.09	679.58
			Max. Vy	7	10.10	-515.50	-625.52
			Max. Vx	2	12.92	8.09	679.58
			Max. Torque	7			4.43
L27	82.75 - 82.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-256.14	-776.38	-395.61
			Max. Mx	5	-224.27	-822.94	-52.41
			Max. My	2	-133.21	8.05	676.34
			Max. Vy	7	9.68	-517.43	-626.07
			Max. Vx	2	12.92	8.05	676.34
			Max. Torque	7			4.43
L28	82.5 - 77.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-257.45	-803.62	-431.86
			Max. Mx	5	-224.78	-823.22	-71.41
			Max. My	2	-133.26	8.00	673.11
			Max. Vy	12	9.45	562.14	325.19
			Max. Vx	2	13.03	7.46	634.18
			Max. Torque	7			4.43
L29	77.5 - 70	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-258.50	-822.97	-459.77
			Max. Mx	6	-258.50	-822.97	-459.77
			Max. My	8	-174.12	-135.76	-647.36
			Max. Vy	12	9.49	524.45	295.84
			Max. Vx	2	13.03	7.09	608.21
			Max. Torque	7			4.43
L30	70 - 69	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-260.45	-843.32	-490.48
			Max. Mx	6	-260.45	-843.32	-490.48
			Max. My	7	-243.43	-616.13	-650.43
			Max. Vy	12	9.36	482.15	262.87
			Max. Vx	2	12.78	5.68	511.37
			Max. Torque	7			4.42
L31	69 - 64	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-261.92	-867.76	-526.07
			Max. Mx	6	-261.92	-867.76	-526.07
			Max. My	7	-244.90	-651.97	-661.61
			Max. Vy	12	9.35	472.83	255.59
			Max. Vx	2	12.75	5.49	498.64
			Max. Torque	7			4.42
L32	64 - 59	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-263.22	-889.19	-559.54
			Max. Mx	6	-263.22	-889.19	-559.54
			Max. My	7	-246.20	-685.54	-670.83
			Max. Vy	12	8.51	430.30	221.19
			Max. Vx	2	11.65	4.53	439.63
			Max. Torque	7			3.42
L33	59 - 55.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-264.16	-902.79	-582.37
			Max. Mx	6	-264.16	-902.79	-582.37
			Max. My	7	-247.14	-708.20	-676.50
			Max. Vy	12	8.42	388.14	187.52
			Max. Vx	2	11.45	3.55	382.02
			Max. Torque	7			3.42
L34	55.42 - 55.17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-264.23	-903.80	-584.05
			Max. Mx	6	-264.23	-903.80	-584.05
			Max. My	7	-247.20	-709.83	-676.95
			Max. Vy	12	8.28	358.29	163.65
			Max. Vx	2	11.23	2.85	341.45

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	7			3.42
L35	55.17 - 50.17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-265.55	-920.24	-614.15
			Max. Mx	6	-265.55	-920.24	-614.15
			Max. My	7	-248.53	-739.39	-683.56
			Max. Vy	12	8.31	356.22	161.99
			Max. Vx	2	11.26	2.80	338.64
			Max. Torque	7			3.42
L36	50.17 - 47.17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-266.36	-928.94	-631.41
			Max. Mx	6	-266.36	-928.94	-631.41
			Max. My	7	-249.33	-756.12	-686.97
			Max. Vy	12	8.15	315.18	129.12
			Max. Vx	2	10.99	1.81	283.11
			Max. Torque	7			3.42
L37	47.17 - 46.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-266.40	-929.66	-632.86
			Max. Mx	6	-266.40	-929.66	-632.86
			Max. My	7	-249.37	-757.51	-687.26
			Max. Vy	12	8.00	290.95	109.69
			Max. Vx	2	10.78	1.21	250.47
			Max. Torque	7			3.41
L38	46.92 - 43.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-266.97	-937.44	-651.28
			Max. Mx	6	-266.97	-937.44	-651.28
			Max. My	7	-249.94	-775.08	-689.87
			Max. Vy	12	8.06	288.95	108.08
			Max. Vx	2	10.81	1.16	247.78
			Max. Torque	7			3.42
L39	43.42 - 43.17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-267.01	-937.92	-652.55
			Max. Mx	6	-267.01	-937.92	-652.55
			Max. My	7	-249.98	-776.27	-690.01
			Max. Vy	12	7.96	260.96	85.69
			Max. Vx	2	10.63	0.46	210.31
			Max. Torque	7			3.41
L40	43.17 - 41.17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-267.34	-940.86	-661.99
			Max. Mx	6	-267.34	-940.86	-661.99
			Max. My	7	-250.31	-785.07	-690.59
			Max. Vy	12	8.00	258.97	84.09
			Max. Vx	2	10.64	0.41	207.66
			Max. Torque	7			3.41
L41	41.17 - 40.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-267.41	-941.23	-663.18
			Max. Mx	6	-267.41	-941.23	-663.18
			Max. My	7	-250.38	-786.17	-690.67
			Max. Vy	12	7.92	243.07	71.43
			Max. Vx	2	10.52	0.01	186.52
			Max. Torque	7			3.41
L42	40.92 - 35.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-268.72	-946.13	-684.90
			Max. Mx	6	-268.72	-946.13	-684.90
			Max. My	7	-251.16	-798.31	-690.87
			Max. Vy	12	7.94	241.09	69.85
			Max. Vx	2	10.52	-0.04	183.90
			Max. Torque	7			3.41
L43	35.92 - 31.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-268.79	-946.36	-685.98
			Max. Mx	6	-268.79	-946.36	-685.98
			Max. My	7	-251.75	-806.98	-690.84

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	12	7.68	202.06	38.74
			Max. Vx	2	10.20	-1.04	132.14
			Max. Torque	7			3.41
L44	31.5 - 30.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-270.75	-949.83	-707.04
			Max. Mx	6	-270.75	-949.83	-707.04
			Max. My	6	-270.75	-949.83	-707.04
			Max. Vy	12	7.47	168.61	11.96
			Max. Vx	2	9.89	-1.92	87.78
			Max. Torque	7			3.41
L45	30.5 - 25.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-271.73	-950.14	-724.86
			Max. Mx	6	-271.34	-950.52	-718.15
			Max. My	6	-271.73	-950.14	-724.86
			Max. Vy	12	7.43	161.19	6.00
			Max. Vx	2	9.83	-2.12	77.93
			Max. Torque	7			3.41
L46	25.5 - 20.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-272.72	-946.46	-739.35
			Max. Mx	6	-271.73	-950.13	-724.85
			Max. My	6	-272.72	-946.46	-739.35
			Max. Vy	12	7.20	124.71	-23.25
			Max. Vx	2	9.49	-3.12	29.65
			Max. Torque	7			3.41
L47	20.5 - 15.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-273.82	-939.22	-751.06
			Max. Mx	6	-272.72	-946.45	-739.34
			Max. My	6	-273.82	-939.22	-751.06
			Max. Vy	11	6.99	244.96	-175.26
			Max. Vx	2	9.11	-4.10	-16.83
			Max. Torque	7			3.41
L48	15.5 - 10.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-274.85	-929.06	-759.70
			Max. Mx	6	-273.82	-939.21	-751.05
			Max. My	6	-274.85	-929.06	-759.70
			Max. Vy	11	6.72	211.21	-188.72
			Max. Vx	2	8.61	-4.76	-61.13
			Max. Torque	7			3.09
L49	10.5 - 5.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-275.89	-916.04	-765.58
			Max. Mx	6	-274.85	-929.05	-759.69
			Max. My	6	-275.89	-916.04	-765.58
			Max. Vy	11	6.47	178.35	-201.24
			Max. Vx	2	8.17	-5.66	-103.09
			Max. Torque	7			3.09
L50	5.5 - 0.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-276.95	-900.53	-768.92
			Max. Mx	6	-275.89	-916.04	-765.58
			Max. My	6	-276.95	-900.53	-768.92
			Max. Vy	11	6.18	146.81	-212.99
			Max. Vx	2	7.69	-6.55	-142.75
			Max. Torque	7			3.09
L51	0.5 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-277.06	-898.85	-769.12
			Max. Mx	6	-276.95	-900.53	-768.92
			Max. My	6	-277.06	-898.85	-769.12
			Max. Vy	11	5.86	116.81	-223.96
			Max. Vx	2	7.19	-7.43	-179.98
			Max. Torque	7			3.09

Maximum Reactions

Location	*Condition*	*Gov. Load Comb.*	*Vertical K*	*Horizontal, X K*	*Horizontal, Z K*
Mast	Max. Vert	6	277.06	3.36	-0.39
	Max. H_x	5	245.09	4.10	-3.74
	Max. H_z	9	199.83	-1.73	3.50
	Max. M_x	22	-29.02	-0.75	0.57
	Max. M_z	6	898.85	3.36	-0.39
	Max. Torsion	7	3.09	0.43	2.05
	Min. Vert	33	112.99	-0.07	0.43
	Min. H_x	11	216.58	-5.82	-2.11
	Min. H_z	2	154.00	-0.18	-7.15
	Min. M_x	6	-769.12	3.36	-0.39
	Min. M_z	10	-196.88	-4.46	1.01
	Min. Torsion	4	-2.44	3.98	-5.41
Guy C @ 42 ft Elev 0 ft Azimuth 225 deg	Max. Vert	10	-0.41	-0.04	0.10
	Max. H_x	10	-0.41	-0.04	0.10
	Max. H_z	5	-91.37	-32.74	28.21
	Min. Vert	5	-91.37	-32.74	28.21
	Min. H_x	5	-91.37	-32.74	28.21
	Min. H_z	9	-0.45	-0.12	0.05
Guy B @ 42.5 ft Elev 0 ft Azimuth 135 deg	Max. Vert	6	-0.20	-0.03	0.03
	Max. H_x	12	-75.68	25.88	25.07
	Max. H_z	12	-75.68	25.88	25.07
	Min. Vert	12	-75.68	25.88	25.07
	Min. H_x	6	-0.20	-0.03	0.03
	Min. H_z	7	-0.22	0.04	-0.02
Guy A @ 20.5 ft Elev 0 ft Azimuth 14 deg	Max. Vert	2	-5.63	0.32	-1.01
	Max. H_x	10	-133.16	9.05	-29.66
	Max. H_z	2	-5.63	0.32	-1.01
	Min. Vert	7	-165.00	4.22	-39.29
	Min. H_x	3	-6.40	0.23	-1.21
	Min. H_z	7	-165.00	4.22	-39.29

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	118.18	0.08	0.86	67.30	-19.16	-0.01
1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy	154.00	0.18	7.15	183.56	-7.51	0.99
1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy	140.94	-3.03	6.27	176.79	27.18	2.03
1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy	167.57	-3.98	5.41	336.46	-188.63	2.44
1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy	245.09	-4.10	3.74	666.32	-660.22	0.84

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy	277.06	-3.36	0.39	769.12	-898.85	-1.67
1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy	260.04	-0.43	-2.05	652.69	-867.46	-3.09
1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy	193.64	2.81	-3.08	337.47	-529.42	-2.66
1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy	199.83	1.73	-3.50	143.03	189.37	-1.30
1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy	229.07	4.46	-1.01	215.96	196.88	-1.22
1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy	216.58	5.82	2.11	225.01	113.89	-1.25
1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy	165.04	5.50	4.42	153.57	-37.61	-1.11
1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy	154.67	3.44	6.48	170.01	-46.18	-0.22
1.2 Dead+1.0 Ice+1.0 Temp+Guy	122.42	0.06	0.63	53.11	-14.37	-0.01
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy	127.49	0.07	2.06	81.08	-10.81	0.23
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy	125.08	-0.63	1.85	79.08	-3.78	0.44
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy	122.99	-1.10	1.36	74.51	-4.85	0.51
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy	128.58	-0.98	0.96	97.81	-50.01	0.41
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy	133.87	-0.52	0.50	114.55	-92.79	0.18
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy	130.39	-0.11	-0.12	91.13	-85.09	-0.08
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy	120.51	0.18	-0.68	38.96	-34.31	-0.28
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy	120.26	0.75	-0.57	29.02	-24.91	-0.44
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy	123.55	1.25	-0.05	37.81	-27.68	-0.50
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy	126.43	1.47	0.64	50.82	-28.82	-0.43
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy	128.18	1.28	1.34	64.54	-26.06	-0.27
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy	128.66	0.78	1.87	75.67	-19.25	-0.03
Dead+Wind 0 deg - Service+Guy	123.46	0.10	2.17	92.17	-16.33	0.24
Dead+Wind 30 deg - Service+Guy	120.88	-0.57	2.01	91.08	-9.48	0.42
Dead+Wind 60 deg - Service+Guy	117.72	-1.05	1.51	82.84	-5.72	0.47
Dead+Wind 90 deg - Service+Guy	115.38	-1.21	0.88	73.71	-9.36	0.38
Dead+Wind 120 deg - Service+Guy	116.32	-0.90	0.34	73.44	-28.75	0.17
Dead+Wind 150 deg - Service+Guy	113.93	-0.50	-0.21	55.80	-26.00	-0.07
Dead+Wind 180 deg - Service+Guy	112.99	0.07	-0.43	43.59	-22.92	-0.28
Dead+Wind 210 deg - Service+Guy	115.41	0.73	-0.27	43.83	-28.88	-0.43
Dead+Wind 240 deg - Service+Guy	118.63	1.21	0.22	52.16	-33.11	-0.47
Dead+Wind 270 deg -	121.75	1.42	0.88	64.58	-33.85	-0.40

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Service+Guy						
Dead+Wind 300 deg - Service+Guy	123.85	1.24	1.54	77.92	-30.58	-0.23
Dead+Wind 330 deg - Service+Guy	124.52	0.77	2.03	88.45	-24.11	0.00

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.00	-38.09	0.00	0.00	38.09	0.00	0.012%
2	-0.21	-45.57	-26.31	0.20	45.57	26.30	0.025%
3	12.76	-45.54	-22.20	-12.76	45.54	22.19	0.010%
4	22.16	-45.48	-12.62	-22.15	45.48	12.63	0.041%
5	25.89	-45.42	0.21	-25.87	45.42	-0.19	0.043%
6	22.31	-45.38	12.94	-22.28	45.37	-12.92	0.056%
7	13.17	-45.34	22.49	-13.15	45.33	-22.47	0.048%
8	0.21	-45.33	26.24	-0.18	45.32	-26.23	0.053%
9	-12.74	-45.36	22.16	12.73	45.36	-22.15	0.026%
10	-22.10	-45.42	12.58	22.08	45.42	-12.57	0.030%
11	-25.88	-45.47	-0.21	25.86	45.47	0.22	0.039%
12	-22.37	-45.52	-12.97	22.35	45.52	12.98	0.031%
13	-13.19	-45.56	-22.53	13.19	45.56	22.53	0.012%
14	0.00	-65.13	0.00	0.00	65.13	0.00	0.007%
15	-0.04	-65.18	-5.63	0.04	65.18	5.63	0.006%
16	2.78	-65.17	-4.83	-2.77	65.17	4.83	0.006%
17	4.81	-65.15	-2.75	-4.81	65.15	2.75	0.006%
18	5.62	-65.12	0.04	-5.61	65.12	-0.03	0.009%
19	4.85	-65.11	2.81	-4.84	65.11	-2.81	0.012%
20	2.86	-65.09	4.89	-2.85	65.09	-4.89	0.010%
21	0.04	-65.09	5.62	-0.03	65.09	-5.61	0.007%
22	-2.78	-65.10	4.83	2.77	65.10	-4.82	0.006%
23	-4.81	-65.12	2.75	4.81	65.12	-2.75	0.007%
24	-5.62	-65.14	-0.04	5.61	65.14	0.04	0.006%
25	-4.85	-65.16	-2.81	4.85	65.16	2.81	0.006%
26	-2.86	-65.18	-4.90	2.85	65.18	4.90	0.007%
27	-0.04	-38.11	-5.71	0.05	38.11	5.71	0.010%
28	2.77	-38.11	-4.82	-2.77	38.11	4.82	0.010%
29	4.81	-38.09	-2.74	-4.81	38.09	2.74	0.012%
30	5.62	-38.08	0.04	-5.62	38.08	-0.04	0.012%
31	4.84	-38.07	2.81	-4.84	38.07	-2.81	0.014%
32	2.86	-38.06	4.88	-2.86	38.06	-4.88	0.013%
33	0.04	-38.06	5.70	-0.04	38.06	-5.70	0.010%
34	-2.77	-38.07	4.81	2.77	38.07	-4.81	0.012%
35	-4.80	-38.08	2.73	4.80	38.08	-2.73	0.011%
36	-5.62	-38.09	-0.04	5.62	38.09	0.04	0.011%
37	-4.86	-38.10	-2.82	4.85	38.10	2.82	0.010%
38	-2.86	-38.11	-4.89	2.86	38.11	4.89	0.011%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	37	0.00000001	0.00001892
2	Yes	42	0.00014557	0.00009076
3	Yes	46	0.00005547	0.00013348
4	Yes	95	0.00014903	0.00010106
5	Yes	119	0.00008159	0.00000000
6	Yes	123	0.00008490	0.00000000
7	Yes	122	0.00007952	0.00000000
8	Yes	107	0.00013950	0.00014817
9	Yes	71	0.00008823	0.00013673
10	Yes	72	0.00009134	0.00014934
11	Yes	67	0.00013528	0.00012178
12	Yes	55	0.00014471	0.00014286
13	Yes	46	0.00006703	0.00014122
14	Yes	37	0.00000001	0.00005213
15	Yes	39	0.00000001	0.00005231
16	Yes	41	0.00000001	0.00005348
17	Yes	50	0.00000001	0.00003258
18	Yes	88	0.00014855	0.00003392
19	Yes	98	0.00014877	0.00004264
20	Yes	96	0.00014372	0.00003857
21	Yes	65	0.00000001	0.00002749
22	Yes	42	0.00000001	0.00005451
23	Yes	44	0.00000001	0.00005165
24	Yes	44	0.00000001	0.00004606
25	Yes	43	0.00000001	0.00004639
26	Yes	41	0.00000001	0.00005251
27	Yes	37	0.00000001	0.00001671
28	Yes	40	0.00000001	0.00001167
29	Yes	42	0.00000001	0.00001474
30	Yes	49	0.00000001	0.00001076
31	Yes	73	0.00014081	0.00002436
32	Yes	62	0.00000001	0.00001946
33	Yes	42	0.00000001	0.00001646
34	Yes	39	0.00000001	0.00001831
35	Yes	40	0.00000001	0.00001672
36	Yes	41	0.00000001	0.00001366
37	Yes	41	0.00000001	0.00001292
38	Yes	39	0.00000001	0.00001652

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	15.686	31	1.4202	0.0129
L2	145 - 140	14.213	31	1.3958	0.0110
L3	140 - 135	12.779	31	1.3466	0.0094
L4	135 - 130	11.411	31	1.2687	0.0079
L5	130 - 125	10.140	31	1.1617	0.0065
L6	125 - 123.75	8.999	31	1.0216	0.0053
L7	123.75 - 123.5	8.738	31	0.9828	0.0051
L8	123.5 - 118.5	8.687	31	0.9794	0.0050
L9	118.5 - 113.5	7.705	31	0.9025	0.0045
L10	113.5 - 112.75	6.810	31	0.8165	0.0041
L11	112.75 - 112.5	6.684	31	0.8030	0.0040
L12	112.5 - 110	6.642	31	0.8010	0.0040
L13	110 - 107.25	6.231	31	0.7802	0.0039

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L14	107.25 - 107	5.791	31	0.7574	0.0038
L15	107 - 102	5.752	31	0.7536	0.0038
L16	102 - 97	5.010	31	0.6750	0.0035
L17	97 - 95	4.353	31	0.5929	0.0032
L18	95 - 94.75	4.114	31	0.5594	0.0031
L19	94.75 - 89.75	4.086	31	0.5560	0.0030
L20	89.75 - 88.67	3.547	31	0.4852	0.0028
L21	88.67 - 87.75	3.441	31	0.4700	0.0028
L22	87.75 - 87.5	3.353	31	0.4589	0.0027
L23	87.5 - 85.5	3.329	31	0.4557	0.0027
L24	85.5 - 85.25	3.146	31	0.4307	0.0026
L25	85.25 - 83	3.124	31	0.4284	0.0026
L26	83 - 82.75	2.929	31	0.4083	0.0025
L27	82.75 - 82.5	2.908	31	0.4063	0.0025
L28	82.5 - 77.5	2.887	31	0.4038	0.0025
L29	77.5 - 70	2.494	31	0.3574	0.0023
L30	73.5 - 69	2.211	31	0.3246	0.0022
L31	69 - 64	1.916	31	0.3048	0.0022
L32	64 - 59	1.617	31	0.2729	0.0020
L33	59 - 55.42	1.349	31	0.2446	0.0018
L34	55.42 - 55.17	1.174	31	0.2261	0.0016
L35	55.17 - 50.17	1.162	31	0.2249	0.0016
L36	50.17 - 47.17	0.941	31	0.2014	0.0015
L37	47.17 - 46.92	0.819	31	0.1887	0.0014
L38	46.92 - 43.42	0.809	31	0.1867	0.0014
L39	43.42 - 43.17	0.683	31	0.1603	0.0012
L40	43.17 - 41.17	0.674	31	0.1585	0.0012
L41	41.17 - 40.92	0.611	31	0.1445	0.0011
L42	40.92 - 35.92	0.604	31	0.1436	0.0011
L43	35.92 - 31.5	0.463	31	0.1261	0.0009
L44	35.67 - 30.5	0.457	31	0.1252	0.0009
L45	30.5 - 25.5	0.327	31	0.1122	0.0008
L46	25.5 - 20.5	0.222	31	0.0894	0.0007
L47	20.5 - 15.5	0.140	31	0.0687	0.0005
L48	15.5 - 10.5	0.080	27	0.0498	0.0004
L49	10.5 - 5.5	0.038	27	0.0334	0.0002
L50	5.5 - 0.5	0.011	27	0.0181	0.0001
L51	0.5 - 0	0.000	1	0.0000	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
151.00	6' x 15"dia. Top Hat	31	15.686	1.4202	0.0129	7154
146.00	TT19-08BP111-001	31	14.505	1.4022	0.0114	7154
141.00	AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	31	13.061	1.3588	0.0097	4743
132.00	BXA-80080/4CF w/ Mount Pipe	31	10.635	1.2071	0.0070	2578
88.67	Guy	31	3.441	0.4700	0.0028	4448
68.00	FMO	31	1.854	0.2994	0.0021	9930
20.00	MYA-43012N	31	0.132	0.0668	0.0005	14696

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	131.731	6	9.1805	0.1446
L2	145 - 140	122.241	6	9.0726	0.1402
L3	140 - 135	112.925	6	8.8437	0.1333
L4	135 - 130	103.913	6	8.4740	0.1232
L5	130 - 125	95.353	6	7.9639	0.1107
L6	125 - 123.75	87.400	6	7.2936	0.0956
L7	123.75 - 123.5	85.525	6	7.1076	0.0914
L8	123.5 - 118.5	85.155	6	7.0911	0.0911
L9	118.5 - 113.5	77.956	6	6.7214	0.0827
L10	113.5 - 112.75	71.163	6	6.3076	0.0732
L11	112.75 - 112.5	70.182	6	6.2425	0.0717
L12	112.5 - 110	69.857	6	6.2329	0.0715
L13	110 - 107.25	66.633	6	6.1324	0.0692
L14	107.25 - 107	63.148	6	6.0227	0.0667
L15	107 - 102	62.834	6	6.0044	0.0663
L16	102 - 97	56.769	6	5.6248	0.0576
L17	97 - 95	51.106	6	5.2279	0.0484
L18	95 - 94.75	48.958	6	5.0657	0.0447
L19	94.75 - 89.75	48.694	6	5.0492	0.0443
L20	89.75 - 88.67	43.602	6	4.7060	0.0363
L21	88.67 - 87.75	42.549	6	4.6325	0.0346
L22	87.75 - 87.5	41.665	6	4.5750	0.0332
L23	87.5 - 85.5	41.426	6	4.5585	0.0328
L24	85.5 - 85.25	39.550	6	4.4242	0.0297
L25	85.25 - 83	39.320	6	4.4116	0.0294
L26	83 - 82.75	37.273	6	4.2975	0.0270
L27	82.75 - 82.5	37.049	6	4.2859	0.0267
L28	82.5 - 77.5	36.826	6	4.2715	0.0265
L29	77.5 - 70	32.515	6	3.9844	0.0213
L30	73.5 - 69	29.278	6	3.7609	0.0179
L31	69 - 64	25.799	6	3.6138	0.0163
L32	64 - 59	22.156	6	3.3566	0.0141
L33	59 - 55.42	18.778	6	3.1064	0.0122
L34	55.42 - 55.17	16.518	6	2.9313	0.0110
L35	55.17 - 50.17	16.365	6	2.9193	0.0109
L36	50.17 - 47.17	13.437	6	2.6811	0.0095
L37	47.17 - 46.92	11.798	6	2.5438	0.0087
L38	46.92 - 43.42	11.665	6	2.5220	0.0086
L39	43.42 - 43.17	9.928	6	2.2225	0.0072
L40	43.17 - 41.17	9.813	6	2.2016	0.0071
L41	41.17 - 40.92	8.926	6	2.0360	0.0063
L42	40.92 - 35.92	8.820	6	2.0248	0.0063
L43	35.92 - 31.5	6.815	6	1.8082	0.0054
L44	35.67 - 30.5	6.721	6	1.7977	0.0053
L45	30.5 - 25.5	4.850	6	1.6273	0.0047
L46	25.5 - 20.5	3.312	6	1.3150	0.0037
L47	20.5 - 15.5	2.091	6	1.0213	0.0028
L48	15.5 - 10.5	1.167	6	0.7457	0.0020
L49	10.5 - 5.5	0.523	6	0.4876	0.0013
L50	5.5 - 0.5	0.140	6	0.2465	0.0006
L51	0.5 - 0	0.001	6	0.0216	0.0001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
151.00	6' x 15"dia. Top Hat	6	131.731	9.1805	0.1628	1643
146.00	TT19-08BP111-001	6	124.130	9.1013	0.1557	1643
141.00	AIR 6419 B41_TMO_CCIV2 w/ Mount Pipe	6	114.768	8.9006	0.1456	1078
132.00	BXA-80080/4CF w/ Mount Pipe	6	98.713	8.1803	0.1219	568
88.67	Guy	6	42.549	4.6325	0.0363	883
68.00	FMO	6	25.050	3.5713	0.0188	1249
20.00	MYA-43012N	6	1.985	0.9935	0.0034	1015

Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_u K	Allowable ϕT_n K	Required S.F.	Actual S.F.
L21	88.67 (A) (54)	1 5/8 BS	38.88	324.00	170.14	204.12	0.952	1.143
	88.67 (B) (53)	1 3/8 BS	27.84	232.00	84.17	146.16	0.952	1.654
	88.67 (C) (52)	1 3/8 BS	27.84	232.00	101.41	146.16	0.952	1.373

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	150 - 145 (1)	TP15.78x15x0.1875	5.00	61.33	131.8	9.4140	-4.64	122.35	0.038
L2	145 - 140 (2)	TP16.56x15.78x0.1875	5.00	61.33	125.6	9.8849	-8.08	141.64	0.057
L3	140 - 135 (3)	TP17.34x16.56x0.1875	5.00	61.33	119.9	10.3558	-8.40	162.87	0.052
L4	135 - 130 (4)	TP18.12x17.34x0.1875	5.00	61.33	114.6	10.8267	-12.56	186.11	0.067
L5	130 - 125 (5)	TP18.9x18.12x0.1875	5.00	61.33	109.9	11.2977	-13.08	211.47	0.062
L6	125 - 123.75 (6)	TP19.095x18.9x0.1875	1.25	61.33	108.7	11.4154	-13.22	218.15	0.061
L7	123.75 - 123.5 (7)	TP19.134x19.095x0.4563	0.25	61.33	110.1	27.4399	-13.28	511.72	0.026
L8	123.5 - 118.5 (8)	TP19.914x19.134x0.4375	5.00	61.33	105.6	27.4375	-14.00	556.37	0.025
L9	118.5 - 113.5 (9)	TP20.694x19.914x0.4313	5.00	61.33	101.5	28.1374	-14.76	617.56	0.024
L10	113.5 - 112.75 (10)	TP20.811x20.694x0.425	0.75	61.33	100.8	27.8982	-14.87	619.78	0.024
L11	112.75 - 112.5 (11)	TP20.85x20.811x1.0625	0.25	61.33	103.9	67.6980	-14.93	1416.95	0.011
L12	112.5 - 110 (12)	TP21.24x20.85x1.0375	2.50	61.33	101.8	67.4915	-15.38	1472.51	0.010
L13	110 - 107.25 (13)	TP21.6964x21.24x1.075	2.75	61.33	99.7	71.3810	-15.94	1622.62	0.010
L14	107.25 - 107 (14)	TP21.7379x21.6964x0.55	0.25	61.33	97.0	37.5238	-15.99	897.12	0.018

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L15	107 - 102 (15)	TP22.5677x21.7379x0.5375	5.00	61.33	93.3	38.1288	-17.06	974.87	0.018
L16	102 - 97 (16)	TP23.3975x22.5677x0.525	5.00	61.33	89.9	38.6660	-18.17	1049.57	0.017
L17	97 - 95 (17)	TP23.7295x23.3975x0.5188	2.00	61.33	88.6	38.7706	-18.62	1076.05	0.017
L18	95 - 94.75 (18)	TP23.7709x23.7295x0.65	0.25	61.33	88.9	48.3921	-18.70	1335.32	0.014
L19	94.75 - 89.75 (19)	TP24.6008x23.7709x0.625	5.00	61.33	85.7	48.2512	-19.97	1403.37	0.014
L20	89.75 - 88.67 (20)	TP24.78x24.6008x0.625	1.08	61.33	85.1	48.6119	-20.25	1428.55	0.014
L21	88.67 - 87.75 (21)	TP24.9323x24.78x0.625	0.92	88.67	123.0	48.6119	-254.58	725.35	0.351
L22	87.75 - 87.5 (22)	TP24.9736x24.9323x0.5875	0.25	88.67	122.1	46.0542	-254.81	698.02	0.365
L23	87.5 - 85.5 (23)	TP25.3047x24.9736x0.575	2.00	88.67	121.8	45.1741	-254.87	687.72	0.371
L24	85.5 - 85.25 (24)	TP25.346x25.3047x0.775	0.25	88.67	121.2	61.2138	-255.34	941.94	0.271
L25	85.25 - 83 (25)	TP25.7184x25.346x0.7625	2.25	88.67	120.9	60.3587	-255.41	932.86	0.274
L26	83 - 82.75 (26)	TP25.7598x25.7184x0.825	0.25	88.67	119.4	66.1294	-256.00	1047.98	0.244
L27	82.75 - 82.5 (27)	TP25.8012x25.7598x0.65	0.25	88.67	118.4	52.5548	-256.08	847.40	0.302
L28	82.5 - 77.5 (28)	TP26.6287x25.8012x0.6375	5.00	88.67	118.1	51.6547	-256.15	836.47	0.306
L29	77.5 - 70 (29)	TP27.87x26.6287x0.625	7.50	88.67	114.3	52.3325	-257.45	904.96	0.284
L30	70 - 69 (30)	TP27.4817x26.7907x0.6625	4.50	88.67	111.5	56.8845	-260.20	1034.40	0.252
L31	69 - 64 (31)	TP28.2495x27.4817x0.6625	5.00	88.67	110.8	57.2121	-260.46	1052.37	0.247
L32	64 - 59 (32)	TP29.0173x28.2495x0.65	5.00	88.67	107.7	57.7657	-261.92	1125.28	0.233
L33	59 - 55.42 (33)	TP29.567x29.0173x0.6375	3.58	88.67	104.7	58.2566	-263.22	1199.92	0.219
L34	55.42 - 55.17 (34)	TP29.6054x29.567x0.6375	0.25	88.67	102.7	59.3850	-264.16	1271.01	0.208
L35	55.17 - 50.17 (35)	TP30.3731x29.6054x0.625	5.00	88.67	102.6	58.3230	-264.23	1252.67	0.211
L36	50.17 - 47.17 (36)	TP30.8338x30.3731x0.625	3.00	88.67	99.9	59.8681	-265.56	1354.89	0.196
L37	47.17 - 46.92 (37)	TP30.8722x30.8338x0.3125 (1.21 CR) - 37	0.25	88.67	97.4	30.7121	-266.36	729.46	0.365
L38	46.92 - 43.42 (38)	TP31.4096x30.8722x0.3125 (1.21 CR) - 38/2	3.50	88.67	97.3	30.7507	-266.40	732.03	0.364
L39	43.42 - 43.17 (39)	TP31.448x31.4096x0.3125 (1.18 CR) - 39	0.25	88.67	95.6	31.2915	-266.98	768.21	0.348
L40	43.17 - 41.17 (40)	TP31.7551x31.448x0.3125 (1.18 CR) - 40	2.00	88.67	95.5	31.3301	-267.02	770.81	0.346
L41	41.17 - 40.92 (41)	TP31.7935x31.7551x0.5875	0.25	88.67	95.4	58.9614	-267.35	1453.21	0.184
L42	40.92 - 35.92 (42)	TP32.5613x31.7935x0.5875	5.00	88.67	95.2	59.0340	-267.41	1458.09	0.183
L43	35.92 - 31.5 (43)	TP33.24x32.5613x0.5875	4.42	88.67	93.0	60.4864	-268.72	1556.36	0.173
L44	31.5 - 30.5 (44)	TP32.7574x31.9747x0.375	5.17	88.67	92.2	38.9189	-270.56	1014.57	0.267
L45	30.5 - 25.5 (45)	TP33.5144x32.7574x0.375	5.00	88.67	91.8	39.1017	-270.75	1027.05	0.264
L46	25.5 - 20.5 (46)	TP34.2714x33.5144x0.375	5.00	88.67	89.7	40.0158	-271.83	1089.77	0.249
L47	20.5 - 15.5 (47)	TP35.0284x34.2714x0.375	5.00	88.67	87.7	40.9299	-272.72	1152.94	0.237
L48	15.5 - 10.5 (48)	TP35.7853x35.0284x0.375	5.00	88.67	85.8	41.8439	-273.93	1216.51	0.225
L49	10.5 - 5.5 (49)	TP36.5423x35.7853x0.375	5.00	88.67	83.9	42.7580	-274.95	1280.40	0.215
L50	5.5 - 0.5 (50)	TP37.2993x36.5423x0.375	5.00	88.67	82.2	43.6720	-276.00	1344.55	0.205
L51	0.5 - 0 (51)	TP37.375x37.2993x0.375	0.50	88.67	80.5	44.5861	-277.00	1408.92	0.197

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	150 - 145 (1)	TP15.78x15x0.1875	35.18	218.67	0.161	0.00	218.67	0.000
L2	145 - 140 (2)	TP16.56x15.78x0.1875	69.38	237.63	0.292	0.00	237.63	0.000
L3	140 - 135 (3)	TP17.34x16.56x0.1875	120.67	257.00	0.470	0.00	257.00	0.000
L4	135 - 130 (4)	TP18.12x17.34x0.1875	185.58	276.72	0.671	0.00	276.72	0.000
L5	130 - 125 (5)	TP18.9x18.12x0.1875	262.95	296.74	0.886	0.00	296.74	0.000
L6	125 - 123.75 (6)	TP19.095x18.9x0.1875	282.45	301.79	0.936	0.00	301.79	0.000
L7	123.75 - 123.5 (7)	TP19.134x19.095x0.4563	286.69	757.23	0.379	0.00	757.23	0.000
L8	123.5 - 118.5 (8)	TP19.914x19.134x0.4375	365.43	791.06	0.462	0.00	791.06	0.000
L9	118.5 - 113.5 (9)	TP20.694x19.914x0.4313	446.04	844.96	0.528	0.00	844.96	0.000
L10	113.5 - 112.75 (10)	TP20.811x20.694x0.425	458.31	843.23	0.544	0.00	843.23	0.000
L11	112.75 - 112.5 (11)	TP20.85x20.811x1.0625	463.01	1924.21	0.241	0.00	1924.21	0.000
L12	112.5 - 110 (12)	TP21.24x20.85x1.0375	503.66	1962.93	0.257	0.00	1962.93	0.000
L13	110 - 107.25 (13)	TP21.6964x21.24x1.075	549.75	2117.54	0.260	0.00	2117.54	0.000
L14	107.25 - 107 (14)	TP21.7379x21.6964x0.55	554.26	1172.92	0.473	0.00	1172.92	0.000
L15	107 - 102 (15)	TP22.5677x21.7379x0.5375	639.69	1241.09	0.515	0.00	1241.09	0.000
L16	102 - 97 (16)	TP23.3975x22.5677x0.525	727.40	1308.55	0.556	0.00	1308.55	0.000
L17	97 - 95 (17)	TP23.7295x23.3975x0.5188	762.95	1332.27	0.573	0.00	1332.27	0.000
L18	95 - 94.75 (18)	TP23.7709x23.7295x0.65	767.74	1647.17	0.466	0.00	1647.17	0.000
L19	94.75 - 89.75 (19)	TP24.6008x23.7709x0.625	857.62	1706.50	0.503	0.00	1706.50	0.000
L20	89.75 - 88.67 (20)	TP24.78x24.6008x0.625	877.33	1732.43	0.506	0.00	1732.43	0.000
L21	88.67 - 87.75 (21)	TP24.9323x24.78x0.625	815.22	1732.43	0.471	0.00	1732.43	0.000
L22	87.75 - 87.5 (22)	TP24.9736x24.9323x0.5875	823.67	1656.99	0.497	0.00	1656.99	0.000
L23	87.5 - 85.5 (23)	TP25.3047x24.9736x0.575	826.27	1629.83	0.507	0.00	1629.83	0.000
L24	85.5 - 85.25 (24)	TP25.346x25.3047x0.775	844.22	2203.09	0.383	0.00	2203.09	0.000
L25	85.25 - 83 (25)	TP25.7184x25.346x0.7625	846.78	2178.31	0.389	0.00	2178.31	0.000
L26	83 - 82.75 (26)	TP25.7598x25.7184x0.825	866.24	2411.68	0.359	0.00	2411.68	0.000
L27	82.75 - 82.5 (27)	TP25.8012x25.7598x0.65	868.49	1946.97	0.446	0.00	1946.97	0.000
L28	82.5 - 77.5 (28)	TP26.6287x25.8012x0.6375	870.92	1918.76	0.454	0.00	1918.76	0.000
L29	77.5 - 70 (29)	TP27.87x26.6287x0.625	912.15	2011.38	0.453	0.00	2011.38	0.000
L30	70 - 69 (30)	TP27.4817x26.7907x0.6625	968.17	2240.22	0.432	0.00	2240.22	0.000
L31	69 - 64 (31)	TP28.2495x27.4817x0.6625	975.43	2266.41	0.430	0.00	2266.41	0.000
L32	64 - 59 (32)	TP29.0173x28.2495x0.65	1014.64	2357.57	0.430	0.00	2357.57	0.000
L33	59 - 55.42 (33)	TP29.567x29.0173x0.6375	1050.48	2447.42	0.429	0.00	2447.42	0.000
L34	55.42 - 55.17 (34)	TP29.6054x29.567x0.6375	1074.08	2544.21	0.422	0.00	2544.21	0.000
L35	55.17 - 50.17 (35)	TP30.3731x29.6054x0.625	1075.83	2504.26	0.430	0.00	2504.26	0.000
L36	50.17 - 47.17 (36)	TP30.8338x30.3731x0.625	1106.27	2640.14	0.419	0.00	2640.14	0.000
L37	47.17 - 46.92 (37)	TP30.8722x30.8338x0.3125	1123.08	1326.13	0.847	0.00	1326.13	0.000
L38	46.92 - 43.42	TP31.4096x30.8722x0.3125	1124.51	1328.88	0.846	0.00	1328.88	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L39	43.42 - 43.17 (39)	TP31.448x31.4096x0.3125	1141.39	1367.32	0.835	0.00	1367.32	0.000
L40	43.17 - 41.17 (40)	TP31.7551x31.448x0.3125	1142.51	1370.07	0.834	0.00	1370.07	0.000
L41	41.17 - 40.92 (41)	TP31.7935x31.7551x0.5875	1150.31	2730.00	0.421	0.00	2730.00	0.000
L42	40.92 - 35.92 (42)	TP32.5613x31.7935x0.5875	1151.28	2736.79	0.421	0.00	2736.79	0.000
L43	35.92 - 31.5 (43)	TP33.24x32.5613x0.5875	1167.92	2874.39	0.406	0.00	2874.39	0.000
L44	31.5 - 30.5 (44)	TP32.7574x31.9747x0.375	1181.24	1850.68	0.638	0.00	1850.68	0.000
L45	30.5 - 25.5 (45)	TP33.5144x32.7574x0.375	1184.08	1865.48	0.635	0.00	1865.48	0.000
L46	25.5 - 20.5 (46)	TP34.2714x33.5144x0.375	1195.06	1939.93	0.616	0.00	1939.93	0.000
L47	20.5 - 15.5 (47)	TP35.0284x34.2714x0.375	1201.00	2015.12	0.596	0.00	2015.12	0.000
L48	15.5 - 10.5 (48)	TP35.7853x35.0284x0.375	1202.58	2090.98	0.575	0.00	2090.98	0.000
L49	10.5 - 5.5 (49)	TP36.5423x35.7853x0.375	1200.12	2167.50	0.554	0.00	2167.50	0.000
L50	5.5 - 0.5 (50)	TP37.2993x36.5423x0.375	1193.84	2244.61	0.532	0.00	2244.61	0.000
L51	0.5 - 0 (51)	TP37.375x37.2993x0.375	1184.14	2322.28	0.510	0.00	2322.28	0.000

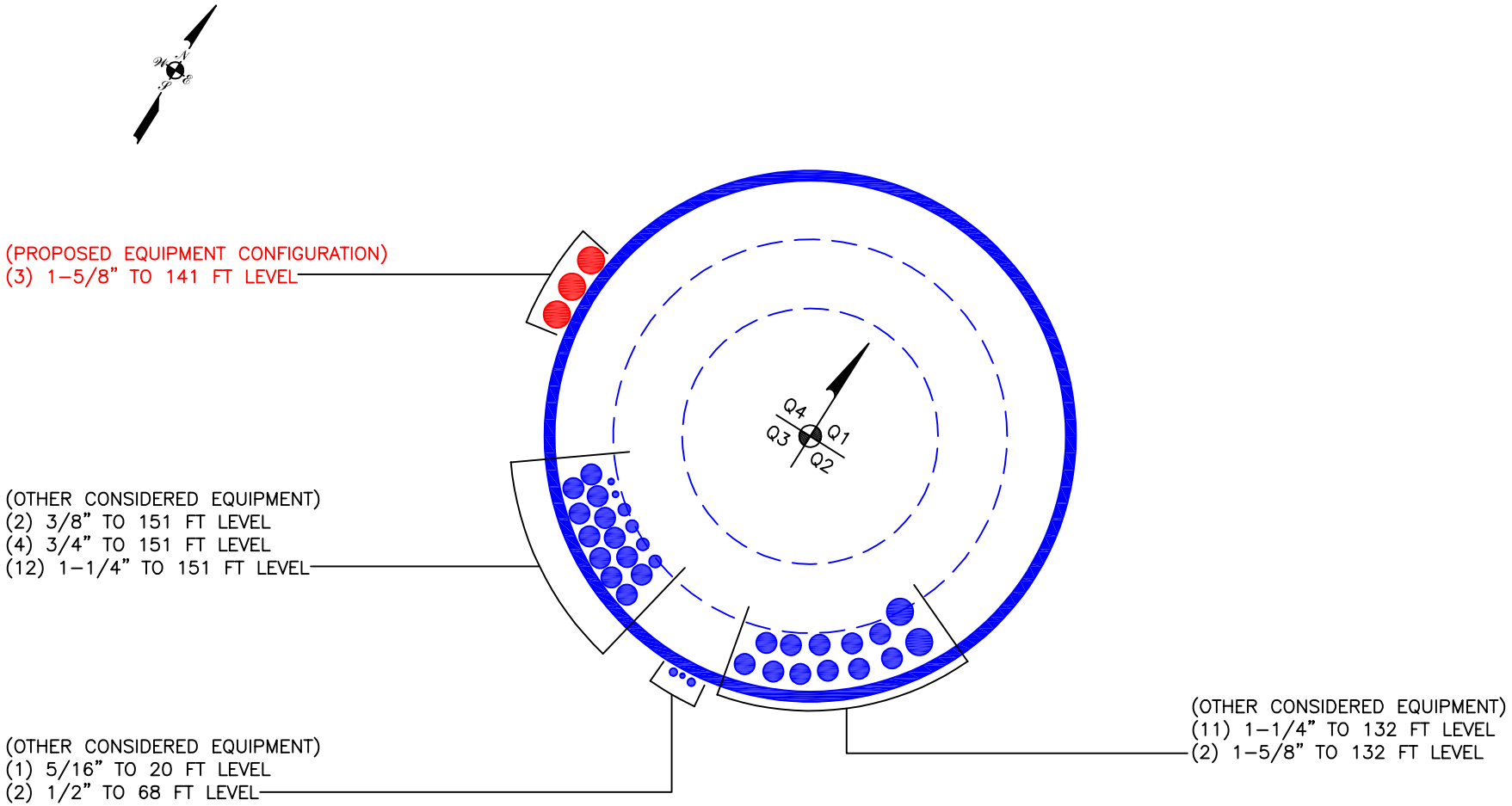
Pole Shear Design Data

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	150 - 145 (1)	TP15.78x15x0.1875	6.26	165.22	0.038	0.24	226.60	0.001
L2	145 - 140 (2)	TP16.56x15.78x0.1875	10.21	173.48	0.059	0.23	249.84	0.001
L3	140 - 135 (3)	TP17.34x16.56x0.1875	10.50	181.75	0.058	0.23	274.21	0.001
L4	135 - 130 (4)	TP18.12x17.34x0.1875	15.48	190.01	0.081	0.60	299.72	0.002
L5	130 - 125 (5)	TP18.9x18.12x0.1875	15.69	198.27	0.079	0.60	326.36	0.002
L6	125 - 123.75 (6)	TP19.095x18.9x0.1875	15.71	200.34	0.078	0.60	333.20	0.002
L7	123.75 - 123.5 (7)	TP19.134x19.095x0.4563	18.64	481.57	0.039	0.60	791.20	0.001
L8	123.5 - 118.5 (8)	TP19.914x19.134x0.4375	16.15	481.53	0.034	0.60	824.96	0.001
L9	118.5 - 113.5 (9)	TP20.694x19.914x0.4313	16.47	493.81	0.033	0.60	880.15	0.001
L10	113.5 - 112.75 (10)	TP20.811x20.694x0.425	16.65	489.61	0.034	0.60	877.98	0.001
L11	112.75 - 112.5 (11)	TP20.85x20.811x1.0625	22.40	1188.10	0.019	0.61	2067.97	0.000
L12	112.5 - 110 (12)	TP21.24x20.85x1.0375	16.86	1184.48	0.014	0.61	2104.90	0.000
L13	110 - 107.25 (13)	TP21.6964x21.24x1.075	17.12	1252.74	0.014	0.61	2272.36	0.000
L14	107.25 - 107 (14)	TP21.7379x21.6964x0.55	20.39	658.54	0.031	0.61	1227.36	0.000
L15	107 - 102 (15)	TP22.5677x21.7379x0.5375	17.59	669.16	0.026	0.61	1296.72	0.000
L16	102 - 97 (16)	TP23.3975x22.5677x0.525	17.91	678.59	0.026	0.61	1365.28	0.000
L17	97 - 95 (17)	TP23.7295x23.3975x0.5188	18.04	680.42	0.027	0.61	1389.21	0.000
L18	95 - 94.75 (18)	TP23.7709x23.7295x0.65	21.24	849.28	0.025	0.61	1727.26	0.000
L19	94.75 - 89.75 (19)	TP24.6008x23.7709x0.625	18.43	846.81	0.022	0.61	1785.90	0.000
L20	89.75 - 88.67 (20)	TP24.78x24.6008x0.625	18.48	853.14	0.022	0.61	1812.70	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L21	88.67 - 87.75 (21)	TP24.9323x24.78x0.625	10.65	858.52	0.012	3.62	1812.70	0.002
L22	87.75 - 87.5 (22)	TP24.9736x24.9323x0.5875	13.40	809.62	0.017	3.62	1730.82	0.002
L23	87.5 - 85.5 (23)	TP25.3047x24.9736x0.575	10.38	798.18	0.013	3.62	1701.50	0.002
L24	85.5 - 85.25 (24)	TP25.346x25.3047x0.775	13.69	1076.11	0.013	3.62	2318.03	0.002
L25	85.25 - 83 (25)	TP25.7184x25.346x0.7625	10.00	1067.32	0.009	3.62	2290.67	0.002
L26	83 - 82.75 (26)	TP25.7598x25.7184x0.825	13.51	1162.50	0.012	3.62	2541.30	0.001
L27	82.75 - 82.5 (27)	TP25.8012x25.7598x0.65	12.74	923.86	0.014	3.62	2037.19	0.002
L28	82.5 - 77.5 (28)	TP26.6287x25.8012x0.6375	9.68	912.50	0.011	3.62	2006.60	0.002
L29	77.5 - 70 (29)	TP27.87x26.6287x0.625	8.93	924.28	0.010	3.62	2100.79	0.002
L30	70 - 69 (30)	TP27.4817x26.7907x0.6625	8.34	1004.07	0.008	3.62	2341.66	0.002
L31	69 - 64 (31)	TP28.2495x27.4817x0.6625	8.20	1009.82	0.008	3.62	2368.71	0.002
L32	64 - 59 (32)	TP29.0173x28.2495x0.65	8.39	1019.43	0.008	1.95	2461.21	0.001
L33	59 - 55.42 (33)	TP29.567x29.0173x0.6375	7.71	1029.00	0.007	1.95	2552.29	0.001
L34	55.42 - 55.17 (34)	TP29.6054x29.567x0.6375	8.91	1043.59	0.009	1.95	2652.12	0.001
L35	55.17 - 50.17 (35)	TP30.3731x29.6054x0.625	7.28	1028.99	0.007	1.95	2609.28	0.001
L36	50.17 - 47.17 (36)	TP30.8338x30.3731x0.625	6.69	1056.11	0.006	1.95	2749.37	0.001
L37	47.17 - 46.92 (37)	TP30.8722x30.8338x0.3125	6.99	539.67	0.013	1.95	1447.07	0.001
L38	46.92 - 43.42 (38)	TP31.4096x30.8722x0.3125	6.13	542.84	0.011	1.95	1450.71	0.001
L39	43.42 - 43.17 (39)	TP31.448x31.4096x0.3125	5.78	549.84	0.011	1.95	1502.18	0.001
L40	43.17 - 41.17 (40)	TP31.7551x31.448x0.3125	5.16	552.55	0.009	1.95	1505.90	0.001
L41	41.17 - 40.92 (41)	TP31.7935x31.7551x0.5875	5.39	1036.05	0.005	1.95	2836.93	0.001
L42	40.92 - 35.92 (42)	TP32.5613x31.7935x0.5875	4.73	1041.14	0.005	1.95	2843.93	0.001
L43	35.92 - 31.5 (43)	TP33.24x32.5613x0.5875	4.74	1062.81	0.004	1.95	2985.58	0.001
L44	31.5 - 30.5 (44)	TP32.7574x31.9747x0.375	4.08	686.24	0.006	1.95	1936.47	0.001
L45	30.5 - 25.5 (45)	TP33.5144x32.7574x0.375	3.91	689.44	0.006	1.95	1954.71	0.001
L46	25.5 - 20.5 (46)	TP34.2714x33.5144x0.375	3.22	702.28	0.005	1.94	2047.17	0.001
L47	20.5 - 15.5 (47)	TP35.0284x34.2714x0.375	2.86	718.32	0.004	1.94	2141.76	0.001
L48	15.5 - 10.5 (48)	TP35.7853x35.0284x0.375	2.68	734.36	0.004	1.67	2238.48	0.001
L49	10.5 - 5.5 (49)	TP36.5423x35.7853x0.375	2.79	750.40	0.004	1.67	2337.35	0.001
L50	5.5 - 0.5 (50)	TP37.2993x36.5423x0.375	3.07	766.44	0.004	1.67	2438.35	0.001
L51	0.5 - 0 (51)	TP37.375x37.2993x0.375	3.38	782.49	0.004	1.67	2541.49	0.001

APPENDIX B

BASE LEVEL DRAWING


(PROPOSED EQUIPMENT CONFIGURATION)
(3) 1–5/8" TO 141 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(2) 3/8" TO 151 FT LEVEL
(4) 3/4" TO 151 FT LEVEL
(12) 1–1/4" TO 151 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 5/16" TO 20 FT LEVEL
(2) 1/2" TO 68 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(11) 1–1/4" TO 132 FT LEVEL
(2) 1–5/8" TO 132 FT LEVEL
Q1
Q2
Q3
Q4

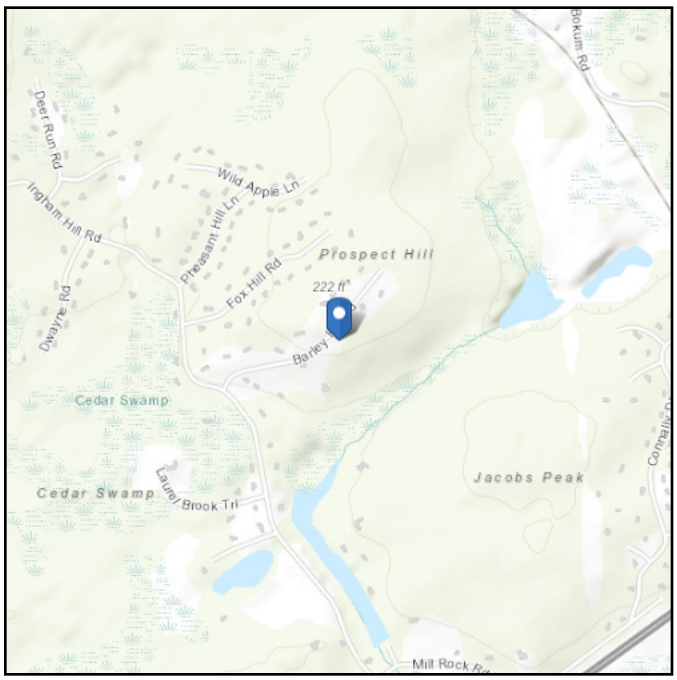
APPENDIX C

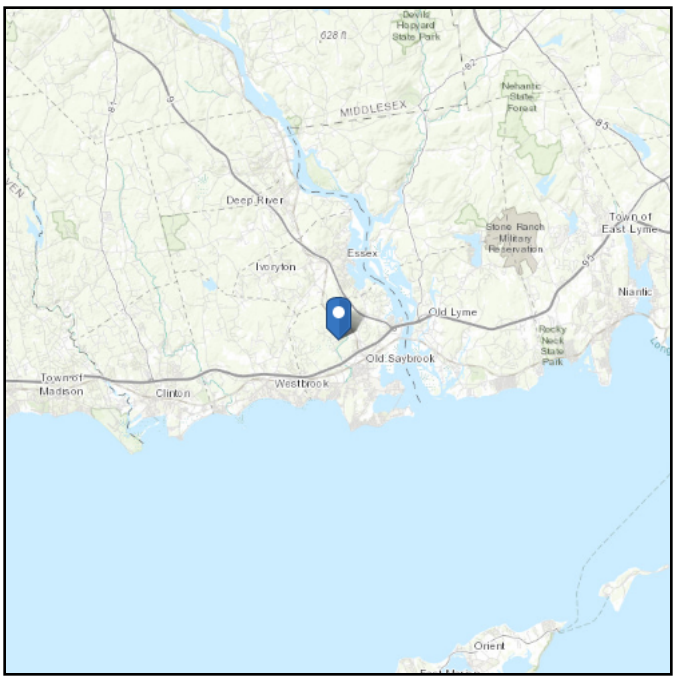
ADDITIONAL CALCULATIONS

ASCE Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.309875
Risk Category:	II	**Longitude:**	-72.397536
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	159.09754894282744 ft (NAVD 88)





Wind

Results:

Wind Speed	125 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	96 Vmph
100-year MRI	102 Vmph

Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed:	Thu Mar 14 2024

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

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

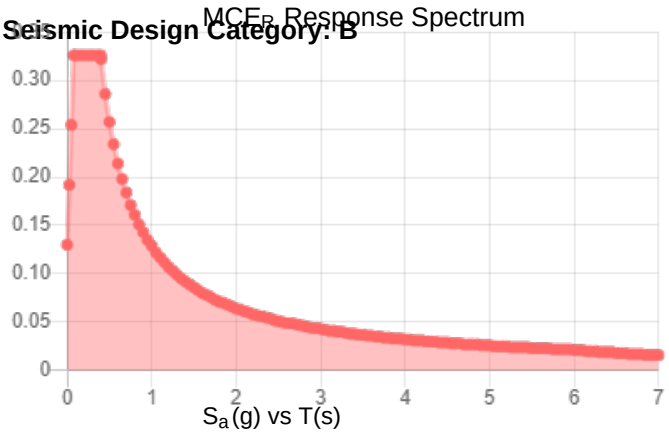
Seismic

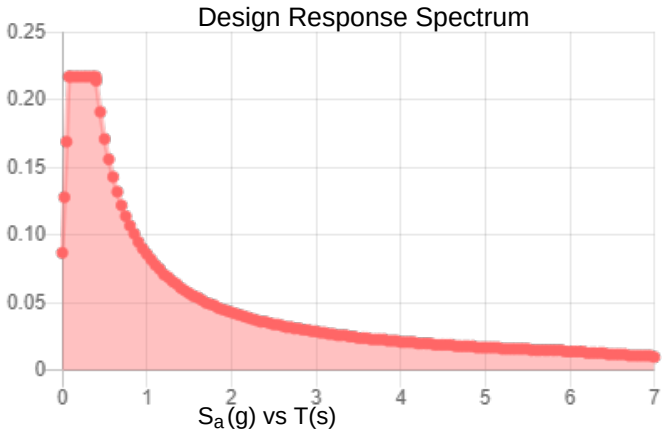
Site Soil Class: D - Default (see Section 11.4.3)

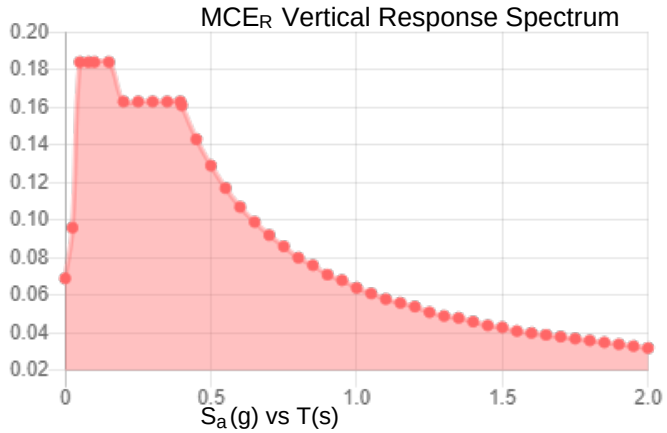
Results:

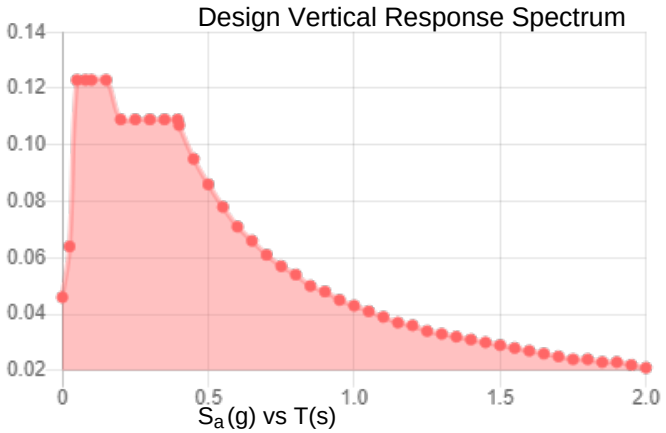
S_S :	0.204	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.114
F_v :	2.4	PGA_M :	0.179
S_{MS} :	0.326	F_{PGA} :	1.573
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.217	C_v :	0.707

Seismic Design Category: B









Data Accessed: **Thu Mar 14 2024**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Mar 14 2024

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

CCIpole

per TIA-222- H

Site BU: 841289

Work Order: 2288308

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	150	40	0	12	15	21.24	0.1875	Auto	A572-65
2	110	21.33	0	12	21.24	24.78	0.25	Auto	A572-65
3	88.67	18.67	3.5	12	24.78	27.87	0.25	Auto	A572-65
4	73.5	42	4.17	12	26.79	33.24	0.3125	Auto	A572-65
5	35.67	35.67	0	12	31.97	37.375	0.375	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12
1	73	95	plate	PL 4 X 1	2			x				x					
2	47.17	83	plate	CCI-SFP-060100	1										x		
3	47.17	87.75	plate	CCI-SFP-060100	2		x				x						
4	82.75	107.25	plate	PL 6.5 X 1.25	1											x	
5	87.75	107.25	plate	CCI-SFP-065125	2		x				x						
6	107.25	112.75	plate	FJ 6.5 X 1.25	3	0.75				0.75				0			
7	112.75	123.75	plate	CCI-AFP-045100	3		x				x				x		
8	32.67	41.17	plate	CCI-CFP-065125	3		x				x				x		
9	43.42	55.42	plate	CCI-SFP-045100	2				x				x				
10	55.42	85.5	plate	CCI-SFP-045100	2				x				x				
11																	

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	4	1	4	0.5	Welded	n/a	PC 8.8 - M20 (100)	21.000	18.000	2.750	1.1875	A572-65
2	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
3	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
4	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
5	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
6	6.5	1.25	8.125	4.625	PC 8.8 - M20 (100)	75	PC 8.8 - M20 (100)	75.000	16.000	6.563	1.1875	A572-65
7	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	20.000	3.250	1.1875	A572-65
8	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
9	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
10	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
PL 4 X 1	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	0	-	-	0	30	0.313	-
PL 6.5 X 1.25	Top	11	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	11	N	3	3	-	-	-	-	-	-	-	-	-
CCI-CFP-065125	Top	11	N	3	3	-	0	-	-	-	-	-	-	-
	Bottom	11	N	3	3	-	-	-	-	-	-	-	-	-
FJ 6.5 X 1.25	Top	22	N	3.42857	3	-	-	-	-	-	-	-	-	-
	Bottom	22	N	3.42857	3	-	-	-	-	-	-	-	-	-

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	150 - 145	5		12	15.000	15.780	0.1875	A572-65	1.000
2	145 - 140	5		12	15.780	16.560	0.1875	A572-65	1.000
3	140 - 135	5		12	16.560	17.340	0.1875	A572-65	1.000
4	135 - 130	5		12	17.340	18.120	0.1875	A572-65	1.000
5	130 - 125	5		12	18.120	18.900	0.1875	A572-65	1.000
6	125 - 123.75	1.25		12	18.900	19.095	0.1875	A572-65	1.000
7	123.75 - 123.5	0.25		12	19.095	19.134	0.45625	A572-65	0.910
8	123.5 - 118.5	5		12	19.134	19.914	0.4375	A572-65	0.927
9	118.5 - 113.5	5		12	19.914	20.694	0.43125	A572-65	0.920
10	113.5 - 112.75	0.75		12	20.694	20.811	0.425	A572-65	0.931
11	112.75 - 112.5	0.25		12	20.811	20.850	1.0625	A572-65	0.545
12	112.5 - 110	2.5	0	12	20.850	21.240	1.0375	A572-65	0.550
13	110 - 107.25	2.75		12	21.240	21.696	1.075	A572-65	0.584
14	107.25 - 107	0.25		12	21.696	21.738	0.55	A572-65	1.112
15	107 - 102	5		12	21.738	22.568	0.5375	A572-65	1.111
16	102 - 97	5		12	22.568	23.398	0.525	A572-65	1.113
17	97 - 95	2		12	23.398	23.729	0.51875	A572-65	1.117
18	95 - 94.75	0.25		12	23.729	23.771	0.65	A572-65	1.061
19	94.75 - 89.75	5		12	23.771	24.601	0.625	A572-65	1.078
20	89.75 - 88.67	1.08	0	12	24.601	24.780	0.625	A572-65	1.073
21	88.67 - 87.75	0.92		12	24.780	24.932	0.625	A572-65	1.069
22	87.75 - 87.5	0.25		12	24.932	24.974	0.5875	A572-65	1.042
23	87.5 - 85.5	2		12	24.974	25.305	0.575	A572-65	1.056
24	85.5 - 85.25	0.25		12	25.305	25.346	0.775	A572-65	0.936
25	85.25 - 83	2.25		12	25.346	25.718	0.7625	A572-65	0.941
26	83 - 82.75	0.25		12	25.718	25.760	0.825	A572-65	0.962
27	82.75 - 82.5	0.25		12	25.760	25.801	0.65	A572-65	1.057
28	82.5 - 77.5	5		12	25.801	26.629	0.6375	A572-65	1.055
29	77.5 - 73.5	7.5	3.5	12	26.629	27.870	0.625	A572-65	1.059
30	73.5 - 69	4.5		12	26.791	27.482	0.6625	A572-65	0.950
31	69 - 64	5		12	27.482	28.249	0.6625	A572-65	0.937
32	64 - 59	5		12	28.249	29.017	0.65	A572-65	0.942
33	59 - 55.42	3.58		12	29.017	29.567	0.6375	A572-65	0.951
34	55.42 - 55.17	0.25		12	29.567	29.605	0.6375	A572-65	0.950
35	55.17 - 50.17	5		12	29.605	30.373	0.625	A572-65	0.957
36	50.17 - 47.17	3		12	30.373	30.834	0.625	A572-65	0.950
37	47.17 - 46.92	0.25		12	30.834	30.872	0.3125	A572-65	1.000
38	46.92 - 43.42	3.5		12	30.872	31.410	0.3125	A572-65	1.000
39	43.42 - 43.17	0.25		12	31.410	31.448	0.3125	A572-65	1.000
40	43.17 - 41.17	2		12	31.448	31.755	0.3125	A572-65	1.000
41	41.17 - 40.92	0.25		12	31.755	31.794	0.5875	A572-65	0.950
42	40.92 - 35.92	5		12	31.794	32.561	0.5875	A572-65	0.940
43	35.92 - 35.67	4.42	4.17	12	32.561	33.240	0.5875	A572-65	0.940
44	35.67 - 30.5	5.17		12	31.975	32.757	0.375	A572-65	1.000
45	30.5 - 25.5	5		12	32.757	33.514	0.375	A572-65	1.000
46	25.5 - 20.5	5		12	33.514	34.271	0.375	A572-65	1.000
47	20.5 - 15.5	5		12	34.271	35.028	0.375	A572-65	1.000
48	15.5 - 10.5	5		12	35.028	35.785	0.375	A572-65	1.000
49	10.5 - 5.5	5		12	35.785	36.542	0.375	A572-65	1.000
50	5.5 - 0.5	5		12	36.542	37.299	0.375	A572-65	1.000
51	0.5 - 0	0.5		12	37.299	37.375	0.375	A572-65	1.000

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	150 - 145	4.64	35.18	6.26
2	145 - 140	8.08	69.38	10.21
3	140 - 135	8.40	120.67	10.50
4	135 - 130	12.56	185.58	15.48
5	130 - 125	13.08	262.95	15.69
6	125 - 123.75	13.22	282.45	15.71
7	123.75 - 123.5	13.28	286.70	18.64
8	123.5 - 118.5	14.00	365.43	16.15
9	118.5 - 113.5	14.75	446.04	16.47
10	113.5 - 112.75	14.87	458.30	16.65
11	112.75 - 112.5	14.93	463.02	22.40
12	112.5 - 110	15.38	503.66	16.86
13	110 - 107.25	15.94	549.75	17.12
14	107.25 - 107	15.99	554.26	20.39
15	107 - 102	17.06	639.69	17.59
16	102 - 97	18.17	727.40	17.91
17	97 - 95	18.62	762.95	18.04
18	95 - 94.75	18.70	767.74	21.24
19	94.75 - 89.75	19.97	857.63	18.43
20	89.75 - 88.67	20.25	877.34	18.48
21	88.67 - 87.75	20.25	877.34	18.48
22	87.75 - 87.5	254.87	826.70	13.40
23	87.5 - 85.5	255.33	844.73	10.19
24	85.5 - 85.25	255.40	847.30	13.69
25	85.25 - 83	256.00	866.77	9.87
26	83 - 82.75	256.08	869.29	13.51
27	82.75 - 82.5	256.14	871.36	12.74
28	82.5 - 77.5	257.45	912.31	9.08
29	77.5 - 73.5	258.50	942.70	8.50
30	73.5 - 69	260.45	975.58	8.34
31	69 - 64	261.92	1014.77	8.52
32	64 - 59	263.22	1050.59	7.88
33	59 - 55.42	264.16	1074.33	7.42
34	55.42 - 55.17	264.23	1076.09	8.91
35	55.17 - 50.17	265.55	1106.36	6.80
36	50.17 - 47.17	266.36	1123.21	6.46
37	47.17 - 46.92	266.40	1124.62	6.99
38	46.92 - 43.42	266.97	1141.47	5.50
39	43.42 - 43.17	267.01	1142.60	5.78
40	43.17 - 41.17	267.34	1150.41	4.91
41	41.17 - 40.92	267.41	1151.40	5.39
42	40.92 - 35.92	268.72	1168.02	4.35
43	35.92 - 35.67	268.79	1168.83	4.74
44	35.67 - 30.5	270.75	1184.10	4.08
45	30.5 - 25.5	271.73	1195.07	3.33
46	25.5 - 20.5	272.72	1201.01	2.85
47	20.5 - 15.5	273.62	1202.59	2.67
48	15.5 - 10.5	273.82	1202.59	2.65
49	10.5 - 5.5	274.85	1200.12	2.70
50	5.5 - 0.5	275.89	1193.84	2.94
51	0.5 - 0	276.95	1184.14	3.28

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP15.78x15x0.1875	Pole	16.2%	Pass
145 - 140	Pole	TP16.56x15.78x0.1875	Pole	29.4%	Pass
140 - 135	Pole	TP17.34x16.56x0.1875	Pole	46.2%	Pass
135 - 130	Pole	TP18.12x17.34x0.1875	Pole	66.2%	Pass
130 - 125	Pole	TP18.9x18.12x0.1875	Pole	86.6%	Pass
125 - 123.75	Pole	TP19.095x18.9x0.1875	Pole	91.4%	Pass
123.75 - 123.5	Pole + Reinf.	TP19.134x19.095x0.4563	Reinf. 7 Tension Rupture	63.4%	Pass
123.5 - 118.5	Pole + Reinf.	TP19.914x19.134x0.4375	Reinf. 7 Tension Rupture	76.2%	Pass
118.5 - 113.5	Pole + Reinf.	TP20.694x19.914x0.4313	Reinf. 7 Tension Rupture	87.9%	Pass
113.5 - 112.75	Pole + Reinf.	TP20.811x20.694x0.425	Reinf. 7 Tension Rupture	89.5%	Pass
112.75 - 112.5	Pole + Reinf.	TP20.85x20.811x1.0625	Reinf. 6 Tension Rupture	48.5%	Pass
112.5 - 110	Pole + Reinf.	TP21.24x20.85x1.0375	Reinf. 6 Tension Rupture	51.7%	Pass
110 - 107.25	Pole + Reinf.	TP21.696x21.24x1.075	Reinf. 6 Tension Rupture	51.7%	Pass
107.25 - 107	Pole + Reinf.	TP21.738x21.696x0.55	Reinf. 5 Tension Rupture	61.3%	Pass
107 - 102	Pole + Reinf.	TP22.568x21.738x0.5375	Reinf. 5 Tension Rupture	67.0%	Pass
102 - 97	Pole + Reinf.	TP23.398x22.568x0.525	Reinf. 5 Tension Rupture	72.4%	Pass
97 - 95	Pole + Reinf.	TP23.729x23.398x0.5188	Reinf. 5 Tension Rupture	74.4%	Pass
95 - 94.75	Pole + Reinf.	TP23.771x23.729x0.65	Reinf. 1 Tension Rupture	71.8%	Pass
94.75 - 89.75	Pole + Reinf.	TP24.601x23.771x0.625	Reinf. 1 Tension Rupture	76.6%	Pass
89.75 - 88.67	Pole + Reinf.	TP24.78x24.601x0.625	Reinf. 1 Tension Rupture	77.6%	Pass
88.67 - 87.75	Pole + Reinf.	TP24.932x24.78x0.625	Reinf. 1 Tension Rupture	77.0%	Pass
87.75 - 87.5	Pole + Reinf.	TP24.974x24.932x0.5875	Reinf. 1 Tension Rupture	88.8%	Pass
87.5 - 85.5	Pole + Reinf.	TP25.305x24.974x0.575	Reinf. 1 Tension Rupture	89.0%	Pass
85.5 - 85.25	Pole + Reinf.	TP25.346x25.305x0.775	Reinf. 4 Tension Rupture	69.1%	Pass
85.25 - 83	Pole + Reinf.	TP25.718x25.346x0.7625	Reinf. 4 Tension Rupture	69.3%	Pass
83 - 82.75	Pole + Reinf.	TP25.76x25.718x0.825	Reinf. 1 Tension Rupture	67.3%	Pass
82.75 - 82.5	Pole + Reinf.	TP25.801x25.76x0.65	Reinf. 2 Tension Rupture	78.4%	Pass
82.5 - 77.5	Pole + Reinf.	TP26.629x25.801x0.6375	Reinf. 2 Tension Rupture	78.3%	Pass
77.5 - 73.5	Pole + Reinf.	TP27.87x26.629x0.625	Reinf. 2 Tension Rupture	78.0%	Pass
73.5 - 69	Pole + Reinf.	TP27.482x26.791x0.6625	Reinf. 3 Tension Rupture	73.1%	Pass
69 - 64	Pole + Reinf.	TP28.249x27.482x0.6625	Reinf. 3 Tension Rupture	72.8%	Pass
64 - 59	Pole + Reinf.	TP29.017x28.249x0.65	Reinf. 3 Tension Rupture	72.3%	Pass
59 - 55.42	Pole + Reinf.	TP29.567x29.017x0.6375	Reinf. 3 Tension Rupture	71.9%	Pass
55.42 - 55.17	Pole + Reinf.	TP29.605x29.567x0.6375	Reinf. 3 Tension Rupture	71.8%	Pass
55.17 - 50.17	Pole + Reinf.	TP30.373x29.605x0.625	Reinf. 3 Tension Rupture	71.0%	Pass
50.17 - 47.17	Pole + Reinf.	TP30.834x30.373x0.625	Reinf. 3 Tension Rupture	70.4%	Pass
47.17 - 46.92	Pole	TP30.872x30.834x0.3125	Pole	94.5%	Pass
46.92 - 43.42	Pole	TP31.41x30.872x0.3125	Pole	93.2%	Pass
43.42 - 43.17	Pole	TP31.448x31.41x0.3125	Pole	93.1%	Pass
43.17 - 41.17	Pole	TP31.755x31.448x0.3125	Pole	92.3%	Pass
41.17 - 40.92	Pole + Reinf.	TP31.794x31.755x0.5875	Reinf. 8 Tension Rupture	69.1%	Pass
40.92 - 35.92	Pole + Reinf.	TP32.561x31.794x0.5875	Reinf. 8 Tension Rupture	67.6%	Pass
35.92 - 35.67	Pole + Reinf.	TP33.24x32.561x0.5875	Reinf. 8 Tension Rupture	67.6%	Pass
35.67 - 30.5	Pole	TP32.757x31.975x0.375	Pole	71.6%	Pass
30.5 - 25.5	Pole	TP33.514x32.757x0.375	Pole	69.6%	Pass
25.5 - 20.5	Pole	TP34.271x33.514x0.375	Pole	67.5%	Pass
20.5 - 15.5	Pole	TP35.028x34.271x0.375	Pole	65.3%	Pass
15.5 - 10.5	Pole	TP35.785x35.028x0.375	Pole	63.1%	Pass
10.5 - 5.5	Pole	TP36.542x35.785x0.375	Pole	61.0%	Pass
5.5 - 0.5	Pole	TP37.299x36.542x0.375	Pole	58.9%	Pass
0.5 - 0	Pole	TP37.375x37.299x0.375	Pole	58.4%	Pass
				Summary	
			Pole	94.5%	Pass
			Reinforcement	89.5%	Pass
			Overall	94.5%	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	R6	R7	R8	R9	R10
150 - 145	293	n/a	293	9.40	n/a	9.40	16.2%										
145 - 140	339	n/a	339	9.87	n/a	9.87	29.4%										
140 - 135	389	n/a	389	10.34	n/a	10.34	46.2%										
135 - 130	445	n/a	445	10.81	n/a	10.81	66.2%										
130 - 125	506	n/a	506	11.28	n/a	11.28	86.6%										
125 - 123.75	522	n/a	522	11.40	n/a	11.40	91.4%										
123.75 - 123.5	525	696	1221	11.42	13.50	24.92	38.5%							63.4%			
123.5 - 118.5	592	750	1342	11.89	13.50	25.39	46.9%							76.2%			
118.5 - 113.5	665	806	1472	12.36	13.50	25.86	55.0%							87.9%			
113.5 - 112.75	677	815	1492	12.43	13.50	25.93	56.2%							89.5%			
112.75 - 112.5	681	2728	3409	12.46	24.38	36.83	25.5%						48.5%				
112.5 - 110	720	2799	3519	12.69	24.38	37.07	27.5%						51.7%				
110 - 107.25	1015	2883	3898	17.24	24.38	41.61	25.0%						51.7%				
107.25 - 107	1038	1142	2180	17.27	24.38	41.65	49.7%				56.4%	61.3%					
107 - 102	1163	1223	2385	17.94	24.38	42.32	54.9%				61.7%	67.0%					
102 - 97	1296	1306	2602	18.61	24.38	42.98	60.0%				66.6%	72.4%					
97 - 95	1353	1340	2693	18.87	24.38	43.25	61.9%				68.5%	74.4%					
95 - 94.75	1367	1959	3326	18.91	32.38	51.28	50.5%	71.8%			66.3%	56.2%					
94.75 - 89.75	1516	2088	3604	19.57	32.38	51.95	54.5%	76.6%			70.6%	60.0%					
89.75 - 88.67	1549	2117	3666	19.72	32.38	52.09	55.3%	77.6%			71.5%	60.8%					
88.67 - 87.75	1578	2141	3719	19.84	32.38	52.22	55.0%	77.0%			70.9%	60.3%					
87.75 - 87.5	1568	1939	3507	19.87	28.13	48.00	62.3%	88.8%		73.8%	76.3%						
87.5 - 85.5	1632	1988	3620	20.14	28.13	48.27	62.7%	89.0%		74.0%	76.5%						
85.5 - 85.25	1652	3075	4727	20.17	37.13	57.30	50.1%	68.9%		61.4%	69.1%						68.6%
85.25 - 83	1727	3161	4888	20.47	37.13	57.60	50.5%	69.1%		61.5%	69.3%						68.7%
83 - 82.75	1711	3533	5244	20.51	43.13	63.63	44.2%	67.3%	53.0%	61.0%	55.6%						62.2%
82.75 - 82.5	1782	2538	4319	20.54	35.00	55.54	59.4%	70.5%	78.4%	67.4%							67.1%
82.5 - 77.5	1958	2696	4654	21.20	35.00	56.20	60.1%	70.7%	78.3%	67.5%							67.3%
77.5 - 73.5	2108	2826	4934	21.74	35.00	56.74	60.4%	70.6%	78.0%	67.3%							67.2%
73.5 - 69	2598	2717	5315	27.30	27.00	54.30	52.3%		73.1%	73.1%							72.1%
69 - 64	2824	2864	5688	28.07	27.00	55.07	52.5%		72.8%	72.8%							71.9%
64 - 59	3063	3015	6078	28.84	27.00	55.84	52.5%		72.3%	72.3%							71.6%
59 - 55.42	3242	3125	6367	29.40	27.00	56.40	52.5%		71.9%	71.9%							71.2%
55.42 - 55.17	3255	3133	6388	29.43	27.00	56.43	52.5%		71.8%	71.8%						71.1%	
55.17 - 50.17	3517	3291	6808	30.21	27.00	57.21	52.3%		71.0%	71.0%						70.4%	
50.17 - 47.17	3680	3388	7068	30.67	27.00	57.67	52.2%		70.4%	70.4%						69.9%	
47.17 - 46.92	3671	n/a	3671	30.71	n/a	30.71	94.5%										
46.92 - 43.42	3868	n/a	3868	31.25	n/a	31.25	93.2%										
43.42 - 43.17	3882	n/a	3882	31.29	n/a	31.29	93.1%										
43.17 - 41.17	3998	n/a	3998	31.59	n/a	31.59	92.3%										
41.17 - 40.92	4013	3371	7384	31.63	24.38	56.01	49.5%								69.1%		
40.92 - 35.92	4313	3528	7841	32.40	24.38	56.78	48.9%								67.6%		
35.92 - 35.67	4329	3536	7864	32.44	24.38	56.82	48.9%								67.6%		
35.67 - 30.5	5241	n/a	5241	39.05	n/a	39.05	71.6%										
30.5 - 25.5	5617	n/a	5617	39.96	n/a	39.96	69.6%										
25.5 - 20.5	6011	n/a	6011	40.87	n/a	40.87	67.5%										
20.5 - 15.5	6422	n/a	6422	41.78	n/a	41.78	65.3%										
15.5 - 10.5	6853	n/a	6853	42.70	n/a	42.70	63.1%										
10.5 - 5.5	7301	n/a	7301	43.61	n/a	43.61	61.0%										
5.5 - 0.5	7770	n/a	7770	44.52	n/a	44.52	58.9%										
0.5 - 0	7817	n/a	7817	44.61	n/a	44.61	58.4%										

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

Monopole Flange Plate Connection

Elevation = 110 ft.

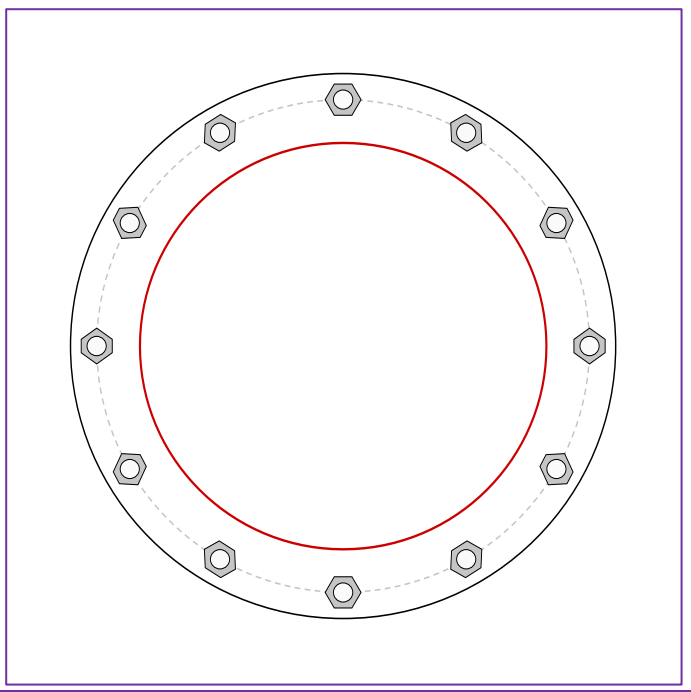
BU #	841289
Site Name	Old Saybrook
Order #	658837 Rev. 0

TIA-222 Revision	H

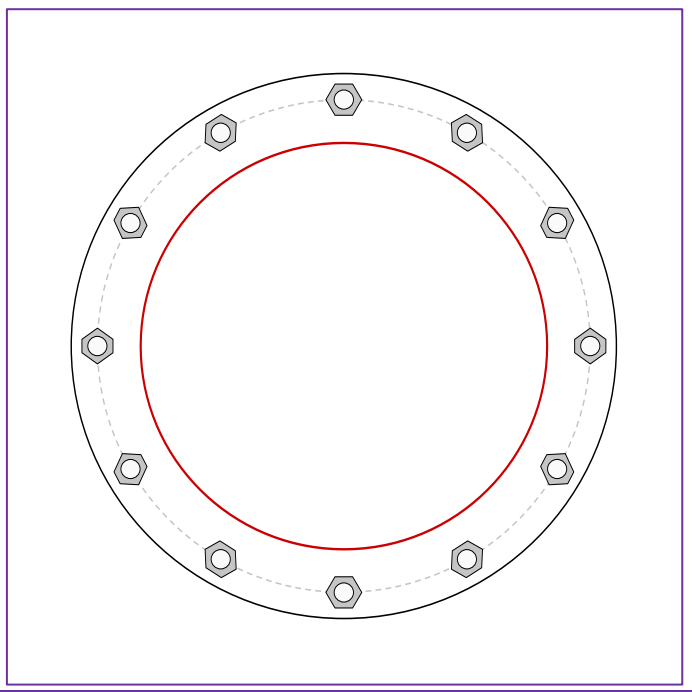
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	98.64	Moment (kip-ft)	405.02
Axial Force (kips)	15.38	Axial Force (kips)	0.00
Shear Force (kips)	16.86	Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(12) 1" ø bolts (A354-BC N; Fy=109 ksi, Fu=125 ksi) on 25.75" BC

Top Plate Data

28.5" OD x 1" Plate (A572-65; Fy=65 ksi, Fu=80 ksi)

Bottom Plate Data

28.5" OD x 1" Plate (A572-65; Fy=65 ksi, Fu=80 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

21.24" x 0.1875" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Bottom Pole Data

21.24" x 0.25" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Bridge Stiffener Group 1 Data

(3) Bolted, 6.5''x1.25'', A572-65, Lu=16", Neglect Flange in MOI:

Analysis Results

Bolt Capacity

Max Load (kips)	14.03	
Allowable (kips)	56.77	
Stress Rating:	**23.5%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	16.04	(Flexural)
Allowable Stress (ksi):	58.50	
Stress Rating:	**26.1%**	**Pass**
Tension Side Stress Rating:	**12.9%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	16.04	(Flexural)
Allowable Stress (ksi):	58.50	
Stress Rating:	**26.1%**	**Pass**
Tension Side Stress Rating:	**12.9%**	**Pass**

Bridge Stiffener Group 1 Analysis Capacity

Max Compression (kip):	227.38	
Max Tension (kip):	227.38	
Comp. Capacity (kip):	394.29	
Tens. Capacity (kip):	393.75	(Rupture)
Comp. Stress Rating:	**54.9%**	**Pass**
Tens. Stress Rating:	**55.0%**	**Pass**

TOWER ENGINEERING PROFESSIONALS

Old Saybrook (BU 841289)

Capacity*: 88.6% PASS

TEP #: 55790.939817

*Rating Per TIA-222-H Section 15.5

Analysis: PPS 03/17/24

Monopole Guy Lug Analysis_v1.0

Check: CS 03/17/24

Guy Loads

Guy Force:	170	k
Guy Height:	88.67	ft
Anchor Radius:	20.5	ft
Load Angle (From Tower):	13.0	degrees
Tensile Load:	170.00	
Vertical Force:	165.63	k
Horizontal Force:	38.29	k

Bolt Bearing on Lug (Shackle)

Plate Grade:	ASTM A572-55	
Plate F_u:	70	ksi
Plate Thickness:	1.5	in
Hole Diameter:	3.5625	in
Clear Distance:	3.1305	in
Clear Edge Distance:	1.3493	in
Shackle Diameter:	3.5	in
ϕR_n:	224.20	ksi
Capacity:	72.2%	PASS

Net Tension on Lug

Lug Radius:	3.1305	in
Net Area:	4.04775	in^2
ϕT_n:	212.51	k
Capacity:	76.2%	PASS

Guy Lug Weld

Weld Strength:	70	ksi
Weld Length:	15	in
Weld Thickness:	4	1/16 in
Weld Type:	All-Around	
e_x:	2	in
C:	4.06	(AISC Table 8-6)
C_1:	1	
a:	0.13	
k:	0.1	
ϕR_n:	182.70	k
Capacity:	88.6%	PASS

Guy Lug Connection

Connection Type:	Bolted	
Bolt Type:	AJAX	
Bolt Spacing:	3	in
Bolt Quantity:	10	(5 per row)

Shaft Bolt Shear and Tension

Shaft Grade:	ASTM A572-65	
Shaft Thickness:	0.25	in
e_x:	3.25	in
Bolt Hole Diameter:	1.1875	in
Sleeve Diameter:	1.137792	in
ϕRnv:	36.00	k/bolt (Bolt Shear)
Capacity:	43.8%	PASS
ϕRnt:	32.8725	k/bolt (Bolt Tension)
Capacity:	54.4%	PASS
Interaction Capacity:	53.8%	PASS

Bolt Bearing:

ϕ:	0.8	
ϕR_n:	204.74	k/row (Bolt Bearing)
Capacity:	38.5%	PASS

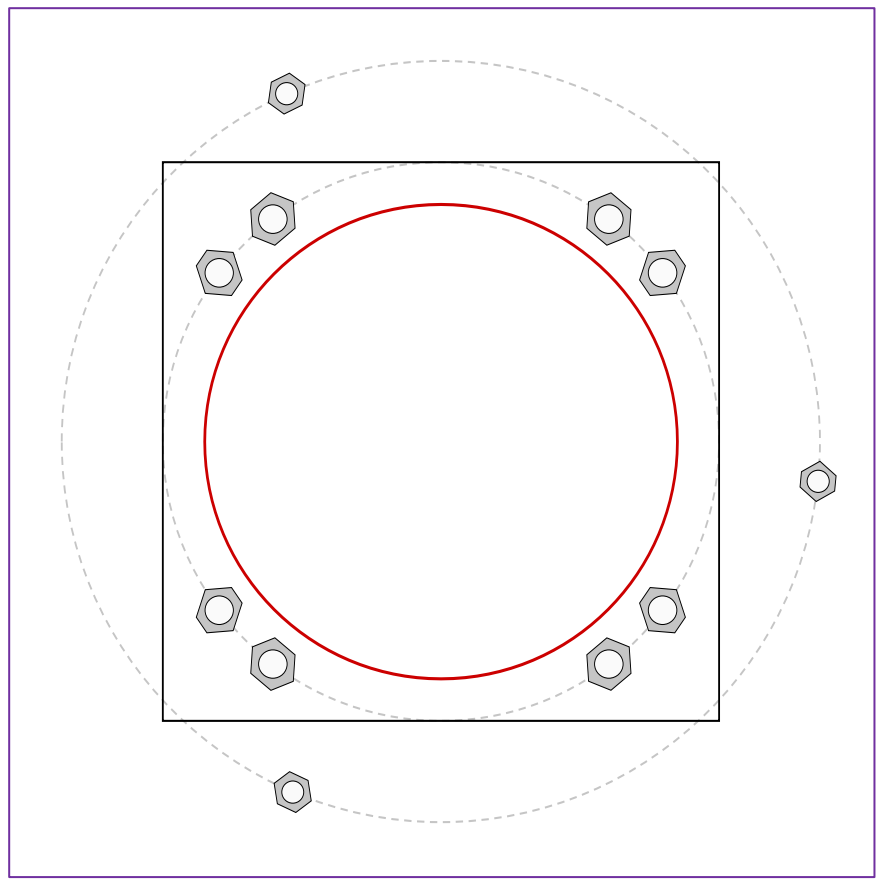
Monopole Base Plate Connection

Site Info	
BU #	841289
Site Name	Old Saybrook
Order #	658837 Rev. 0

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

Applied Loads	
Moment (kip-ft)	1184.14
Axial Force (kips)	276.95
Shear Force (kips)	3.28

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (8) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 44" BC
Anchor Spacing: 6 in
GROUP 2: (3) 1-3/4" ø bolts (F1554-105 N; Fy=105 ksi, Fu=125 ksi) on 60" BC
pos. (deg): 114, 247, 354

Base Plate Data

44" W x 2.5" Plate (A572-60; Fy=60 ksi, Fu=75 ksi); Clip: 0 in

Stiffener Data

N/A

Pole Data

37.375" x 0.375" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:

Pu_c = 154.11	ϕPn_c = 268.39	**Stress Rating**
Vu = 0.41	ϕVn = 120.77	**54.7%**
Mu = n/a	ϕMn = n/a	**Pass**

GROUP 2:

Pu_t = 93.33	ϕPn_t = 178.13	**Stress Rating**
Vu = 0	ϕVn = 112.75	**49.9%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	24.22	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**42.7%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

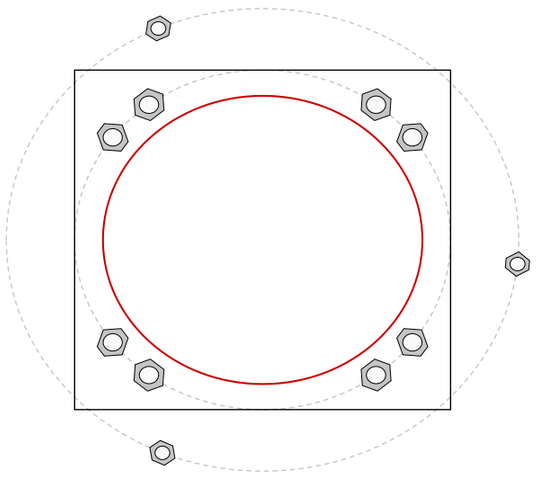
note: Bending interaction not considered when Grout Considered = "Yes"

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

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	l_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	37.16252	2.25	A615-75	44	0.5	2	N-Included		No
2	1	52.83748	2.25	A615-75	44	0.5	2	N-Included		No
3	1	127.16252	2.25	A615-75	44	0.5	2	N-Included		No
4	1	142.83748	2.25	A615-75	44	0.5	2	N-Included		No
5	1	217.16252	2.25	A615-75	44	0.5	2	N-Included		No
6	1	232.83748	2.25	A615-75	44	0.5	2	N-Included		No
7	1	307.16252	2.25	A615-75	44	0.5	2	N-Included		No
8	1	322.83748	2.25	A615-75	44	0.5	2	N-Included		No
9	2	114	1.75	F1554-105	60	0.5	1.25	N-Included		No
10	2	247	1.75	F1554-105	60	0.5	1.25	N-Included		No
11	2	354	1.75	F1554-105	60	0.5	1.25	N-Included		No

Plot Graphic



Pier and Pad Foundation

BU # :	841289
Site Name:	Old Saybrook
App. Number:	658837 Rev. 0

TIA-222 Revision:	H
Tower Type:	Guyed

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

Superstructure Analysis Reactions

Compression, P_{comp}:	277.06	kips
Base Shear, Vu_comp:	3.38	kips
Moment, M_u:	1182.99	ft-kips
Tower Height, **H**:	150	ft
BP Dist. Above Fdn, bp_{dist}:	4.5	in
Bolt Circle / Bearing Plate Width, **BC**:		in

Pier Properties

Pier Shape:	Square	
Pier Diameter, **dpier**:	8	ft
Ext. Above Grade, **E**:	0.3	ft
Pier Rebar Size, **Sc**:	11	
Pier Rebar Quantity, **mc**:	44	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	7	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	8.7	ft
Pad Width, W_1:	12	ft
Pad Thickness, **T**:	2.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	7	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	13	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties

Total Soil Unit Weight, γ:	135	pcf
Ultimate Gross Bearing, Qult:	30.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	42	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.4	
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	2.7	ft

<--Toggle between Gross and Net

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	177.99	3.38	**1.8%**	**Pass**
Bearing Pressure (ksf)	18.00	8.28	**43.8%**	**Pass**
*Overturning (kip*ft)*	1907.10	1214.68	**63.7%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	12420.24	1204.96	**9.2%**	**Pass**
Pier Compression (kip)	22913.28	335.17	**1.4%**	**Pass**
*Pad Flexure (kip*ft)*	879.26	143.98	**15.6%**	**Pass**
Pad Shear - 1-way (kips)	303.90	0.00	**0.0%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.000	**0.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	1758.53	722.98	**39.2%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**39.2%**
Soil Rating*:	**63.7%**

Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

BU#:	841289
Site Name:	Old Saybrook
Order Number:	658837 Rev. 0
Location:	Inner

TIA-222 Revision:	H

Design Reactions		
Shear, **S**:	39.00	kips
Uplift, **Ua**:	165.00	kips
Resultant Force, **Rf**:	169.55	kips
Tower Height, **H**:	150.00	ft
Guy Anchor Radius, **R**:	20.50	ft
Resultant Angle to Horizontal, **θ**:	76.7	deg

Guy Anchor Properties		
Depth to Bottom of Deadman, **Da**:	8	ft
Anchor Width, **Wa**:	5	ft
Anchor Thickness, **Ta**:	2	ft
Anchor Length, **La**:	37	ft
Concrete Volume, **Vc**:	13.7	yd^3
Toe Width, **toe**:	0	ft
Guyed Anchor Top Rebar Size, **Sat**:	9	
No. of Bars in Top of Block:	12	
Guyed Anchor Front Rebar Size, **Saf**:	9	
No. of Bars in Front of Block:	4	
Stirrup Size:	5	
Anchor Shaft Diameter, **ds**:	1.75	in
Anchor Shaft Quantity. **n**:	2	
Anchor Shaft Area Override:		in^2
Shear Lag Factor, **u**:	1	

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Strength, **F'c**:	4	ksi
Wt. Avg.Concrete Density, **δx**:	0.088	kcf
Clear Cover, **cc**:	3	in
Anchor Shaft Grade, **Fy'**:	50	ksi
Anchor Shaft Ultimate Strength, **Fu'**:	65	ksi

Design Checks	Capacity	Demand	Rating*	Check
Lateral Capacity (kips):	243.58	39.00	**15.2%**	**Pass**
Uplift Capacity (kips):	222.98	165.00	**70.5%**	**Pass**
*Lateral Flexural Capacity (ft*kips):*	978.13	180.38	**17.6%**	**Pass**
*Uplift Flexural Capacity (ft*kips):*	974.50	763.13	**74.6%**	**Pass**
Anchor Shaft (kips):	192.42	169.55	**83.9%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Anchor Shaft Rating:	**83.9%**
Structural Rating:	**74.6%**
Soil Rating:	**70.5%**

Neglect Depth, **Neg**:	3.33	ft
Groundwater Level, **gw**:	2.7	ft

Soil Properties: — **No. of Soil Layers:** 3

Layer	φ, deg	cu, ksf	δ, pcf	d, ft	Ultimate fs (ksf)	N (blows/ft)
1	0	0.000	110	2.70	0.000	
2	31	0.000	47.6	4.00		80
3	42	0.000	72.6	8.00		100

*key: φ = *Internal Angle of Friction*
cu = Cohesion / Undrained Shear Strength
δ = *Buoyant Soil Unit Weight*
d = Depth to Bottom of Layer
Ultimate fs = Geotechnical Report-provided skin friction / adhesion
N = SPT Blow Count

Version 5.0.1

Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

BU#:	841289
Site Name:	Old Saybrook
Order Number:	658837 Rev. 0
Location:	Outer

TIA-222 Revision:	H

Design Reactions		
Shear, **S**:	43.00	kips
Uplift, **Ua**:	91.00	kips
Resultant Force, **Rf**:	100.65	kips
Tower Height, **H**:	150.00	ft
Guy Anchor Radius, **R**:	42.00	ft
Resultant Angle to Horizontal, **θ**:	64.7	deg

Guy Anchor Properties		
Depth to Bottom of Deadman, **Da**:	8	ft
Anchor Width, **Wa**:	5	ft
Anchor Thickness, **Ta**:	2	ft
Anchor Length, **La**:	30	ft
Concrete Volume, **Vc**:	11.1	yd^3
Toe Width, **toe**:	0	ft
Guyed Anchor Top Rebar Size, **Sat**:	9	
No. of Bars in Top of Block:	12	
Guyed Anchor Front Rebar Size, **Saf**:	9	
No. of Bars in Front of Block:	4	
Stirrup Size:	5	
Anchor Shaft Diameter, **ds**:	1.75	in
Anchor Shaft Quantity. **n**:	2	
Anchor Shaft Area Override:		in^2
Shear Lag Factor, **u**:	1	

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Strength, **F'c**:	4	ksi
Wt. Avg.Concrete Density, **δx**:	0.088	kcf
Clear Cover, **cc**:	3	in
Anchor Shaft Grade, **Fy'**:	50	ksi
Anchor Shaft Ultimate Strength, **Fu'**:	65	ksi

Design Checks	Capacity	Demand	Rating*	Check
Lateral Capacity (kips):	197.86	43.00	**20.7%**	**Pass**
Uplift Capacity (kips):	183.82	91.00	**47.1%**	**Pass**
*Lateral Flexural Capacity (ft*kips):*	978.13	161.25	**15.7%**	**Pass**
*Uplift Flexural Capacity (ft*kips):*	974.50	341.25	**33.4%**	**Pass**
Anchor Shaft (kips):	192.42	100.65	**49.8%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Anchor Shaft Rating:	**49.8%**
Structural Rating:	**33.4%**
Soil Rating:	**47.1%**

Neglect Depth, **Neg**:	3.33	ft
Groundwater Level, **gw**:	2.7	ft

Soil Properties: No. of Soil Layers: 3

Layer	φ, deg	cu, ksf	δ, pcf	d, ft	Ultimate fs (ksf)	N (blows/ft)
1	0	0.000	110	2.70	0.000	
2	31	0.000	47.6	4.00		80
3	42	0.000	72.6	8.00		100

*key: φ = *Internal Angle of Friction*
cu = Cohesion / Undrained Shear Strength
δ = *Buoyant Soil Unit Weight*
d = Depth to Bottom of Layer
Ultimate fs = Geotechnical Report-provided skin friction / adhesion
N = SPT Blow Count

Version 5.0.1

EXHIBIT F

Mount Analysis Report

March 9, 2024

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
SW-MA@tepgroup.net

Subject:	**Mount Analysis**	
Carrier Designation:	***T-Mobile* Equipment Change-Out**	
	Client Site Number:	CT11035E
	Client Site Name:	OldSaybrookSNETMobili_1
Crown Castle Designation:	**Crown Castle BU Number:**	841289
	Crown Castle Site Name:	Old Saybrook
	Crown Castle JDE Job Number:	2103534
	Crown Castle Order Number:	658837 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	55790.938822
Site Data:	**170 Ingham Hill Road, Old Saybrook, Middlesex, CT 06475** **Latitude *41° 18' 35.55"*, Longitude *-72° 23' 51.13"***	
Structure Information:	**Tower Height & Type:**	150.0± ft Monopole
	Mount Elevation:	140.0 ft
	Mount Width & Type:	12.5 ft Platform w/ Support Rail

Tower Engineering Professionals is pleased to submit this **"Mount Analysis"** to determine the structural integrity of T-Mobile's antenna mounting system with 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 w/ Support Rail Mount **Sufficient – 46.0%**

The analysis has been performed in accordance with the 2022 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.

Structural analysis prepared by: Paul Stewart, P.E.

Respectfully submitted by:

Electronic Copy

03/11/2024

Aaron T. Rucker, P.E.
Structural Division Manager
919-661-6351
arucker@tepgroup.net

TABLE OF CONTENTS

1) INTRODUCTION

The mount is an existing 12.5-ft Platform w/ Support Rail mount. The mount is installed at the 140.0 ft elevation on the 150.0± ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2022 Connecticut State Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	125 mph
Exposure Category:	B
Topographic Category at Base:	1.0
Topographic Category at Mount:	1.0
Ice Thickness:	1.0 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.204
Seismic S_1:	0.054
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading 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	141.0	3	RFS Celwave	APXVAALL24_43-U-NA20	Platform w/ Support Rail Mount
	140.0	3	Ericsson	AIR 6419 B41_TMO_CCIV2	
		3	RFS Celwave	APXVLL19P_43-C-A20_TMO	
		3	Ericsson	Radio 4449 B71 B85A_T-MOBILE	
		3	Ericsson	Radio 4460 B2/B25 B66_TMO	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Previous Mount Analysis	Paul J. Ford and Company	8400611	CCIsites
Loading Application	T-Mobile	Order 658837 Rev. 0	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 mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

TEP Mount Analysis Tool, a tool internally developed by TEP using Microsoft Excel, was used to calculate member loading 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 E)*.

3.2) Assumptions

1) The mount was built in accordance with the manufacturer's specifications.
2) The mount has been maintained in accordance with the manufacturer's specification.
3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
4) All mount components are in sufficient condition to carry their full design capacity.
5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals 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 w/ Support Rail Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1,3	Face Horizontals	SF2-TH	140.0	18.1	Pass
1,3	Support Rail	FF-HR	140.0	46.0	Pass
1,3	Support Arm	SA-1	140.0	41.4	Pass
1,3	Grating Support	GSIP-1A	140.0	15.9	Pass
1,3	Mount Pipes	MP-3	140.0	24.6	Pass
2,3	Connection Bolts	-	140.0	20.9	Pass
2,3	Connection Plate	-	140.0	44.4	Pass

Structure Rating (max from all components) =	46.0%

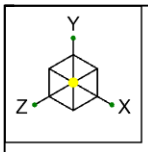
Notes:
1) See additional documentation in “Appendix C - Analysis Output” for calculations supporting the % capacity listed.
2) See additional documentation in “Appendix D - Additional Calculations” for calculations supporting the % capacity listed.
3) Rating per TIA-222-H, Section 15.5.

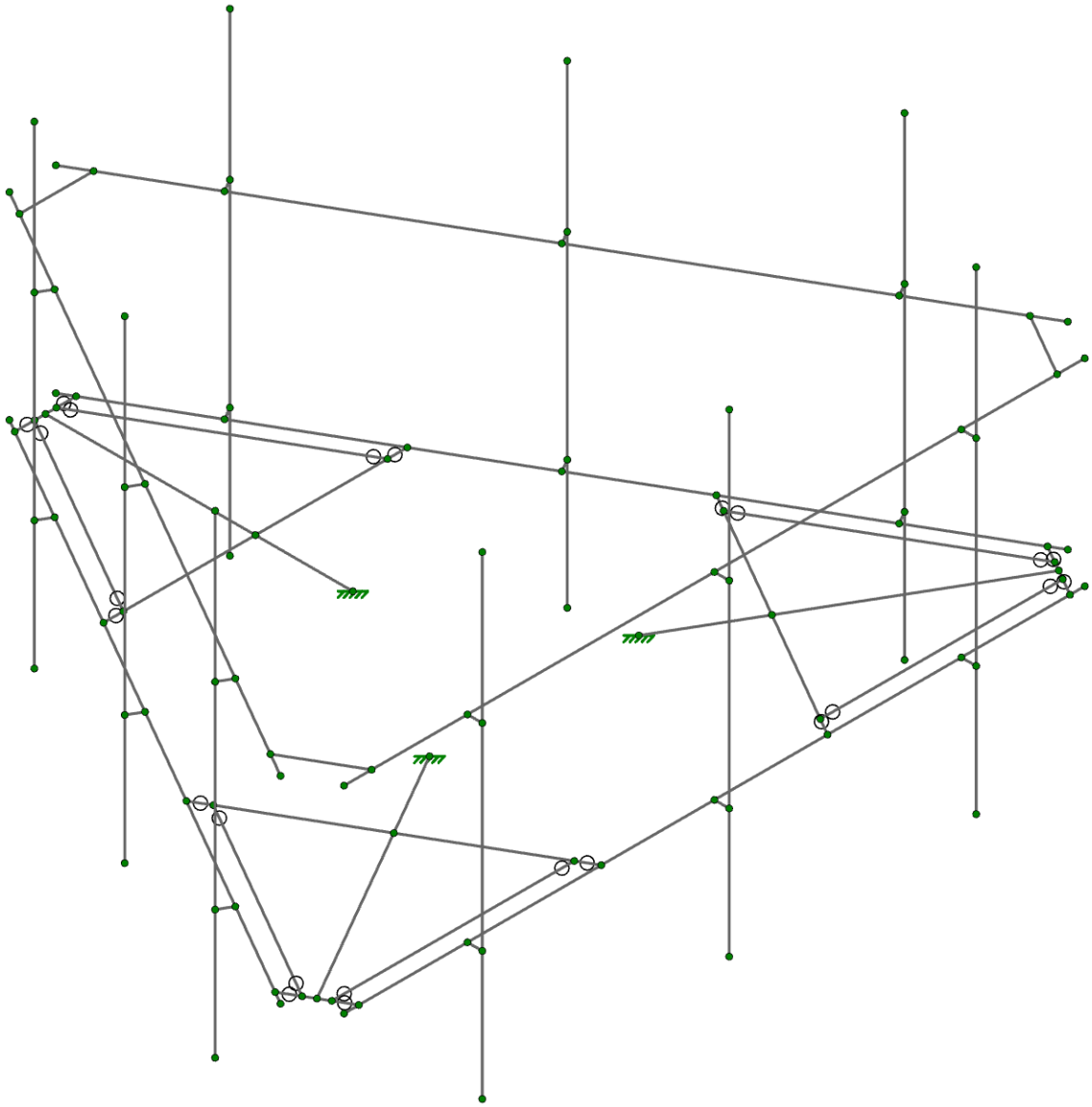
4.1) Recommendations

1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A

WIRE FRAME AND RENDERED MODELS





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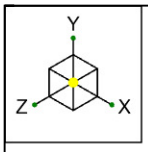

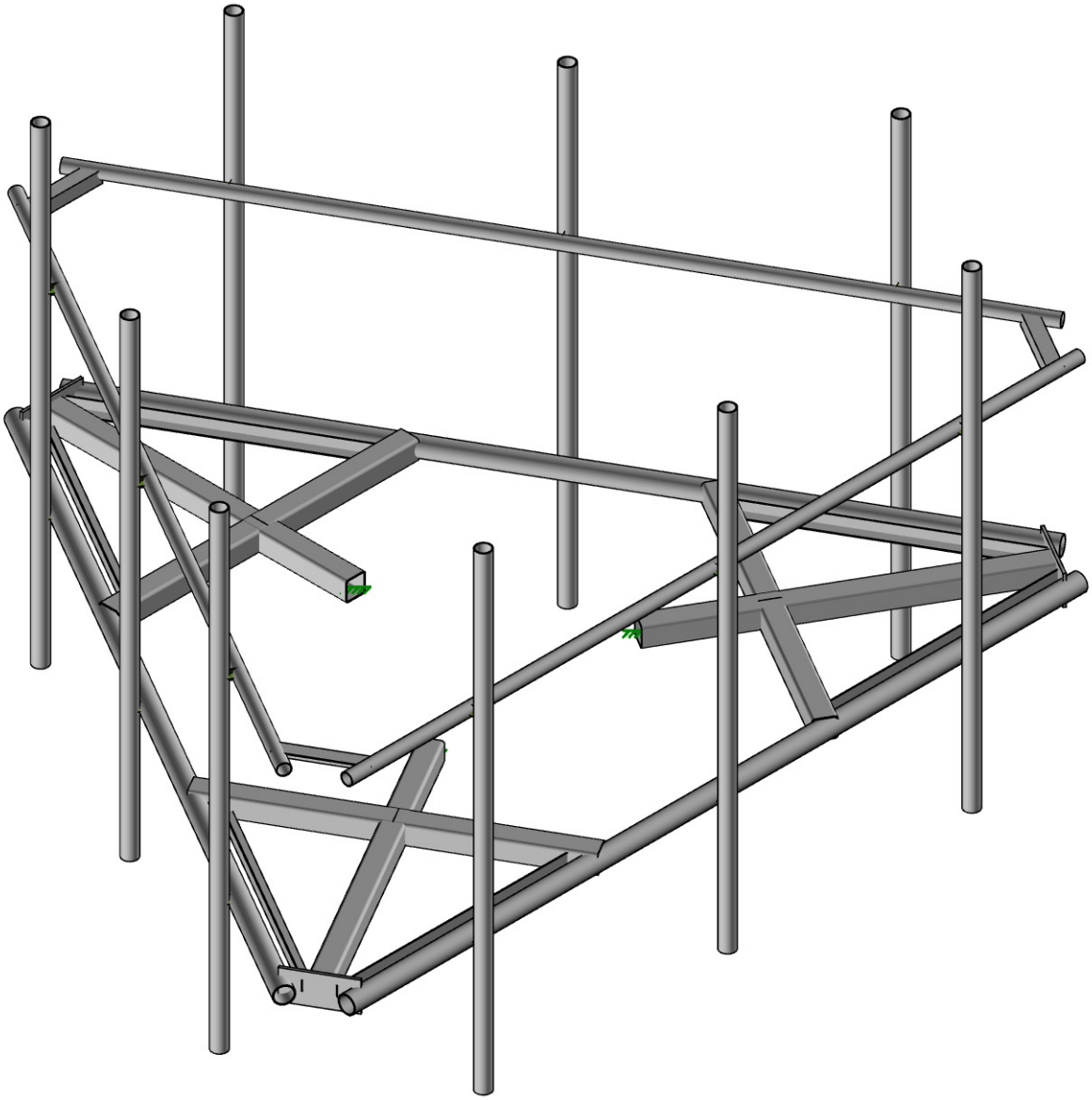

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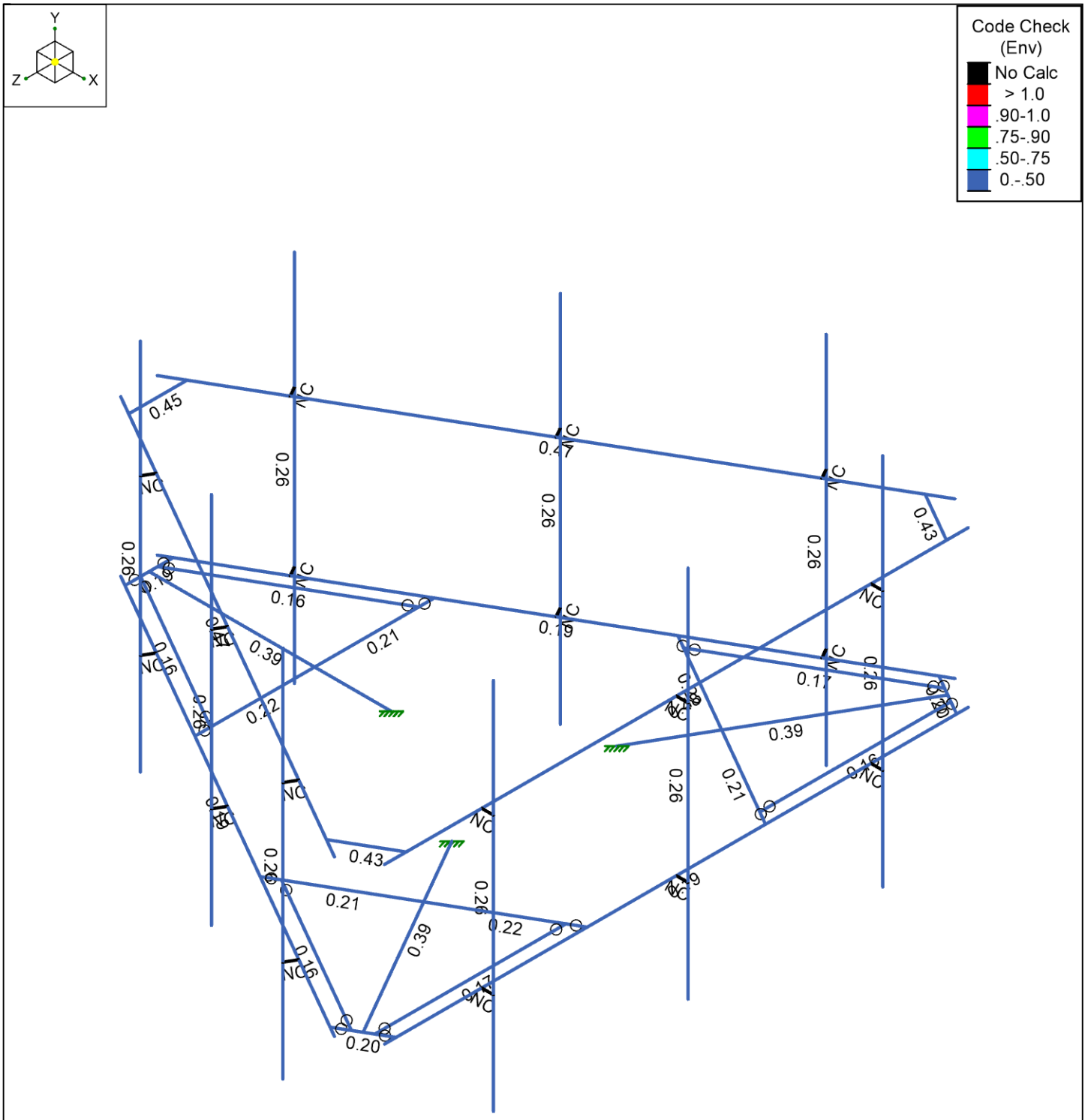

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Envelope Only Solution

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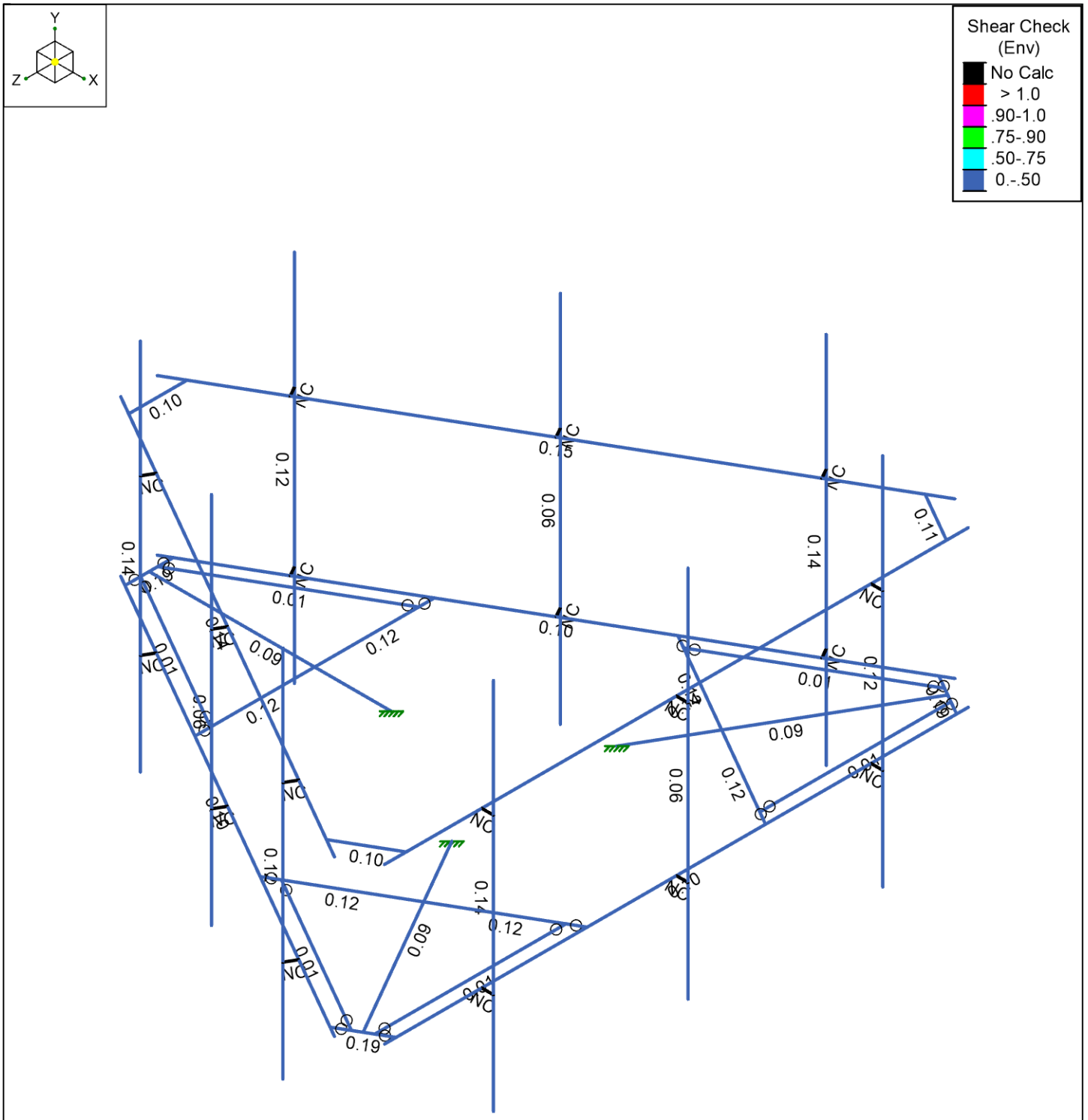

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Envelope Only Solution

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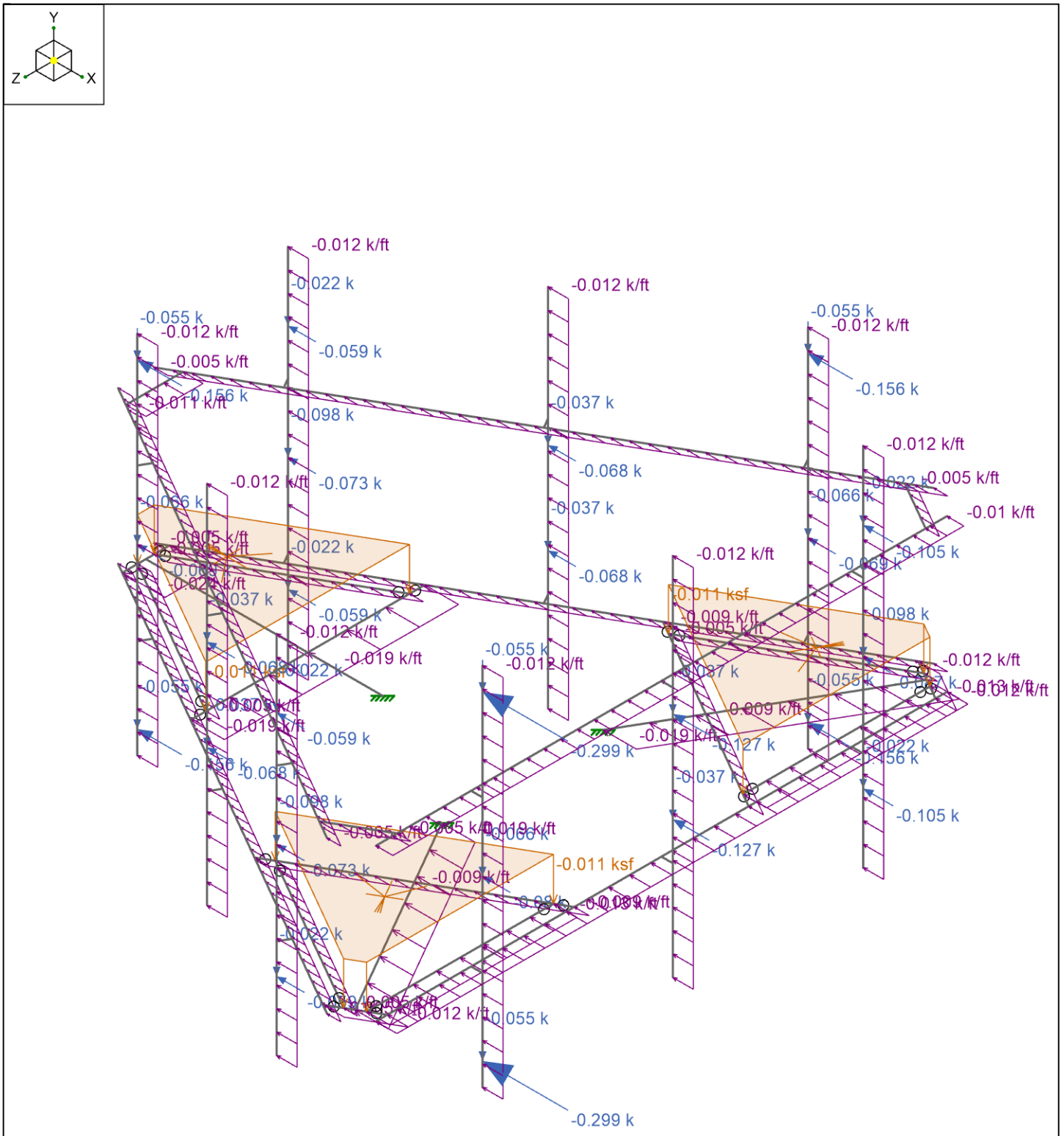

Loads: LC 2, 0.9D+1.0 0-Wind
Envelope Only Solution

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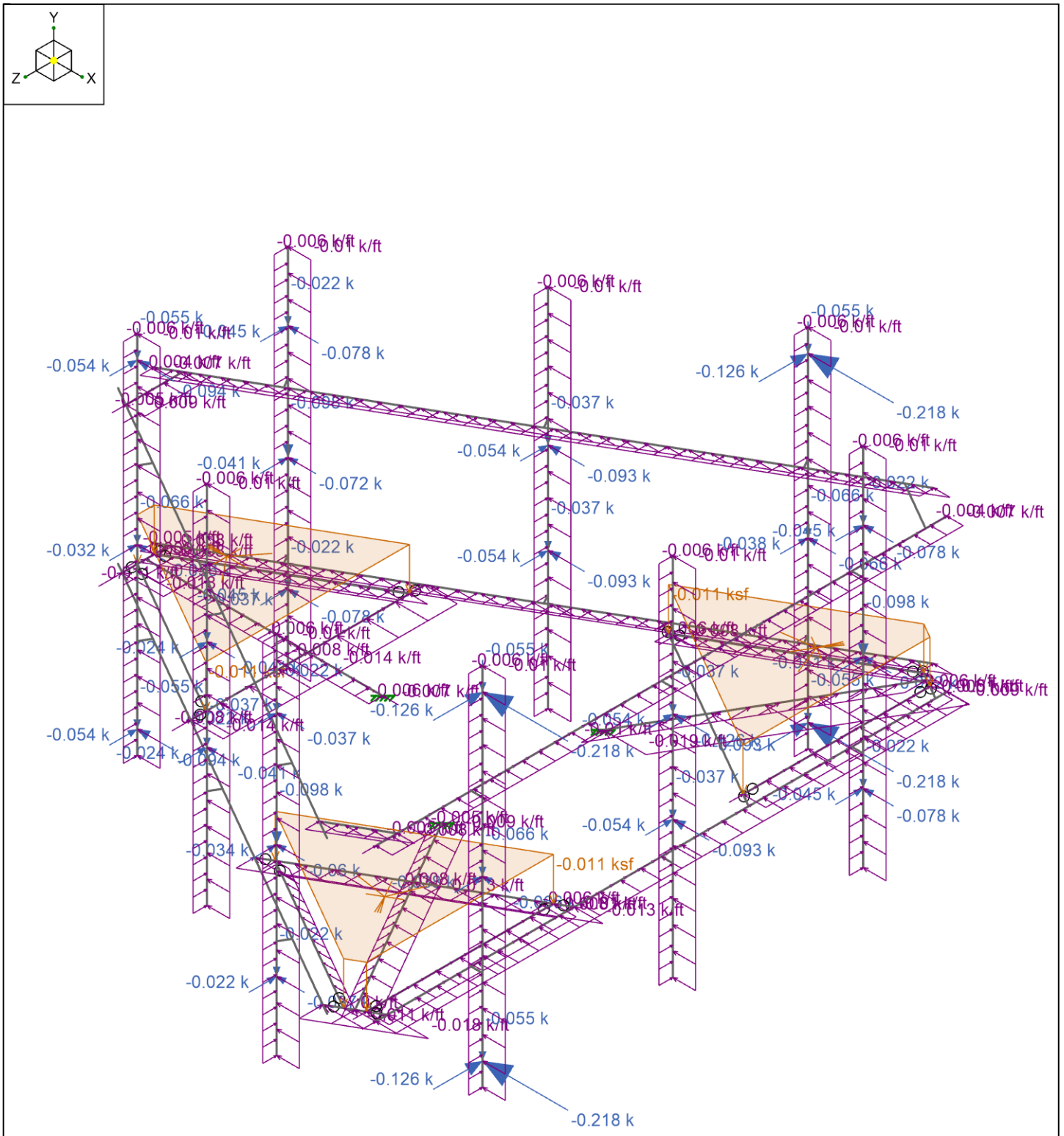

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Envelope Only Solution

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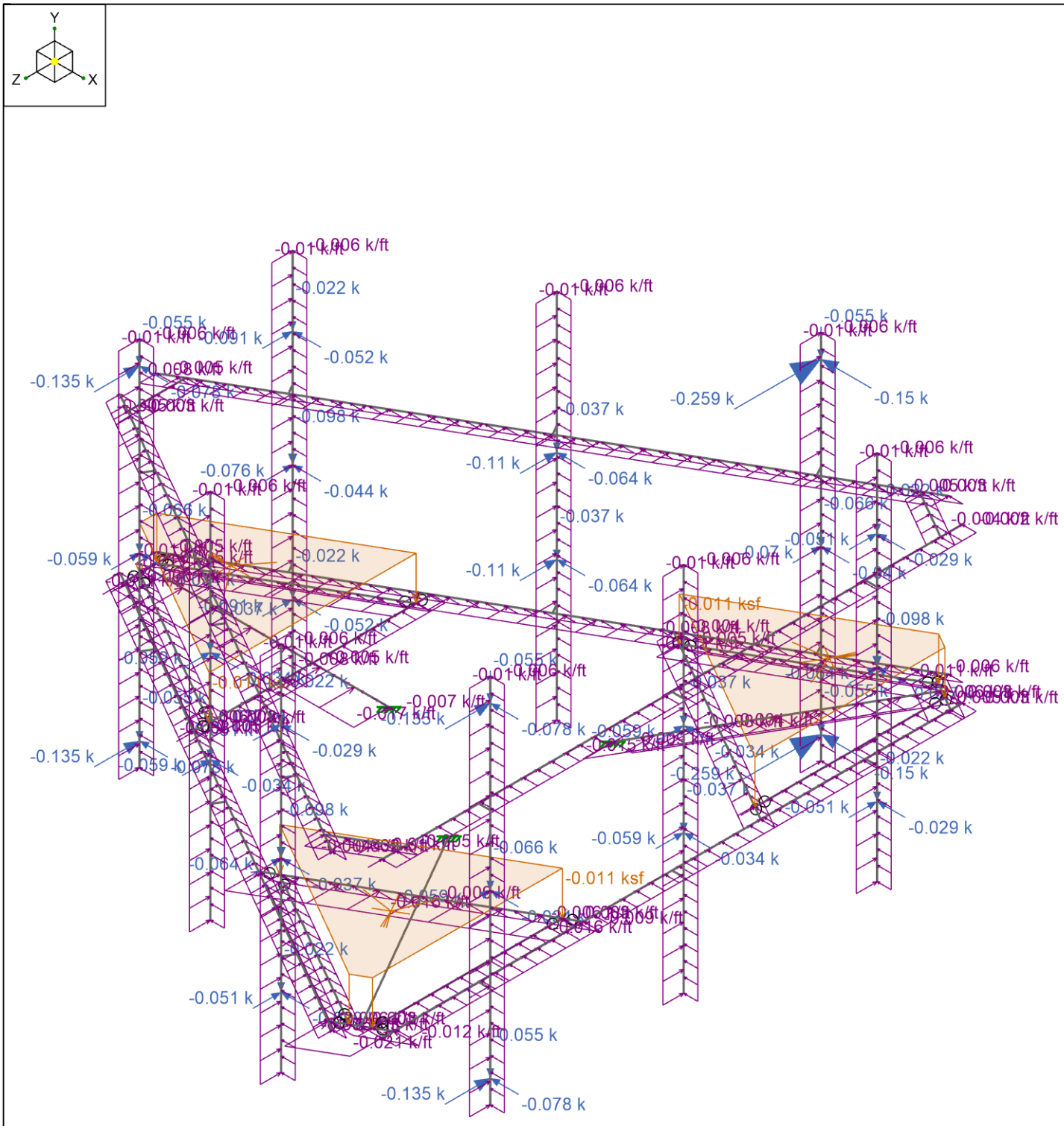

Loads: LC 5, 0.9D+1.0 60-Wind Envelope Only Solution

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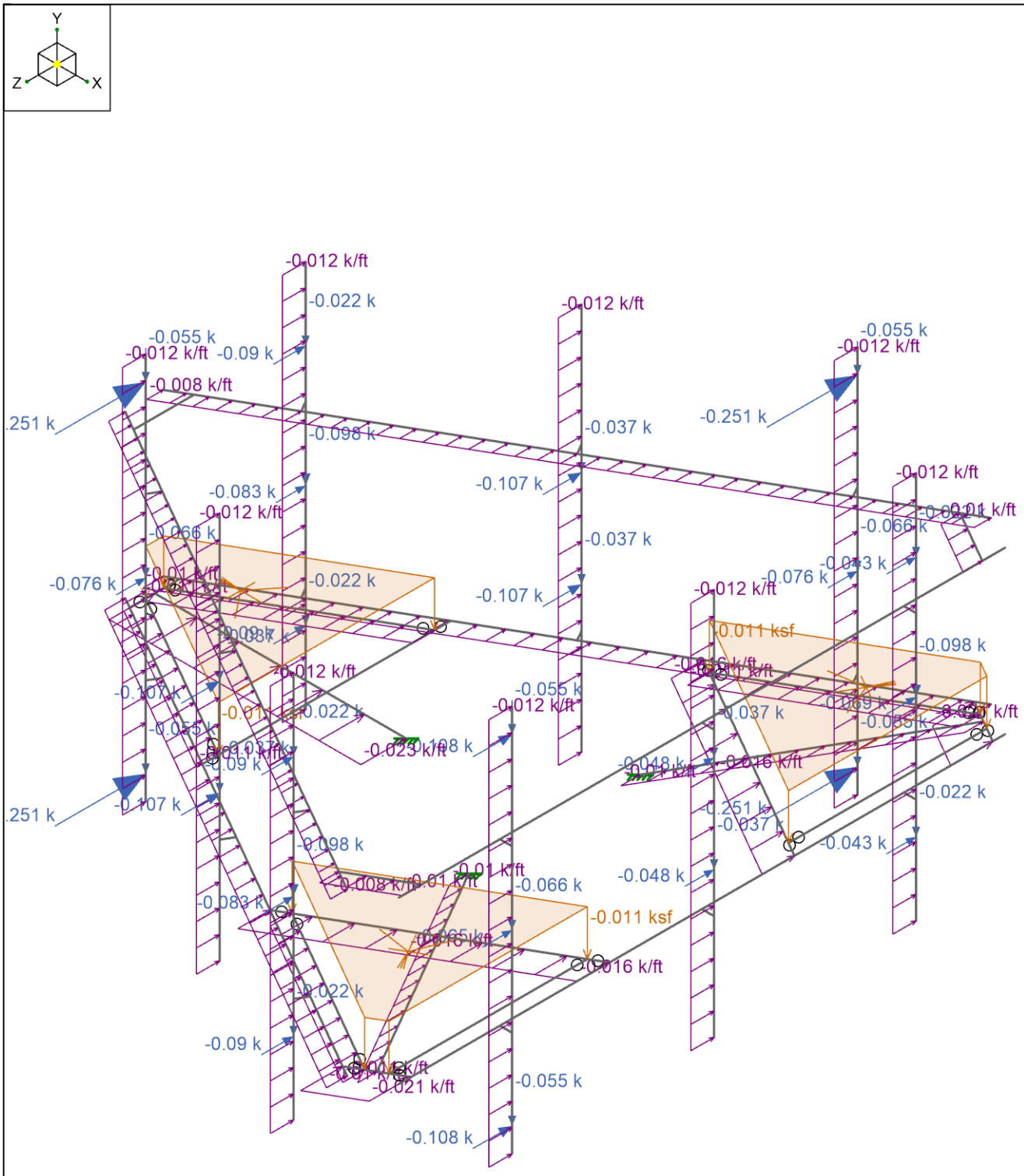

Loads: LC 6, 0.9D+1.0 90-Wind
Envelope Only Solution

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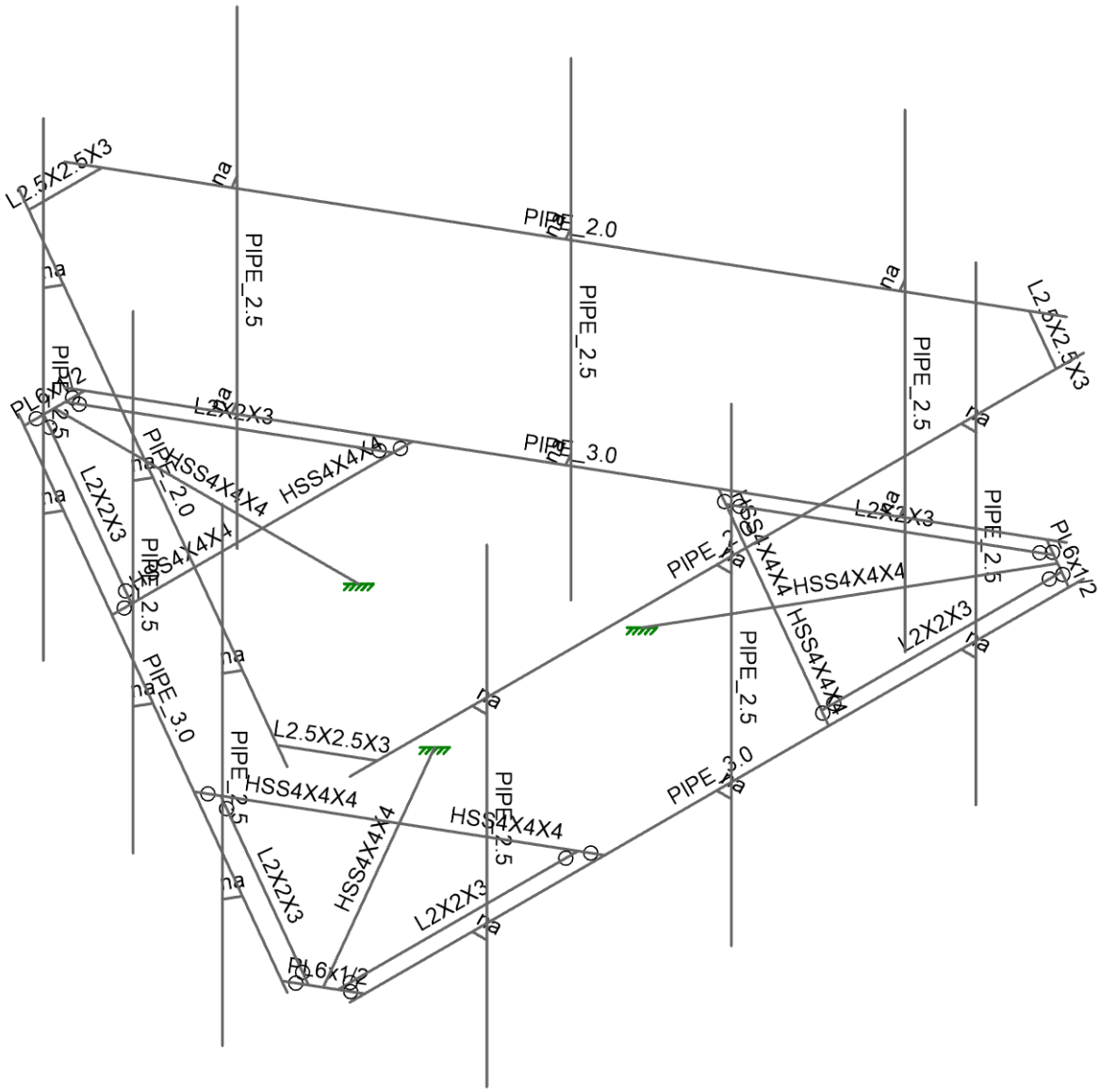

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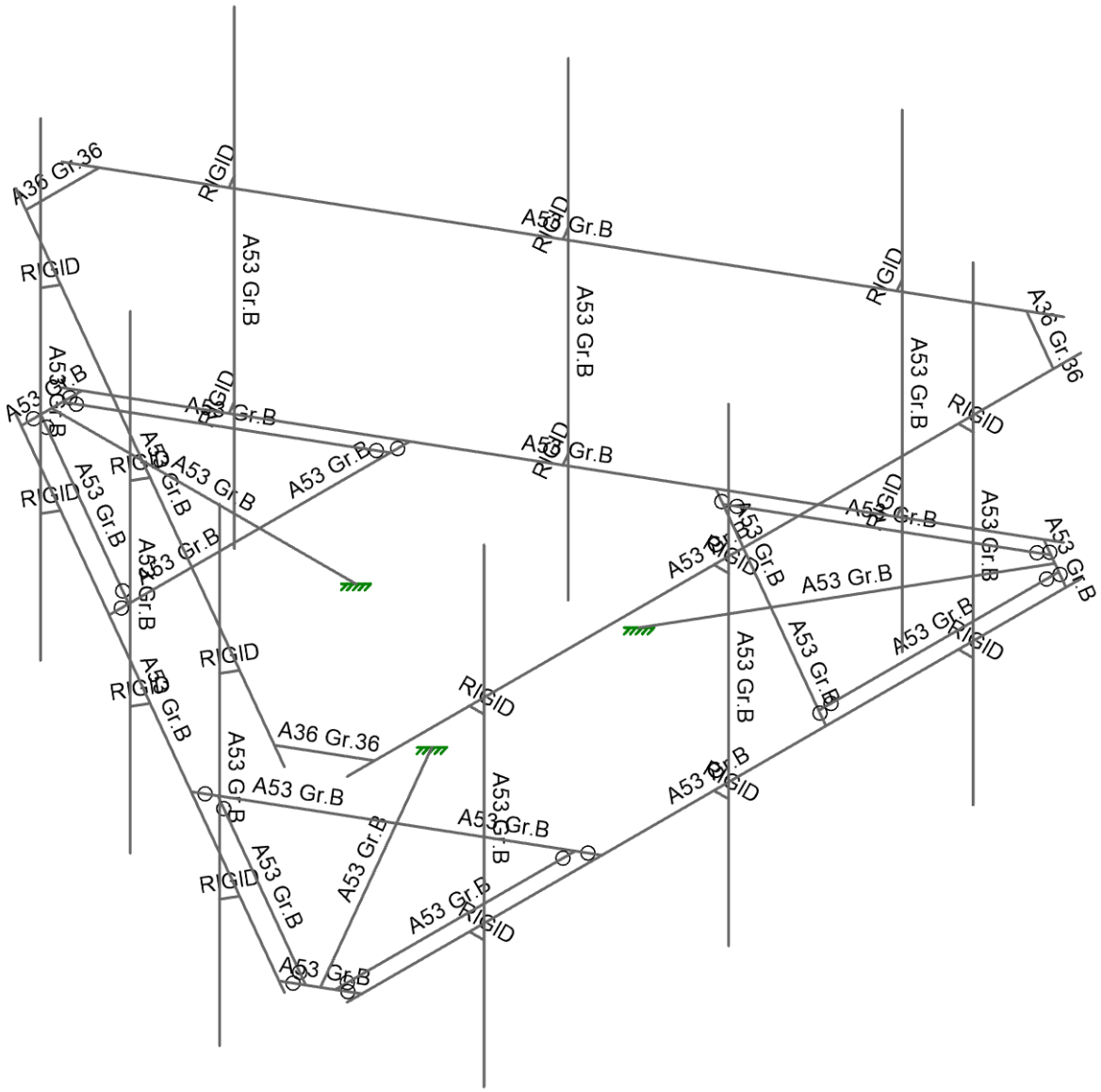

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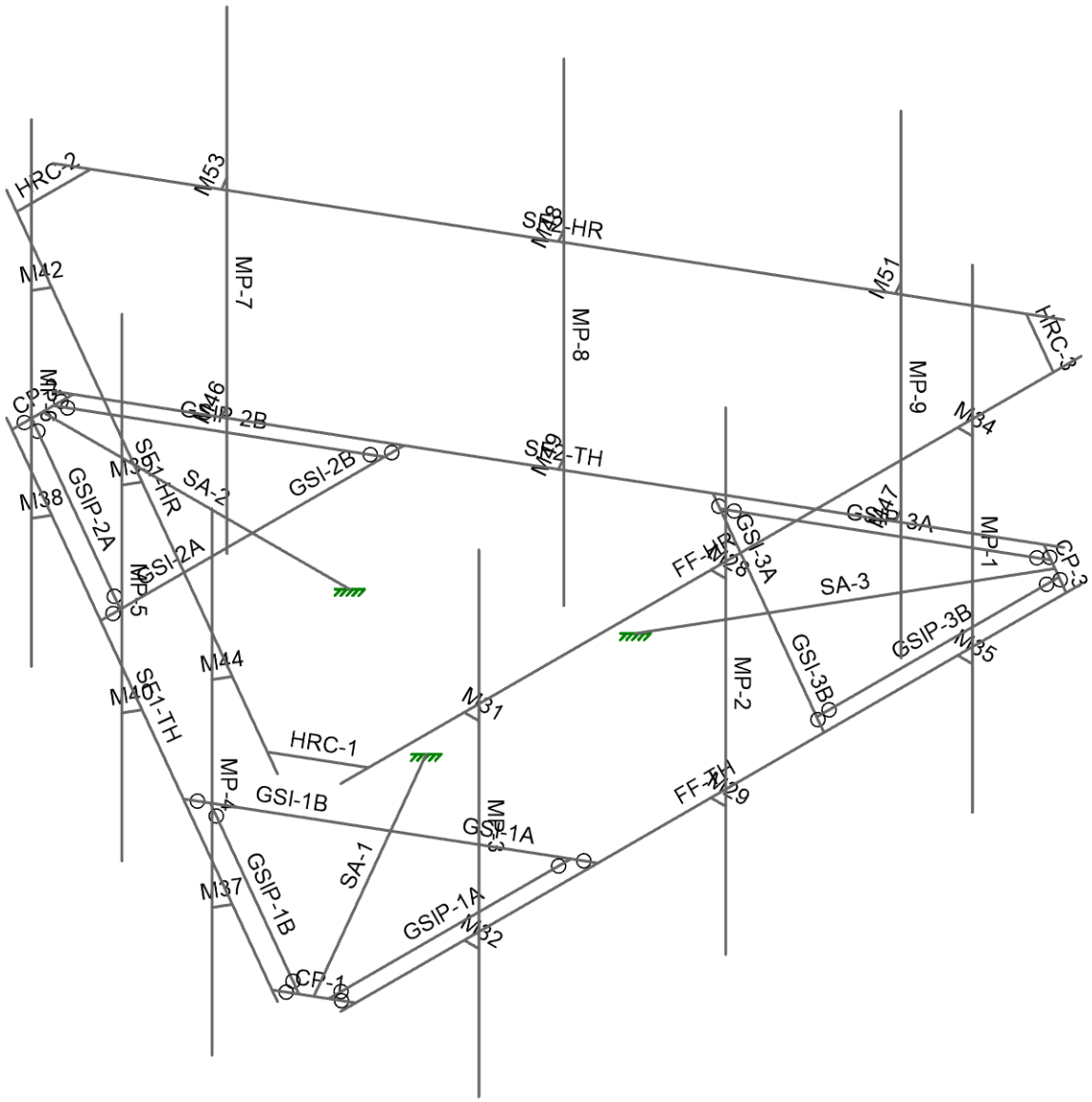

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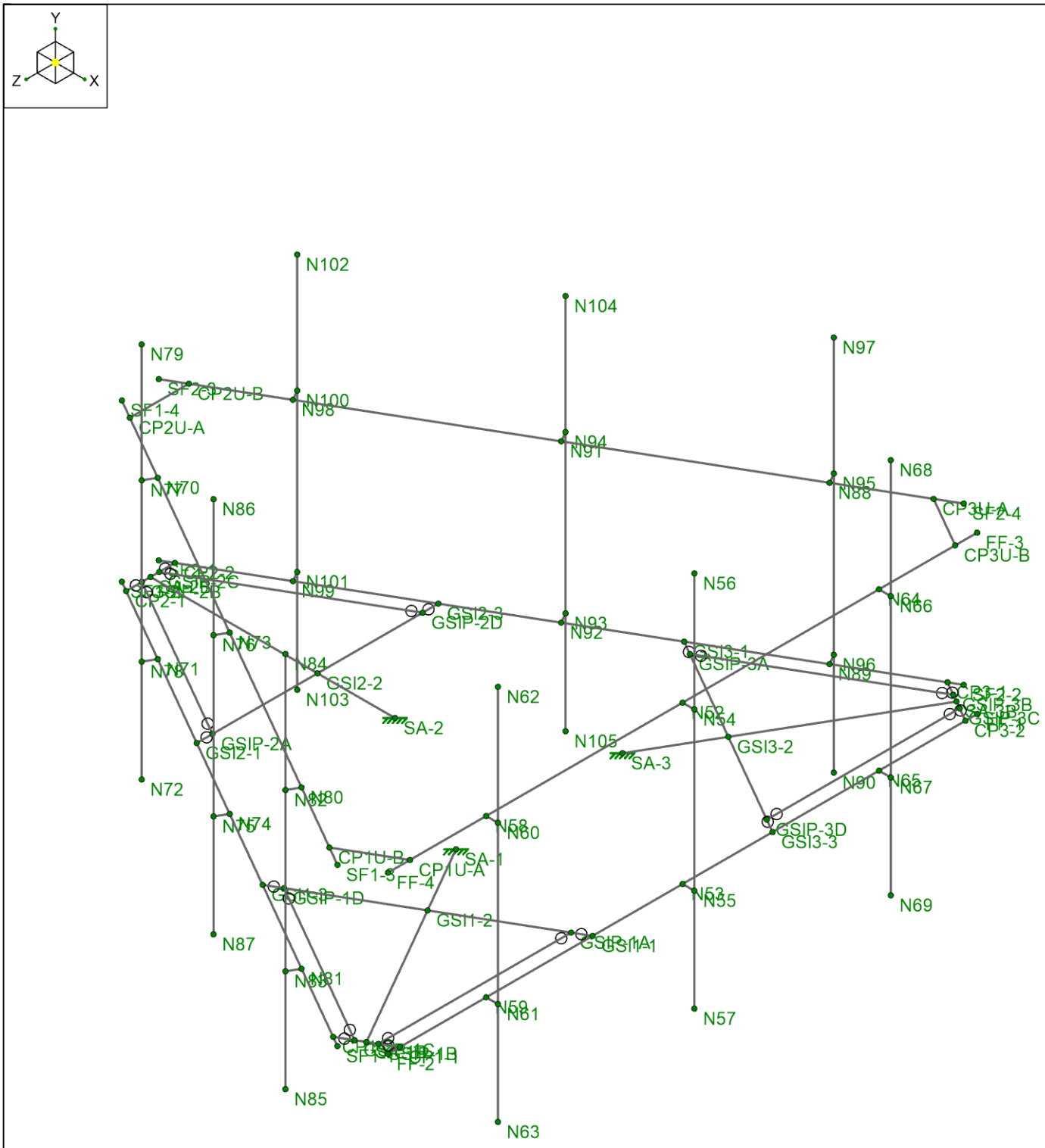


Envelope Only Solution

	Tower Engineering Profes…	Old Saybrook (BU 841289)	SK-12
	PRS		Mar 09, 2024 at 06:45 PM
	TEP No. 55790.938822		PL-22 (12.5ft FW).r3d

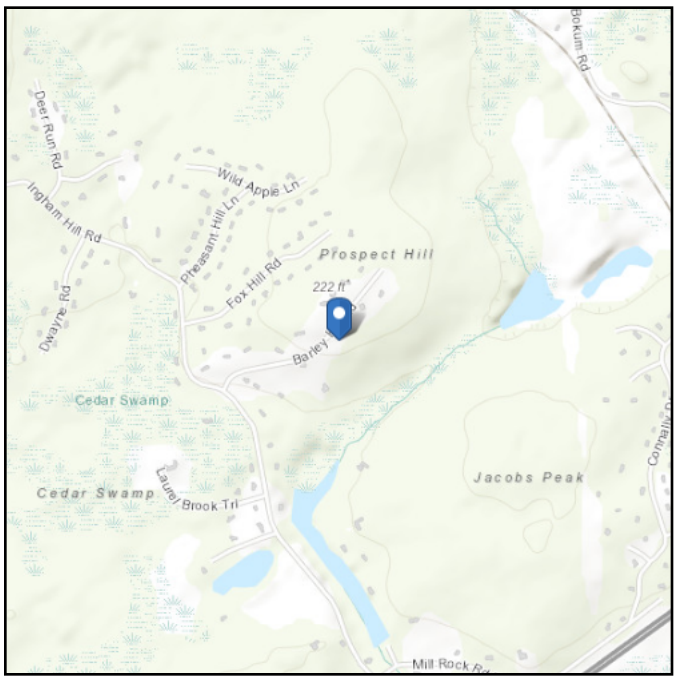
APPENDIX B

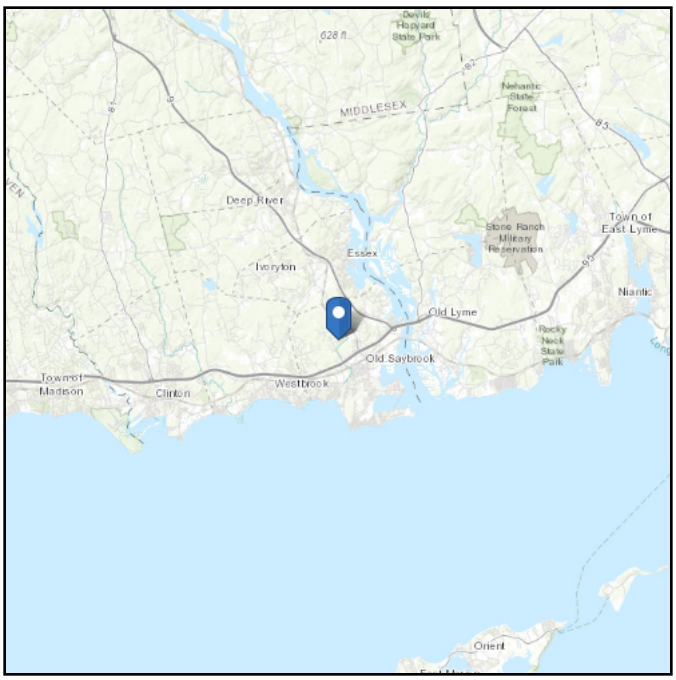
SOFTWARE INPUT CALCULATIONS

ASCE Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.309875
Risk Category:	II	**Longitude:**	-72.397536
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	159.09754894282744 ft (NAVD 88)





Wind

Results:

Wind Speed	125 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	96 Vmph
100-year MRI	102 Vmph

Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed:	Fri Jan 19 2024

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

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

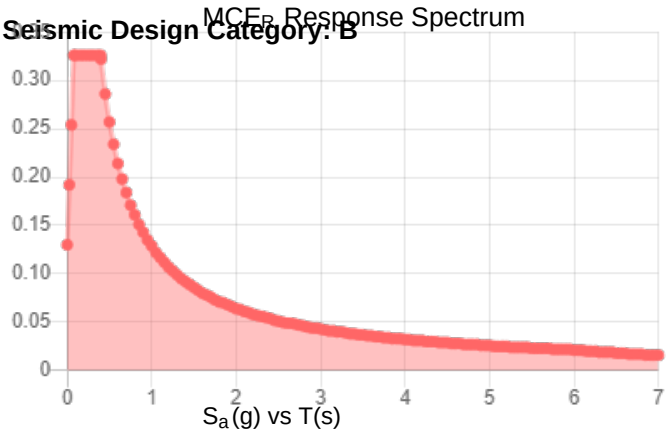
Seismic

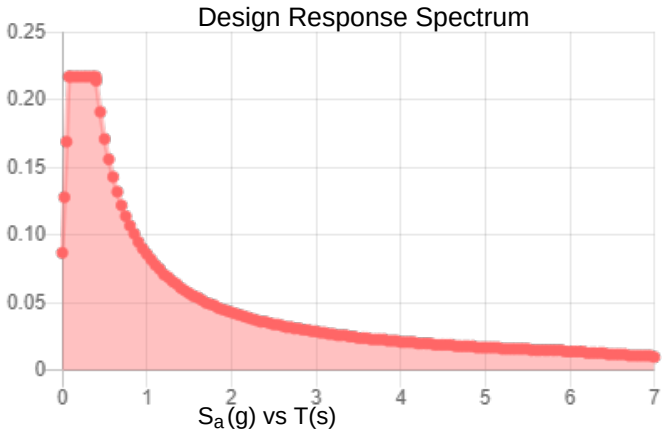
Site Soil Class: D - Default (see Section 11.4.3)

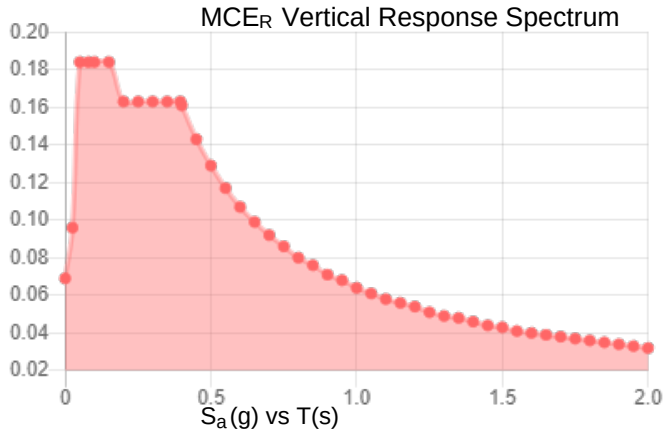
Results:

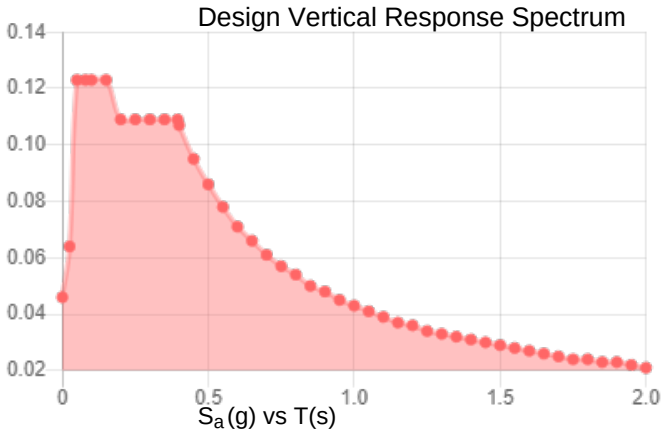
S_S :	0.204	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.114
F_v :	2.4	PGA_M :	0.179
S_{MS} :	0.326	F_{PGA} :	1.573
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.217	C_v :	0.707

Seismic Design Category: B









Data Accessed: **Fri Jan 19 2024**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Fri Jan 19 2024

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

TOWER ENGINEERING PROFESSIONALS

Old Saybrook (BU 841289)

TEP No.	55790.938822	
Analysis By:	PRS	3/9/2024
Checked By:	SWS	3/9/2024

Code Revisions:	TIA-222-H	IBC 2021
Tower Type:	Monopole	

Wind Inputs:

Ult. Wind Velocity:	125	mph
Live Load Velocity:	30	mph
Ice Wind Velocity:	50	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	140.0	ft
Antenna Centerline:	141.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	159	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
$K_{z\text{-}Mount}$:	1.088	Section 2.6.5.2
$K_{z\text{-}Antenna}$:	1.090	Section 2.6.5.2
K_{iz}:	1.156	Section 2.6.10
Ice Thickness:	1.156	inches - Section 2.6.10
K_e:	0.994	Table 2-6

Without Ice - (psf)		With Ice - (psf)	
$(q_zG_h)_{Mount}$:	45.22	**$(q_zG_h)_{Mount}$:**	6.58
$(q_zG_h)_{Antenna}$:	45.31	**$(q_zG_h)_{Antenna}$:**	6.59

TOWER ENGINEERING PROFESSIONALS

Old Saybrook (BU 841289)

TEP No.	55790.938822	
Analysis By:	PRS	3/9/2024
Checked By:	SWS	3/9/2024

Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

										Distance from start node of the member		
MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
RFS/CELWAVE	APXVLL19P_43-C-A20_TMO	75.80	11.30	4.60	48.39	0.00	1	Flat	MP-1	1.50	6.50	
ERICSSON	RADIO 4460 B2/B25 B66_TMO	17.00	15.10	11.90	109.00	0.00	1	Flat	MP-1	4.00		
ERICSSON	AIR 6419 B41_TMO_CCIV2	34.49	19.92	7.99	81.84	0.00	1	Flat	MP-2	3.00	5.00	
RFS/CELWAVE	APXVAALL24_43-U-NA20	95.90	24.00	8.50	122.80	0.00	1	Flat	MP-3	0.50	7.50	
ERICSSON	RADIO 4449 B71 B85A_T-MOBILE	17.91	13.20	10.63	73.21	0.00	1	Flat	MP-3	4.00		
RFS/CELWAVE	APXVLL19P_43-C-A20_TMO	75.80	11.30	4.60	48.39	120.00	1	Flat	MP-4	1.50	6.50	
ERICSSON	RADIO 4460 B2/B25 B66_TMO	17.00	15.10	11.90	109.00	120.00	1	Flat	MP-4	4.00		
ERICSSON	AIR 6419 B41_TMO_CCIV2	34.49	19.92	7.99	81.84	120.00	1	Flat	MP-5	3.00	5.00	
RFS/CELWAVE	APXVAALL24_43-U-NA20	95.90	24.00	8.50	122.80	120.00	1	Flat	MP-6	0.50	7.50	
ERICSSON	RADIO 4449 B71 B85A_T-MOBILE	17.91	13.20	10.63	73.21	120.00	1	Flat	MP-6	4.00		
RFS/CELWAVE	APXVLL19P_43-C-A20_TMO	75.80	11.30	4.60	48.39	240.00	1	Flat	MP-7	1.50	6.50	
ERICSSON	RADIO 4460 B2/B25 B66_TMO	17.00	15.10	11.90	109.00	240.00	1	Flat	MP-7	4.00		
ERICSSON	AIR 6419 B41_TMO_CCIV2	34.49	19.92	7.99	81.84	240.00	1	Flat	MP-8	3.00	5.00	
RFS/CELWAVE	APXVAALL24_43-U-NA20	95.90	24.00	8.50	122.80	240.00	1	Flat	MP-9	0.50	7.50	
ERICSSON	RADIO 4449 B71 B85A_T-MOBILE	17.91	13.20	10.63	73.21	240.00	1	Flat	MP-9	4.00		

Member Forces are Calculated in Accordance with TIA-222-H

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	6.000	12.41	Flat	30.00	24.00
CP-2	6.000	12.41	Flat	90.00	24.00
CP-3	6.000	12.41	Flat	-30.00	24.00
FF-TH	3.500	150.00	Round	90.00	11.00
SF1-TH	3.500	150.00	Round	-30.00	11.00
SF2-TH	3.500	150.00	Round	30.00	11.00
GSIP-1A	2.000	49.09	Flat	90.00	8.00
GSIP-1B	2.000	49.09	Flat	-30.00	8.00
GSIP-2A	2.000	49.09	Flat	-30.00	8.00
GSIP-2B	2.000	49.09	Flat	30.00	8.00
GSIP-3A	2.000	49.09	Flat	30.00	8.00
GSIP-3B	2.000	49.09	Flat	90.00	8.00
FF-HR	2.375	150.00	Round	90.00	7.46
SF1-HR	2.375	150.00	Round	-30.00	7.46
SF2-HR	2.375	150.00	Round	30.00	7.46
HRC-1	2.500	15.00	Flat	30.00	10.00
HRC-2	2.500	15.00	Flat	90.00	10.00
HRC-3	2.500	15.00	Flat	-30.00	10.00
GSI-1A	4.000	30.75	Flat	30.00	16.00
GSI-1B	4.000	30.75	Flat	30.00	16.00
GSI-2A	4.000	30.75	Flat	90.00	16.00
GSI-2B	4.000	30.75	Flat	90.00	16.00
GSI-3A	4.000	30.75	Flat	-30.00	16.00
GSI-3B	4.000	30.75	Flat	-30.00	16.00
SA-1	4.000	62.25	Flat	-60.00	16.00
SA-2	4.000	62.25	Flat	0.00	16.00
SA-3	4.000	62.25	Flat	60.00	16.00
MP-2	2.875	96.00	Round		9.03
MP-3	2.875	96.00	Round		9.03
MP-1	2.875	96.00	Round		9.03
MP-5	2.875	96.00	Round		9.03
MP-6	2.875	96.00	Round		9.03
MP-4	2.875	96.00	Round		9.03
MP-8	2.875	96.00	Round		9.03
MP-9	2.875	96.00	Round		9.03
MP-7	2.875	96.00	Round		9.03

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

Model Settings

Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in^2)	144
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes
Approximate Mesh Size (in)	24
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
Single	No
Multiple (Optimum)	Yes
Maximum	No

Global Axis corresponding to vertical direction	Y
Convert Existing Data	Yes
Default Global Plane for z-axis	XZ
Plate Local Axis Orientation	Nodal

Hot Rolled Steel	AISC 15th (360-16): LRFD
Stiffness Adjustment	No
Notional Annex	None
Connections	None
Cold Formed Steel	None
Stiffness Adjustment	Yes (Iterative)
Wood	None
Temperature	< 100F
Concrete	None
Masonry	None
Aluminum	None
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	None
Stiffness Adjustment	Yes (Iterative)

Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	Yes
List forces which were ignored for design in the Detail Report	Yes

Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No
Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4

Code	ASCE 7-16
Risk Category	I or II
Drift Cat	Other

Model Settings (Continued)

Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
S_1 (g)	1
SD_1 (g)	1
SD_S (g)	1
T_L (sec)	5
T Z (sec)	
T X (sec)	
C_tZ	0.02
C_tX	0.02
C_tExp. Z	0.75
C_tExp. X	0.75
R Z	3
R X	3
Ω_0Z	1
Ω_0X	1
C_dZ	1
C_dX	1
ρ Z	1
ρ X	1

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Face Horiz	PIPE_3.0	None	None	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Support Arm	HSS4X4X4	None	None	A53 Gr.B	Typical	3.37	7.8	7.8	12.8
3	Internal	HSS4X4X4	None	None	A53 Gr.B	Typical	3.37	7.8	7.8	12.8
4	Grating Support	L2X2X3	None	None	A53 Gr.B	Typical	0.722	0.271	0.271	0.009
5	Corner Plate	PL6x1/2	None	None	A53 Gr.B	Typical	3	0.062	9	0.237
6	Support Rail	PIPE_2.0	None	None	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
7	Support Rail Connection	L2.5X2.5X3	VBrace	Single Angle	A36 Gr.36	Typical	0.901	0.535	0.535	0.011
8	Mount Pipe	PIPE_2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Material Take-Off

	Material	Size	Pieces	Length[ft]	Weight[K]
0	General Members				
1	RIGID		18	4.5	0
2	Total General		18	4.5	0
3					
4	Hot Rolled Steel				
5	A36 Gr.36	L2.5X2.5X3	3	3.7	0.011
6	A53 Gr.B	HSS4X4X4	9	30.9	0.355
7	A53 Gr.B	L2X2X3	6	24.5	0.06
8	A53 Gr.B	PIPE_2.0	3	37.5	0.13
9	A53 Gr.B	PIPE_2.5	9	72	0.394
10	A53 Gr.B	PIPE_3.0	3	37.5	0.264
11	A53 Gr.B	PL6x1/2	3	3.1	0.032
12	Total HR Steel		36	209.3	1.247

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	SA-1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA-3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA-2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	CP-1	CP1-1	CP1-2		Corner Plate	None	None	A53 Gr.B	Typical
2	CP-2	CP2-1	CP2-2		Corner Plate	None	None	A53 Gr.B	Typical
3	CP-3	CP3-1	CP3-2		Corner Plate	None	None	A53 Gr.B	Typical
4	FF-TH	FF-1	FF-2		Face Horiz	None	None	A53 Gr.B	Typical
5	SF1-TH	SF1-1	SF1-2		Face Horiz	None	None	A53 Gr.B	Typical
6	SF2-TH	SF2-1	SF2-2		Face Horiz	None	None	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
7	GSIP-1A	GSIP-1A	GSIP-1B		Grating Support	None	None	A53 Gr.B	Typical
8	GSIP-1B	GSIP-1C	GSIP-1D		Grating Support	None	None	A53 Gr.B	Typical
9	GSIP-2A	GSIP-2A	GSIP-2B		Grating Support	None	None	A53 Gr.B	Typical
10	GSIP-2B	GSIP-2C	GSIP-2D		Grating Support	None	None	A53 Gr.B	Typical
11	GSIP-3A	GSIP-3A	GSIP-3B		Grating Support	None	None	A53 Gr.B	Typical
12	GSIP-3B	GSIP-3C	GSIP-3D		Grating Support	None	None	A53 Gr.B	Typical
13	FF-HR	FF-3	FF-4		Support Rail	None	None	A53 Gr.B	Typical
14	SF1-HR	SF1-3	SF1-4		Support Rail	None	None	A53 Gr.B	Typical
15	SF2-HR	SF2-3	SF2-4		Support Rail	None	None	A53 Gr.B	Typical
16	HRC-1	CP1U-A	CP1U-B	180	Support Rail Connection	VBrace	Single Angle	A36 Gr.36	Typical
17	HRC-2	CP2U-A	CP2U-B	180	Support Rail Connection	VBrace	Single Angle	A36 Gr.36	Typical
18	HRC-3	CP3U-A	CP3U-B	180	Support Rail Connection	VBrace	Single Angle	A36 Gr.36	Typical
19	GSI-1A	GSI1-1	GSI1-2		Internal	None	None	A53 Gr.B	Typical
20	GSI-1B	GSI1-2	GSI1-3		Internal	None	None	A53 Gr.B	Typical
21	GSI-2A	GSI2-1	GSI2-2		Internal	None	None	A53 Gr.B	Typical
22	GSI-2B	GSI2-2	GSI2-3		Internal	None	None	A53 Gr.B	Typical
23	GSI-3A	GSI3-1	GSI3-2		Internal	None	None	A53 Gr.B	Typical
24	GSI-3B	GSI3-2	GSI3-3		Internal	None	None	A53 Gr.B	Typical
25	SA-1	SA-1	SA-1B		Support Arm	None	None	A53 Gr.B	Typical
26	SA-2	SA-2	SA-2B		Support Arm	None	None	A53 Gr.B	Typical
27	SA-3	SA-3	SA-3B		Support Arm	None	None	A53 Gr.B	Typical
28	M28	N52	N54		RIGID	None	None	RIGID	Typical
29	M29	N53	N55		RIGID	None	None	RIGID	Typical
30	MP-2	N56	N57		Mount Pipe	None	None	A53 Gr.B	Typical
31	M31	N58	N60		RIGID	None	None	RIGID	Typical
32	M32	N59	N61		RIGID	None	None	RIGID	Typical
33	MP-3	N62	N63		Mount Pipe	None	None	A53 Gr.B	Typical
34	M34	N64	N66		RIGID	None	None	RIGID	Typical
35	M35	N65	N67		RIGID	None	None	RIGID	Typical
36	MP-1	N68	N69		Mount Pipe	None	None	A53 Gr.B	Typical
37	M37	N81	N83		RIGID	None	None	RIGID	Typical
38	M38	N71	N78		RIGID	None	None	RIGID	Typical
39	M39	N73	N76		RIGID	None	None	RIGID	Typical
40	M40	N74	N75		RIGID	None	None	RIGID	Typical
41	MP-5	N86	N87	120	Mount Pipe	None	None	A53 Gr.B	Typical
42	M42	N70	N77		RIGID	None	None	RIGID	Typical
43	MP-6	N79	N72	120	Mount Pipe	None	None	A53 Gr.B	Typical
44	M44	N80	N82		RIGID	None	None	RIGID	Typical
45	MP-4	N84	N85	120	Mount Pipe	None	None	A53 Gr.B	Typical
46	M46	N99	N101		RIGID	None	None	RIGID	Typical
47	M47	N89	N96		RIGID	None	None	RIGID	Typical
48	M48	N91	N94		RIGID	None	None	RIGID	Typical
49	M49	N92	N93		RIGID	None	None	RIGID	Typical
50	MP-8	N104	N105	240	Mount Pipe	None	None	A53 Gr.B	Typical
51	M51	N88	N95		RIGID	None	None	RIGID	Typical
52	MP-9	N97	N90	240	Mount Pipe	None	None	A53 Gr.B	Typical
53	M53	N98	N100		RIGID	None	None	RIGID	Typical
54	MP-7	N102	N103	240	Mount Pipe	None	None	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
1	CP-1	BenPIN	BenPIN	Yes	** NA **	None
2	CP-2	BenPIN	BenPIN	Yes	** NA **	None
3	CP-3	BenPIN	BenPIN	Yes	** NA **	None
4	FF-TH			Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
5	SF1-TH			Yes	** NA **	None
6	SF2-TH			Yes	** NA **	None
7	GSIP-1A	BenPIN	BenPIN	Yes	** NA **	None
8	GSIP-1B	BenPIN	BenPIN	Yes	** NA **	None
9	GSIP-2A	BenPIN	BenPIN	Yes	** NA **	None
10	GSIP-2B	BenPIN	BenPIN	Yes	** NA **	None
11	GSIP-3A	BenPIN	BenPIN	Yes	** NA **	None
12	GSIP-3B	BenPIN	BenPIN	Yes	** NA **	None
13	FF-HR			Yes	** NA **	None
14	SF1-HR			Yes	** NA **	None
15	SF2-HR			Yes	** NA **	None
16	HRC-1			Yes	** NA **	None
17	HRC-2			Yes	** NA **	None
18	HRC-3			Yes	** NA **	None
19	GSI-1A	BenPIN		Yes	** NA **	None
20	GSI-1B		BenPIN	Yes	** NA **	None
21	GSI-2A	BenPIN		Yes	** NA **	None
22	GSI-2B		BenPIN	Yes	** NA **	None
23	GSI-3A	BenPIN		Yes	** NA **	None
24	GSI-3B		BenPIN	Yes	** NA **	None
25	SA-1			Yes	** NA **	None
26	SA-2			Yes	** NA **	None
27	SA-3			Yes	** NA **	None
28	M28			Yes	** NA **	None
29	M29			Yes	** NA **	None
30	MP-2			Yes	** NA **	None
31	M31			Yes	** NA **	None
32	M32			Yes	** NA **	None
33	MP-3			Yes	** NA **	None
34	M34			Yes	** NA **	None
35	M35			Yes	** NA **	None
36	MP-1			Yes	** NA **	None
37	M37			Yes	** NA **	None
38	M38			Yes	** NA **	None
39	M39			Yes	** NA **	None
40	M40			Yes	** NA **	None
41	MP-5			Yes	** NA **	None
42	M42			Yes	** NA **	None
43	MP-6			Yes	** NA **	None
44	M44			Yes	** NA **	None
45	MP-4			Yes	** NA **	None
46	M46			Yes	** NA **	None
47	M47			Yes	** NA **	None
48	M48			Yes	** NA **	None
49	M49			Yes	** NA **	None
50	MP-8			Yes	** NA **	None
51	M51			Yes	** NA **	None
52	MP-9			Yes	** NA **	None
53	M53			Yes	** NA **	None
54	MP-7			Yes	** NA **	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	K y-y	K z-z	Channel Conn.	a [ft]	Function
1	CP-1	Corner Plate	1.034	0.5	0.5	1	1	N/A	N/A	Lateral
2	CP-2	Corner Plate	1.034	0.5	0.5	1	1	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	K y-y	K z-z	Channel Conn.	a [ft]	Function
3	CP-3	Corner Plate	1.034	0.5	0.5	1	1	N/A	N/A	Lateral
4	FF-TH	Face Horiz	12.5	4.091		2.1	2.1	N/A	N/A	Lateral
5	SF1-TH	Face Horiz	12.5	4.091		2.1	2.1	N/A	N/A	Lateral
6	SF2-TH	Face Horiz	12.5	4.091		2.1	2.1	N/A	N/A	Lateral
7	GSIP-1A	Grating Support	4.091			1	1	N/A	N/A	Lateral
8	GSIP-1B	Grating Support	4.091			1	1	N/A	N/A	Lateral
9	GSIP-2A	Grating Support	4.091			1	1	N/A	N/A	Lateral
10	GSIP-2B	Grating Support	4.091			1	1	N/A	N/A	Lateral
11	GSIP-3A	Grating Support	4.091			1	1	N/A	N/A	Lateral
12	GSIP-3B	Grating Support	4.091			1	1	N/A	N/A	Lateral
13	FF-HR	Support Rail	12.5			2.1	2.1	N/A	N/A	Lateral
14	SF1-HR	Support Rail	12.5			2.1	2.1	N/A	N/A	Lateral
15	SF2-HR	Support Rail	12.5			2.1	2.1	N/A	N/A	Lateral
16	HRC-1	Support Rail Connection	1.25			0.65	0.65	N/A	N/A	Lateral
17	HRC-2	Support Rail Connection	1.25			0.65	0.65	N/A	N/A	Lateral
18	HRC-3	Support Rail Connection	1.25			0.65	0.65	N/A	N/A	Lateral
19	GSI-1A	Internal	2.562			0.8	0.8	N/A	N/A	Lateral
20	GSI-1B	Internal	2.562			0.8	0.8	N/A	N/A	Lateral
21	GSI-2A	Internal	2.562			0.8	0.8	N/A	N/A	Lateral
22	GSI-2B	Internal	2.562			0.8	0.8	N/A	N/A	Lateral
23	GSI-3A	Internal	2.562			0.8	0.8	N/A	N/A	Lateral
24	GSI-3B	Internal	2.562			0.8	0.8	N/A	N/A	Lateral
25	SA-1	Support Arm	5.187	3.54		1	1	N/A	N/A	Lateral
26	SA-2	Support Arm	5.187	3.54		1	1	N/A	N/A	Lateral
27	SA-3	Support Arm	5.187	3.54		1	1	N/A	N/A	Lateral
28	MP-2	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
29	MP-3	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
30	MP-1	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
31	MP-5	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
32	MP-6	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
33	MP-4	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
34	MP-8	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
35	MP-9	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral
36	MP-7	Mount Pipe	8	Segment	Segment	2.1	2.1	N/A	N/A	Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
1	Dead	None		-1			24		3
2	0 Wind - No Ice	None					24	36	
3	30 Wind - No Ice	None					48	72	
4	45 Wind - No Ice	None					48	72	
5	60 Wind - No Ice	None					48	72	
6	90 Wind - No Ice	None					24	36	
7	120 Wind - No Ice	None					48	72	
8	135 Wind - No Ice	None					48	72	
9	150 Wind - No Ice	None					48	72	
10	180 Wind - No Ice	None					24	36	
11	210 Wind - No Ice	None					48	72	
12	225 Wind - No Ice	None					48	72	
13	240 Wind - No Ice	None					48	72	
14	270 Wind - No Ice	None					24	36	
15	300 Wind - No Ice	None					48	72	
16	315 Wind - No Ice	None					48	72	
17	330 Wind - No Ice	None					48	72	
18	Ice Weight	None					24	36	3

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
19	0 Wind - Ice	None					24	36	
20	30 Wind - Ice	None					48	72	
21	45 Wind - Ice	None					48	72	
22	60 Wind - Ice	None					48	72	
23	90 Wind - Ice	None					24	36	
24	120 Wind - Ice	None					48	72	
25	135 Wind - Ice	None					48	72	
26	150 Wind - Ice	None					48	72	
27	180 Wind - Ice	None					24	36	
28	210 Wind - Ice	None					48	72	
29	225 Wind - Ice	None					48	72	
30	240 Wind - Ice	None					48	72	
31	270 Wind - Ice	None					24	36	
32	300 Wind - Ice	None					48	72	
33	315 Wind - Ice	None					48	72	
34	330 Wind - Ice	None				1	48	72	
35	Lm	None				1			
36	Lv	None				1			
37	Seismic Load X	ELX	-1				24		
38	Seismic Load Z	ELZ			-1		24		
39	BLC 1 Transient Area Loads	None						54	
40	BLC 18 Transient Area Loads	None						54	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4D	Yes	Y	1	1.4				
2	0.9D+1.0 0-Wind	Yes	Y	1	0.9	2	1		
3	0.9D+1.0 30-Wind	Yes	Y	1	0.9	3	1		
4	0.9D+1.0 45-Wind	Yes	Y	1	0.9	4	1		
5	0.9D+1.0 60-Wind	Yes	Y	1	0.9	5	1		
6	0.9D+1.0 90-Wind	Yes	Y	1	0.9	6	1		
7	0.9D+1.0 120-Wind	Yes	Y	1	0.9	7	1		
8	0.9D+1.0 135-Wind	Yes	Y	1	0.9	8	1		
9	0.9D+1.0 150-Wind	Yes	Y	1	0.9	9	1		
10	0.9D+1.0 180-Wind	Yes	Y	1	0.9	10	1		
11	0.9D+1.0 210-Wind	Yes	Y	1	0.9	11	1		
12	0.9D+1.0 225-Wind	Yes	Y	1	0.9	12	1		
13	0.9D+1.0 240-Wind	Yes	Y	1	0.9	13	1		
14	0.9D+1.0 270-Wind	Yes	Y	1	0.9	14	1		
15	0.9D+1.0 300-Wind	Yes	Y	1	0.9	15	1		
16	0.9D+1.0 315-Wind	Yes	Y	1	0.9	16	1		
17	0.9D+1.0 330-Wind	Yes	Y	1	0.9	17	1		
18	1.2D+1.0 0-Wind	Yes	Y	1	1.2	2	1		
19	1.2D+1.0 30-Wind	Yes	Y	1	1.2	3	1		
20	1.2D+1.0 45-Wind	Yes	Y	1	1.2	4	1		
21	1.2D+1.0 60-Wind	Yes	Y	1	1.2	5	1		
22	1.2D+1.0 90-Wind	Yes	Y	1	1.2	6	1		
23	1.2D+1.0 120-Wind	Yes	Y	1	1.2	7	1		
24	1.2D+1.0 135-Wind	Yes	Y	1	1.2	8	1		
25	1.2D+1.0 150-Wind	Yes	Y	1	1.2	9	1		
26	1.2D+1.0 180-Wind	Yes	Y	1	1.2	10	1		
27	1.2D+1.0 210-Wind	Yes	Y	1	1.2	11	1		
28	1.2D+1.0 225-Wind	Yes	Y	1	1.2	12	1		
29	1.2D+1.0 240-Wind	Yes	Y	1	1.2	13	1		
30	1.2D+1.0 270-Wind	Yes	Y	1	1.2	14	1		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor
31	1.2D+1.0 300-Wind	Yes	Y	1	1.2	15	1		
32	1.2D+1.0 315-Wind	Yes	Y	1	1.2	16	1		
33	1.2D+1.0 330-Wind	Yes	Y	1	1.2	17	1		
34	1.2D+1.0Di+1.0 0-Wind Ice	Yes	Y	1	1.2	18	1	19	1
35	1.2D+1.0Di+1.0 30-Wind Ice	Yes	Y	1	1.2	18	1	20	1
36	1.2D+1.0Di+1.0 45-Wind Ice	Yes	Y	1	1.2	18	1	21	1
37	1.2D+1.0Di+1.0 60-Wind Ice	Yes	Y	1	1.2	18	1	22	1
38	1.2D+1.0Di+1.0 90-Wind Ice	Yes	Y	1	1.2	18	1	23	1
39	1.2D+1.0Di+1.0 120-Wind Ice	Yes	Y	1	1.2	18	1	24	1
40	1.2D+1.0Di+1.0 135-Wind Ice	Yes	Y	1	1.2	18	1	25	1
41	1.2D+1.0Di+1.0 150-Wind Ice	Yes	Y	1	1.2	18	1	26	1
42	1.2D+1.0Di+1.0 180-Wind Ice	Yes	Y	1	1.2	18	1	27	1
43	1.2D+1.0Di+1.0 210-Wind Ice	Yes	Y	1	1.2	18	1	28	1
44	1.2D+1.0Di+1.0 225-Wind Ice	Yes	Y	1	1.2	18	1	29	1
45	1.2D+1.0Di+1.0 240-Wind Ice	Yes	Y	1	1.2	18	1	30	1
46	1.2D+1.0Di+1.0 270-Wind Ice	Yes	Y	1	1.2	18	1	31	1
47	1.2D+1.0Di+1.0 300-Wind Ice	Yes	Y	1	1.2	18	1	32	1
48	1.2D+1.0Di+1.0 315-Wind Ice	Yes	Y	1	1.2	18	1	33	1
49	1.2D+1.0Di+1.0 330-Wind Ice	Yes	Y	1	1.2	18	1	34	1
50	1.2D+1.5Lv	Yes	Y	36	1.5	1	1.2		
51	1.2D+1.5Lm+1.0 0-Wind	Yes	Y	1	1.2	2	0.058	35	1.5
52	1.2D+1.5Lm+1.0 30-Wind	Yes	Y	1	1.2	3	0.058	35	1.5
53	1.2D+1.5Lm+1.0 45-Wind	Yes	Y	1	1.2	4	0.058	35	1.5
54	1.2D+1.5Lm+1.0 60-Wind	Yes	Y	1	1.2	5	0.058	35	1.5
55	1.2D+1.5Lm+1.0 90-Wind	Yes	Y	1	1.2	6	0.058	35	1.5
56	1.2D+1.5Lm+1.0 120-Wind	Yes	Y	1	1.2	7	0.058	35	1.5
57	1.2D+1.5Lm+1.0 135-Wind	Yes	Y	1	1.2	8	0.058	35	1.5
58	1.2D+1.5Lm+1.0 150-Wind	Yes	Y	1	1.2	9	0.058	35	1.5
59	1.2D+1.5Lm+1.0 180-Wind	Yes	Y	1	1.2	10	0.058	35	1.5
60	1.2D+1.5Lm+1.0 210-Wind	Yes	Y	1	1.2	11	0.058	35	1.5
61	1.2D+1.5Lm+1.0 225-Wind	Yes	Y	1	1.2	12	0.058	35	1.5
62	1.2D+1.5Lm+1.0 240-Wind	Yes	Y	1	1.2	13	0.058	35	1.5
63	1.2D+1.5Lm+1.0 270-Wind	Yes	Y	1	1.2	14	0.058	35	1.5
64	1.2D+1.5Lm+1.0 300-Wind	Yes	Y	1	1.2	15	0.058	35	1.5
65	1.2D+1.5Lm+1.0 315-Wind	Yes	Y	1	1.2	16	0.058	35	1.5
66	1.2D+1.5Lm+1.0 330-Wind	Yes	Y	1	1.2	17	0.058	35	1.5
67	(1.2+0.2Sds)D+1.0 0 Seismic	Yes	Y	1	1.2	ELX	0.03		
68	(1.2+0.2Sds)D+1.0 30 Seismic	Yes	Y	1	1.2	ELX	0.026	ELZ	0.015
69	(1.2+0.2Sds)D+1.0 45 Seismic	Yes	Y	1	1.2	ELX	0.021	ELZ	0.021
70	(1.2+0.2Sds)D+1.0 60 Seismic	Yes	Y	1	1.2	ELX	0.015	ELZ	0.026
71	(1.2+0.2Sds)D+1.0 90 Seismic	Yes	Y	1	1.2			ELZ	0.03
72	(1.2+0.2Sds)D+1.0 120 Seismic	Yes	Y	1	1.2	ELX	-0.015	ELZ	0.026
73	(1.2+0.2Sds)D+1.0 135 Seismic	Yes	Y	1	1.2	ELX	-0.021	ELZ	0.021
74	(1.2+0.2Sds)D+1.0 150 Seismic	Yes	Y	1	1.2	ELX	-0.026	ELZ	0.015
75	(1.2+0.2Sds)D+1.0 180 Seismic	Yes	Y	1	1.2	ELX	-0.03		
76	(1.2+0.2Sds)D+1.0 210 Seismic	Yes	Y	1	1.2	ELX	-0.026	ELZ	-0.015
77	(1.2+0.2Sds)D+1.0 225 Seismic	Yes	Y	1	1.2	ELX	-0.021	ELZ	-0.021
78	(1.2+0.2Sds)D+1.0 240 Seismic	Yes	Y	1	1.2	ELX	-0.015	ELZ	-0.026
79	(1.2+0.2Sds)D+1.0 270 Seismic	Yes	Y	1	1.2			ELZ	-0.03
80	(1.2+0.2Sds)D+1.0 300 Seismic	Yes	Y	1	1.2	ELX	0.015	ELZ	-0.026
81	(1.2+0.2Sds)D+1.0 315 Seismic	Yes	Y	1	1.2	ELX	0.021	ELZ	-0.021
82	(1.2+0.2Sds)D+1.0 330 Seismic	Yes	Y	1	1.2	ELX	0.026	ELZ	-0.015
83	(0.9-0.2Sds)*DL+1.0 0 Seismic	Yes	Y	1	0.9	ELX	0.03		
84	(0.9-0.2Sds)*DL+1.0 30 Seismic	Yes	Y	1	0.9	ELX	0.026	ELZ	0.015
85	(0.9-0.2Sds)*DL+1.0 Seismic	Yes	Y	1	0.9	ELX	0.021	ELZ	0.021

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor
86	(0.9-0.2Sds)*DL+1.0 60 Seismic	Yes	Y	1	0.9	ELX	0.015	ELZ	0.026
87	(0.9-0.2Sds)*DL+1.0 90 Seismic	Yes	Y	1	0.9			ELZ	0.03
88	(0.9-0.2Sds)*DL+1.0 120 Seismic	Yes	Y	1	0.9	ELX	-0.015	ELZ	0.026
89	(0.9-0.2Sds)*DL+1.0 135 Seismic	Yes	Y	1	0.9	ELX	-0.021	ELZ	0.021
90	(0.9-0.2Sds)*DL+1.0 150 Seismic	Yes	Y	1	0.9	ELX	-0.026	ELZ	0.015
91	(0.9-0.2Sds)*DL+1.0 180 Seismic	Yes	Y	1	0.9	ELX	-0.03		
92	(0.9-0.2Sds)*DL+1.0 210 Seismic	Yes	Y	1	0.9	ELX	-0.026	ELZ	-0.015
93	(0.9-0.2Sds)*DL+1.0 225 Seismic	Yes	Y	1	0.9	ELX	-0.021	ELZ	-0.021
94	(0.9-0.2Sds)*DL+1.0 240 Seismic	Yes	Y	1	0.9	ELX	-0.015	ELZ	-0.026
95	(0.9-0.2Sds)*DL+1.0 270 Seismic	Yes	Y	1	0.9			ELZ	-0.03
96	(0.9-0.2Sds)*DL+1.0 300 Seismic	Yes	Y	1	0.9	ELX	0.015	ELZ	-0.026
97	(0.9-0.2Sds)*DL+1.0 315 Seismic	Yes	Y	1	0.9	ELX	0.021	ELZ	-0.021
98	(0.9-0.2Sds)*DL+1.0 330 Seismic	Yes	Y	1	0.9	ELX	0.026	ELZ	-0.015

Node Loads and Enforced Displacements (BLC 34 : 330 Wind - Ice)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	FF-2	L	Y	-0.25

Node Loads and Enforced Displacements (BLC 35 : Lm)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	N61	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 36 : Lv)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s²/ft, k*s²*ft)]
1	SF1-1	L	Y	-0.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Y	-0.024	1.5
2	MP-1	Y	-0.109	4
3	MP-2	Y	-0.041	3
4	MP-3	Y	-0.061	0.5
5	MP-3	Y	-0.073	4
6	MP-4	Y	-0.024	1.5
7	MP-4	Y	-0.109	4
8	MP-5	Y	-0.041	3
9	MP-6	Y	-0.061	0.5
10	MP-6	Y	-0.073	4
11	MP-7	Y	-0.024	1.5
12	MP-7	Y	-0.109	4
13	MP-8	Y	-0.041	3
14	MP-9	Y	-0.061	0.5
15	MP-9	Y	-0.073	4
16	MP-1	Y	-0.024	6.5
17	MP-2	Y	-0.041	5
18	MP-3	Y	-0.061	7.5
19	MP-4	Y	-0.024	6.5
20	MP-5	Y	-0.041	5
21	MP-6	Y	-0.061	7.5
22	MP-7	Y	-0.024	6.5

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

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
23	MP-8	Y	-0.041	5
24	MP-9	Y	-0.061	7.5

Member Point Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.105	1.5
2	MP-1	X	-0.087	4
3	MP-2	X	-0.127	3
4	MP-3	X	-0.299	0.5
5	MP-3	X	-0.08	4
6	MP-4	X	-0.059	1.5
7	MP-4	X	-0.073	4
8	MP-5	X	-0.068	3
9	MP-6	X	-0.156	0.5
10	MP-6	X	-0.069	4
11	MP-7	X	-0.059	1.5
12	MP-7	X	-0.073	4
13	MP-8	X	-0.068	3
14	MP-9	X	-0.156	0.5
15	MP-9	X	-0.069	4
16	MP-1	X	-0.105	6.5
17	MP-2	X	-0.127	5
18	MP-3	X	-0.299	7.5
19	MP-4	X	-0.059	6.5
20	MP-5	X	-0.068	5
21	MP-6	X	-0.156	7.5
22	MP-7	X	-0.059	6.5
23	MP-8	X	-0.068	5
24	MP-9	X	-0.156	7.5

Member Point Loads (BLC 3 : 30 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.078	1.5
2	MP-1	X	-0.072	4
3	MP-2	X	-0.093	3
4	MP-3	X	-0.218	0.5
5	MP-3	X	-0.066	4
6	MP-4	X	-0.037	1.5
7	MP-4	X	-0.06	4
8	MP-5	X	-0.041	3
9	MP-6	X	-0.094	0.5
10	MP-6	X	-0.056	4
11	MP-7	X	-0.078	1.5
12	MP-7	X	-0.072	4
13	MP-8	X	-0.093	3
14	MP-9	X	-0.218	0.5
15	MP-9	X	-0.066	4
16	MP-1	X	-0.078	6.5
17	MP-2	X	-0.093	5
18	MP-3	X	-0.218	7.5
19	MP-4	X	-0.037	6.5
20	MP-5	X	-0.041	5
21	MP-6	X	-0.094	7.5

Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
22	MP-7	X	-0.078	6.5
23	MP-8	X	-0.093	5
24	MP-9	X	-0.218	7.5
25	MP-1	Z	-0.045	1.5
26	MP-1	Z	-0.041	4
27	MP-2	Z	-0.054	3
28	MP-3	Z	-0.126	0.5
29	MP-3	Z	-0.038	4
30	MP-4	Z	-0.022	1.5
31	MP-4	Z	-0.034	4
32	MP-5	Z	-0.024	3
33	MP-6	Z	-0.054	0.5
34	MP-6	Z	-0.032	4
35	MP-7	Z	-0.045	1.5
36	MP-7	Z	-0.041	4
37	MP-8	Z	-0.054	3
38	MP-9	Z	-0.126	0.5
39	MP-9	Z	-0.038	4
40	MP-1	Z	-0.045	6.5
41	MP-2	Z	-0.054	5
42	MP-3	Z	-0.126	7.5
43	MP-4	Z	-0.022	6.5
44	MP-5	Z	-0.024	5
45	MP-6	Z	-0.054	7.5
46	MP-7	Z	-0.045	6.5
47	MP-8	Z	-0.054	5
48	MP-9	Z	-0.126	7.5

Member Point Loads (BLC 4 : 45 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.052	1.5
2	MP-1	X	-0.055	4
3	MP-2	X	-0.062	3
4	MP-3	X	-0.144	0.5
5	MP-3	X	-0.051	4
6	MP-4	X	-0.033	1.5
7	MP-4	X	-0.049	4
8	MP-5	X	-0.038	3
9	MP-6	X	-0.086	0.5
10	MP-6	X	-0.046	4
11	MP-7	X	-0.071	1.5
12	MP-7	X	-0.061	4
13	MP-8	X	-0.086	3
14	MP-9	X	-0.202	0.5
15	MP-9	X	-0.056	4
16	MP-1	X	-0.052	6.5
17	MP-2	X	-0.062	5
18	MP-3	X	-0.144	7.5
19	MP-4	X	-0.033	6.5
20	MP-5	X	-0.038	5
21	MP-6	X	-0.086	7.5
22	MP-7	X	-0.071	6.5
23	MP-8	X	-0.086	5
24	MP-9	X	-0.202	7.5
25	MP-1	Z	-0.052	1.5

Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
26	MP-1	Z	-0.055	4
27	MP-2	Z	-0.062	3
28	MP-3	Z	-0.144	0.5
29	MP-3	Z	-0.051	4
30	MP-4	Z	-0.033	1.5
31	MP-4	Z	-0.049	4
32	MP-5	Z	-0.038	3
33	MP-6	Z	-0.086	0.5
34	MP-6	Z	-0.046	4
35	MP-7	Z	-0.071	1.5
36	MP-7	Z	-0.061	4
37	MP-8	Z	-0.086	3
38	MP-9	Z	-0.202	0.5
39	MP-9	Z	-0.056	4
40	MP-1	Z	-0.052	6.5
41	MP-2	Z	-0.062	5
42	MP-3	Z	-0.144	7.5
43	MP-4	Z	-0.033	6.5
44	MP-5	Z	-0.038	5
45	MP-6	Z	-0.086	7.5
46	MP-7	Z	-0.071	6.5
47	MP-8	Z	-0.086	5
48	MP-9	Z	-0.202	7.5

Member Point Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.029	1.5
2	MP-1	X	-0.037	4
3	MP-2	X	-0.034	3
4	MP-3	X	-0.078	0.5
5	MP-3	X	-0.034	4
6	MP-4	X	-0.029	1.5
7	MP-4	X	-0.037	4
8	MP-5	X	-0.034	3
9	MP-6	X	-0.078	0.5
10	MP-6	X	-0.034	4
11	MP-7	X	-0.052	1.5
12	MP-7	X	-0.044	4
13	MP-8	X	-0.064	3
14	MP-9	X	-0.15	0.5
15	MP-9	X	-0.04	4
16	MP-1	X	-0.029	6.5
17	MP-2	X	-0.034	5
18	MP-3	X	-0.078	7.5
19	MP-4	X	-0.029	6.5
20	MP-5	X	-0.034	5
21	MP-6	X	-0.078	7.5
22	MP-7	X	-0.052	6.5
23	MP-8	X	-0.064	5
24	MP-9	X	-0.15	7.5
25	MP-1	Z	-0.051	1.5
26	MP-1	Z	-0.064	4
27	MP-2	Z	-0.059	3
28	MP-3	Z	-0.135	0.5
29	MP-3	Z	-0.059	4

Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
30	MP-4	Z	-0.051	1.5
31	MP-4	Z	-0.064	4
32	MP-5	Z	-0.059	3
33	MP-6	Z	-0.135	0.5
34	MP-6	Z	-0.059	4
35	MP-7	Z	-0.091	1.5
36	MP-7	Z	-0.076	4
37	MP-8	Z	-0.11	3
38	MP-9	Z	-0.259	0.5
39	MP-9	Z	-0.07	4
40	MP-1	Z	-0.051	6.5
41	MP-2	Z	-0.059	5
42	MP-3	Z	-0.135	7.5
43	MP-4	Z	-0.051	6.5
44	MP-5	Z	-0.059	5
45	MP-6	Z	-0.135	7.5
46	MP-7	Z	-0.091	6.5
47	MP-8	Z	-0.11	5
48	MP-9	Z	-0.259	7.5

Member Point Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Z	-0.043	1.5
2	MP-1	Z	-0.069	4
3	MP-2	Z	-0.048	3
4	MP-3	Z	-0.108	0.5
5	MP-3	Z	-0.065	4
6	MP-4	Z	-0.09	1.5
7	MP-4	Z	-0.083	4
8	MP-5	Z	-0.107	3
9	MP-6	Z	-0.251	0.5
10	MP-6	Z	-0.076	4
11	MP-7	Z	-0.09	1.5
12	MP-7	Z	-0.083	4
13	MP-8	Z	-0.107	3
14	MP-9	Z	-0.251	0.5
15	MP-9	Z	-0.076	4
16	MP-1	Z	-0.043	6.5
17	MP-2	Z	-0.048	5
18	MP-3	Z	-0.108	7.5
19	MP-4	Z	-0.09	6.5
20	MP-5	Z	-0.107	5
21	MP-6	Z	-0.251	7.5
22	MP-7	Z	-0.09	6.5
23	MP-8	Z	-0.107	5
24	MP-9	Z	-0.251	7.5

Member Point Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.029	1.5
2	MP-1	X	0.037	4
3	MP-2	X	0.034	3
4	MP-3	X	0.078	0.5

Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
5	MP-3	X	0.034	4
6	MP-4	X	0.052	1.5
7	MP-4	X	0.044	4
8	MP-5	X	0.064	3
9	MP-6	X	0.15	0.5
10	MP-6	X	0.04	4
11	MP-7	X	0.029	1.5
12	MP-7	X	0.037	4
13	MP-8	X	0.034	3
14	MP-9	X	0.078	0.5
15	MP-9	X	0.034	4
16	MP-1	X	0.029	6.5
17	MP-2	X	0.034	5
18	MP-3	X	0.078	7.5
19	MP-4	X	0.052	6.5
20	MP-5	X	0.064	5
21	MP-6	X	0.15	7.5
22	MP-7	X	0.029	6.5
23	MP-8	X	0.034	5
24	MP-9	X	0.078	7.5
25	MP-1	Z	-0.051	1.5
26	MP-1	Z	-0.064	4
27	MP-2	Z	-0.059	3
28	MP-3	Z	-0.135	0.5
29	MP-3	Z	-0.059	4
30	MP-4	Z	-0.091	1.5
31	MP-4	Z	-0.076	4
32	MP-5	Z	-0.11	3
33	MP-6	Z	-0.259	0.5
34	MP-6	Z	-0.07	4
35	MP-7	Z	-0.051	1.5
36	MP-7	Z	-0.064	4
37	MP-8	Z	-0.059	3
38	MP-9	Z	-0.135	0.5
39	MP-9	Z	-0.059	4
40	MP-1	Z	-0.051	6.5
41	MP-2	Z	-0.059	5
42	MP-3	Z	-0.135	7.5
43	MP-4	Z	-0.091	6.5
44	MP-5	Z	-0.11	5
45	MP-6	Z	-0.259	7.5
46	MP-7	Z	-0.051	6.5
47	MP-8	Z	-0.059	5
48	MP-9	Z	-0.135	7.5

Member Point Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.052	1.5
2	MP-1	X	0.055	4
3	MP-2	X	0.062	3
4	MP-3	X	0.144	0.5
5	MP-3	X	0.051	4
6	MP-4	X	0.071	1.5
7	MP-4	X	0.061	4
8	MP-5	X	0.086	3

Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
9	MP-6	X	0.202	0.5
10	MP-6	X	0.056	4
11	MP-7	X	0.033	1.5
12	MP-7	X	0.049	4
13	MP-8	X	0.038	3
14	MP-9	X	0.086	0.5
15	MP-9	X	0.046	4
16	MP-1	X	0.052	6.5
17	MP-2	X	0.062	5
18	MP-3	X	0.144	7.5
19	MP-4	X	0.071	6.5
20	MP-5	X	0.086	5
21	MP-6	X	0.202	7.5
22	MP-7	X	0.033	6.5
23	MP-8	X	0.038	5
24	MP-9	X	0.086	7.5
25	MP-1	Z	-0.052	1.5
26	MP-1	Z	-0.055	4
27	MP-2	Z	-0.062	3
28	MP-3	Z	-0.144	0.5
29	MP-3	Z	-0.051	4
30	MP-4	Z	-0.071	1.5
31	MP-4	Z	-0.061	4
32	MP-5	Z	-0.086	3
33	MP-6	Z	-0.202	0.5
34	MP-6	Z	-0.056	4
35	MP-7	Z	-0.033	1.5
36	MP-7	Z	-0.049	4
37	MP-8	Z	-0.038	3
38	MP-9	Z	-0.086	0.5
39	MP-9	Z	-0.046	4
40	MP-1	Z	-0.052	6.5
41	MP-2	Z	-0.062	5
42	MP-3	Z	-0.144	7.5
43	MP-4	Z	-0.071	6.5
44	MP-5	Z	-0.086	5
45	MP-6	Z	-0.202	7.5
46	MP-7	Z	-0.033	6.5
47	MP-8	Z	-0.038	5
48	MP-9	Z	-0.086	7.5

Member Point Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.078	1.5
2	MP-1	X	0.072	4
3	MP-2	X	0.093	3
4	MP-3	X	0.218	0.5
5	MP-3	X	0.066	4
6	MP-4	X	0.078	1.5
7	MP-4	X	0.072	4
8	MP-5	X	0.093	3
9	MP-6	X	0.218	0.5
10	MP-6	X	0.066	4
11	MP-7	X	0.037	1.5
12	MP-7	X	0.06	4

Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
13	MP-8	X	0.041	3
14	MP-9	X	0.094	0.5
15	MP-9	X	0.056	4
16	MP-1	X	0.078	6.5
17	MP-2	X	0.093	5
18	MP-3	X	0.218	7.5
19	MP-4	X	0.078	6.5
20	MP-5	X	0.093	5
21	MP-6	X	0.218	7.5
22	MP-7	X	0.037	6.5
23	MP-8	X	0.041	5
24	MP-9	X	0.094	7.5
25	MP-1	Z	-0.045	1.5
26	MP-1	Z	-0.041	4
27	MP-2	Z	-0.054	3
28	MP-3	Z	-0.126	0.5
29	MP-3	Z	-0.038	4
30	MP-4	Z	-0.045	1.5
31	MP-4	Z	-0.041	4
32	MP-5	Z	-0.054	3
33	MP-6	Z	-0.126	0.5
34	MP-6	Z	-0.038	4
35	MP-7	Z	-0.022	1.5
36	MP-7	Z	-0.034	4
37	MP-8	Z	-0.024	3
38	MP-9	Z	-0.054	0.5
39	MP-9	Z	-0.032	4
40	MP-1	Z	-0.045	6.5
41	MP-2	Z	-0.054	5
42	MP-3	Z	-0.126	7.5
43	MP-4	Z	-0.045	6.5
44	MP-5	Z	-0.054	5
45	MP-6	Z	-0.126	7.5
46	MP-7	Z	-0.022	6.5
47	MP-8	Z	-0.024	5
48	MP-9	Z	-0.054	7.5

Member Point Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.105	1.5
2	MP-1	X	0.087	4
3	MP-2	X	0.127	3
4	MP-3	X	0.299	0.5
5	MP-3	X	0.08	4
6	MP-4	X	0.059	1.5
7	MP-4	X	0.073	4
8	MP-5	X	0.068	3
9	MP-6	X	0.156	0.5
10	MP-6	X	0.069	4
11	MP-7	X	0.059	1.5
12	MP-7	X	0.073	4
13	MP-8	X	0.068	3
14	MP-9	X	0.156	0.5
15	MP-9	X	0.069	4
16	MP-1	X	0.105	6.5

Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
17	MP-2	X	0.127	5
18	MP-3	X	0.299	7.5
19	MP-4	X	0.059	6.5
20	MP-5	X	0.068	5
21	MP-6	X	0.156	7.5
22	MP-7	X	0.059	6.5
23	MP-8	X	0.068	5
24	MP-9	X	0.156	7.5

Member Point Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.078	1.5
2	MP-1	X	0.072	4
3	MP-2	X	0.093	3
4	MP-3	X	0.218	0.5
5	MP-3	X	0.066	4
6	MP-4	X	0.037	1.5
7	MP-4	X	0.06	4
8	MP-5	X	0.041	3
9	MP-6	X	0.094	0.5
10	MP-6	X	0.056	4
11	MP-7	X	0.078	1.5
12	MP-7	X	0.072	4
13	MP-8	X	0.093	3
14	MP-9	X	0.218	0.5
15	MP-9	X	0.066	4
16	MP-1	X	0.078	6.5
17	MP-2	X	0.093	5
18	MP-3	X	0.218	7.5
19	MP-4	X	0.037	6.5
20	MP-5	X	0.041	5
21	MP-6	X	0.094	7.5
22	MP-7	X	0.078	6.5
23	MP-8	X	0.093	5
24	MP-9	X	0.218	7.5
25	MP-1	Z	0.045	1.5
26	MP-1	Z	0.041	4
27	MP-2	Z	0.054	3
28	MP-3	Z	0.126	0.5
29	MP-3	Z	0.038	4
30	MP-4	Z	0.022	1.5
31	MP-4	Z	0.034	4
32	MP-5	Z	0.024	3
33	MP-6	Z	0.054	0.5
34	MP-6	Z	0.032	4
35	MP-7	Z	0.045	1.5
36	MP-7	Z	0.041	4
37	MP-8	Z	0.054	3
38	MP-9	Z	0.126	0.5
39	MP-9	Z	0.038	4
40	MP-1	Z	0.045	6.5
41	MP-2	Z	0.054	5
42	MP-3	Z	0.126	7.5
43	MP-4	Z	0.022	6.5
44	MP-5	Z	0.024	5

Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
45	MP-6	Z	0.054	7.5
46	MP-7	Z	0.045	6.5
47	MP-8	Z	0.054	5
48	MP-9	Z	0.126	7.5

Member Point Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.052	1.5
2	MP-1	X	0.055	4
3	MP-2	X	0.062	3
4	MP-3	X	0.144	0.5
5	MP-3	X	0.051	4
6	MP-4	X	0.033	1.5
7	MP-4	X	0.049	4
8	MP-5	X	0.038	3
9	MP-6	X	0.086	0.5
10	MP-6	X	0.046	4
11	MP-7	X	0.071	1.5
12	MP-7	X	0.061	4
13	MP-8	X	0.086	3
14	MP-9	X	0.202	0.5
15	MP-9	X	0.056	4
16	MP-1	X	0.052	6.5
17	MP-2	X	0.062	5
18	MP-3	X	0.144	7.5
19	MP-4	X	0.033	6.5
20	MP-5	X	0.038	5
21	MP-6	X	0.086	7.5
22	MP-7	X	0.071	6.5
23	MP-8	X	0.086	5
24	MP-9	X	0.202	7.5
25	MP-1	Z	0.052	1.5
26	MP-1	Z	0.055	4
27	MP-2	Z	0.062	3
28	MP-3	Z	0.144	0.5
29	MP-3	Z	0.051	4
30	MP-4	Z	0.033	1.5
31	MP-4	Z	0.049	4
32	MP-5	Z	0.038	3
33	MP-6	Z	0.086	0.5
34	MP-6	Z	0.046	4
35	MP-7	Z	0.071	1.5
36	MP-7	Z	0.061	4
37	MP-8	Z	0.086	3
38	MP-9	Z	0.202	0.5
39	MP-9	Z	0.056	4
40	MP-1	Z	0.052	6.5
41	MP-2	Z	0.062	5
42	MP-3	Z	0.144	7.5
43	MP-4	Z	0.033	6.5
44	MP-5	Z	0.038	5
45	MP-6	Z	0.086	7.5
46	MP-7	Z	0.071	6.5
47	MP-8	Z	0.086	5
48	MP-9	Z	0.202	7.5

Member Point Loads (BLC 13 : 240 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.029	1.5
2	MP-1	X	0.037	4
3	MP-2	X	0.034	3
4	MP-3	X	0.078	0.5
5	MP-3	X	0.034	4
6	MP-4	X	0.029	1.5
7	MP-4	X	0.037	4
8	MP-5	X	0.034	3
9	MP-6	X	0.078	0.5
10	MP-6	X	0.034	4
11	MP-7	X	0.052	1.5
12	MP-7	X	0.044	4
13	MP-8	X	0.064	3
14	MP-9	X	0.15	0.5
15	MP-9	X	0.04	4
16	MP-1	X	0.029	6.5
17	MP-2	X	0.034	5
18	MP-3	X	0.078	7.5
19	MP-4	X	0.029	6.5
20	MP-5	X	0.034	5
21	MP-6	X	0.078	7.5
22	MP-7	X	0.052	6.5
23	MP-8	X	0.064	5
24	MP-9	X	0.15	7.5
25	MP-1	Z	0.051	1.5
26	MP-1	Z	0.064	4
27	MP-2	Z	0.059	3
28	MP-3	Z	0.135	0.5
29	MP-3	Z	0.059	4
30	MP-4	Z	0.051	1.5
31	MP-4	Z	0.064	4
32	MP-5	Z	0.059	3
33	MP-6	Z	0.135	0.5
34	MP-6	Z	0.059	4
35	MP-7	Z	0.091	1.5
36	MP-7	Z	0.076	4
37	MP-8	Z	0.11	3
38	MP-9	Z	0.259	0.5
39	MP-9	Z	0.07	4
40	MP-1	Z	0.051	6.5
41	MP-2	Z	0.059	5
42	MP-3	Z	0.135	7.5
43	MP-4	Z	0.051	6.5
44	MP-5	Z	0.059	5
45	MP-6	Z	0.135	7.5
46	MP-7	Z	0.091	6.5
47	MP-8	Z	0.11	5
48	MP-9	Z	0.259	7.5

Member Point Loads (BLC 14 : 270 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Z	0.043	1.5
2	MP-1	Z	0.069	4
3	MP-2	Z	0.048	3

Member Point Loads (BLC 14 : 270 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
4	MP-3	Z	0.108	0.5
5	MP-3	Z	0.065	4
6	MP-4	Z	0.09	1.5
7	MP-4	Z	0.083	4
8	MP-5	Z	0.107	3
9	MP-6	Z	0.251	0.5
10	MP-6	Z	0.076	4
11	MP-7	Z	0.09	1.5
12	MP-7	Z	0.083	4
13	MP-8	Z	0.107	3
14	MP-9	Z	0.251	0.5
15	MP-9	Z	0.076	4
16	MP-1	Z	0.043	6.5
17	MP-2	Z	0.048	5
18	MP-3	Z	0.108	7.5
19	MP-4	Z	0.09	6.5
20	MP-5	Z	0.107	5
21	MP-6	Z	0.251	7.5
22	MP-7	Z	0.09	6.5
23	MP-8	Z	0.107	5
24	MP-9	Z	0.251	7.5

Member Point Loads (BLC 15 : 300 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.029	1.5
2	MP-1	X	-0.037	4
3	MP-2	X	-0.034	3
4	MP-3	X	-0.078	0.5
5	MP-3	X	-0.034	4
6	MP-4	X	-0.052	1.5
7	MP-4	X	-0.044	4
8	MP-5	X	-0.064	3
9	MP-6	X	-0.15	0.5
10	MP-6	X	-0.04	4
11	MP-7	X	-0.029	1.5
12	MP-7	X	-0.037	4
13	MP-8	X	-0.034	3
14	MP-9	X	-0.078	0.5
15	MP-9	X	-0.034	4
16	MP-1	X	-0.029	6.5
17	MP-2	X	-0.034	5
18	MP-3	X	-0.078	7.5
19	MP-4	X	-0.052	6.5
20	MP-5	X	-0.064	5
21	MP-6	X	-0.15	7.5
22	MP-7	X	-0.029	6.5
23	MP-8	X	-0.034	5
24	MP-9	X	-0.078	7.5
25	MP-1	Z	0.051	1.5
26	MP-1	Z	0.064	4
27	MP-2	Z	0.059	3
28	MP-3	Z	0.135	0.5
29	MP-3	Z	0.059	4
30	MP-4	Z	0.091	1.5
31	MP-4	Z	0.076	4

Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
32	MP-5	Z	0.11	3
33	MP-6	Z	0.259	0.5
34	MP-6	Z	0.07	4
35	MP-7	Z	0.051	1.5
36	MP-7	Z	0.064	4
37	MP-8	Z	0.059	3
38	MP-9	Z	0.135	0.5
39	MP-9	Z	0.059	4
40	MP-1	Z	0.051	6.5
41	MP-2	Z	0.059	5
42	MP-3	Z	0.135	7.5
43	MP-4	Z	0.091	6.5
44	MP-5	Z	0.11	5
45	MP-6	Z	0.259	7.5
46	MP-7	Z	0.051	6.5
47	MP-8	Z	0.059	5
48	MP-9	Z	0.135	7.5

Member Point Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.052	1.5
2	MP-1	X	-0.055	4
3	MP-2	X	-0.062	3
4	MP-3	X	-0.144	0.5
5	MP-3	X	-0.051	4
6	MP-4	X	-0.071	1.5
7	MP-4	X	-0.061	4
8	MP-5	X	-0.086	3
9	MP-6	X	-0.202	0.5
10	MP-6	X	-0.056	4
11	MP-7	X	-0.033	1.5
12	MP-7	X	-0.049	4
13	MP-8	X	-0.038	3
14	MP-9	X	-0.086	0.5
15	MP-9	X	-0.046	4
16	MP-1	X	-0.052	6.5
17	MP-2	X	-0.062	5
18	MP-3	X	-0.144	7.5
19	MP-4	X	-0.071	6.5
20	MP-5	X	-0.086	5
21	MP-6	X	-0.202	7.5
22	MP-7	X	-0.033	6.5
23	MP-8	X	-0.038	5
24	MP-9	X	-0.086	7.5
25	MP-1	Z	0.052	1.5
26	MP-1	Z	0.055	4
27	MP-2	Z	0.062	3
28	MP-3	Z	0.144	0.5
29	MP-3	Z	0.051	4
30	MP-4	Z	0.071	1.5
31	MP-4	Z	0.061	4
32	MP-5	Z	0.086	3
33	MP-6	Z	0.202	0.5
34	MP-6	Z	0.056	4
35	MP-7	Z	0.033	1.5

Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
36	MP-7	Z	0.049	4
37	MP-8	Z	0.038	3
38	MP-9	Z	0.086	0.5
39	MP-9	Z	0.046	4
40	MP-1	Z	0.052	6.5
41	MP-2	Z	0.062	5
42	MP-3	Z	0.144	7.5
43	MP-4	Z	0.071	6.5
44	MP-5	Z	0.086	5
45	MP-6	Z	0.202	7.5
46	MP-7	Z	0.033	6.5
47	MP-8	Z	0.038	5
48	MP-9	Z	0.086	7.5

Member Point Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.078	1.5
2	MP-1	X	-0.072	4
3	MP-2	X	-0.093	3
4	MP-3	X	-0.218	0.5
5	MP-3	X	-0.066	4
6	MP-4	X	-0.078	1.5
7	MP-4	X	-0.072	4
8	MP-5	X	-0.093	3
9	MP-6	X	-0.218	0.5
10	MP-6	X	-0.066	4
11	MP-7	X	-0.037	1.5
12	MP-7	X	-0.06	4
13	MP-8	X	-0.041	3
14	MP-9	X	-0.094	0.5
15	MP-9	X	-0.056	4
16	MP-1	X	-0.078	6.5
17	MP-2	X	-0.093	5
18	MP-3	X	-0.218	7.5
19	MP-4	X	-0.078	6.5
20	MP-5	X	-0.093	5
21	MP-6	X	-0.218	7.5
22	MP-7	X	-0.037	6.5
23	MP-8	X	-0.041	5
24	MP-9	X	-0.094	7.5
25	MP-1	Z	0.045	1.5
26	MP-1	Z	0.041	4
27	MP-2	Z	0.054	3
28	MP-3	Z	0.126	0.5
29	MP-3	Z	0.038	4
30	MP-4	Z	0.045	1.5
31	MP-4	Z	0.041	4
32	MP-5	Z	0.054	3
33	MP-6	Z	0.126	0.5
34	MP-6	Z	0.038	4
35	MP-7	Z	0.022	1.5
36	MP-7	Z	0.034	4
37	MP-8	Z	0.024	3
38	MP-9	Z	0.054	0.5
39	MP-9	Z	0.032	4

Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
40	MP-1	Z	0.045	6.5
41	MP-2	Z	0.054	5
42	MP-3	Z	0.126	7.5
43	MP-4	Z	0.045	6.5
44	MP-5	Z	0.054	5
45	MP-6	Z	0.126	7.5
46	MP-7	Z	0.022	6.5
47	MP-8	Z	0.024	5
48	MP-9	Z	0.054	7.5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Y	-0.055	1.5
2	MP-1	Y	-0.056	4
3	MP-2	Y	-0.048	3
4	MP-3	Y	-0.136	0.5
5	MP-3	Y	-0.05	4
6	MP-4	Y	-0.055	1.5
7	MP-4	Y	-0.056	4
8	MP-5	Y	-0.048	3
9	MP-6	Y	-0.136	0.5
10	MP-6	Y	-0.05	4
11	MP-7	Y	-0.055	1.5
12	MP-7	Y	-0.056	4
13	MP-8	Y	-0.048	3
14	MP-9	Y	-0.136	0.5
15	MP-9	Y	-0.05	4
16	MP-1	Y	-0.055	6.5
17	MP-2	Y	-0.048	5
18	MP-3	Y	-0.136	7.5
19	MP-4	Y	-0.055	6.5
20	MP-5	Y	-0.048	5
21	MP-6	Y	-0.136	7.5
22	MP-7	Y	-0.055	6.5
23	MP-8	Y	-0.048	5
24	MP-9	Y	-0.136	7.5

Member Point Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.018	1.5
2	MP-1	X	-0.017	4
3	MP-2	X	-0.022	3
4	MP-3	X	-0.048	0.5
5	MP-3	X	-0.016	4
6	MP-4	X	-0.018	1.5
7	MP-4	X	-0.017	4
8	MP-5	X	-0.022	3
9	MP-6	X	-0.048	0.5
10	MP-6	X	-0.016	4
11	MP-7	X	-0.018	1.5
12	MP-7	X	-0.017	4
13	MP-8	X	-0.022	3
14	MP-9	X	-0.048	0.5

Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
15	MP-9	X	-0.016	4
16	MP-1	X	-0.018	6.5
17	MP-2	X	-0.022	5
18	MP-3	X	-0.048	7.5
19	MP-4	X	-0.018	6.5
20	MP-5	X	-0.022	5
21	MP-6	X	-0.048	7.5
22	MP-7	X	-0.018	6.5
23	MP-8	X	-0.022	5
24	MP-9	X	-0.048	7.5

Member Point Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.014	1.5
2	MP-1	X	-0.014	4
3	MP-2	X	-0.016	3
4	MP-3	X	-0.036	0.5
5	MP-3	X	-0.013	4
6	MP-4	X	-0.008	1.5
7	MP-4	X	-0.012	4
8	MP-5	X	-0.008	3
9	MP-6	X	-0.017	0.5
10	MP-6	X	-0.011	4
11	MP-7	X	-0.014	1.5
12	MP-7	X	-0.014	4
13	MP-8	X	-0.016	3
14	MP-9	X	-0.036	0.5
15	MP-9	X	-0.013	4
16	MP-1	X	-0.014	6.5
17	MP-2	X	-0.016	5
18	MP-3	X	-0.036	7.5
19	MP-4	X	-0.008	6.5
20	MP-5	X	-0.008	5
21	MP-6	X	-0.017	7.5
22	MP-7	X	-0.014	6.5
23	MP-8	X	-0.016	5
24	MP-9	X	-0.036	7.5
25	MP-1	Z	-0.008	1.5
26	MP-1	Z	-0.008	4
27	MP-2	Z	-0.009	3
28	MP-3	Z	-0.021	0.5
29	MP-3	Z	-0.007	4
30	MP-4	Z	-0.005	1.5
31	MP-4	Z	-0.007	4
32	MP-5	Z	-0.005	3
33	MP-6	Z	-0.01	0.5
34	MP-6	Z	-0.006	4
35	MP-7	Z	-0.008	1.5
36	MP-7	Z	-0.008	4
37	MP-8	Z	-0.009	3
38	MP-9	Z	-0.021	0.5
39	MP-9	Z	-0.007	4
40	MP-1	Z	-0.008	6.5
41	MP-2	Z	-0.009	5
42	MP-3	Z	-0.021	7.5

Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
43	MP-4	Z	-0.005	6.5
44	MP-5	Z	-0.005	5
45	MP-6	Z	-0.01	7.5
46	MP-7	Z	-0.008	6.5
47	MP-8	Z	-0.009	5
48	MP-9	Z	-0.021	7.5

Member Point Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.01	1.5
2	MP-1	X	-0.011	4
3	MP-2	X	-0.011	3
4	MP-3	X	-0.024	0.5
5	MP-3	X	-0.01	4
6	MP-4	X	-0.007	1.5
7	MP-4	X	-0.01	4
8	MP-5	X	-0.007	3
9	MP-6	X	-0.015	0.5
10	MP-6	X	-0.009	4
11	MP-7	X	-0.013	1.5
12	MP-7	X	-0.012	4
13	MP-8	X	-0.015	3
14	MP-9	X	-0.033	0.5
15	MP-9	X	-0.011	4
16	MP-1	X	-0.01	6.5
17	MP-2	X	-0.011	5
18	MP-3	X	-0.024	7.5
19	MP-4	X	-0.007	6.5
20	MP-5	X	-0.007	5
21	MP-6	X	-0.015	7.5
22	MP-7	X	-0.013	6.5
23	MP-8	X	-0.015	5
24	MP-9	X	-0.033	7.5
25	MP-1	Z	-0.01	1.5
26	MP-1	Z	-0.011	4
27	MP-2	Z	-0.011	3
28	MP-3	Z	-0.024	0.5
29	MP-3	Z	-0.01	4
30	MP-4	Z	-0.007	1.5
31	MP-4	Z	-0.01	4
32	MP-5	Z	-0.007	3
33	MP-6	Z	-0.015	0.5
34	MP-6	Z	-0.009	4
35	MP-7	Z	-0.013	1.5
36	MP-7	Z	-0.012	4
37	MP-8	Z	-0.015	3
38	MP-9	Z	-0.033	0.5
39	MP-9	Z	-0.011	4
40	MP-1	Z	-0.01	6.5
41	MP-2	Z	-0.011	5
42	MP-3	Z	-0.024	7.5
43	MP-4	Z	-0.007	6.5
44	MP-5	Z	-0.007	5
45	MP-6	Z	-0.015	7.5
46	MP-7	Z	-0.013	6.5

Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
47	MP-8	Z	-0.015	5
48	MP-9	Z	-0.033	7.5

Member Point Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.006	1.5
2	MP-1	X	-0.007	4
3	MP-2	X	-0.006	3
4	MP-3	X	-0.013	0.5
5	MP-3	X	-0.007	4
6	MP-4	X	-0.006	1.5
7	MP-4	X	-0.007	4
8	MP-5	X	-0.006	3
9	MP-6	X	-0.013	0.5
10	MP-6	X	-0.007	4
11	MP-7	X	-0.009	1.5
12	MP-7	X	-0.008	4
13	MP-8	X	-0.011	3
14	MP-9	X	-0.024	0.5
15	MP-9	X	-0.008	4
16	MP-1	X	-0.006	6.5
17	MP-2	X	-0.006	5
18	MP-3	X	-0.013	7.5
19	MP-4	X	-0.006	6.5
20	MP-5	X	-0.006	5
21	MP-6	X	-0.013	7.5
22	MP-7	X	-0.009	6.5
23	MP-8	X	-0.011	5
24	MP-9	X	-0.024	7.5
25	MP-1	Z	-0.01	1.5
26	MP-1	Z	-0.012	4
27	MP-2	Z	-0.011	3
28	MP-3	Z	-0.023	0.5
29	MP-3	Z	-0.012	4
30	MP-4	Z	-0.01	1.5
31	MP-4	Z	-0.012	4
32	MP-5	Z	-0.011	3
33	MP-6	Z	-0.023	0.5
34	MP-6	Z	-0.012	4
35	MP-7	Z	-0.016	1.5
36	MP-7	Z	-0.014	4
37	MP-8	Z	-0.019	3
38	MP-9	Z	-0.042	0.5
39	MP-9	Z	-0.013	4
40	MP-1	Z	-0.01	6.5
41	MP-2	Z	-0.011	5
42	MP-3	Z	-0.023	7.5
43	MP-4	Z	-0.01	6.5
44	MP-5	Z	-0.011	5
45	MP-6	Z	-0.023	7.5
46	MP-7	Z	-0.016	6.5
47	MP-8	Z	-0.019	5
48	MP-9	Z	-0.042	7.5

Member Point Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Z	-0.009	1.5
2	MP-1	Z	-0.014	4
3	MP-2	Z	-0.009	3
4	MP-3	Z	-0.02	0.5
5	MP-3	Z	-0.013	4
6	MP-4	Z	-0.009	1.5
7	MP-4	Z	-0.014	4
8	MP-5	Z	-0.009	3
9	MP-6	Z	-0.02	0.5
10	MP-6	Z	-0.013	4
11	MP-7	Z	-0.009	1.5
12	MP-7	Z	-0.014	4
13	MP-8	Z	-0.009	3
14	MP-9	Z	-0.02	0.5
15	MP-9	Z	-0.013	4
16	MP-1	Z	-0.009	6.5
17	MP-2	Z	-0.009	5
18	MP-3	Z	-0.02	7.5
19	MP-4	Z	-0.009	6.5
20	MP-5	Z	-0.009	5
21	MP-6	Z	-0.02	7.5
22	MP-7	Z	-0.009	6.5
23	MP-8	Z	-0.009	5
24	MP-9	Z	-0.02	7.5

Member Point Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.006	1.5
2	MP-1	X	0.007	4
3	MP-2	X	0.006	3
4	MP-3	X	0.013	0.5
5	MP-3	X	0.007	4
6	MP-4	X	0.009	1.5
7	MP-4	X	0.008	4
8	MP-5	X	0.011	3
9	MP-6	X	0.024	0.5
10	MP-6	X	0.008	4
11	MP-7	X	0.006	1.5
12	MP-7	X	0.007	4
13	MP-8	X	0.006	3
14	MP-9	X	0.013	0.5
15	MP-9	X	0.007	4
16	MP-1	X	0.006	6.5
17	MP-2	X	0.006	5
18	MP-3	X	0.013	7.5
19	MP-4	X	0.009	6.5
20	MP-5	X	0.011	5
21	MP-6	X	0.024	7.5
22	MP-7	X	0.006	6.5
23	MP-8	X	0.006	5
24	MP-9	X	0.013	7.5
25	MP-1	Z	-0.01	1.5
26	MP-1	Z	-0.012	4
27	MP-2	Z	-0.011	3

Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
28	MP-3	Z	-0.023	0.5
29	MP-3	Z	-0.012	4
30	MP-4	Z	-0.016	1.5
31	MP-4	Z	-0.014	4
32	MP-5	Z	-0.019	3
33	MP-6	Z	-0.042	0.5
34	MP-6	Z	-0.013	4
35	MP-7	Z	-0.01	1.5
36	MP-7	Z	-0.012	4
37	MP-8	Z	-0.011	3
38	MP-9	Z	-0.023	0.5
39	MP-9	Z	-0.012	4
40	MP-1	Z	-0.01	6.5
41	MP-2	Z	-0.011	5
42	MP-3	Z	-0.023	7.5
43	MP-4	Z	-0.016	6.5
44	MP-5	Z	-0.019	5
45	MP-6	Z	-0.042	7.5
46	MP-7	Z	-0.01	6.5
47	MP-8	Z	-0.011	5
48	MP-9	Z	-0.023	7.5

Member Point Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.01	1.5
2	MP-1	X	0.011	4
3	MP-2	X	0.011	3
4	MP-3	X	0.024	0.5
5	MP-3	X	0.01	4
6	MP-4	X	0.013	1.5
7	MP-4	X	0.012	4
8	MP-5	X	0.015	3
9	MP-6	X	0.033	0.5
10	MP-6	X	0.011	4
11	MP-7	X	0.007	1.5
12	MP-7	X	0.01	4
13	MP-8	X	0.007	3
14	MP-9	X	0.015	0.5
15	MP-9	X	0.009	4
16	MP-1	X	0.01	6.5
17	MP-2	X	0.011	5
18	MP-3	X	0.024	7.5
19	MP-4	X	0.013	6.5
20	MP-5	X	0.015	5
21	MP-6	X	0.033	7.5
22	MP-7	X	0.007	6.5
23	MP-8	X	0.007	5
24	MP-9	X	0.015	7.5
25	MP-1	Z	-0.01	1.5
26	MP-1	Z	-0.011	4
27	MP-2	Z	-0.011	3
28	MP-3	Z	-0.024	0.5
29	MP-3	Z	-0.01	4
30	MP-4	Z	-0.013	1.5
31	MP-4	Z	-0.012	4

Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
32	MP-5	Z	-0.015	3
33	MP-6	Z	-0.033	0.5
34	MP-6	Z	-0.011	4
35	MP-7	Z	-0.007	1.5
36	MP-7	Z	-0.01	4
37	MP-8	Z	-0.007	3
38	MP-9	Z	-0.015	0.5
39	MP-9	Z	-0.009	4
40	MP-1	Z	-0.01	6.5
41	MP-2	Z	-0.011	5
42	MP-3	Z	-0.024	7.5
43	MP-4	Z	-0.013	6.5
44	MP-5	Z	-0.015	5
45	MP-6	Z	-0.033	7.5
46	MP-7	Z	-0.007	6.5
47	MP-8	Z	-0.007	5
48	MP-9	Z	-0.015	7.5

Member Point Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.014	1.5
2	MP-1	X	0.014	4
3	MP-2	X	0.016	3
4	MP-3	X	0.036	0.5
5	MP-3	X	0.013	4
6	MP-4	X	0.014	1.5
7	MP-4	X	0.014	4
8	MP-5	X	0.016	3
9	MP-6	X	0.036	0.5
10	MP-6	X	0.013	4
11	MP-7	X	0.008	1.5
12	MP-7	X	0.012	4
13	MP-8	X	0.008	3
14	MP-9	X	0.017	0.5
15	MP-9	X	0.011	4
16	MP-1	X	0.014	6.5
17	MP-2	X	0.016	5
18	MP-3	X	0.036	7.5
19	MP-4	X	0.014	6.5
20	MP-5	X	0.016	5
21	MP-6	X	0.036	7.5
22	MP-7	X	0.008	6.5
23	MP-8	X	0.008	5
24	MP-9	X	0.017	7.5
25	MP-1	Z	-0.008	1.5
26	MP-1	Z	-0.008	4
27	MP-2	Z	-0.009	3
28	MP-3	Z	-0.021	0.5
29	MP-3	Z	-0.007	4
30	MP-4	Z	-0.008	1.5
31	MP-4	Z	-0.008	4
32	MP-5	Z	-0.009	3
33	MP-6	Z	-0.021	0.5
34	MP-6	Z	-0.007	4
35	MP-7	Z	-0.005	1.5

Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
36	MP-7	Z	-0.007	4
37	MP-8	Z	-0.005	3
38	MP-9	Z	-0.01	0.5
39	MP-9	Z	-0.006	4
40	MP-1	Z	-0.008	6.5
41	MP-2	Z	-0.009	5
42	MP-3	Z	-0.021	7.5
43	MP-4	Z	-0.008	6.5
44	MP-5	Z	-0.009	5
45	MP-6	Z	-0.021	7.5
46	MP-7	Z	-0.005	6.5
47	MP-8	Z	-0.005	5
48	MP-9	Z	-0.01	7.5

Member Point Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.018	1.5
2	MP-1	X	0.017	4
3	MP-2	X	0.022	3
4	MP-3	X	0.048	0.5
5	MP-3	X	0.016	4
6	MP-4	X	0.018	1.5
7	MP-4	X	0.017	4
8	MP-5	X	0.022	3
9	MP-6	X	0.048	0.5
10	MP-6	X	0.016	4
11	MP-7	X	0.018	1.5
12	MP-7	X	0.017	4
13	MP-8	X	0.022	3
14	MP-9	X	0.048	0.5
15	MP-9	X	0.016	4
16	MP-1	X	0.018	6.5
17	MP-2	X	0.022	5
18	MP-3	X	0.048	7.5
19	MP-4	X	0.018	6.5
20	MP-5	X	0.022	5
21	MP-6	X	0.048	7.5
22	MP-7	X	0.018	6.5
23	MP-8	X	0.022	5
24	MP-9	X	0.048	7.5

Member Point Loads (BLC 28 : 210 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.014	1.5
2	MP-1	X	0.014	4
3	MP-2	X	0.016	3
4	MP-3	X	0.036	0.5
5	MP-3	X	0.013	4
6	MP-4	X	0.008	1.5
7	MP-4	X	0.012	4
8	MP-5	X	0.008	3
9	MP-6	X	0.017	0.5
10	MP-6	X	0.011	4

Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
11	MP-7	X	0.014	1.5
12	MP-7	X	0.014	4
13	MP-8	X	0.016	3
14	MP-9	X	0.036	0.5
15	MP-9	X	0.013	4
16	MP-1	X	0.014	6.5
17	MP-2	X	0.016	5
18	MP-3	X	0.036	7.5
19	MP-4	X	0.008	6.5
20	MP-5	X	0.008	5
21	MP-6	X	0.017	7.5
22	MP-7	X	0.014	6.5
23	MP-8	X	0.016	5
24	MP-9	X	0.036	7.5
25	MP-1	Z	0.008	1.5
26	MP-1	Z	0.008	4
27	MP-2	Z	0.009	3
28	MP-3	Z	0.021	0.5
29	MP-3	Z	0.007	4
30	MP-4	Z	0.005	1.5
31	MP-4	Z	0.007	4
32	MP-5	Z	0.005	3
33	MP-6	Z	0.01	0.5
34	MP-6	Z	0.006	4
35	MP-7	Z	0.008	1.5
36	MP-7	Z	0.008	4
37	MP-8	Z	0.009	3
38	MP-9	Z	0.021	0.5
39	MP-9	Z	0.007	4
40	MP-1	Z	0.008	6.5
41	MP-2	Z	0.009	5
42	MP-3	Z	0.021	7.5
43	MP-4	Z	0.005	6.5
44	MP-5	Z	0.005	5
45	MP-6	Z	0.01	7.5
46	MP-7	Z	0.008	6.5
47	MP-8	Z	0.009	5
48	MP-9	Z	0.021	7.5

Member Point Loads (BLC 29 : 225 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.01	1.5
2	MP-1	X	0.011	4
3	MP-2	X	0.011	3
4	MP-3	X	0.024	0.5
5	MP-3	X	0.01	4
6	MP-4	X	0.007	1.5
7	MP-4	X	0.01	4
8	MP-5	X	0.007	3
9	MP-6	X	0.015	0.5
10	MP-6	X	0.009	4
11	MP-7	X	0.013	1.5
12	MP-7	X	0.012	4
13	MP-8	X	0.015	3
14	MP-9	X	0.033	0.5

Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
15	MP-9	X	0.011	4
16	MP-1	X	0.01	6.5
17	MP-2	X	0.011	5
18	MP-3	X	0.024	7.5
19	MP-4	X	0.007	6.5
20	MP-5	X	0.007	5
21	MP-6	X	0.015	7.5
22	MP-7	X	0.013	6.5
23	MP-8	X	0.015	5
24	MP-9	X	0.033	7.5
25	MP-1	Z	0.01	1.5
26	MP-1	Z	0.011	4
27	MP-2	Z	0.011	3
28	MP-3	Z	0.024	0.5
29	MP-3	Z	0.01	4
30	MP-4	Z	0.007	1.5
31	MP-4	Z	0.01	4
32	MP-5	Z	0.007	3
33	MP-6	Z	0.015	0.5
34	MP-6	Z	0.009	4
35	MP-7	Z	0.013	1.5
36	MP-7	Z	0.012	4
37	MP-8	Z	0.015	3
38	MP-9	Z	0.033	0.5
39	MP-9	Z	0.011	4
40	MP-1	Z	0.01	6.5
41	MP-2	Z	0.011	5
42	MP-3	Z	0.024	7.5
43	MP-4	Z	0.007	6.5
44	MP-5	Z	0.007	5
45	MP-6	Z	0.015	7.5
46	MP-7	Z	0.013	6.5
47	MP-8	Z	0.015	5
48	MP-9	Z	0.033	7.5

Member Point Loads (BLC 30 : 240 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	0.006	1.5
2	MP-1	X	0.007	4
3	MP-2	X	0.006	3
4	MP-3	X	0.013	0.5
5	MP-3	X	0.007	4
6	MP-4	X	0.006	1.5
7	MP-4	X	0.007	4
8	MP-5	X	0.006	3
9	MP-6	X	0.013	0.5
10	MP-6	X	0.007	4
11	MP-7	X	0.009	1.5
12	MP-7	X	0.008	4
13	MP-8	X	0.011	3
14	MP-9	X	0.024	0.5
15	MP-9	X	0.008	4
16	MP-1	X	0.006	6.5
17	MP-2	X	0.006	5
18	MP-3	X	0.013	7.5

Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
19	MP-4	X	0.006	6.5
20	MP-5	X	0.006	5
21	MP-6	X	0.013	7.5
22	MP-7	X	0.009	6.5
23	MP-8	X	0.011	5
24	MP-9	X	0.024	7.5
25	MP-1	Z	0.01	1.5
26	MP-1	Z	0.012	4
27	MP-2	Z	0.011	3
28	MP-3	Z	0.023	0.5
29	MP-3	Z	0.012	4
30	MP-4	Z	0.01	1.5
31	MP-4	Z	0.012	4
32	MP-5	Z	0.011	3
33	MP-6	Z	0.023	0.5
34	MP-6	Z	0.012	4
35	MP-7	Z	0.016	1.5
36	MP-7	Z	0.014	4
37	MP-8	Z	0.019	3
38	MP-9	Z	0.042	0.5
39	MP-9	Z	0.013	4
40	MP-1	Z	0.01	6.5
41	MP-2	Z	0.011	5
42	MP-3	Z	0.023	7.5
43	MP-4	Z	0.01	6.5
44	MP-5	Z	0.011	5
45	MP-6	Z	0.023	7.5
46	MP-7	Z	0.016	6.5
47	MP-8	Z	0.019	5
48	MP-9	Z	0.042	7.5

Member Point Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Z	0.009	1.5
2	MP-1	Z	0.014	4
3	MP-2	Z	0.009	3
4	MP-3	Z	0.02	0.5
5	MP-3	Z	0.013	4
6	MP-4	Z	0.009	1.5
7	MP-4	Z	0.014	4
8	MP-5	Z	0.009	3
9	MP-6	Z	0.02	0.5
10	MP-6	Z	0.013	4
11	MP-7	Z	0.009	1.5
12	MP-7	Z	0.014	4
13	MP-8	Z	0.009	3
14	MP-9	Z	0.02	0.5
15	MP-9	Z	0.013	4
16	MP-1	Z	0.009	6.5
17	MP-2	Z	0.009	5
18	MP-3	Z	0.02	7.5
19	MP-4	Z	0.009	6.5
20	MP-5	Z	0.009	5
21	MP-6	Z	0.02	7.5
22	MP-7	Z	0.009	6.5

Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
23	MP-8	Z	0.009	5
24	MP-9	Z	0.02	7.5

Member Point Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.006	1.5
2	MP-1	X	-0.007	4
3	MP-2	X	-0.006	3
4	MP-3	X	-0.013	0.5
5	MP-3	X	-0.007	4
6	MP-4	X	-0.009	1.5
7	MP-4	X	-0.008	4
8	MP-5	X	-0.011	3
9	MP-6	X	-0.024	0.5
10	MP-6	X	-0.008	4
11	MP-7	X	-0.006	1.5
12	MP-7	X	-0.007	4
13	MP-8	X	-0.006	3
14	MP-9	X	-0.013	0.5
15	MP-9	X	-0.007	4
16	MP-1	X	-0.006	6.5
17	MP-2	X	-0.006	5
18	MP-3	X	-0.013	7.5
19	MP-4	X	-0.009	6.5
20	MP-5	X	-0.011	5
21	MP-6	X	-0.024	7.5
22	MP-7	X	-0.006	6.5
23	MP-8	X	-0.006	5
24	MP-9	X	-0.013	7.5
25	MP-1	Z	0.01	1.5
26	MP-1	Z	0.012	4
27	MP-2	Z	0.011	3
28	MP-3	Z	0.023	0.5
29	MP-3	Z	0.012	4
30	MP-4	Z	0.016	1.5
31	MP-4	Z	0.014	4
32	MP-5	Z	0.019	3
33	MP-6	Z	0.042	0.5
34	MP-6	Z	0.013	4
35	MP-7	Z	0.01	1.5
36	MP-7	Z	0.012	4
37	MP-8	Z	0.011	3
38	MP-9	Z	0.023	0.5
39	MP-9	Z	0.012	4
40	MP-1	Z	0.01	6.5
41	MP-2	Z	0.011	5
42	MP-3	Z	0.023	7.5
43	MP-4	Z	0.016	6.5
44	MP-5	Z	0.019	5
45	MP-6	Z	0.042	7.5
46	MP-7	Z	0.01	6.5
47	MP-8	Z	0.011	5
48	MP-9	Z	0.023	7.5

Member Point Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.01	1.5
2	MP-1	X	-0.011	4
3	MP-2	X	-0.011	3
4	MP-3	X	-0.024	0.5
5	MP-3	X	-0.01	4
6	MP-4	X	-0.013	1.5
7	MP-4	X	-0.012	4
8	MP-5	X	-0.015	3
9	MP-6	X	-0.033	0.5
10	MP-6	X	-0.011	4
11	MP-7	X	-0.007	1.5
12	MP-7	X	-0.01	4
13	MP-8	X	-0.007	3
14	MP-9	X	-0.015	0.5
15	MP-9	X	-0.009	4
16	MP-1	X	-0.01	6.5
17	MP-2	X	-0.011	5
18	MP-3	X	-0.024	7.5
19	MP-4	X	-0.013	6.5
20	MP-5	X	-0.015	5
21	MP-6	X	-0.033	7.5
22	MP-7	X	-0.007	6.5
23	MP-8	X	-0.007	5
24	MP-9	X	-0.015	7.5
25	MP-1	Z	0.01	1.5
26	MP-1	Z	0.011	4
27	MP-2	Z	0.011	3
28	MP-3	Z	0.024	0.5
29	MP-3	Z	0.01	4
30	MP-4	Z	0.013	1.5
31	MP-4	Z	0.012	4
32	MP-5	Z	0.015	3
33	MP-6	Z	0.033	0.5
34	MP-6	Z	0.011	4
35	MP-7	Z	0.007	1.5
36	MP-7	Z	0.01	4
37	MP-8	Z	0.007	3
38	MP-9	Z	0.015	0.5
39	MP-9	Z	0.009	4
40	MP-1	Z	0.01	6.5
41	MP-2	Z	0.011	5
42	MP-3	Z	0.024	7.5
43	MP-4	Z	0.013	6.5
44	MP-5	Z	0.015	5
45	MP-6	Z	0.033	7.5
46	MP-7	Z	0.007	6.5
47	MP-8	Z	0.007	5
48	MP-9	Z	0.015	7.5

Member Point Loads (BLC 34 : 330 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.014	1.5
2	MP-1	X	-0.014	4
3	MP-2	X	-0.016	3

Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
4	MP-3	X	-0.036	0.5
5	MP-3	X	-0.013	4
6	MP-4	X	-0.014	1.5
7	MP-4	X	-0.014	4
8	MP-5	X	-0.016	3
9	MP-6	X	-0.036	0.5
10	MP-6	X	-0.013	4
11	MP-7	X	-0.008	1.5
12	MP-7	X	-0.012	4
13	MP-8	X	-0.008	3
14	MP-9	X	-0.017	0.5
15	MP-9	X	-0.011	4
16	MP-1	X	-0.014	6.5
17	MP-2	X	-0.016	5
18	MP-3	X	-0.036	7.5
19	MP-4	X	-0.014	6.5
20	MP-5	X	-0.016	5
21	MP-6	X	-0.036	7.5
22	MP-7	X	-0.008	6.5
23	MP-8	X	-0.008	5
24	MP-9	X	-0.017	7.5
25	MP-1	Z	0.008	1.5
26	MP-1	Z	0.008	4
27	MP-2	Z	0.009	3
28	MP-3	Z	0.021	0.5
29	MP-3	Z	0.007	4
30	MP-4	Z	0.008	1.5
31	MP-4	Z	0.008	4
32	MP-5	Z	0.009	3
33	MP-6	Z	0.021	0.5
34	MP-6	Z	0.007	4
35	MP-7	Z	0.005	1.5
36	MP-7	Z	0.007	4
37	MP-8	Z	0.005	3
38	MP-9	Z	0.01	0.5
39	MP-9	Z	0.006	4
40	MP-1	Z	0.008	6.5
41	MP-2	Z	0.009	5
42	MP-3	Z	0.021	7.5
43	MP-4	Z	0.008	6.5
44	MP-5	Z	0.009	5
45	MP-6	Z	0.021	7.5
46	MP-7	Z	0.005	6.5
47	MP-8	Z	0.005	5
48	MP-9	Z	0.01	7.5

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	X	-0.024	1.5
2	MP-1	X	-0.109	4
3	MP-2	X	-0.041	3
4	MP-3	X	-0.061	0.5
5	MP-3	X	-0.073	4
6	MP-4	X	-0.024	1.5
7	MP-4	X	-0.109	4

Member Point Loads (BLC 37 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
8	MP-5	X	-0.041	3
9	MP-6	X	-0.061	0.5
10	MP-6	X	-0.073	4
11	MP-7	X	-0.024	1.5
12	MP-7	X	-0.109	4
13	MP-8	X	-0.041	3
14	MP-9	X	-0.061	0.5
15	MP-9	X	-0.073	4
16	MP-1	X	-0.024	6.5
17	MP-2	X	-0.041	5
18	MP-3	X	-0.061	7.5
19	MP-4	X	-0.024	6.5
20	MP-5	X	-0.041	5
21	MP-6	X	-0.061	7.5
22	MP-7	X	-0.024	6.5
23	MP-8	X	-0.041	5
24	MP-9	X	-0.061	7.5

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP-1	Z	-0.024	1.5
2	MP-1	Z	-0.109	4
3	MP-2	Z	-0.041	3
4	MP-3	Z	-0.061	0.5
5	MP-3	Z	-0.073	4
6	MP-4	Z	-0.024	1.5
7	MP-4	Z	-0.109	4
8	MP-5	Z	-0.041	3
9	MP-6	Z	-0.061	0.5
10	MP-6	Z	-0.073	4
11	MP-7	Z	-0.024	1.5
12	MP-7	Z	-0.109	4
13	MP-8	Z	-0.041	3
14	MP-9	Z	-0.061	0.5
15	MP-9	Z	-0.073	4
16	MP-1	Z	-0.024	6.5
17	MP-2	Z	-0.041	5
18	MP-3	Z	-0.061	7.5
19	MP-4	Z	-0.024	6.5
20	MP-5	Z	-0.041	5
21	MP-6	Z	-0.061	7.5
22	MP-7	Z	-0.024	6.5
23	MP-8	Z	-0.041	5
24	MP-9	Z	-0.061	7.5

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.012	-0.012	0	%100
2	CP-2	X	-0.024	-0.024	0	%100
3	CP-3	X	-0.012	-0.012	0	%100
4	FF-TH	X	-0.012	-0.012	0	%100
5	SF1-TH	X	-0.005	-0.005	0	%100
6	SF2-TH	X	-0.005	-0.005	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
7	GSIP-1A	X	-0.013	-0.013	0	%100
8	GSIP-1B	X	-0.005	-0.005	0	%100
9	GSIP-2A	X	-0.005	-0.005	0	%100
10	GSIP-2B	X	-0.005	-0.005	0	%100
11	GSIP-3A	X	-0.005	-0.005	0	%100
12	GSIP-3B	X	-0.013	-0.013	0	%100
13	FF-HR	X	-0.01	-0.01	0	%100
14	SF1-HR	X	-0.005	-0.005	0	%100
15	SF2-HR	X	-0.005	-0.005	0	%100
16	HRC-1	X	-0.005	-0.005	0	%100
17	HRC-2	X	-0.011	-0.011	0	%100
18	HRC-3	X	-0.005	-0.005	0	%100
19	GSI-1A	X	-0.009	-0.009	0	%100
20	GSI-1B	X	-0.009	-0.009	0	%100
21	GSI-2A	X	-0.019	-0.019	0	%100
22	GSI-2B	X	-0.019	-0.019	0	%100
23	GSI-3A	X	-0.009	-0.009	0	%100
24	GSI-3B	X	-0.009	-0.009	0	%100
25	SA-1	X	-0.019	-0.019	0	%100
26	SA-2	X	0	0	0	%100
27	SA-3	X	-0.019	-0.019	0	%100
28	MP-2	X	-0.012	-0.012	0	%100
29	MP-3	X	-0.012	-0.012	0	%100
30	MP-1	X	-0.012	-0.012	0	%100
31	MP-5	X	-0.012	-0.012	0	%100
32	MP-6	X	-0.012	-0.012	0	%100
33	MP-4	X	-0.012	-0.012	0	%100
34	MP-8	X	-0.012	-0.012	0	%100
35	MP-9	X	-0.012	-0.012	0	%100
36	MP-7	X	-0.012	-0.012	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.018	-0.018	0	%100
2	CP-2	X	-0.018	-0.018	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	-0.009	-0.009	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	-0.008	-0.008	0	%100
7	GSIP-1A	X	-0.01	-0.01	0	%100
8	GSIP-1B	X	-1e-6	-1e-6	0	%100
9	GSIP-2A	X	0	0	0	%100
10	GSIP-2B	X	-0.008	-0.008	0	%100
11	GSIP-3A	X	-0.008	-0.008	0	%100
12	GSIP-3B	X	-0.01	-0.01	0	%100
13	FF-HR	X	-0.007	-0.007	0	%100
14	SF1-HR	X	0	0	0	%100
15	SF2-HR	X	-0.007	-0.007	0	%100
16	HRC-1	X	-0.008	-0.008	0	%100
17	HRC-2	X	-0.009	-0.009	0	%100
18	HRC-3	X	0	0	0	%100
19	GSI-1A	X	-0.013	-0.013	0	%100
20	GSI-1B	X	-0.013	-0.013	0	%100
21	GSI-2A	X	-0.014	-0.014	0	%100
22	GSI-2B	X	-0.014	-0.014	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	0	0	0	%100
25	SA-1	X	-0.009	-0.009	0	%100
26	SA-2	X	-0.007	-0.007	0	%100
27	SA-3	X	-0.019	-0.019	0	%100
28	MP-2	X	-0.01	-0.01	0	%100
29	MP-3	X	-0.01	-0.01	0	%100
30	MP-1	X	-0.01	-0.01	0	%100
31	MP-5	X	-0.01	-0.01	0	%100
32	MP-6	X	-0.01	-0.01	0	%100
33	MP-4	X	-0.01	-0.01	0	%100
34	MP-8	X	-0.01	-0.01	0	%100
35	MP-9	X	-0.01	-0.01	0	%100
36	MP-7	X	-0.01	-0.01	0	%100
37	CP-1	Z	-0.011	-0.011	0	%100
38	CP-2	Z	-0.011	-0.011	0	%100
39	CP-3	Z	0	0	0	%100
40	FF-TH	Z	-0.005	-0.005	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	-0.005	-0.005	0	%100
43	GSIP-1A	Z	-0.006	-0.006	0	%100
44	GSIP-1B	Z	0	0	0	%100
45	GSIP-2A	Z	0	0	0	%100
46	GSIP-2B	Z	-0.006	-0.006	0	%100
47	GSIP-3A	Z	-0.006	-0.006	0	%100
48	GSIP-3B	Z	-0.006	-0.006	0	%100
49	FF-HR	Z	-0.004	-0.004	0	%100
50	SF1-HR	Z	0	0	0	%100
51	SF2-HR	Z	-0.004	-0.004	0	%100
52	HRC-1	Z	-0.005	-0.005	0	%100
53	HRC-2	Z	-0.005	-0.005	0	%100
54	HRC-3	Z	0	0	0	%100
55	GSI-1A	Z	-0.008	-0.008	0	%100
56	GSI-1B	Z	-0.008	-0.008	0	%100
57	GSI-2A	Z	-0.008	-0.008	0	%100
58	GSI-2B	Z	-0.008	-0.008	0	%100
59	GSI-3A	Z	0	0	0	%100
60	GSI-3B	Z	0	0	0	%100
61	SA-1	Z	-0.005	-0.005	0	%100
62	SA-2	Z	-0.006	-0.006	0	%100
63	SA-3	Z	-0.01	-0.01	0	%100
64	MP-2	Z	-0.006	-0.006	0	%100
65	MP-3	Z	-0.006	-0.006	0	%100
66	MP-1	Z	-0.006	-0.006	0	%100
67	MP-5	Z	-0.006	-0.006	0	%100
68	MP-6	Z	-0.006	-0.006	0	%100
69	MP-4	Z	-0.006	-0.006	0	%100
70	MP-8	Z	-0.006	-0.006	0	%100
71	MP-9	Z	-0.006	-0.006	0	%100
72	MP-7	Z	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.017	-0.017	0	%100
2	CP-2	X	-0.012	-0.012	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
3	CP-3	X	-0.004	-0.004	0	%100
4	FF-TH	X	-0.006	-0.006	0	%100
5	SF1-TH	X	-0.002	-0.002	0	%100
6	SF2-TH	X	-0.007	-0.007	0	%100
7	GSIP-1A	X	-0.007	-0.007	0	%100
8	GSIP-1B	X	-0.002	-0.002	0	%100
9	GSIP-2A	X	-0.002	-0.002	0	%100
10	GSIP-2B	X	-0.007	-0.007	0	%100
11	GSIP-3A	X	-0.007	-0.007	0	%100
12	GSIP-3B	X	-0.007	-0.007	0	%100
13	FF-HR	X	-0.005	-0.005	0	%100
14	SF1-HR	X	-0.002	-0.002	0	%100
15	SF2-HR	X	-0.007	-0.007	0	%100
16	HRC-1	X	-0.007	-0.007	0	%100
17	HRC-2	X	-0.006	-0.006	0	%100
18	HRC-3	X	-0.002	-0.002	0	%100
19	GSI-1A	X	-0.012	-0.012	0	%100
20	GSI-1B	X	-0.012	-0.012	0	%100
21	GSI-2A	X	-0.01	-0.01	0	%100
22	GSI-2B	X	-0.01	-0.01	0	%100
23	GSI-3A	X	-0.003	-0.003	0	%100
24	GSI-3B	X	-0.003	-0.003	0	%100
25	SA-1	X	-0.004	-0.004	0	%100
26	SA-2	X	-0.008	-0.008	0	%100
27	SA-3	X	-0.015	-0.015	0	%100
28	MP-2	X	-0.008	-0.008	0	%100
29	MP-3	X	-0.008	-0.008	0	%100
30	MP-1	X	-0.008	-0.008	0	%100
31	MP-5	X	-0.008	-0.008	0	%100
32	MP-6	X	-0.008	-0.008	0	%100
33	MP-4	X	-0.008	-0.008	0	%100
34	MP-8	X	-0.008	-0.008	0	%100
35	MP-9	X	-0.008	-0.008	0	%100
36	MP-7	X	-0.008	-0.008	0	%100
37	CP-1	Z	-0.017	-0.017	0	%100
38	CP-2	Z	-0.012	-0.012	0	%100
39	CP-3	Z	-0.004	-0.004	0	%100
40	FF-TH	Z	-0.006	-0.006	0	%100
41	SF1-TH	Z	-0.002	-0.002	0	%100
42	SF2-TH	Z	-0.008	-0.008	0	%100
43	GSIP-1A	Z	-0.007	-0.007	0	%100
44	GSIP-1B	Z	-0.002	-0.002	0	%100
45	GSIP-2A	Z	-0.002	-0.002	0	%100
46	GSIP-2B	Z	-0.009	-0.009	0	%100
47	GSIP-3A	Z	-0.009	-0.009	0	%100
48	GSIP-3B	Z	-0.007	-0.007	0	%100
49	FF-HR	Z	-0.005	-0.005	0	%100
50	SF1-HR	Z	-0.002	-0.002	0	%100
51	SF2-HR	Z	-0.007	-0.007	0	%100
52	HRC-1	Z	-0.008	-0.008	0	%100
53	HRC-2	Z	-0.006	-0.006	0	%100
54	HRC-3	Z	-0.002	-0.002	0	%100
55	GSI-1A	Z	-0.013	-0.013	0	%100
56	GSI-1B	Z	-0.013	-0.013	0	%100
57	GSI-2A	Z	-0.01	-0.01	0	%100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
58	GSI-2B	Z	-0.01	-0.01	0	%100
59	GSI-3A	Z	-0.003	-0.003	0	%100
60	GSI-3B	Z	-0.003	-0.003	0	%100
61	SA-1	Z	-0.004	-0.004	0	%100
62	SA-2	Z	-0.011	-0.011	0	%100
63	SA-3	Z	-0.013	-0.013	0	%100
64	MP-2	Z	-0.008	-0.008	0	%100
65	MP-3	Z	-0.008	-0.008	0	%100
66	MP-1	Z	-0.008	-0.008	0	%100
67	MP-5	Z	-0.008	-0.008	0	%100
68	MP-6	Z	-0.008	-0.008	0	%100
69	MP-4	Z	-0.008	-0.008	0	%100
70	MP-8	Z	-0.008	-0.008	0	%100
71	MP-9	Z	-0.008	-0.008	0	%100
72	MP-7	Z	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.012	-0.012	0	%100
2	CP-2	X	-0.006	-0.006	0	%100
3	CP-3	X	-0.006	-0.006	0	%100
4	FF-TH	X	-0.003	-0.003	0	%100
5	SF1-TH	X	-0.003	-0.003	0	%100
6	SF2-TH	X	-0.005	-0.005	0	%100
7	GSIP-1A	X	-0.003	-0.003	0	%100
8	GSIP-1B	X	-0.003	-0.003	0	%100
9	GSIP-2A	X	-0.003	-0.003	0	%100
10	GSIP-2B	X	-0.005	-0.005	0	%100
11	GSIP-3A	X	-0.005	-0.005	0	%100
12	GSIP-3B	X	-0.003	-0.003	0	%100
13	FF-HR	X	-0.002	-0.002	0	%100
14	SF1-HR	X	-0.002	-0.002	0	%100
15	SF2-HR	X	-0.005	-0.005	0	%100
16	HRC-1	X	-0.005	-0.005	0	%100
17	HRC-2	X	-0.003	-0.003	0	%100
18	HRC-3	X	-0.003	-0.003	0	%100
19	GSI-1A	X	-0.009	-0.009	0	%100
20	GSI-1B	X	-0.009	-0.009	0	%100
21	GSI-2A	X	-0.005	-0.005	0	%100
22	GSI-2B	X	-0.005	-0.005	0	%100
23	GSI-3A	X	-0.004	-0.004	0	%100
24	GSI-3B	X	-0.004	-0.004	0	%100
25	SA-1	X	0	0	0	%100
26	SA-2	X	-0.007	-0.007	0	%100
27	SA-3	X	-0.009	-0.009	0	%100
28	MP-2	X	-0.006	-0.006	0	%100
29	MP-3	X	-0.006	-0.006	0	%100
30	MP-1	X	-0.006	-0.006	0	%100
31	MP-5	X	-0.006	-0.006	0	%100
32	MP-6	X	-0.006	-0.006	0	%100
33	MP-4	X	-0.006	-0.006	0	%100
34	MP-8	X	-0.006	-0.006	0	%100
35	MP-9	X	-0.006	-0.006	0	%100
36	MP-7	X	-0.006	-0.006	0	%100
37	CP-1	Z	-0.021	-0.021	0	%100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
38	CP-2	Z	-0.011	-0.011	0	%100
39	CP-3	Z	-0.011	-0.011	0	%100
40	FF-TH	Z	-0.005	-0.005	0	%100
41	SF1-TH	Z	-0.005	-0.005	0	%100
42	SF2-TH	Z	-0.01	-0.01	0	%100
43	GSIP-1A	Z	-0.006	-0.006	0	%100
44	GSIP-1B	Z	-0.006	-0.006	0	%100
45	GSIP-2A	Z	-0.006	-0.006	0	%100
46	GSIP-2B	Z	-0.011	-0.011	0	%100
47	GSIP-3A	Z	-0.011	-0.011	0	%100
48	GSIP-3B	Z	-0.006	-0.006	0	%100
49	FF-HR	Z	-0.004	-0.004	0	%100
50	SF1-HR	Z	-0.004	-0.004	0	%100
51	SF2-HR	Z	-0.008	-0.008	0	%100
52	HRC-1	Z	-0.01	-0.01	0	%100
53	HRC-2	Z	-0.005	-0.005	0	%100
54	HRC-3	Z	-0.005	-0.005	0	%100
55	GSI-1A	Z	-0.016	-0.016	0	%100
56	GSI-1B	Z	-0.016	-0.016	0	%100
57	GSI-2A	Z	-0.008	-0.008	0	%100
58	GSI-2B	Z	-0.008	-0.008	0	%100
59	GSI-3A	Z	-0.008	-0.008	0	%100
60	GSI-3B	Z	-0.008	-0.008	0	%100
61	SA-1	Z	0	0	0	%100
62	SA-2	Z	-0.017	-0.017	0	%100
63	SA-3	Z	-0.015	-0.015	0	%100
64	MP-2	Z	-0.01	-0.01	0	%100
65	MP-3	Z	-0.01	-0.01	0	%100
66	MP-1	Z	-0.01	-0.01	0	%100
67	MP-5	Z	-0.01	-0.01	0	%100
68	MP-6	Z	-0.01	-0.01	0	%100
69	MP-4	Z	-0.01	-0.01	0	%100
70	MP-8	Z	-0.01	-0.01	0	%100
71	MP-9	Z	-0.01	-0.01	0	%100
72	MP-7	Z	-0.01	-0.01	0	%100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	Z	-0.021	-0.021	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.021	-0.021	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	-0.01	-0.01	0	%100
6	SF2-TH	Z	-0.01	-0.01	0	%100
7	GSIP-1A	Z	0	0	0	%100
8	GSIP-1B	Z	-0.011	-0.011	0	%100
9	GSIP-2A	Z	-0.011	-0.011	0	%100
10	GSIP-2B	Z	-0.011	-0.011	0	%100
11	GSIP-3A	Z	-0.011	-0.011	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	FF-HR	Z	0	0	0	%100
14	SF1-HR	Z	-0.008	-0.008	0	%100
15	SF2-HR	Z	-0.008	-0.008	0	%100
16	HRC-1	Z	-0.01	-0.01	0	%100
17	HRC-2	Z	0	0	0	%100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
18	HRC-3	Z	-0.01	-0.01	0	%100
19	GSI-1A	Z	-0.016	-0.016	0	%100
20	GSI-1B	Z	-0.016	-0.016	0	%100
21	GSI-2A	Z	0	0	0	%100
22	GSI-2B	Z	0	0	0	%100
23	GSI-3A	Z	-0.016	-0.016	0	%100
24	GSI-3B	Z	-0.016	-0.016	0	%100
25	SA-1	Z	-0.01	-0.01	0	%100
26	SA-2	Z	-0.023	-0.023	0	%100
27	SA-3	Z	-0.01	-0.01	0	%100
28	MP-2	Z	-0.012	-0.012	0	%100
29	MP-3	Z	-0.012	-0.012	0	%100
30	MP-1	Z	-0.012	-0.012	0	%100
31	MP-5	Z	-0.012	-0.012	0	%100
32	MP-6	Z	-0.012	-0.012	0	%100
33	MP-4	Z	-0.012	-0.012	0	%100
34	MP-8	Z	-0.012	-0.012	0	%100
35	MP-9	Z	-0.012	-0.012	0	%100
36	MP-7	Z	-0.012	-0.012	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.006	0.006	0	%100
2	CP-2	X	0.006	0.006	0	%100
3	CP-3	X	0.012	0.012	0	%100
4	FF-TH	X	0.003	0.003	0	%100
5	SF1-TH	X	0.005	0.005	0	%100
6	SF2-TH	X	0.003	0.003	0	%100
7	GSIP-1A	X	0.003	0.003	0	%100
8	GSIP-1B	X	0.005	0.005	0	%100
9	GSIP-2A	X	0.005	0.005	0	%100
10	GSIP-2B	X	0.003	0.003	0	%100
11	GSIP-3A	X	0.003	0.003	0	%100
12	GSIP-3B	X	0.003	0.003	0	%100
13	FF-HR	X	0.002	0.002	0	%100
14	SF1-HR	X	0.005	0.005	0	%100
15	SF2-HR	X	0.002	0.002	0	%100
16	HRC-1	X	0.003	0.003	0	%100
17	HRC-2	X	0.003	0.003	0	%100
18	HRC-3	X	0.005	0.005	0	%100
19	GSI-1A	X	0.004	0.004	0	%100
20	GSI-1B	X	0.004	0.004	0	%100
21	GSI-2A	X	0.005	0.005	0	%100
22	GSI-2B	X	0.005	0.005	0	%100
23	GSI-3A	X	0.009	0.009	0	%100
24	GSI-3B	X	0.009	0.009	0	%100
25	SA-1	X	0.009	0.009	0	%100
26	SA-2	X	0.007	0.007	0	%100
27	SA-3	X	0	0	0	%100
28	MP-2	X	0.006	0.006	0	%100
29	MP-3	X	0.006	0.006	0	%100
30	MP-1	X	0.006	0.006	0	%100
31	MP-5	X	0.006	0.006	0	%100
32	MP-6	X	0.006	0.006	0	%100
33	MP-4	X	0.006	0.006	0	%100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
34	MP-8	X	0.006	0.006	0	%100
35	MP-9	X	0.006	0.006	0	%100
36	MP-7	X	0.006	0.006	0	%100
37	CP-1	Z	-0.011	-0.011	0	%100
38	CP-2	Z	-0.011	-0.011	0	%100
39	CP-3	Z	-0.021	-0.021	0	%100
40	FF-TH	Z	-0.005	-0.005	0	%100
41	SF1-TH	Z	-0.01	-0.01	0	%100
42	SF2-TH	Z	-0.005	-0.005	0	%100
43	GSIP-1A	Z	-0.006	-0.006	0	%100
44	GSIP-1B	Z	-0.011	-0.011	0	%100
45	GSIP-2A	Z	-0.011	-0.011	0	%100
46	GSIP-2B	Z	-0.006	-0.006	0	%100
47	GSIP-3A	Z	-0.006	-0.006	0	%100
48	GSIP-3B	Z	-0.006	-0.006	0	%100
49	FF-HR	Z	-0.004	-0.004	0	%100
50	SF1-HR	Z	-0.008	-0.008	0	%100
51	SF2-HR	Z	-0.004	-0.004	0	%100
52	HRC-1	Z	-0.005	-0.005	0	%100
53	HRC-2	Z	-0.005	-0.005	0	%100
54	HRC-3	Z	-0.01	-0.01	0	%100
55	GSI-1A	Z	-0.008	-0.008	0	%100
56	GSI-1B	Z	-0.008	-0.008	0	%100
57	GSI-2A	Z	-0.008	-0.008	0	%100
58	GSI-2B	Z	-0.008	-0.008	0	%100
59	GSI-3A	Z	-0.016	-0.016	0	%100
60	GSI-3B	Z	-0.016	-0.016	0	%100
61	SA-1	Z	-0.015	-0.015	0	%100
62	SA-2	Z	-0.017	-0.017	0	%100
63	SA-3	Z	0	0	0	%100
64	MP-2	Z	-0.01	-0.01	0	%100
65	MP-3	Z	-0.01	-0.01	0	%100
66	MP-1	Z	-0.01	-0.01	0	%100
67	MP-5	Z	-0.01	-0.01	0	%100
68	MP-6	Z	-0.01	-0.01	0	%100
69	MP-4	Z	-0.01	-0.01	0	%100
70	MP-8	Z	-0.01	-0.01	0	%100
71	MP-9	Z	-0.01	-0.01	0	%100
72	MP-7	Z	-0.01	-0.01	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.004	0.004	0	%100
2	CP-2	X	0.012	0.012	0	%100
3	CP-3	X	0.017	0.017	0	%100
4	FF-TH	X	0.006	0.006	0	%100
5	SF1-TH	X	0.007	0.007	0	%100
6	SF2-TH	X	0.002	0.002	0	%100
7	GSIP-1A	X	0.007	0.007	0	%100
8	GSIP-1B	X	0.007	0.007	0	%100
9	GSIP-2A	X	0.007	0.007	0	%100
10	GSIP-2B	X	0.002	0.002	0	%100
11	GSIP-3A	X	0.002	0.002	0	%100
12	GSIP-3B	X	0.007	0.007	0	%100
13	FF-HR	X	0.005	0.005	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
14	SF1-HR	X	0.007	0.007	0	%100
15	SF2-HR	X	0.002	0.002	0	%100
16	HRC-1	X	0.002	0.002	0	%100
17	HRC-2	X	0.006	0.006	0	%100
18	HRC-3	X	0.007	0.007	0	%100
19	GSI-1A	X	0.003	0.003	0	%100
20	GSI-1B	X	0.003	0.003	0	%100
21	GSI-2A	X	0.01	0.01	0	%100
22	GSI-2B	X	0.01	0.01	0	%100
23	GSI-3A	X	0.012	0.012	0	%100
24	GSI-3B	X	0.012	0.012	0	%100
25	SA-1	X	0.015	0.015	0	%100
26	SA-2	X	0.008	0.008	0	%100
27	SA-3	X	0.004	0.004	0	%100
28	MP-2	X	0.008	0.008	0	%100
29	MP-3	X	0.008	0.008	0	%100
30	MP-1	X	0.008	0.008	0	%100
31	MP-5	X	0.008	0.008	0	%100
32	MP-6	X	0.008	0.008	0	%100
33	MP-4	X	0.008	0.008	0	%100
34	MP-8	X	0.008	0.008	0	%100
35	MP-9	X	0.008	0.008	0	%100
36	MP-7	X	0.008	0.008	0	%100
37	CP-1	Z	-0.004	-0.004	0	%100
38	CP-2	Z	-0.012	-0.012	0	%100
39	CP-3	Z	-0.017	-0.017	0	%100
40	FF-TH	Z	-0.006	-0.006	0	%100
41	SF1-TH	Z	-0.008	-0.008	0	%100
42	SF2-TH	Z	-0.002	-0.002	0	%100
43	GSIP-1A	Z	-0.007	-0.007	0	%100
44	GSIP-1B	Z	-0.009	-0.009	0	%100
45	GSIP-2A	Z	-0.009	-0.009	0	%100
46	GSIP-2B	Z	-0.002	-0.002	0	%100
47	GSIP-3A	Z	-0.002	-0.002	0	%100
48	GSIP-3B	Z	-0.007	-0.007	0	%100
49	FF-HR	Z	-0.005	-0.005	0	%100
50	SF1-HR	Z	-0.007	-0.007	0	%100
51	SF2-HR	Z	-0.002	-0.002	0	%100
52	HRC-1	Z	-0.002	-0.002	0	%100
53	HRC-2	Z	-0.006	-0.006	0	%100
54	HRC-3	Z	-0.008	-0.008	0	%100
55	GSI-1A	Z	-0.003	-0.003	0	%100
56	GSI-1B	Z	-0.003	-0.003	0	%100
57	GSI-2A	Z	-0.01	-0.01	0	%100
58	GSI-2B	Z	-0.01	-0.01	0	%100
59	GSI-3A	Z	-0.013	-0.013	0	%100
60	GSI-3B	Z	-0.013	-0.013	0	%100
61	SA-1	Z	-0.013	-0.013	0	%100
62	SA-2	Z	-0.011	-0.011	0	%100
63	SA-3	Z	-0.004	-0.004	0	%100
64	MP-2	Z	-0.008	-0.008	0	%100
65	MP-3	Z	-0.008	-0.008	0	%100
66	MP-1	Z	-0.008	-0.008	0	%100
67	MP-5	Z	-0.008	-0.008	0	%100
68	MP-6	Z	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
69	MP-4	Z	-0.008	-0.008	0	%100
70	MP-8	Z	-0.008	-0.008	0	%100
71	MP-9	Z	-0.008	-0.008	0	%100
72	MP-7	Z	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0	0	0	%100
2	CP-2	X	0.018	0.018	0	%100
3	CP-3	X	0.018	0.018	0	%100
4	FF-TH	X	0.009	0.009	0	%100
5	SF1-TH	X	0.008	0.008	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	0.01	0.01	0	%100
8	GSIP-1B	X	0.008	0.008	0	%100
9	GSIP-2A	X	0.008	0.008	0	%100
10	GSIP-2B	X	1e-6	1e-6	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	0.01	0.01	0	%100
13	FF-HR	X	0.007	0.007	0	%100
14	SF1-HR	X	0.007	0.007	0	%100
15	SF2-HR	X	0	0	0	%100
16	HRC-1	X	0	0	0	%100
17	HRC-2	X	0.009	0.009	0	%100
18	HRC-3	X	0.008	0.008	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	0	0	0	%100
21	GSI-2A	X	0.014	0.014	0	%100
22	GSI-2B	X	0.014	0.014	0	%100
23	GSI-3A	X	0.013	0.013	0	%100
24	GSI-3B	X	0.013	0.013	0	%100
25	SA-1	X	0.019	0.019	0	%100
26	SA-2	X	0.007	0.007	0	%100
27	SA-3	X	0.009	0.009	0	%100
28	MP-2	X	0.01	0.01	0	%100
29	MP-3	X	0.01	0.01	0	%100
30	MP-1	X	0.01	0.01	0	%100
31	MP-5	X	0.01	0.01	0	%100
32	MP-6	X	0.01	0.01	0	%100
33	MP-4	X	0.01	0.01	0	%100
34	MP-8	X	0.01	0.01	0	%100
35	MP-9	X	0.01	0.01	0	%100
36	MP-7	X	0.01	0.01	0	%100
37	CP-1	Z	0	0	0	%100
38	CP-2	Z	-0.011	-0.011	0	%100
39	CP-3	Z	-0.011	-0.011	0	%100
40	FF-TH	Z	-0.005	-0.005	0	%100
41	SF1-TH	Z	-0.005	-0.005	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1A	Z	-0.006	-0.006	0	%100
44	GSIP-1B	Z	-0.006	-0.006	0	%100
45	GSIP-2A	Z	-0.006	-0.006	0	%100
46	GSIP-2B	Z	0	0	0	%100
47	GSIP-3A	Z	0	0	0	%100
48	GSIP-3B	Z	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
49	FF-HR	Z	-0.004	-0.004	0	%100
50	SF1-HR	Z	-0.004	-0.004	0	%100
51	SF2-HR	Z	0	0	0	%100
52	HRC-1	Z	0	0	0	%100
53	HRC-2	Z	-0.005	-0.005	0	%100
54	HRC-3	Z	-0.005	-0.005	0	%100
55	GSI-1A	Z	0	0	0	%100
56	GSI-1B	Z	0	0	0	%100
57	GSI-2A	Z	-0.008	-0.008	0	%100
58	GSI-2B	Z	-0.008	-0.008	0	%100
59	GSI-3A	Z	-0.008	-0.008	0	%100
60	GSI-3B	Z	-0.008	-0.008	0	%100
61	SA-1	Z	-0.01	-0.01	0	%100
62	SA-2	Z	-0.006	-0.006	0	%100
63	SA-3	Z	-0.005	-0.005	0	%100
64	MP-2	Z	-0.006	-0.006	0	%100
65	MP-3	Z	-0.006	-0.006	0	%100
66	MP-1	Z	-0.006	-0.006	0	%100
67	MP-5	Z	-0.006	-0.006	0	%100
68	MP-6	Z	-0.006	-0.006	0	%100
69	MP-4	Z	-0.006	-0.006	0	%100
70	MP-8	Z	-0.006	-0.006	0	%100
71	MP-9	Z	-0.006	-0.006	0	%100
72	MP-7	Z	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.012	0.012	0	%100
2	CP-2	X	0.024	0.024	0	%100
3	CP-3	X	0.012	0.012	0	%100
4	FF-TH	X	0.012	0.012	0	%100
5	SF1-TH	X	0.005	0.005	0	%100
6	SF2-TH	X	0.005	0.005	0	%100
7	GSIP-1A	X	0.013	0.013	0	%100
8	GSIP-1B	X	0.005	0.005	0	%100
9	GSIP-2A	X	0.005	0.005	0	%100
10	GSIP-2B	X	0.005	0.005	0	%100
11	GSIP-3A	X	0.005	0.005	0	%100
12	GSIP-3B	X	0.013	0.013	0	%100
13	FF-HR	X	0.01	0.01	0	%100
14	SF1-HR	X	0.005	0.005	0	%100
15	SF2-HR	X	0.005	0.005	0	%100
16	HRC-1	X	0.005	0.005	0	%100
17	HRC-2	X	0.011	0.011	0	%100
18	HRC-3	X	0.005	0.005	0	%100
19	GSI-1A	X	0.009	0.009	0	%100
20	GSI-1B	X	0.009	0.009	0	%100
21	GSI-2A	X	0.019	0.019	0	%100
22	GSI-2B	X	0.019	0.019	0	%100
23	GSI-3A	X	0.009	0.009	0	%100
24	GSI-3B	X	0.009	0.009	0	%100
25	SA-1	X	0.019	0.019	0	%100
26	SA-2	X	0	0	0	%100
27	SA-3	X	0.019	0.019	0	%100
28	MP-2	X	0.012	0.012	0	%100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
29	MP-3	X	0.012	0.012	0	%100
30	MP-1	X	0.012	0.012	0	%100
31	MP-5	X	0.012	0.012	0	%100
32	MP-6	X	0.012	0.012	0	%100
33	MP-4	X	0.012	0.012	0	%100
34	MP-8	X	0.012	0.012	0	%100
35	MP-9	X	0.012	0.012	0	%100
36	MP-7	X	0.012	0.012	0	%100

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.018	0.018	0	%100
2	CP-2	X	0.018	0.018	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	0.009	0.009	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	0.008	0.008	0	%100
7	GSIP-1A	X	0.01	0.01	0	%100
8	GSIP-1B	X	1e-6	1e-6	0	%100
9	GSIP-2A	X	0	0	0	%100
10	GSIP-2B	X	0.008	0.008	0	%100
11	GSIP-3A	X	0.008	0.008	0	%100
12	GSIP-3B	X	0.01	0.01	0	%100
13	FF-HR	X	0.007	0.007	0	%100
14	SF1-HR	X	0	0	0	%100
15	SF2-HR	X	0.007	0.007	0	%100
16	HRC-1	X	0.008	0.008	0	%100
17	HRC-2	X	0.009	0.009	0	%100
18	HRC-3	X	0	0	0	%100
19	GSI-1A	X	0.013	0.013	0	%100
20	GSI-1B	X	0.013	0.013	0	%100
21	GSI-2A	X	0.014	0.014	0	%100
22	GSI-2B	X	0.014	0.014	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	0	0	0	%100
25	SA-1	X	0.009	0.009	0	%100
26	SA-2	X	0.007	0.007	0	%100
27	SA-3	X	0.019	0.019	0	%100
28	MP-2	X	0.01	0.01	0	%100
29	MP-3	X	0.01	0.01	0	%100
30	MP-1	X	0.01	0.01	0	%100
31	MP-5	X	0.01	0.01	0	%100
32	MP-6	X	0.01	0.01	0	%100
33	MP-4	X	0.01	0.01	0	%100
34	MP-8	X	0.01	0.01	0	%100
35	MP-9	X	0.01	0.01	0	%100
36	MP-7	X	0.01	0.01	0	%100
37	CP-1	Z	0.011	0.011	0	%100
38	CP-2	Z	0.011	0.011	0	%100
39	CP-3	Z	0	0	0	%100
40	FF-TH	Z	0.005	0.005	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	0.005	0.005	0	%100
43	GSIP-1A	Z	0.006	0.006	0	%100
44	GSIP-1B	Z	0	0	0	%100

Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
45	GSIP-2A	Z	0	0	0	%100
46	GSIP-2B	Z	0.006	0.006	0	%100
47	GSIP-3A	Z	0.006	0.006	0	%100
48	GSIP-3B	Z	0.006	0.006	0	%100
49	FF-HR	Z	0.004	0.004	0	%100
50	SF1-HR	Z	0	0	0	%100
51	SF2-HR	Z	0.004	0.004	0	%100
52	HRC-1	Z	0.005	0.005	0	%100
53	HRC-2	Z	0.005	0.005	0	%100
54	HRC-3	Z	0	0	0	%100
55	GSI-1A	Z	0.008	0.008	0	%100
56	GSI-1B	Z	0.008	0.008	0	%100
57	GSI-2A	Z	0.008	0.008	0	%100
58	GSI-2B	Z	0.008	0.008	0	%100
59	GSI-3A	Z	0	0	0	%100
60	GSI-3B	Z	0	0	0	%100
61	SA-1	Z	0.005	0.005	0	%100
62	SA-2	Z	0.006	0.006	0	%100
63	SA-3	Z	0.01	0.01	0	%100
64	MP-2	Z	0.006	0.006	0	%100
65	MP-3	Z	0.006	0.006	0	%100
66	MP-1	Z	0.006	0.006	0	%100
67	MP-5	Z	0.006	0.006	0	%100
68	MP-6	Z	0.006	0.006	0	%100
69	MP-4	Z	0.006	0.006	0	%100
70	MP-8	Z	0.006	0.006	0	%100
71	MP-9	Z	0.006	0.006	0	%100
72	MP-7	Z	0.006	0.006	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.017	0.017	0	%100
2	CP-2	X	0.012	0.012	0	%100
3	CP-3	X	0.004	0.004	0	%100
4	FF-TH	X	0.006	0.006	0	%100
5	SF1-TH	X	0.002	0.002	0	%100
6	SF2-TH	X	0.007	0.007	0	%100
7	GSIP-1A	X	0.007	0.007	0	%100
8	GSIP-1B	X	0.002	0.002	0	%100
9	GSIP-2A	X	0.002	0.002	0	%100
10	GSIP-2B	X	0.007	0.007	0	%100
11	GSIP-3A	X	0.007	0.007	0	%100
12	GSIP-3B	X	0.007	0.007	0	%100
13	FF-HR	X	0.005	0.005	0	%100
14	SF1-HR	X	0.002	0.002	0	%100
15	SF2-HR	X	0.007	0.007	0	%100
16	HRC-1	X	0.007	0.007	0	%100
17	HRC-2	X	0.006	0.006	0	%100
18	HRC-3	X	0.002	0.002	0	%100
19	GSI-1A	X	0.012	0.012	0	%100
20	GSI-1B	X	0.012	0.012	0	%100
21	GSI-2A	X	0.01	0.01	0	%100
22	GSI-2B	X	0.01	0.01	0	%100
23	GSI-3A	X	0.003	0.003	0	%100
24	GSI-3B	X	0.003	0.003	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
25	SA-1	X	0.004	0.004	0	%100
26	SA-2	X	0.008	0.008	0	%100
27	SA-3	X	0.015	0.015	0	%100
28	MP-2	X	0.008	0.008	0	%100
29	MP-3	X	0.008	0.008	0	%100
30	MP-1	X	0.008	0.008	0	%100
31	MP-5	X	0.008	0.008	0	%100
32	MP-6	X	0.008	0.008	0	%100
33	MP-4	X	0.008	0.008	0	%100
34	MP-8	X	0.008	0.008	0	%100
35	MP-9	X	0.008	0.008	0	%100
36	MP-7	X	0.008	0.008	0	%100
37	CP-1	Z	0.017	0.017	0	%100
38	CP-2	Z	0.012	0.012	0	%100
39	CP-3	Z	0.004	0.004	0	%100
40	FF-TH	Z	0.006	0.006	0	%100
41	SF1-TH	Z	0.002	0.002	0	%100
42	SF2-TH	Z	0.008	0.008	0	%100
43	GSIP-1A	Z	0.007	0.007	0	%100
44	GSIP-1B	Z	0.002	0.002	0	%100
45	GSIP-2A	Z	0.002	0.002	0	%100
46	GSIP-2B	Z	0.009	0.009	0	%100
47	GSIP-3A	Z	0.009	0.009	0	%100
48	GSIP-3B	Z	0.007	0.007	0	%100
49	FF-HR	Z	0.005	0.005	0	%100
50	SF1-HR	Z	0.002	0.002	0	%100
51	SF2-HR	Z	0.007	0.007	0	%100
52	HRC-1	Z	0.008	0.008	0	%100
53	HRC-2	Z	0.006	0.006	0	%100
54	HRC-3	Z	0.002	0.002	0	%100
55	GSI-1A	Z	0.013	0.013	0	%100
56	GSI-1B	Z	0.013	0.013	0	%100
57	GSI-2A	Z	0.01	0.01	0	%100
58	GSI-2B	Z	0.01	0.01	0	%100
59	GSI-3A	Z	0.003	0.003	0	%100
60	GSI-3B	Z	0.003	0.003	0	%100
61	SA-1	Z	0.004	0.004	0	%100
62	SA-2	Z	0.011	0.011	0	%100
63	SA-3	Z	0.013	0.013	0	%100
64	MP-2	Z	0.008	0.008	0	%100
65	MP-3	Z	0.008	0.008	0	%100
66	MP-1	Z	0.008	0.008	0	%100
67	MP-5	Z	0.008	0.008	0	%100
68	MP-6	Z	0.008	0.008	0	%100
69	MP-4	Z	0.008	0.008	0	%100
70	MP-8	Z	0.008	0.008	0	%100
71	MP-9	Z	0.008	0.008	0	%100
72	MP-7	Z	0.008	0.008	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.012	0.012	0	%100
2	CP-2	X	0.006	0.006	0	%100
3	CP-3	X	0.006	0.006	0	%100
4	FF-TH	X	0.003	0.003	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
5	SF1-TH	X	0.003	0.003	0	%100
6	SF2-TH	X	0.005	0.005	0	%100
7	GSIP-1A	X	0.003	0.003	0	%100
8	GSIP-1B	X	0.003	0.003	0	%100
9	GSIP-2A	X	0.003	0.003	0	%100
10	GSIP-2B	X	0.005	0.005	0	%100
11	GSIP-3A	X	0.005	0.005	0	%100
12	GSIP-3B	X	0.003	0.003	0	%100
13	FF-HR	X	0.002	0.002	0	%100
14	SF1-HR	X	0.002	0.002	0	%100
15	SF2-HR	X	0.005	0.005	0	%100
16	HRC-1	X	0.005	0.005	0	%100
17	HRC-2	X	0.003	0.003	0	%100
18	HRC-3	X	0.003	0.003	0	%100
19	GSI-1A	X	0.009	0.009	0	%100
20	GSI-1B	X	0.009	0.009	0	%100
21	GSI-2A	X	0.005	0.005	0	%100
22	GSI-2B	X	0.005	0.005	0	%100
23	GSI-3A	X	0.004	0.004	0	%100
24	GSI-3B	X	0.004	0.004	0	%100
25	SA-1	X	0	0	0	%100
26	SA-2	X	0.007	0.007	0	%100
27	SA-3	X	0.009	0.009	0	%100
28	MP-2	X	0.006	0.006	0	%100
29	MP-3	X	0.006	0.006	0	%100
30	MP-1	X	0.006	0.006	0	%100
31	MP-5	X	0.006	0.006	0	%100
32	MP-6	X	0.006	0.006	0	%100
33	MP-4	X	0.006	0.006	0	%100
34	MP-8	X	0.006	0.006	0	%100
35	MP-9	X	0.006	0.006	0	%100
36	MP-7	X	0.006	0.006	0	%100
37	CP-1	Z	0.021	0.021	0	%100
38	CP-2	Z	0.011	0.011	0	%100
39	CP-3	Z	0.011	0.011	0	%100
40	FF-TH	Z	0.005	0.005	0	%100
41	SF1-TH	Z	0.005	0.005	0	%100
42	SF2-TH	Z	0.01	0.01	0	%100
43	GSIP-1A	Z	0.006	0.006	0	%100
44	GSIP-1B	Z	0.006	0.006	0	%100
45	GSIP-2A	Z	0.006	0.006	0	%100
46	GSIP-2B	Z	0.011	0.011	0	%100
47	GSIP-3A	Z	0.011	0.011	0	%100
48	GSIP-3B	Z	0.006	0.006	0	%100
49	FF-HR	Z	0.004	0.004	0	%100
50	SF1-HR	Z	0.004	0.004	0	%100
51	SF2-HR	Z	0.008	0.008	0	%100
52	HRC-1	Z	0.01	0.01	0	%100
53	HRC-2	Z	0.005	0.005	0	%100
54	HRC-3	Z	0.005	0.005	0	%100
55	GSI-1A	Z	0.016	0.016	0	%100
56	GSI-1B	Z	0.016	0.016	0	%100
57	GSI-2A	Z	0.008	0.008	0	%100
58	GSI-2B	Z	0.008	0.008	0	%100
59	GSI-3A	Z	0.008	0.008	0	%100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
60	GSI-3B	Z	0.008	0.008	0	%100
61	SA-1	Z	0	0	0	%100
62	SA-2	Z	0.017	0.017	0	%100
63	SA-3	Z	0.015	0.015	0	%100
64	MP-2	Z	0.01	0.01	0	%100
65	MP-3	Z	0.01	0.01	0	%100
66	MP-1	Z	0.01	0.01	0	%100
67	MP-5	Z	0.01	0.01	0	%100
68	MP-6	Z	0.01	0.01	0	%100
69	MP-4	Z	0.01	0.01	0	%100
70	MP-8	Z	0.01	0.01	0	%100
71	MP-9	Z	0.01	0.01	0	%100
72	MP-7	Z	0.01	0.01	0	%100

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	Z	0.021	0.021	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	0.021	0.021	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	0.01	0.01	0	%100
6	SF2-TH	Z	0.01	0.01	0	%100
7	GSIP-1A	Z	0	0	0	%100
8	GSIP-1B	Z	0.011	0.011	0	%100
9	GSIP-2A	Z	0.011	0.011	0	%100
10	GSIP-2B	Z	0.011	0.011	0	%100
11	GSIP-3A	Z	0.011	0.011	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	FF-HR	Z	0	0	0	%100
14	SF1-HR	Z	0.008	0.008	0	%100
15	SF2-HR	Z	0.008	0.008	0	%100
16	HRC-1	Z	0.01	0.01	0	%100
17	HRC-2	Z	0	0	0	%100
18	HRC-3	Z	0.01	0.01	0	%100
19	GSI-1A	Z	0.016	0.016	0	%100
20	GSI-1B	Z	0.016	0.016	0	%100
21	GSI-2A	Z	0	0	0	%100
22	GSI-2B	Z	0	0	0	%100
23	GSI-3A	Z	0.016	0.016	0	%100
24	GSI-3B	Z	0.016	0.016	0	%100
25	SA-1	Z	0.01	0.01	0	%100
26	SA-2	Z	0.023	0.023	0	%100
27	SA-3	Z	0.01	0.01	0	%100
28	MP-2	Z	0.012	0.012	0	%100
29	MP-3	Z	0.012	0.012	0	%100
30	MP-1	Z	0.012	0.012	0	%100
31	MP-5	Z	0.012	0.012	0	%100
32	MP-6	Z	0.012	0.012	0	%100
33	MP-4	Z	0.012	0.012	0	%100
34	MP-8	Z	0.012	0.012	0	%100
35	MP-9	Z	0.012	0.012	0	%100
36	MP-7	Z	0.012	0.012	0	%100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.006	-0.006	0	%100
2	CP-2	X	-0.006	-0.006	0	%100
3	CP-3	X	-0.012	-0.012	0	%100
4	FF-TH	X	-0.003	-0.003	0	%100
5	SF1-TH	X	-0.005	-0.005	0	%100
6	SF2-TH	X	-0.003	-0.003	0	%100
7	GSIP-1A	X	-0.003	-0.003	0	%100
8	GSIP-1B	X	-0.005	-0.005	0	%100
9	GSIP-2A	X	-0.005	-0.005	0	%100
10	GSIP-2B	X	-0.003	-0.003	0	%100
11	GSIP-3A	X	-0.003	-0.003	0	%100
12	GSIP-3B	X	-0.003	-0.003	0	%100
13	FF-HR	X	-0.002	-0.002	0	%100
14	SF1-HR	X	-0.005	-0.005	0	%100
15	SF2-HR	X	-0.002	-0.002	0	%100
16	HRC-1	X	-0.003	-0.003	0	%100
17	HRC-2	X	-0.003	-0.003	0	%100
18	HRC-3	X	-0.005	-0.005	0	%100
19	GSI-1A	X	-0.004	-0.004	0	%100
20	GSI-1B	X	-0.004	-0.004	0	%100
21	GSI-2A	X	-0.005	-0.005	0	%100
22	GSI-2B	X	-0.005	-0.005	0	%100
23	GSI-3A	X	-0.009	-0.009	0	%100
24	GSI-3B	X	-0.009	-0.009	0	%100
25	SA-1	X	-0.009	-0.009	0	%100
26	SA-2	X	-0.007	-0.007	0	%100
27	SA-3	X	0	0	0	%100
28	MP-2	X	-0.006	-0.006	0	%100
29	MP-3	X	-0.006	-0.006	0	%100
30	MP-1	X	-0.006	-0.006	0	%100
31	MP-5	X	-0.006	-0.006	0	%100
32	MP-6	X	-0.006	-0.006	0	%100
33	MP-4	X	-0.006	-0.006	0	%100
34	MP-8	X	-0.006	-0.006	0	%100
35	MP-9	X	-0.006	-0.006	0	%100
36	MP-7	X	-0.006	-0.006	0	%100
37	CP-1	Z	0.011	0.011	0	%100
38	CP-2	Z	0.011	0.011	0	%100
39	CP-3	Z	0.021	0.021	0	%100
40	FF-TH	Z	0.005	0.005	0	%100
41	SF1-TH	Z	0.01	0.01	0	%100
42	SF2-TH	Z	0.005	0.005	0	%100
43	GSIP-1A	Z	0.006	0.006	0	%100
44	GSIP-1B	Z	0.011	0.011	0	%100
45	GSIP-2A	Z	0.011	0.011	0	%100
46	GSIP-2B	Z	0.006	0.006	0	%100
47	GSIP-3A	Z	0.006	0.006	0	%100
48	GSIP-3B	Z	0.006	0.006	0	%100
49	FF-HR	Z	0.004	0.004	0	%100
50	SF1-HR	Z	0.008	0.008	0	%100
51	SF2-HR	Z	0.004	0.004	0	%100
52	HRC-1	Z	0.005	0.005	0	%100
53	HRC-2	Z	0.005	0.005	0	%100
54	HRC-3	Z	0.01	0.01	0	%100
55	GSI-1A	Z	0.008	0.008	0	%100

Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	GSI-1B	Z	0.008	0.008	0	%100
57	GSI-2A	Z	0.008	0.008	0	%100
58	GSI-2B	Z	0.008	0.008	0	%100
59	GSI-3A	Z	0.016	0.016	0	%100
60	GSI-3B	Z	0.016	0.016	0	%100
61	SA-1	Z	0.015	0.015	0	%100
62	SA-2	Z	0.017	0.017	0	%100
63	SA-3	Z	0	0	0	%100
64	MP-2	Z	0.01	0.01	0	%100
65	MP-3	Z	0.01	0.01	0	%100
66	MP-1	Z	0.01	0.01	0	%100
67	MP-5	Z	0.01	0.01	0	%100
68	MP-6	Z	0.01	0.01	0	%100
69	MP-4	Z	0.01	0.01	0	%100
70	MP-8	Z	0.01	0.01	0	%100
71	MP-9	Z	0.01	0.01	0	%100
72	MP-7	Z	0.01	0.01	0	%100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.004	-0.004	0	%100
2	CP-2	X	-0.012	-0.012	0	%100
3	CP-3	X	-0.017	-0.017	0	%100
4	FF-TH	X	-0.006	-0.006	0	%100
5	SF1-TH	X	-0.007	-0.007	0	%100
6	SF2-TH	X	-0.002	-0.002	0	%100
7	GSIP-1A	X	-0.007	-0.007	0	%100
8	GSIP-1B	X	-0.007	-0.007	0	%100
9	GSIP-2A	X	-0.007	-0.007	0	%100
10	GSIP-2B	X	-0.002	-0.002	0	%100
11	GSIP-3A	X	-0.002	-0.002	0	%100
12	GSIP-3B	X	-0.007	-0.007	0	%100
13	FF-HR	X	-0.005	-0.005	0	%100
14	SF1-HR	X	-0.007	-0.007	0	%100
15	SF2-HR	X	-0.002	-0.002	0	%100
16	HRC-1	X	-0.002	-0.002	0	%100
17	HRC-2	X	-0.006	-0.006	0	%100
18	HRC-3	X	-0.007	-0.007	0	%100
19	GSI-1A	X	-0.003	-0.003	0	%100
20	GSI-1B	X	-0.003	-0.003	0	%100
21	GSI-2A	X	-0.01	-0.01	0	%100
22	GSI-2B	X	-0.01	-0.01	0	%100
23	GSI-3A	X	-0.012	-0.012	0	%100
24	GSI-3B	X	-0.012	-0.012	0	%100
25	SA-1	X	-0.015	-0.015	0	%100
26	SA-2	X	-0.008	-0.008	0	%100
27	SA-3	X	-0.004	-0.004	0	%100
28	MP-2	X	-0.008	-0.008	0	%100
29	MP-3	X	-0.008	-0.008	0	%100
30	MP-1	X	-0.008	-0.008	0	%100
31	MP-5	X	-0.008	-0.008	0	%100
32	MP-6	X	-0.008	-0.008	0	%100
33	MP-4	X	-0.008	-0.008	0	%100
34	MP-8	X	-0.008	-0.008	0	%100
35	MP-9	X	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
36	MP-7	X	-0.008	-0.008	0	%100
37	CP-1	Z	0.004	0.004	0	%100
38	CP-2	Z	0.012	0.012	0	%100
39	CP-3	Z	0.017	0.017	0	%100
40	FF-TH	Z	0.006	0.006	0	%100
41	SF1-TH	Z	0.008	0.008	0	%100
42	SF2-TH	Z	0.002	0.002	0	%100
43	GSIP-1A	Z	0.007	0.007	0	%100
44	GSIP-1B	Z	0.009	0.009	0	%100
45	GSIP-2A	Z	0.009	0.009	0	%100
46	GSIP-2B	Z	0.002	0.002	0	%100
47	GSIP-3A	Z	0.002	0.002	0	%100
48	GSIP-3B	Z	0.007	0.007	0	%100
49	FF-HR	Z	0.005	0.005	0	%100
50	SF1-HR	Z	0.007	0.007	0	%100
51	SF2-HR	Z	0.002	0.002	0	%100
52	HRC-1	Z	0.002	0.002	0	%100
53	HRC-2	Z	0.006	0.006	0	%100
54	HRC-3	Z	0.008	0.008	0	%100
55	GSI-1A	Z	0.003	0.003	0	%100
56	GSI-1B	Z	0.003	0.003	0	%100
57	GSI-2A	Z	0.01	0.01	0	%100
58	GSI-2B	Z	0.01	0.01	0	%100
59	GSI-3A	Z	0.013	0.013	0	%100
60	GSI-3B	Z	0.013	0.013	0	%100
61	SA-1	Z	0.013	0.013	0	%100
62	SA-2	Z	0.011	0.011	0	%100
63	SA-3	Z	0.004	0.004	0	%100
64	MP-2	Z	0.008	0.008	0	%100
65	MP-3	Z	0.008	0.008	0	%100
66	MP-1	Z	0.008	0.008	0	%100
67	MP-5	Z	0.008	0.008	0	%100
68	MP-6	Z	0.008	0.008	0	%100
69	MP-4	Z	0.008	0.008	0	%100
70	MP-8	Z	0.008	0.008	0	%100
71	MP-9	Z	0.008	0.008	0	%100
72	MP-7	Z	0.008	0.008	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0	0	0	%100
2	CP-2	X	-0.018	-0.018	0	%100
3	CP-3	X	-0.018	-0.018	0	%100
4	FF-TH	X	-0.009	-0.009	0	%100
5	SF1-TH	X	-0.008	-0.008	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	-0.01	-0.01	0	%100
8	GSIP-1B	X	-0.008	-0.008	0	%100
9	GSIP-2A	X	-0.008	-0.008	0	%100
10	GSIP-2B	X	-1e-6	-1e-6	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	-0.01	-0.01	0	%100
13	FF-HR	X	-0.007	-0.007	0	%100
14	SF1-HR	X	-0.007	-0.007	0	%100
15	SF2-HR	X	0	0	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	HRC-1	X	0	0	0	%100
17	HRC-2	X	-0.009	-0.009	0	%100
18	HRC-3	X	-0.008	-0.008	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	0	0	0	%100
21	GSI-2A	X	-0.014	-0.014	0	%100
22	GSI-2B	X	-0.014	-0.014	0	%100
23	GSI-3A	X	-0.013	-0.013	0	%100
24	GSI-3B	X	-0.013	-0.013	0	%100
25	SA-1	X	-0.019	-0.019	0	%100
26	SA-2	X	-0.007	-0.007	0	%100
27	SA-3	X	-0.009	-0.009	0	%100
28	MP-2	X	-0.01	-0.01	0	%100
29	MP-3	X	-0.01	-0.01	0	%100
30	MP-1	X	-0.01	-0.01	0	%100
31	MP-5	X	-0.01	-0.01	0	%100
32	MP-6	X	-0.01	-0.01	0	%100
33	MP-4	X	-0.01	-0.01	0	%100
34	MP-8	X	-0.01	-0.01	0	%100
35	MP-9	X	-0.01	-0.01	0	%100
36	MP-7	X	-0.01	-0.01	0	%100
37	CP-1	Z	0	0	0	%100
38	CP-2	Z	0.011	0.011	0	%100
39	CP-3	Z	0.011	0.011	0	%100
40	FF-TH	Z	0.005	0.005	0	%100
41	SF1-TH	Z	0.005	0.005	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1A	Z	0.006	0.006	0	%100
44	GSIP-1B	Z	0.006	0.006	0	%100
45	GSIP-2A	Z	0.006	0.006	0	%100
46	GSIP-2B	Z	0	0	0	%100
47	GSIP-3A	Z	0	0	0	%100
48	GSIP-3B	Z	0.006	0.006	0	%100
49	FF-HR	Z	0.004	0.004	0	%100
50	SF1-HR	Z	0.004	0.004	0	%100
51	SF2-HR	Z	0	0	0	%100
52	HRC-1	Z	0	0	0	%100
53	HRC-2	Z	0.005	0.005	0	%100
54	HRC-3	Z	0.005	0.005	0	%100
55	GSI-1A	Z	0	0	0	%100
56	GSI-1B	Z	0	0	0	%100
57	GSI-2A	Z	0.008	0.008	0	%100
58	GSI-2B	Z	0.008	0.008	0	%100
59	GSI-3A	Z	0.008	0.008	0	%100
60	GSI-3B	Z	0.008	0.008	0	%100
61	SA-1	Z	0.01	0.01	0	%100
62	SA-2	Z	0.006	0.006	0	%100
63	SA-3	Z	0.005	0.005	0	%100
64	MP-2	Z	0.006	0.006	0	%100
65	MP-3	Z	0.006	0.006	0	%100
66	MP-1	Z	0.006	0.006	0	%100
67	MP-5	Z	0.006	0.006	0	%100
68	MP-6	Z	0.006	0.006	0	%100
69	MP-4	Z	0.006	0.006	0	%100
70	MP-8	Z	0.006	0.006	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP-9	Z	0.006	0.006	0	%100
72	MP-7	Z	0.006	0.006	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	Y	-0.013	-0.013	0	%100
2	CP-2	Y	-0.013	-0.013	0	%100
3	CP-3	Y	-0.013	-0.013	0	%100
4	FF-TH	Y	-0.007	-0.007	0	%100
5	SF1-TH	Y	-0.007	-0.007	0	%100
6	SF2-TH	Y	-0.007	-0.007	0	%100
7	GSIP-1A	Y	-0.004	-0.004	0	%100
8	GSIP-1B	Y	-0.004	-0.004	0	%100
9	GSIP-2A	Y	-0.004	-0.004	0	%100
10	GSIP-2B	Y	-0.004	-0.004	0	%100
11	GSIP-3A	Y	-0.004	-0.004	0	%100
12	GSIP-3B	Y	-0.004	-0.004	0	%100
13	FF-HR	Y	-0.005	-0.005	0	%100
14	SF1-HR	Y	-0.005	-0.005	0	%100
15	SF2-HR	Y	-0.005	-0.005	0	%100
16	HRC-1	Y	-0.005	-0.005	0	%100
17	HRC-2	Y	-0.005	-0.005	0	%100
18	HRC-3	Y	-0.005	-0.005	0	%100
19	GSI-1A	Y	-0.008	-0.008	0	%100
20	GSI-1B	Y	-0.008	-0.008	0	%100
21	GSI-2A	Y	-0.008	-0.008	0	%100
22	GSI-2B	Y	-0.008	-0.008	0	%100
23	GSI-3A	Y	-0.008	-0.008	0	%100
24	GSI-3B	Y	-0.008	-0.008	0	%100
25	SA-1	Y	-0.007	-0.007	0	%100
26	SA-2	Y	-0.007	-0.007	0	%100
27	SA-3	Y	-0.007	-0.007	0	%100
28	MP-2	Y	-0.006	-0.006	0	%100
29	MP-3	Y	-0.006	-0.006	0	%100
30	MP-1	Y	-0.006	-0.006	0	%100
31	MP-5	Y	-0.006	-0.006	0	%100
32	MP-6	Y	-0.006	-0.006	0	%100
33	MP-4	Y	-0.006	-0.006	0	%100
34	MP-8	Y	-0.006	-0.006	0	%100
35	MP-9	Y	-0.006	-0.006	0	%100
36	MP-7	Y	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.006	-0.006	0	%100
2	CP-2	X	-0.006	-0.006	0	%100
3	CP-3	X	-0.006	-0.006	0	%100
4	FF-TH	X	-0.003	-0.003	0	%100
5	SF1-TH	X	-0.003	-0.003	0	%100
6	SF2-TH	X	-0.003	-0.003	0	%100
7	GSIP-1A	X	-0.003	-0.003	0	%100
8	GSIP-1B	X	-0.003	-0.003	0	%100
9	GSIP-2A	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
10	GSIP-2B	X	-0.003	-0.003	0	%100
11	GSIP-3A	X	-0.003	-0.003	0	%100
12	GSIP-3B	X	-0.003	-0.003	0	%100
13	FF-HR	X	-0.003	-0.003	0	%100
14	SF1-HR	X	-0.002	-0.002	0	%100
15	SF2-HR	X	-0.002	-0.002	0	%100
16	HRC-1	X	-0.003	-0.003	0	%100
17	HRC-2	X	-0.003	-0.003	0	%100
18	HRC-3	X	-0.003	-0.003	0	%100
19	GSI-1A	X	-0.004	-0.004	0	%100
20	GSI-1B	X	-0.004	-0.004	0	%100
21	GSI-2A	X	-0.004	-0.004	0	%100
22	GSI-2B	X	-0.004	-0.004	0	%100
23	GSI-3A	X	-0.004	-0.004	0	%100
24	GSI-3B	X	-0.004	-0.004	0	%100
25	SA-1	X	-0.005	-0.005	0	%100
26	SA-2	X	-0.004	-0.004	0	%100
27	SA-3	X	-0.005	-0.005	0	%100
28	MP-2	X	-0.003	-0.003	0	%100
29	MP-3	X	-0.003	-0.003	0	%100
30	MP-1	X	-0.003	-0.003	0	%100
31	MP-5	X	-0.003	-0.003	0	%100
32	MP-6	X	-0.003	-0.003	0	%100
33	MP-4	X	-0.003	-0.003	0	%100
34	MP-8	X	-0.003	-0.003	0	%100
35	MP-9	X	-0.003	-0.003	0	%100
36	MP-7	X	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.004	-0.004	0	%100
2	CP-2	X	-0.004	-0.004	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	-0.003	-0.003	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	-0.002	-0.002	0	%100
7	GSIP-1A	X	-0.003	-0.003	0	%100
8	GSIP-1B	X	0	0	0	%100
9	GSIP-2A	X	0	0	0	%100
10	GSIP-2B	X	-0.002	-0.002	0	%100
11	GSIP-3A	X	-0.002	-0.002	0	%100
12	GSIP-3B	X	-0.003	-0.003	0	%100
13	FF-HR	X	-0.002	-0.002	0	%100
14	SF1-HR	X	0	0	0	%100
15	SF2-HR	X	-0.002	-0.002	0	%100
16	HRC-1	X	-0.002	-0.002	0	%100
17	HRC-2	X	-0.003	-0.003	0	%100
18	HRC-3	X	0	0	0	%100
19	GSI-1A	X	-0.003	-0.003	0	%100
20	GSI-1B	X	-0.003	-0.003	0	%100
21	GSI-2A	X	-0.003	-0.003	0	%100
22	GSI-2B	X	-0.003	-0.003	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	0	0	0	%100
25	SA-1	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
26	SA-2	X	-0.002	-0.002	0	%100
27	SA-3	X	-0.004	-0.004	0	%100
28	MP-2	X	-0.002	-0.002	0	%100
29	MP-3	X	-0.002	-0.002	0	%100
30	MP-1	X	-0.002	-0.002	0	%100
31	MP-5	X	-0.002	-0.002	0	%100
32	MP-6	X	-0.002	-0.002	0	%100
33	MP-4	X	-0.002	-0.002	0	%100
34	MP-8	X	-0.002	-0.002	0	%100
35	MP-9	X	-0.002	-0.002	0	%100
36	MP-7	X	-0.002	-0.002	0	%100
37	CP-1	Z	-0.003	-0.003	0	%100
38	CP-2	Z	-0.002	-0.002	0	%100
39	CP-3	Z	0	0	0	%100
40	FF-TH	Z	-0.001	-0.001	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	-0.001	-0.001	0	%100
43	GSIP-1A	Z	-0.001	-0.001	0	%100
44	GSIP-1B	Z	0	0	0	%100
45	GSIP-2A	Z	0	0	0	%100
46	GSIP-2B	Z	-0.001	-0.001	0	%100
47	GSIP-3A	Z	-0.001	-0.001	0	%100
48	GSIP-3B	Z	-0.001	-0.001	0	%100
49	FF-HR	Z	-0.001	-0.001	0	%100
50	SF1-HR	Z	0	0	0	%100
51	SF2-HR	Z	-0.001	-0.001	0	%100
52	HRC-1	Z	-0.001	-0.001	0	%100
53	HRC-2	Z	-0.001	-0.001	0	%100
54	HRC-3	Z	0	0	0	%100
55	GSI-1A	Z	-0.002	-0.002	0	%100
56	GSI-1B	Z	-0.002	-0.002	0	%100
57	GSI-2A	Z	-0.002	-0.002	0	%100
58	GSI-2B	Z	-0.002	-0.002	0	%100
59	GSI-3A	Z	0	0	0	%100
60	GSI-3B	Z	0	0	0	%100
61	SA-1	Z	-0.001	-0.001	0	%100
62	SA-2	Z	-0.001	-0.001	0	%100
63	SA-3	Z	-0.002	-0.002	0	%100
64	MP-2	Z	-0.001	-0.001	0	%100
65	MP-3	Z	-0.001	-0.001	0	%100
66	MP-1	Z	-0.001	-0.001	0	%100
67	MP-5	Z	-0.001	-0.001	0	%100
68	MP-6	Z	-0.001	-0.001	0	%100
69	MP-4	Z	-0.001	-0.001	0	%100
70	MP-8	Z	-0.001	-0.001	0	%100
71	MP-9	Z	-0.001	-0.001	0	%100
72	MP-7	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.004	-0.004	0	%100
2	CP-2	X	-0.003	-0.003	0	%100
3	CP-3	X	-0.001	-0.001	0	%100
4	FF-TH	X	-0.002	-0.002	0	%100
5	SF1-TH	X	-0.000501	-0.000501	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
6	SF2-TH	X	-0.002	-0.002	0	%100
7	GSIP-1A	X	-0.002	-0.002	0	%100
8	GSIP-1B	X	-0.000557	-0.000557	0	%100
9	GSIP-2A	X	-0.000557	-0.000557	0	%100
10	GSIP-2B	X	-0.002	-0.002	0	%100
11	GSIP-3A	X	-0.002	-0.002	0	%100
12	GSIP-3B	X	-0.002	-0.002	0	%100
13	FF-HR	X	-0.001	-0.001	0	%100
14	SF1-HR	X	-0.000434	-0.000434	0	%100
15	SF2-HR	X	-0.002	-0.002	0	%100
16	HRC-1	X	-0.002	-0.002	0	%100
17	HRC-2	X	-0.002	-0.002	0	%100
18	HRC-3	X	-0.000602	-0.000602	0	%100
19	GSI-1A	X	-0.003	-0.003	0	%100
20	GSI-1B	X	-0.003	-0.003	0	%100
21	GSI-2A	X	-0.002	-0.002	0	%100
22	GSI-2B	X	-0.002	-0.002	0	%100
23	GSI-3A	X	-0.000743	-0.000743	0	%100
24	GSI-3B	X	-0.000743	-0.000743	0	%100
25	SA-1	X	-0.000865	-0.000865	0	%100
26	SA-2	X	-0.002	-0.002	0	%100
27	SA-3	X	-0.003	-0.003	0	%100
28	MP-2	X	-0.002	-0.002	0	%100
29	MP-3	X	-0.002	-0.002	0	%100
30	MP-1	X	-0.002	-0.002	0	%100
31	MP-5	X	-0.002	-0.002	0	%100
32	MP-6	X	-0.002	-0.002	0	%100
33	MP-4	X	-0.002	-0.002	0	%100
34	MP-8	X	-0.002	-0.002	0	%100
35	MP-9	X	-0.002	-0.002	0	%100
36	MP-7	X	-0.002	-0.002	0	%100
37	CP-1	Z	-0.004	-0.004	0	%100
38	CP-2	Z	-0.003	-0.003	0	%100
39	CP-3	Z	-0.001	-0.001	0	%100
40	FF-TH	Z	-0.002	-0.002	0	%100
41	SF1-TH	Z	-0.000613	-0.000613	0	%100
42	SF2-TH	Z	-0.002	-0.002	0	%100
43	GSIP-1A	Z	-0.002	-0.002	0	%100
44	GSIP-1B	Z	-0.000617	-0.000617	0	%100
45	GSIP-2A	Z	-0.000617	-0.000617	0	%100
46	GSIP-2B	Z	-0.002	-0.002	0	%100
47	GSIP-3A	Z	-0.002	-0.002	0	%100
48	GSIP-3B	Z	-0.002	-0.002	0	%100
49	FF-HR	Z	-0.001	-0.001	0	%100
50	SF1-HR	Z	-0.000516	-0.000516	0	%100
51	SF2-HR	Z	-0.002	-0.002	0	%100
52	HRC-1	Z	-0.002	-0.002	0	%100
53	HRC-2	Z	-0.002	-0.002	0	%100
54	HRC-3	Z	-0.000617	-0.000617	0	%100
55	GSI-1A	Z	-0.003	-0.003	0	%100
56	GSI-1B	Z	-0.003	-0.003	0	%100
57	GSI-2A	Z	-0.002	-0.002	0	%100
58	GSI-2B	Z	-0.002	-0.002	0	%100
59	GSI-3A	Z	-0.000792	-0.000792	0	%100
60	GSI-3B	Z	-0.000792	-0.000792	0	%100

Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
61	SA-1	Z	-0.000783	-0.000783	0	%100
62	SA-2	Z	-0.002	-0.002	0	%100
63	SA-3	Z	-0.003	-0.003	0	%100
64	MP-2	Z	-0.002	-0.002	0	%100
65	MP-3	Z	-0.002	-0.002	0	%100
66	MP-1	Z	-0.002	-0.002	0	%100
67	MP-5	Z	-0.002	-0.002	0	%100
68	MP-6	Z	-0.002	-0.002	0	%100
69	MP-4	Z	-0.002	-0.002	0	%100
70	MP-8	Z	-0.002	-0.002	0	%100
71	MP-9	Z	-0.002	-0.002	0	%100
72	MP-7	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.003	-0.003	0	%100
2	CP-2	X	-0.001	-0.001	0	%100
3	CP-3	X	-0.001	-0.001	0	%100
4	FF-TH	X	-0.000873	-0.000873	0	%100
5	SF1-TH	X	-0.000684	-0.000684	0	%100
6	SF2-TH	X	-0.001	-0.001	0	%100
7	GSIP-1A	X	-0.000871	-0.000871	0	%100
8	GSIP-1B	X	-0.00076	-0.00076	0	%100
9	GSIP-2A	X	-0.00076	-0.00076	0	%100
10	GSIP-2B	X	-0.002	-0.002	0	%100
11	GSIP-3A	X	-0.002	-0.002	0	%100
12	GSIP-3B	X	-0.000871	-0.000871	0	%100
13	FF-HR	X	-0.000704	-0.000704	0	%100
14	SF1-HR	X	-0.000593	-0.000593	0	%100
15	SF2-HR	X	-0.001	-0.001	0	%100
16	HRC-1	X	-0.002	-0.002	0	%100
17	HRC-2	X	-0.000855	-0.000855	0	%100
18	HRC-3	X	-0.000822	-0.000822	0	%100
19	GSI-1A	X	-0.002	-0.002	0	%100
20	GSI-1B	X	-0.002	-0.002	0	%100
21	GSI-2A	X	-0.001	-0.001	0	%100
22	GSI-2B	X	-0.001	-0.001	0	%100
23	GSI-3A	X	-0.001	-0.001	0	%100
24	GSI-3B	X	-0.001	-0.001	0	%100
25	SA-1	X	0	0	0	%100
26	SA-2	X	-0.002	-0.002	0	%100
27	SA-3	X	-0.002	-0.002	0	%100
28	MP-2	X	-0.001	-0.001	0	%100
29	MP-3	X	-0.001	-0.001	0	%100
30	MP-1	X	-0.001	-0.001	0	%100
31	MP-5	X	-0.001	-0.001	0	%100
32	MP-6	X	-0.001	-0.001	0	%100
33	MP-4	X	-0.001	-0.001	0	%100
34	MP-8	X	-0.001	-0.001	0	%100
35	MP-9	X	-0.001	-0.001	0	%100
36	MP-7	X	-0.001	-0.001	0	%100
37	CP-1	Z	-0.005	-0.005	0	%100
38	CP-2	Z	-0.002	-0.002	0	%100
39	CP-3	Z	-0.003	-0.003	0	%100
40	FF-TH	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
41	SF1-TH	Z	-0.001	-0.001	0	%100
42	SF2-TH	Z	-0.003	-0.003	0	%100
43	GSIP-1A	Z	-0.001	-0.001	0	%100
44	GSIP-1B	Z	-0.001	-0.001	0	%100
45	GSIP-2A	Z	-0.001	-0.001	0	%100
46	GSIP-2B	Z	-0.003	-0.003	0	%100
47	GSIP-3A	Z	-0.003	-0.003	0	%100
48	GSIP-3B	Z	-0.001	-0.001	0	%100
49	FF-HR	Z	-0.001	-0.001	0	%100
50	SF1-HR	Z	-0.001	-0.001	0	%100
51	SF2-HR	Z	-0.002	-0.002	0	%100
52	HRC-1	Z	-0.003	-0.003	0	%100
53	HRC-2	Z	-0.001	-0.001	0	%100
54	HRC-3	Z	-0.001	-0.001	0	%100
55	GSI-1A	Z	-0.004	-0.004	0	%100
56	GSI-1B	Z	-0.004	-0.004	0	%100
57	GSI-2A	Z	-0.002	-0.002	0	%100
58	GSI-2B	Z	-0.002	-0.002	0	%100
59	GSI-3A	Z	-0.002	-0.002	0	%100
60	GSI-3B	Z	-0.002	-0.002	0	%100
61	SA-1	Z	0	0	0	%100
62	SA-2	Z	-0.004	-0.004	0	%100
63	SA-3	Z	-0.003	-0.003	0	%100
64	MP-2	Z	-0.002	-0.002	0	%100
65	MP-3	Z	-0.002	-0.002	0	%100
66	MP-1	Z	-0.002	-0.002	0	%100
67	MP-5	Z	-0.002	-0.002	0	%100
68	MP-6	Z	-0.002	-0.002	0	%100
69	MP-4	Z	-0.002	-0.002	0	%100
70	MP-8	Z	-0.002	-0.002	0	%100
71	MP-9	Z	-0.002	-0.002	0	%100
72	MP-7	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	Z	-0.005	-0.005	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.005	-0.005	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	-0.003	-0.003	0	%100
6	SF2-TH	Z	-0.003	-0.003	0	%100
7	GSIP-1A	Z	0	0	0	%100
8	GSIP-1B	Z	-0.003	-0.003	0	%100
9	GSIP-2A	Z	-0.003	-0.003	0	%100
10	GSIP-2B	Z	-0.003	-0.003	0	%100
11	GSIP-3A	Z	-0.003	-0.003	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	FF-HR	Z	0	0	0	%100
14	SF1-HR	Z	-0.002	-0.002	0	%100
15	SF2-HR	Z	-0.002	-0.002	0	%100
16	HRC-1	Z	-0.003	-0.003	0	%100
17	HRC-2	Z	0	0	0	%100
18	HRC-3	Z	-0.003	-0.003	0	%100
19	GSI-1A	Z	-0.004	-0.004	0	%100
20	GSI-1B	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
21	GSI-2A	Z	0	0	0	%100
22	GSI-2B	Z	0	0	0	%100
23	GSI-3A	Z	-0.004	-0.004	0	%100
24	GSI-3B	Z	-0.004	-0.004	0	%100
25	SA-1	Z	-0.002	-0.002	0	%100
26	SA-2	Z	-0.005	-0.005	0	%100
27	SA-3	Z	-0.002	-0.002	0	%100
28	MP-2	Z	-0.003	-0.003	0	%100
29	MP-3	Z	-0.003	-0.003	0	%100
30	MP-1	Z	-0.003	-0.003	0	%100
31	MP-5	Z	-0.003	-0.003	0	%100
32	MP-6	Z	-0.003	-0.003	0	%100
33	MP-4	Z	-0.003	-0.003	0	%100
34	MP-8	Z	-0.003	-0.003	0	%100
35	MP-9	Z	-0.003	-0.003	0	%100
36	MP-7	Z	-0.003	-0.003	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.001	0.001	0	%100
2	CP-2	X	0.001	0.001	0	%100
3	CP-3	X	0.003	0.003	0	%100
4	FF-TH	X	0.000873	0.000873	0	%100
5	SF1-TH	X	0.001	0.001	0	%100
6	SF2-TH	X	0.000684	0.000684	0	%100
7	GSIP-1A	X	0.000871	0.000871	0	%100
8	GSIP-1B	X	0.002	0.002	0	%100
9	GSIP-2A	X	0.002	0.002	0	%100
10	GSIP-2B	X	0.00076	0.00076	0	%100
11	GSIP-3A	X	0.00076	0.00076	0	%100
12	GSIP-3B	X	0.000871	0.000871	0	%100
13	FF-HR	X	0.000704	0.000704	0	%100
14	SF1-HR	X	0.001	0.001	0	%100
15	SF2-HR	X	0.000593	0.000593	0	%100
16	HRC-1	X	0.000822	0.000822	0	%100
17	HRC-2	X	0.000855	0.000855	0	%100
18	HRC-3	X	0.002	0.002	0	%100
19	GSI-1A	X	0.001	0.001	0	%100
20	GSI-1B	X	0.001	0.001	0	%100
21	GSI-2A	X	0.001	0.001	0	%100
22	GSI-2B	X	0.001	0.001	0	%100
23	GSI-3A	X	0.002	0.002	0	%100
24	GSI-3B	X	0.002	0.002	0	%100
25	SA-1	X	0.002	0.002	0	%100
26	SA-2	X	0.002	0.002	0	%100
27	SA-3	X	0	0	0	%100
28	MP-2	X	0.001	0.001	0	%100
29	MP-3	X	0.001	0.001	0	%100
30	MP-1	X	0.001	0.001	0	%100
31	MP-5	X	0.001	0.001	0	%100
32	MP-6	X	0.001	0.001	0	%100
33	MP-4	X	0.001	0.001	0	%100
34	MP-8	X	0.001	0.001	0	%100
35	MP-9	X	0.001	0.001	0	%100
36	MP-7	X	0.001	0.001	0	%100

Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
37	CP-1	Z	-0.003	-0.003	0	%100
38	CP-2	Z	-0.002	-0.002	0	%100
39	CP-3	Z	-0.005	-0.005	0	%100
40	FF-TH	Z	-0.001	-0.001	0	%100
41	SF1-TH	Z	-0.003	-0.003	0	%100
42	SF2-TH	Z	-0.001	-0.001	0	%100
43	GSIP-1A	Z	-0.001	-0.001	0	%100
44	GSIP-1B	Z	-0.003	-0.003	0	%100
45	GSIP-2A	Z	-0.003	-0.003	0	%100
46	GSIP-2B	Z	-0.001	-0.001	0	%100
47	GSIP-3A	Z	-0.001	-0.001	0	%100
48	GSIP-3B	Z	-0.001	-0.001	0	%100
49	FF-HR	Z	-0.001	-0.001	0	%100
50	SF1-HR	Z	-0.002	-0.002	0	%100
51	SF2-HR	Z	-0.001	-0.001	0	%100
52	HRC-1	Z	-0.001	-0.001	0	%100
53	HRC-2	Z	-0.001	-0.001	0	%100
54	HRC-3	Z	-0.003	-0.003	0	%100
55	GSI-1A	Z	-0.002	-0.002	0	%100
56	GSI-1B	Z	-0.002	-0.002	0	%100
57	GSI-2A	Z	-0.002	-0.002	0	%100
58	GSI-2B	Z	-0.002	-0.002	0	%100
59	GSI-3A	Z	-0.004	-0.004	0	%100
60	GSI-3B	Z	-0.004	-0.004	0	%100
61	SA-1	Z	-0.003	-0.003	0	%100
62	SA-2	Z	-0.004	-0.004	0	%100
63	SA-3	Z	0	0	0	%100
64	MP-2	Z	-0.002	-0.002	0	%100
65	MP-3	Z	-0.002	-0.002	0	%100
66	MP-1	Z	-0.002	-0.002	0	%100
67	MP-5	Z	-0.002	-0.002	0	%100
68	MP-6	Z	-0.002	-0.002	0	%100
69	MP-4	Z	-0.002	-0.002	0	%100
70	MP-8	Z	-0.002	-0.002	0	%100
71	MP-9	Z	-0.002	-0.002	0	%100
72	MP-7	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.001	0.001	0	%100
2	CP-2	X	0.003	0.003	0	%100
3	CP-3	X	0.004	0.004	0	%100
4	FF-TH	X	0.002	0.002	0	%100
5	SF1-TH	X	0.002	0.002	0	%100
6	SF2-TH	X	0.000501	0.000501	0	%100
7	GSIP-1A	X	0.002	0.002	0	%100
8	GSIP-1B	X	0.002	0.002	0	%100
9	GSIP-2A	X	0.002	0.002	0	%100
10	GSIP-2B	X	0.000557	0.000557	0	%100
11	GSIP-3A	X	0.000557	0.000557	0	%100
12	GSIP-3B	X	0.002	0.002	0	%100
13	FF-HR	X	0.001	0.001	0	%100
14	SF1-HR	X	0.002	0.002	0	%100
15	SF2-HR	X	0.000434	0.000434	0	%100
16	HRC-1	X	0.000602	0.000602	0	%100

Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
17	HRC-2	X	0.002	0.002	0	%100
18	HRC-3	X	0.002	0.002	0	%100
19	GSI-1A	X	0.000743	0.000743	0	%100
20	GSI-1B	X	0.000743	0.000743	0	%100
21	GSI-2A	X	0.002	0.002	0	%100
22	GSI-2B	X	0.002	0.002	0	%100
23	GSI-3A	X	0.003	0.003	0	%100
24	GSI-3B	X	0.003	0.003	0	%100
25	SA-1	X	0.003	0.003	0	%100
26	SA-2	X	0.002	0.002	0	%100
27	SA-3	X	0.000865	0.000865	0	%100
28	MP-2	X	0.002	0.002	0	%100
29	MP-3	X	0.002	0.002	0	%100
30	MP-1	X	0.002	0.002	0	%100
31	MP-5	X	0.002	0.002	0	%100
32	MP-6	X	0.002	0.002	0	%100
33	MP-4	X	0.002	0.002	0	%100
34	MP-8	X	0.002	0.002	0	%100
35	MP-9	X	0.002	0.002	0	%100
36	MP-7	X	0.002	0.002	0	%100
37	CP-1	Z	-0.001	-0.001	0	%100
38	CP-2	Z	-0.003	-0.003	0	%100
39	CP-3	Z	-0.004	-0.004	0	%100
40	FF-TH	Z	-0.002	-0.002	0	%100
41	SF1-TH	Z	-0.002	-0.002	0	%100
42	SF2-TH	Z	-0.000613	-0.000613	0	%100
43	GSIP-1A	Z	-0.002	-0.002	0	%100
44	GSIP-1B	Z	-0.002	-0.002	0	%100
45	GSIP-2A	Z	-0.002	-0.002	0	%100
46	GSIP-2B	Z	-0.000617	-0.000617	0	%100
47	GSIP-3A	Z	-0.000617	-0.000617	0	%100
48	GSIP-3B	Z	-0.002	-0.002	0	%100
49	FF-HR	Z	-0.001	-0.001	0	%100
50	SF1-HR	Z	-0.002	-0.002	0	%100
51	SF2-HR	Z	-0.000516	-0.000516	0	%100
52	HRC-1	Z	-0.000617	-0.000617	0	%100
53	HRC-2	Z	-0.002	-0.002	0	%100
54	HRC-3	Z	-0.002	-0.002	0	%100
55	GSI-1A	Z	-0.000792	-0.000792	0	%100
56	GSI-1B	Z	-0.000792	-0.000792	0	%100
57	GSI-2A	Z	-0.002	-0.002	0	%100
58	GSI-2B	Z	-0.002	-0.002	0	%100
59	GSI-3A	Z	-0.003	-0.003	0	%100
60	GSI-3B	Z	-0.003	-0.003	0	%100
61	SA-1	Z	-0.003	-0.003	0	%100
62	SA-2	Z	-0.002	-0.002	0	%100
63	SA-3	Z	-0.000783	-0.000783	0	%100
64	MP-2	Z	-0.002	-0.002	0	%100
65	MP-3	Z	-0.002	-0.002	0	%100
66	MP-1	Z	-0.002	-0.002	0	%100
67	MP-5	Z	-0.002	-0.002	0	%100
68	MP-6	Z	-0.002	-0.002	0	%100
69	MP-4	Z	-0.002	-0.002	0	%100
70	MP-8	Z	-0.002	-0.002	0	%100
71	MP-9	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
72	MP-7	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0	0	0	%100
2	CP-2	X	0.004	0.004	0	%100
3	CP-3	X	0.004	0.004	0	%100
4	FF-TH	X	0.003	0.003	0	%100
5	SF1-TH	X	0.002	0.002	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	0.003	0.003	0	%100
8	GSIP-1B	X	0.002	0.002	0	%100
9	GSIP-2A	X	0.002	0.002	0	%100
10	GSIP-2B	X	0	0	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	0.003	0.003	0	%100
13	FF-HR	X	0.002	0.002	0	%100
14	SF1-HR	X	0.002	0.002	0	%100
15	SF2-HR	X	0	0	0	%100
16	HRC-1	X	0	0	0	%100
17	HRC-2	X	0.003	0.003	0	%100
18	HRC-3	X	0.002	0.002	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	0	0	0	%100
21	GSI-2A	X	0.003	0.003	0	%100
22	GSI-2B	X	0.003	0.003	0	%100
23	GSI-3A	X	0.003	0.003	0	%100
24	GSI-3B	X	0.003	0.003	0	%100
25	SA-1	X	0.004	0.004	0	%100
26	SA-2	X	0.002	0.002	0	%100
27	SA-3	X	0.002	0.002	0	%100
28	MP-2	X	0.002	0.002	0	%100
29	MP-3	X	0.002	0.002	0	%100
30	MP-1	X	0.002	0.002	0	%100
31	MP-5	X	0.002	0.002	0	%100
32	MP-6	X	0.002	0.002	0	%100
33	MP-4	X	0.002	0.002	0	%100
34	MP-8	X	0.002	0.002	0	%100
35	MP-9	X	0.002	0.002	0	%100
36	MP-7	X	0.002	0.002	0	%100
37	CP-1	Z	0	0	0	%100
38	CP-2	Z	-0.002	-0.002	0	%100
39	CP-3	Z	-0.003	-0.003	0	%100
40	FF-TH	Z	-0.001	-0.001	0	%100
41	SF1-TH	Z	-0.001	-0.001	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1A	Z	-0.001	-0.001	0	%100
44	GSIP-1B	Z	-0.001	-0.001	0	%100
45	GSIP-2A	Z	-0.001	-0.001	0	%100
46	GSIP-2B	Z	0	0	0	%100
47	GSIP-3A	Z	0	0	0	%100
48	GSIP-3B	Z	-0.001	-0.001	0	%100
49	FF-HR	Z	-0.001	-0.001	0	%100
50	SF1-HR	Z	-0.001	-0.001	0	%100
51	SF2-HR	Z	0	0	0	%100

Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
52	HRC-1	Z	0	0	0	%100
53	HRC-2	Z	-0.001	-0.001	0	%100
54	HRC-3	Z	-0.001	-0.001	0	%100
55	GSI-1A	Z	0	0	0	%100
56	GSI-1B	Z	0	0	0	%100
57	GSI-2A	Z	-0.002	-0.002	0	%100
58	GSI-2B	Z	-0.002	-0.002	0	%100
59	GSI-3A	Z	-0.002	-0.002	0	%100
60	GSI-3B	Z	-0.002	-0.002	0	%100
61	SA-1	Z	-0.002	-0.002	0	%100
62	SA-2	Z	-0.001	-0.001	0	%100
63	SA-3	Z	-0.001	-0.001	0	%100
64	MP-2	Z	-0.001	-0.001	0	%100
65	MP-3	Z	-0.001	-0.001	0	%100
66	MP-1	Z	-0.001	-0.001	0	%100
67	MP-5	Z	-0.001	-0.001	0	%100
68	MP-6	Z	-0.001	-0.001	0	%100
69	MP-4	Z	-0.001	-0.001	0	%100
70	MP-8	Z	-0.001	-0.001	0	%100
71	MP-9	Z	-0.001	-0.001	0	%100
72	MP-7	Z	-0.001	-0.001	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.006	0.006	0	%100
2	CP-2	X	0.006	0.006	0	%100
3	CP-3	X	0.006	0.006	0	%100
4	FF-TH	X	0.003	0.003	0	%100
5	SF1-TH	X	0.003	0.003	0	%100
6	SF2-TH	X	0.003	0.003	0	%100
7	GSIP-1A	X	0.003	0.003	0	%100
8	GSIP-1B	X	0.003	0.003	0	%100
9	GSIP-2A	X	0.003	0.003	0	%100
10	GSIP-2B	X	0.003	0.003	0	%100
11	GSIP-3A	X	0.003	0.003	0	%100
12	GSIP-3B	X	0.003	0.003	0	%100
13	FF-HR	X	0.003	0.003	0	%100
14	SF1-HR	X	0.002	0.002	0	%100
15	SF2-HR	X	0.002	0.002	0	%100
16	HRC-1	X	0.003	0.003	0	%100
17	HRC-2	X	0.003	0.003	0	%100
18	HRC-3	X	0.003	0.003	0	%100
19	GSI-1A	X	0.004	0.004	0	%100
20	GSI-1B	X	0.004	0.004	0	%100
21	GSI-2A	X	0.004	0.004	0	%100
22	GSI-2B	X	0.004	0.004	0	%100
23	GSI-3A	X	0.004	0.004	0	%100
24	GSI-3B	X	0.004	0.004	0	%100
25	SA-1	X	0.005	0.005	0	%100
26	SA-2	X	0.004	0.004	0	%100
27	SA-3	X	0.005	0.005	0	%100
28	MP-2	X	0.003	0.003	0	%100
29	MP-3	X	0.003	0.003	0	%100
30	MP-1	X	0.003	0.003	0	%100
31	MP-5	X	0.003	0.003	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
32	MP-6	X	0.003	0.003	0	%100
33	MP-4	X	0.003	0.003	0	%100
34	MP-8	X	0.003	0.003	0	%100
35	MP-9	X	0.003	0.003	0	%100
36	MP-7	X	0.003	0.003	0	%100

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.004	0.004	0	%100
2	CP-2	X	0.004	0.004	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	0.003	0.003	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	0.002	0.002	0	%100
7	GSIP-1A	X	0.003	0.003	0	%100
8	GSIP-1B	X	0	0	0	%100
9	GSIP-2A	X	0	0	0	%100
10	GSIP-2B	X	0.002	0.002	0	%100
11	GSIP-3A	X	0.002	0.002	0	%100
12	GSIP-3B	X	0.003	0.003	0	%100
13	FF-HR	X	0.002	0.002	0	%100
14	SF1-HR	X	0	0	0	%100
15	SF2-HR	X	0.002	0.002	0	%100
16	HRC-1	X	0.002	0.002	0	%100
17	HRC-2	X	0.003	0.003	0	%100
18	HRC-3	X	0	0	0	%100
19	GSI-1A	X	0.003	0.003	0	%100
20	GSI-1B	X	0.003	0.003	0	%100
21	GSI-2A	X	0.003	0.003	0	%100
22	GSI-2B	X	0.003	0.003	0	%100
23	GSI-3A	X	0	0	0	%100
24	GSI-3B	X	0	0	0	%100
25	SA-1	X	0.002	0.002	0	%100
26	SA-2	X	0.002	0.002	0	%100
27	SA-3	X	0.004	0.004	0	%100
28	MP-2	X	0.002	0.002	0	%100
29	MP-3	X	0.002	0.002	0	%100
30	MP-1	X	0.002	0.002	0	%100
31	MP-5	X	0.002	0.002	0	%100
32	MP-6	X	0.002	0.002	0	%100
33	MP-4	X	0.002	0.002	0	%100
34	MP-8	X	0.002	0.002	0	%100
35	MP-9	X	0.002	0.002	0	%100
36	MP-7	X	0.002	0.002	0	%100
37	CP-1	Z	0.003	0.003	0	%100
38	CP-2	Z	0.002	0.002	0	%100
39	CP-3	Z	0	0	0	%100
40	FF-TH	Z	0.001	0.001	0	%100
41	SF1-TH	Z	0	0	0	%100
42	SF2-TH	Z	0.001	0.001	0	%100
43	GSIP-1A	Z	0.001	0.001	0	%100
44	GSIP-1B	Z	0	0	0	%100
45	GSIP-2A	Z	0	0	0	%100
46	GSIP-2B	Z	0.001	0.001	0	%100
47	GSIP-3A	Z	0.001	0.001	0	%100

Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
48	GSIP-3B	Z	0.001	0.001	0	%100
49	FF-HR	Z	0.001	0.001	0	%100
50	SF1-HR	Z	0	0	0	%100
51	SF2-HR	Z	0.001	0.001	0	%100
52	HRC-1	Z	0.001	0.001	0	%100
53	HRC-2	Z	0.001	0.001	0	%100
54	HRC-3	Z	0	0	0	%100
55	GSI-1A	Z	0.002	0.002	0	%100
56	GSI-1B	Z	0.002	0.002	0	%100
57	GSI-2A	Z	0.002	0.002	0	%100
58	GSI-2B	Z	0.002	0.002	0	%100
59	GSI-3A	Z	0	0	0	%100
60	GSI-3B	Z	0	0	0	%100
61	SA-1	Z	0.001	0.001	0	%100
62	SA-2	Z	0.001	0.001	0	%100
63	SA-3	Z	0.002	0.002	0	%100
64	MP-2	Z	0.001	0.001	0	%100
65	MP-3	Z	0.001	0.001	0	%100
66	MP-1	Z	0.001	0.001	0	%100
67	MP-5	Z	0.001	0.001	0	%100
68	MP-6	Z	0.001	0.001	0	%100
69	MP-4	Z	0.001	0.001	0	%100
70	MP-8	Z	0.001	0.001	0	%100
71	MP-9	Z	0.001	0.001	0	%100
72	MP-7	Z	0.001	0.001	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.004	0.004	0	%100
2	CP-2	X	0.003	0.003	0	%100
3	CP-3	X	0.001	0.001	0	%100
4	FF-TH	X	0.002	0.002	0	%100
5	SF1-TH	X	0.000501	0.000501	0	%100
6	SF2-TH	X	0.002	0.002	0	%100
7	GSIP-1A	X	0.002	0.002	0	%100
8	GSIP-1B	X	0.000557	0.000557	0	%100
9	GSIP-2A	X	0.000557	0.000557	0	%100
10	GSIP-2B	X	0.002	0.002	0	%100
11	GSIP-3A	X	0.002	0.002	0	%100
12	GSIP-3B	X	0.002	0.002	0	%100
13	FF-HR	X	0.001	0.001	0	%100
14	SF1-HR	X	0.000434	0.000434	0	%100
15	SF2-HR	X	0.002	0.002	0	%100
16	HRC-1	X	0.002	0.002	0	%100
17	HRC-2	X	0.002	0.002	0	%100
18	HRC-3	X	0.000602	0.000602	0	%100
19	GSI-1A	X	0.003	0.003	0	%100
20	GSI-1B	X	0.003	0.003	0	%100
21	GSI-2A	X	0.002	0.002	0	%100
22	GSI-2B	X	0.002	0.002	0	%100
23	GSI-3A	X	0.000743	0.000743	0	%100
24	GSI-3B	X	0.000743	0.000743	0	%100
25	SA-1	X	0.000865	0.000865	0	%100
26	SA-2	X	0.002	0.002	0	%100
27	SA-3	X	0.003	0.003	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
28	MP-2	X	0.002	0.002	0	%100
29	MP-3	X	0.002	0.002	0	%100
30	MP-1	X	0.002	0.002	0	%100
31	MP-5	X	0.002	0.002	0	%100
32	MP-6	X	0.002	0.002	0	%100
33	MP-4	X	0.002	0.002	0	%100
34	MP-8	X	0.002	0.002	0	%100
35	MP-9	X	0.002	0.002	0	%100
36	MP-7	X	0.002	0.002	0	%100
37	CP-1	Z	0.004	0.004	0	%100
38	CP-2	Z	0.003	0.003	0	%100
39	CP-3	Z	0.001	0.001	0	%100
40	FF-TH	Z	0.002	0.002	0	%100
41	SF1-TH	Z	0.000613	0.000613	0	%100
42	SF2-TH	Z	0.002	0.002	0	%100
43	GSIP-1A	Z	0.002	0.002	0	%100
44	GSIP-1B	Z	0.000617	0.000617	0	%100
45	GSIP-2A	Z	0.000617	0.000617	0	%100
46	GSIP-2B	Z	0.002	0.002	0	%100
47	GSIP-3A	Z	0.002	0.002	0	%100
48	GSIP-3B	Z	0.002	0.002	0	%100
49	FF-HR	Z	0.001	0.001	0	%100
50	SF1-HR	Z	0.000516	0.000516	0	%100
51	SF2-HR	Z	0.002	0.002	0	%100
52	HRC-1	Z	0.002	0.002	0	%100
53	HRC-2	Z	0.002	0.002	0	%100
54	HRC-3	Z	0.000617	0.000617	0	%100
55	GSI-1A	Z	0.003	0.003	0	%100
56	GSI-1B	Z	0.003	0.003	0	%100
57	GSI-2A	Z	0.002	0.002	0	%100
58	GSI-2B	Z	0.002	0.002	0	%100
59	GSI-3A	Z	0.000792	0.000792	0	%100
60	GSI-3B	Z	0.000792	0.000792	0	%100
61	SA-1	Z	0.000783	0.000783	0	%100
62	SA-2	Z	0.002	0.002	0	%100
63	SA-3	Z	0.003	0.003	0	%100
64	MP-2	Z	0.002	0.002	0	%100
65	MP-3	Z	0.002	0.002	0	%100
66	MP-1	Z	0.002	0.002	0	%100
67	MP-5	Z	0.002	0.002	0	%100
68	MP-6	Z	0.002	0.002	0	%100
69	MP-4	Z	0.002	0.002	0	%100
70	MP-8	Z	0.002	0.002	0	%100
71	MP-9	Z	0.002	0.002	0	%100
72	MP-7	Z	0.002	0.002	0	%100

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0.003	0.003	0	%100
2	CP-2	X	0.001	0.001	0	%100
3	CP-3	X	0.001	0.001	0	%100
4	FF-TH	X	0.000873	0.000873	0	%100
5	SF1-TH	X	0.000684	0.000684	0	%100
6	SF2-TH	X	0.001	0.001	0	%100
7	GSIP-1A	X	0.000871	0.000871	0	%100

Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
8	GSIP-1B	X	0.00076	0.00076	0	%100
9	GSIP-2A	X	0.00076	0.00076	0	%100
10	GSIP-2B	X	0.002	0.002	0	%100
11	GSIP-3A	X	0.002	0.002	0	%100
12	GSIP-3B	X	0.000871	0.000871	0	%100
13	FF-HR	X	0.000704	0.000704	0	%100
14	SF1-HR	X	0.000593	0.000593	0	%100
15	SF2-HR	X	0.001	0.001	0	%100
16	HRC-1	X	0.002	0.002	0	%100
17	HRC-2	X	0.000855	0.000855	0	%100
18	HRC-3	X	0.000822	0.000822	0	%100
19	GSI-1A	X	0.002	0.002	0	%100
20	GSI-1B	X	0.002	0.002	0	%100
21	GSI-2A	X	0.001	0.001	0	%100
22	GSI-2B	X	0.001	0.001	0	%100
23	GSI-3A	X	0.001	0.001	0	%100
24	GSI-3B	X	0.001	0.001	0	%100
25	SA-1	X	0	0	0	%100
26	SA-2	X	0.002	0.002	0	%100
27	SA-3	X	0.002	0.002	0	%100
28	MP-2	X	0.001	0.001	0	%100
29	MP-3	X	0.001	0.001	0	%100
30	MP-1	X	0.001	0.001	0	%100
31	MP-5	X	0.001	0.001	0	%100
32	MP-6	X	0.001	0.001	0	%100
33	MP-4	X	0.001	0.001	0	%100
34	MP-8	X	0.001	0.001	0	%100
35	MP-9	X	0.001	0.001	0	%100
36	MP-7	X	0.001	0.001	0	%100
37	CP-1	Z	0.005	0.005	0	%100
38	CP-2	Z	0.002	0.002	0	%100
39	CP-3	Z	0.003	0.003	0	%100
40	FF-TH	Z	0.001	0.001	0	%100
41	SF1-TH	Z	0.001	0.001	0	%100
42	SF2-TH	Z	0.003	0.003	0	%100
43	GSIP-1A	Z	0.001	0.001	0	%100
44	GSIP-1B	Z	0.001	0.001	0	%100
45	GSIP-2A	Z	0.001	0.001	0	%100
46	GSIP-2B	Z	0.003	0.003	0	%100
47	GSIP-3A	Z	0.003	0.003	0	%100
48	GSIP-3B	Z	0.001	0.001	0	%100
49	FF-HR	Z	0.001	0.001	0	%100
50	SF1-HR	Z	0.001	0.001	0	%100
51	SF2-HR	Z	0.002	0.002	0	%100
52	HRC-1	Z	0.003	0.003	0	%100
53	HRC-2	Z	0.001	0.001	0	%100
54	HRC-3	Z	0.001	0.001	0	%100
55	GSI-1A	Z	0.004	0.004	0	%100
56	GSI-1B	Z	0.004	0.004	0	%100
57	GSI-2A	Z	0.002	0.002	0	%100
58	GSI-2B	Z	0.002	0.002	0	%100
59	GSI-3A	Z	0.002	0.002	0	%100
60	GSI-3B	Z	0.002	0.002	0	%100
61	SA-1	Z	0	0	0	%100
62	SA-2	Z	0.004	0.004	0	%100

Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
63	SA-3	Z	0.003	0.003	0	%100
64	MP-2	Z	0.002	0.002	0	%100
65	MP-3	Z	0.002	0.002	0	%100
66	MP-1	Z	0.002	0.002	0	%100
67	MP-5	Z	0.002	0.002	0	%100
68	MP-6	Z	0.002	0.002	0	%100
69	MP-4	Z	0.002	0.002	0	%100
70	MP-8	Z	0.002	0.002	0	%100
71	MP-9	Z	0.002	0.002	0	%100
72	MP-7	Z	0.002	0.002	0	%100

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	Z	0.005	0.005	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	0.005	0.005	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	0.003	0.003	0	%100
6	SF2-TH	Z	0.003	0.003	0	%100
7	GSIP-1A	Z	0	0	0	%100
8	GSIP-1B	Z	0.003	0.003	0	%100
9	GSIP-2A	Z	0.003	0.003	0	%100
10	GSIP-2B	Z	0.003	0.003	0	%100
11	GSIP-3A	Z	0.003	0.003	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	FF-HR	Z	0	0	0	%100
14	SF1-HR	Z	0.002	0.002	0	%100
15	SF2-HR	Z	0.002	0.002	0	%100
16	HRC-1	Z	0.003	0.003	0	%100
17	HRC-2	Z	0	0	0	%100
18	HRC-3	Z	0.003	0.003	0	%100
19	GSI-1A	Z	0.004	0.004	0	%100
20	GSI-1B	Z	0.004	0.004	0	%100
21	GSI-2A	Z	0	0	0	%100
22	GSI-2B	Z	0	0	0	%100
23	GSI-3A	Z	0.004	0.004	0	%100
24	GSI-3B	Z	0.004	0.004	0	%100
25	SA-1	Z	0.002	0.002	0	%100
26	SA-2	Z	0.005	0.005	0	%100
27	SA-3	Z	0.002	0.002	0	%100
28	MP-2	Z	0.003	0.003	0	%100
29	MP-3	Z	0.003	0.003	0	%100
30	MP-1	Z	0.003	0.003	0	%100
31	MP-5	Z	0.003	0.003	0	%100
32	MP-6	Z	0.003	0.003	0	%100
33	MP-4	Z	0.003	0.003	0	%100
34	MP-8	Z	0.003	0.003	0	%100
35	MP-9	Z	0.003	0.003	0	%100
36	MP-7	Z	0.003	0.003	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.001	-0.001	0	%100
2	CP-2	X	-0.001	-0.001	0	%100
3	CP-3	X	-0.003	-0.003	0	%100
4	FF-TH	X	-0.000873	-0.000873	0	%100
5	SF1-TH	X	-0.001	-0.001	0	%100
6	SF2-TH	X	-0.000684	-0.000684	0	%100
7	GSIP-1A	X	-0.000871	-0.000871	0	%100
8	GSIP-1B	X	-0.002	-0.002	0	%100
9	GSIP-2A	X	-0.002	-0.002	0	%100
10	GSIP-2B	X	-0.00076	-0.00076	0	%100
11	GSIP-3A	X	-0.00076	-0.00076	0	%100
12	GSIP-3B	X	-0.000871	-0.000871	0	%100
13	FF-HR	X	-0.000704	-0.000704	0	%100
14	SF1-HR	X	-0.001	-0.001	0	%100
15	SF2-HR	X	-0.000593	-0.000593	0	%100
16	HRC-1	X	-0.000822	-0.000822	0	%100
17	HRC-2	X	-0.000855	-0.000855	0	%100
18	HRC-3	X	-0.002	-0.002	0	%100
19	GSI-1A	X	-0.001	-0.001	0	%100
20	GSI-1B	X	-0.001	-0.001	0	%100
21	GSI-2A	X	-0.001	-0.001	0	%100
22	GSI-2B	X	-0.001	-0.001	0	%100
23	GSI-3A	X	-0.002	-0.002	0	%100
24	GSI-3B	X	-0.002	-0.002	0	%100
25	SA-1	X	-0.002	-0.002	0	%100
26	SA-2	X	-0.002	-0.002	0	%100
27	SA-3	X	0	0	0	%100
28	MP-2	X	-0.001	-0.001	0	%100
29	MP-3	X	-0.001	-0.001	0	%100
30	MP-1	X	-0.001	-0.001	0	%100
31	MP-5	X	-0.001	-0.001	0	%100
32	MP-6	X	-0.001	-0.001	0	%100
33	MP-4	X	-0.001	-0.001	0	%100
34	MP-8	X	-0.001	-0.001	0	%100
35	MP-9	X	-0.001	-0.001	0	%100
36	MP-7	X	-0.001	-0.001	0	%100
37	CP-1	Z	0.003	0.003	0	%100
38	CP-2	Z	0.002	0.002	0	%100
39	CP-3	Z	0.005	0.005	0	%100
40	FF-TH	Z	0.001	0.001	0	%100
41	SF1-TH	Z	0.003	0.003	0	%100
42	SF2-TH	Z	0.001	0.001	0	%100
43	GSIP-1A	Z	0.001	0.001	0	%100
44	GSIP-1B	Z	0.003	0.003	0	%100
45	GSIP-2A	Z	0.003	0.003	0	%100
46	GSIP-2B	Z	0.001	0.001	0	%100
47	GSIP-3A	Z	0.001	0.001	0	%100
48	GSIP-3B	Z	0.001	0.001	0	%100
49	FF-HR	Z	0.001	0.001	0	%100
50	SF1-HR	Z	0.002	0.002	0	%100
51	SF2-HR	Z	0.001	0.001	0	%100
52	HRC-1	Z	0.001	0.001	0	%100
53	HRC-2	Z	0.001	0.001	0	%100
54	HRC-3	Z	0.003	0.003	0	%100
55	GSI-1A	Z	0.002	0.002	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	GSI-1B	Z	0.002	0.002	0	%100
57	GSI-2A	Z	0.002	0.002	0	%100
58	GSI-2B	Z	0.002	0.002	0	%100
59	GSI-3A	Z	0.004	0.004	0	%100
60	GSI-3B	Z	0.004	0.004	0	%100
61	SA-1	Z	0.003	0.003	0	%100
62	SA-2	Z	0.004	0.004	0	%100
63	SA-3	Z	0	0	0	%100
64	MP-2	Z	0.002	0.002	0	%100
65	MP-3	Z	0.002	0.002	0	%100
66	MP-1	Z	0.002	0.002	0	%100
67	MP-5	Z	0.002	0.002	0	%100
68	MP-6	Z	0.002	0.002	0	%100
69	MP-4	Z	0.002	0.002	0	%100
70	MP-8	Z	0.002	0.002	0	%100
71	MP-9	Z	0.002	0.002	0	%100
72	MP-7	Z	0.002	0.002	0	%100

Member Distributed Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	-0.001	-0.001	0	%100
2	CP-2	X	-0.003	-0.003	0	%100
3	CP-3	X	-0.004	-0.004	0	%100
4	FF-TH	X	-0.002	-0.002	0	%100
5	SF1-TH	X	-0.002	-0.002	0	%100
6	SF2-TH	X	-0.000501	-0.000501	0	%100
7	GSIP-1A	X	-0.002	-0.002	0	%100
8	GSIP-1B	X	-0.002	-0.002	0	%100
9	GSIP-2A	X	-0.002	-0.002	0	%100
10	GSIP-2B	X	-0.000557	-0.000557	0	%100
11	GSIP-3A	X	-0.000557	-0.000557	0	%100
12	GSIP-3B	X	-0.002	-0.002	0	%100
13	FF-HR	X	-0.001	-0.001	0	%100
14	SF1-HR	X	-0.002	-0.002	0	%100
15	SF2-HR	X	-0.000434	-0.000434	0	%100
16	HRC-1	X	-0.000602	-0.000602	0	%100
17	HRC-2	X	-0.002	-0.002	0	%100
18	HRC-3	X	-0.002	-0.002	0	%100
19	GSI-1A	X	-0.000743	-0.000743	0	%100
20	GSI-1B	X	-0.000743	-0.000743	0	%100
21	GSI-2A	X	-0.002	-0.002	0	%100
22	GSI-2B	X	-0.002	-0.002	0	%100
23	GSI-3A	X	-0.003	-0.003	0	%100
24	GSI-3B	X	-0.003	-0.003	0	%100
25	SA-1	X	-0.003	-0.003	0	%100
26	SA-2	X	-0.002	-0.002	0	%100
27	SA-3	X	-0.000865	-0.000865	0	%100
28	MP-2	X	-0.002	-0.002	0	%100
29	MP-3	X	-0.002	-0.002	0	%100
30	MP-1	X	-0.002	-0.002	0	%100
31	MP-5	X	-0.002	-0.002	0	%100
32	MP-6	X	-0.002	-0.002	0	%100
33	MP-4	X	-0.002	-0.002	0	%100
34	MP-8	X	-0.002	-0.002	0	%100
35	MP-9	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
36	MP-7	X	-0.002	-0.002	0	%100
37	CP-1	Z	0.001	0.001	0	%100
38	CP-2	Z	0.003	0.003	0	%100
39	CP-3	Z	0.004	0.004	0	%100
40	FF-TH	Z	0.002	0.002	0	%100
41	SF1-TH	Z	0.002	0.002	0	%100
42	SF2-TH	Z	0.000613	0.000613	0	%100
43	GSIP-1A	Z	0.002	0.002	0	%100
44	GSIP-1B	Z	0.002	0.002	0	%100
45	GSIP-2A	Z	0.002	0.002	0	%100
46	GSIP-2B	Z	0.000617	0.000617	0	%100
47	GSIP-3A	Z	0.000617	0.000617	0	%100
48	GSIP-3B	Z	0.002	0.002	0	%100
49	FF-HR	Z	0.001	0.001	0	%100
50	SF1-HR	Z	0.002	0.002	0	%100
51	SF2-HR	Z	0.000516	0.000516	0	%100
52	HRC-1	Z	0.000617	0.000617	0	%100
53	HRC-2	Z	0.002	0.002	0	%100
54	HRC-3	Z	0.002	0.002	0	%100
55	GSI-1A	Z	0.000792	0.000792	0	%100
56	GSI-1B	Z	0.000792	0.000792	0	%100
57	GSI-2A	Z	0.002	0.002	0	%100
58	GSI-2B	Z	0.002	0.002	0	%100
59	GSI-3A	Z	0.003	0.003	0	%100
60	GSI-3B	Z	0.003	0.003	0	%100
61	SA-1	Z	0.003	0.003	0	%100
62	SA-2	Z	0.002	0.002	0	%100
63	SA-3	Z	0.000783	0.000783	0	%100
64	MP-2	Z	0.002	0.002	0	%100
65	MP-3	Z	0.002	0.002	0	%100
66	MP-1	Z	0.002	0.002	0	%100
67	MP-5	Z	0.002	0.002	0	%100
68	MP-6	Z	0.002	0.002	0	%100
69	MP-4	Z	0.002	0.002	0	%100
70	MP-8	Z	0.002	0.002	0	%100
71	MP-9	Z	0.002	0.002	0	%100
72	MP-7	Z	0.002	0.002	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CP-1	X	0	0	0	%100
2	CP-2	X	-0.004	-0.004	0	%100
3	CP-3	X	-0.004	-0.004	0	%100
4	FF-TH	X	-0.003	-0.003	0	%100
5	SF1-TH	X	-0.002	-0.002	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	-0.003	-0.003	0	%100
8	GSIP-1B	X	-0.002	-0.002	0	%100
9	GSIP-2A	X	-0.002	-0.002	0	%100
10	GSIP-2B	X	0	0	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	-0.003	-0.003	0	%100
13	FF-HR	X	-0.002	-0.002	0	%100
14	SF1-HR	X	-0.002	-0.002	0	%100
15	SF2-HR	X	0	0	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	HRC-1	X	0	0	0	%100
17	HRC-2	X	-0.003	-0.003	0	%100
18	HRC-3	X	-0.002	-0.002	0	%100
19	GSI-1A	X	0	0	0	%100
20	GSI-1B	X	0	0	0	%100
21	GSI-2A	X	-0.003	-0.003	0	%100
22	GSI-2B	X	-0.003	-0.003	0	%100
23	GSI-3A	X	-0.003	-0.003	0	%100
24	GSI-3B	X	-0.003	-0.003	0	%100
25	SA-1	X	-0.004	-0.004	0	%100
26	SA-2	X	-0.002	-0.002	0	%100
27	SA-3	X	-0.002	-0.002	0	%100
28	MP-2	X	-0.002	-0.002	0	%100
29	MP-3	X	-0.002	-0.002	0	%100
30	MP-1	X	-0.002	-0.002	0	%100
31	MP-5	X	-0.002	-0.002	0	%100
32	MP-6	X	-0.002	-0.002	0	%100
33	MP-4	X	-0.002	-0.002	0	%100
34	MP-8	X	-0.002	-0.002	0	%100
35	MP-9	X	-0.002	-0.002	0	%100
36	MP-7	X	-0.002	-0.002	0	%100
37	CP-1	Z	0	0	0	%100
38	CP-2	Z	0.002	0.002	0	%100
39	CP-3	Z	0.003	0.003	0	%100
40	FF-TH	Z	0.001	0.001	0	%100
41	SF1-TH	Z	0.001	0.001	0	%100
42	SF2-TH	Z	0	0	0	%100
43	GSIP-1A	Z	0.001	0.001	0	%100
44	GSIP-1B	Z	0.001	0.001	0	%100
45	GSIP-2A	Z	0.001	0.001	0	%100
46	GSIP-2B	Z	0	0	0	%100
47	GSIP-3A	Z	0	0	0	%100
48	GSIP-3B	Z	0.001	0.001	0	%100
49	FF-HR	Z	0.001	0.001	0	%100
50	SF1-HR	Z	0.001	0.001	0	%100
51	SF2-HR	Z	0	0	0	%100
52	HRC-1	Z	0	0	0	%100
53	HRC-2	Z	0.001	0.001	0	%100
54	HRC-3	Z	0.001	0.001	0	%100
55	GSI-1A	Z	0	0	0	%100
56	GSI-1B	Z	0	0	0	%100
57	GSI-2A	Z	0.002	0.002	0	%100
58	GSI-2B	Z	0.002	0.002	0	%100
59	GSI-3A	Z	0.002	0.002	0	%100
60	GSI-3B	Z	0.002	0.002	0	%100
61	SA-1	Z	0.002	0.002	0	%100
62	SA-2	Z	0.001	0.001	0	%100
63	SA-3	Z	0.001	0.001	0	%100
64	MP-2	Z	0.001	0.001	0	%100
65	MP-3	Z	0.001	0.001	0	%100
66	MP-1	Z	0.001	0.001	0	%100
67	MP-5	Z	0.001	0.001	0	%100
68	MP-6	Z	0.001	0.001	0	%100
69	MP-4	Z	0.001	0.001	0	%100
70	MP-8	Z	0.001	0.001	0	%100

Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP-9	Z	0.001	0.001	0	%100
72	MP-7	Z	0.001	0.001	0	%100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	GSIP-2B	Y	-0.004	-0.005	0.736	1.473
2	GSIP-2B	Y	-0.005	-0.009	1.473	2.209
3	GSIP-2B	Y	-0.009	-0.007	2.209	2.946
4	GSIP-2B	Y	-0.007	-0.00017	2.946	3.682
5	GSI-2A	Y	-0.008	-0.008	0.536	2.562
6	GSI-2B	Y	-0.008	-0.008	0	2.027
7	SA-2	Y	-0.0003559	-0.008	1.556	2.282
8	SA-2	Y	-0.008	-0.017	2.282	3.009
9	SA-2	Y	-0.017	-0.015	3.009	3.735
10	SA-2	Y	-0.015	-0.008	3.735	4.461
11	SA-2	Y	-0.008	-0.001	4.461	5.187
12	CP-3	Y	-0.001	-0.001	0.411	0.623
13	GSIP-3A	Y	-0.00017	-0.007	0.409	1.146
14	GSIP-3A	Y	-0.007	-0.009	1.146	1.882
15	GSIP-3A	Y	-0.009	-0.005	1.882	2.618
16	GSIP-3A	Y	-0.005	-0.004	2.618	3.355
17	GSIP-3A	Y	-0.004	-0.0007068	3.355	4.091
18	GSIP-3B	Y	-0.0007068	-0.004	0	0.736
19	GSIP-3B	Y	-0.004	-0.005	0.736	1.473
20	GSIP-3B	Y	-0.005	-0.009	1.473	2.209
21	GSIP-3B	Y	-0.009	-0.007	2.209	2.946
22	GSIP-3B	Y	-0.007	-0.00017	2.946	3.682
23	GSI-3A	Y	-0.008	-0.008	0.536	2.562
24	GSI-3B	Y	-0.008	-0.008	0	2.027
25	SA-3	Y	-0.0003559	-0.008	1.556	2.282
26	SA-3	Y	-0.008	-0.017	2.282	3.009
27	SA-3	Y	-0.017	-0.015	3.009	3.735
28	SA-3	Y	-0.015	-0.008	3.735	4.461
29	SA-3	Y	-0.008	-0.001	4.461	5.187
30	CP-1	Y	-0.001	-0.001	0.41	0.623
31	GSIP-1A	Y	-0.00017	-0.007	0.409	1.146
32	GSIP-1A	Y	-0.007	-0.009	1.146	1.882
33	GSIP-1A	Y	-0.009	-0.005	1.882	2.618
34	GSIP-1A	Y	-0.005	-0.004	2.618	3.355
35	GSIP-1A	Y	-0.004	-0.0007068	3.355	4.091
36	GSIP-1B	Y	-0.0007093	-0.004	0	0.736
37	GSIP-1B	Y	-0.004	-0.005	0.736	1.473
38	GSIP-1B	Y	-0.005	-0.009	1.473	2.209
39	GSIP-1B	Y	-0.009	-0.007	2.209	2.946
40	GSIP-1B	Y	-0.007	-0.00017	2.946	3.682
41	GSI-1A	Y	-0.008	-0.008	0.536	2.562
42	GSI-1B	Y	-0.008	-0.008	0	2.027
43	SA-1	Y	-0.0003559	-0.008	1.556	2.282
44	SA-1	Y	-0.008	-0.017	2.282	3.009
45	SA-1	Y	-0.017	-0.015	3.009	3.735
46	SA-1	Y	-0.015	-0.008	3.735	4.461
47	SA-1	Y	-0.008	-0.001	4.461	5.187
48	CP-2	Y	-0.001	-0.001	0.41	0.623
49	GSIP-2A	Y	-0.00017	-0.007	0.409	1.146
50	GSIP-2A	Y	-0.007	-0.009	1.146	1.882

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
51	GSIP-2A	Y	-0.009	-0.005	1.882	2.618
52	GSIP-2A	Y	-0.005	-0.004	2.618	3.355
53	GSIP-2A	Y	-0.004	-0.0007068	3.355	4.091
54	GSIP-2B	Y	-0.0007093	-0.004	0	0.736

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	GSIP-3A	Y	-0.003	-0.004	1.146	1.882
2	GSIP-3A	Y	-0.004	-0.002	1.882	2.618
3	GSIP-3A	Y	-0.002	-0.002	2.618	3.355
4	GSIP-3A	Y	-0.002	-0.0002945	3.355	4.091
5	GSIP-3B	Y	-0.0002945	-0.002	0	0.736
6	GSIP-3B	Y	-0.002	-0.002	0.736	1.473
7	GSIP-3B	Y	-0.002	-0.004	1.473	2.209
8	GSIP-3B	Y	-0.004	-0.003	2.209	2.946
9	GSIP-3B	Y	-0.003	-7.085e-5	2.946	3.682
10	GSI-3A	Y	-0.003	-0.003	0.536	2.562
11	GSI-3B	Y	-0.003	-0.003	0	2.027
12	SA-3	Y	-0.0001483	-0.003	1.556	2.282
13	SA-3	Y	-0.003	-0.007	2.282	3.009
14	SA-3	Y	-0.007	-0.006	3.009	3.735
15	SA-3	Y	-0.006	-0.003	3.735	4.461
16	SA-3	Y	-0.003	-0.0004239	4.461	5.187
17	CP-1	Y	-0.0005106	-0.0005106	0.41	0.623
18	GSIP-1A	Y	-7.085e-5	-0.003	0.409	1.146
19	GSIP-1A	Y	-0.003	-0.004	1.146	1.882
20	GSIP-1A	Y	-0.004	-0.002	1.882	2.618
21	GSIP-1A	Y	-0.002	-0.002	2.618	3.355
22	GSIP-1A	Y	-0.002	-0.0002945	3.355	4.091
23	GSIP-1B	Y	-0.0002955	-0.002	0	0.736
24	GSIP-1B	Y	-0.002	-0.002	0.736	1.473
25	GSIP-1B	Y	-0.002	-0.004	1.473	2.209
26	GSIP-1B	Y	-0.004	-0.003	2.209	2.946
27	GSIP-1B	Y	-0.003	-7.084e-5	2.946	3.682
28	GSI-1A	Y	-0.003	-0.003	0.536	2.562
29	GSI-1B	Y	-0.003	-0.003	0	2.027
30	SA-1	Y	-0.0001483	-0.003	1.556	2.282
31	SA-1	Y	-0.003	-0.007	2.282	3.009
32	SA-1	Y	-0.007	-0.006	3.009	3.735
33	SA-1	Y	-0.006	-0.003	3.735	4.461
34	SA-1	Y	-0.003	-0.0004245	4.461	5.187
35	CP-2	Y	-0.0005106	-0.0005106	0.41	0.623
36	GSIP-2A	Y	-7.085e-5	-0.003	0.409	1.146
37	GSIP-2A	Y	-0.003	-0.004	1.146	1.882
38	GSIP-2A	Y	-0.004	-0.002	1.882	2.618
39	GSIP-2A	Y	-0.002	-0.002	2.618	3.355
40	GSIP-2A	Y	-0.002	-0.0002945	3.355	4.091
41	GSIP-2B	Y	-0.0002955	-0.002	0	0.736
42	GSIP-2B	Y	-0.002	-0.002	0.736	1.473
43	GSIP-2B	Y	-0.002	-0.004	1.473	2.209
44	GSIP-2B	Y	-0.004	-0.003	2.209	2.946
45	GSIP-2B	Y	-0.003	-7.084e-5	2.946	3.682
46	GSI-2A	Y	-0.003	-0.003	0.536	2.562
47	GSI-2B	Y	-0.003	-0.003	0	2.027
48	SA-2	Y	-0.0001483	-0.003	1.556	2.282

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
49	SA-2	Y	-0.003	-0.007	2.282	3.009
50	SA-2	Y	-0.007	-0.006	3.009	3.735
51	SA-2	Y	-0.006	-0.003	3.735	4.461
52	SA-2	Y	-0.003	-0.0004245	4.461	5.187
53	CP-3	Y	-0.0005105	-0.0005105	0.411	0.623
54	GSIP-3A	Y	-7.085e-5	-0.003	0.409	1.146

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	GSIP-1A	GSIP-1B	GSIP-1C	GSIP-1D	Y	Two Way	-0.012
2	GSIP-2A	GSIP-2B	GSIP-2C	GSIP-2D	Y	Two Way	-0.012
3	GSIP-3A	GSIP-3B	GSIP-3C	GSIP-3D	Y	Two Way	-0.012

Member Area Loads (BLC 18 : Ice Weight)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	GSIP-1A	GSIP-1B	GSIP-1C	GSIP-1D	Y	Two Way	-0.005
2	GSIP-2A	GSIP-2B	GSIP-2C	GSIP-2D	Y	Two Way	-0.005
3	GSIP-3A	GSIP-3B	GSIP-3C	GSIP-3D	Y	Two Way	-0.005

Envelope Node Reactions

	Node Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
0	SA-1	max	1.52	18	2.519	49	1.696	21	0.768	5	1.67	17	2.547	49
1		min	-1.508	10	-0.107	5	-1.675	13	-4.332	49	-1.672	9	-0.544	4
2	SA-3	max	1.216	18	2.38	39	1.702	7	4.032	23	1.67	11	2.293	24
3		min	-1.205	10	-0.107	15	-1.723	31	-0.816	15	-1.672	3	-0.463	16
4	SA-2	max	1.94	2	2.433	34	1.394	6	0.342	7	1.695	6	0.914	10
5		min	-1.964	26	-0.107	10	-1.394	14	-0.364	31	-1.697	14	-4.733	34
6	Totals:	max	4.673	18	6.807	49	4.588	6						
7		min	-4.673	10	2.574	16	-4.588	30						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
0	FF-HR	PIPE_2.0	0.483	1.953	12	0.141	11.979		33	1.428	32.13	1.872	1.872	1	H1-1a
1	SF2-HR	PIPE_2.0	0.474	1.953	7	0.147	11.979		28	1.428	32.13	1.872	1.872	1	H1-1a
2	SF1-HR	PIPE_2.0	0.473	1.953	2	0.141	11.979		22	1.428	32.13	1.872	1.872	1	H1-1a
3	HRC-2	L2.5X2.5X3	0.453	1.25	32	0.102	1.25	y	22	27.881	29.192	0.873	1.972	1.5	H2-1
4	SA-1	HSS4X4X4	0.435	0	49	0.112	0	y	60	97.439	106.155	12.311	12.311	2.836	H1-1b
5	HRC-3	L2.5X2.5X3	0.427	1.25	22	0.106	1.25	z	28	27.881	29.192	0.873	1.972	1.5	H2-1
6	HRC-1	L2.5X2.5X3	0.427	1.25	27	0.102	1.25	y	33	27.881	29.192	0.873	1.972	1.5	H2-1
7	SA-2	HSS4X4X4	0.388	0	34	0.094	0	y	32	97.439	106.155	12.311	12.311	3	H1-1b
8	SA-3	HSS4X4X4	0.386	0	23	0.093	0	y	22	97.439	106.155	12.311	12.311	2.795	H1-1b
9	MP-3	PIPE_2.5	0.258	5.75	24	0.138	2.5		26	33.964	50.715	3.596	3.596	1	H1-1b
10	MP-2	PIPE_2.5	0.257	5.75	20	0.055	5.75		25	33.964	50.715	3.596	3.596	1	H1-1b
11	MP-1	PIPE_2.5	0.257	5.75	29	0.121	2.5		26	33.964	50.715	3.596	3.596	1	H1-1b
12	MP-7	PIPE_2.5	0.257	5.75	23	0.121	2.5		21	33.964	50.715	3.596	3.596	1	H1-1b
13	MP-4	PIPE_2.5	0.257	5.75	18	0.123	5.75		32	33.964	50.715	3.596	3.596	1	H1-1b
14	MP-8	PIPE_2.5	0.256	5.75	30	0.055	5.75		19	33.964	50.715	3.596	3.596	1	H1-1b
15	MP-5	PIPE_2.5	0.256	5.75	25	0.055	5.75		30	33.964	50.715	3.596	3.596	1	H1-1b
16	MP-6	PIPE_2.5	0.256	5.75	29	0.138	2.5		31	33.964	50.715	3.596	3.596	1	H1-1b
17	MP-9	PIPE_2.5	0.256	5.75	18	0.138	2.5		21	33.964	50.715	3.596	3.596	1	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
18	GSI-3A	HSS4X4X4	0.221	2.562	22	0.12	0.32	z	29	104.744	106.155	12.311	12.311	1.685	H1-1b
19	GSI-1A	HSS4X4X4	0.22	2.562	27	0.12	0.32	z	18	104.744	106.155	12.311	12.311	1.685	H1-1b
20	GSI-2A	HSS4X4X4	0.22	2.562	33	0.12	0.32	z	23	104.744	106.155	12.311	12.311	1.685	H1-1b
21	GSI-1B	HSS4X4X4	0.215	0	49	0.118	2.242	z	23	104.744	106.155	12.311	12.311	1.69	H1-1b
22	GSI-3B	HSS4X4X4	0.21	0	25	0.118	2.242	z	18	104.744	106.155	12.311	12.311	1.685	H1-1b
23	GSI-2B	HSS4X4X4	0.21	0	19	0.118	2.242	z	29	104.744	106.155	12.311	12.311	1.685	H1-1b
24	CP-1	PL6x1/2	0.201	0.517	20	0.185	0.528	y	25	86.501	94.5	0.984	11.813	1.528	H1-1b
25	CP-3	PL6x1/2	0.195	0.517	30	0.185	0.528	y	19	86.501	94.5	0.984	11.813	1.474	H1-1b
26	CP-2	PL6x1/2	0.194	0.517	25	0.185	0.528	y	30	86.501	94.5	0.984	11.813	1.474	H1-1b
27	SF2-TH	PIPE_3.0	0.19	8.203	20	0.102	8.073		21	6.489	65.205	5.749	5.749	1	H1-1b
28	SF1-TH	PIPE_3.0	0.188	4.297	32	0.104	6.25		24	6.489	65.205	5.749	5.749	1	H1-1b
29	FF-TH	PIPE_3.0	0.187	8.203	25	0.102	8.073		26	6.489	65.205	5.749	5.749	1	H1-1b
30	GSIP-1A	L2X2X3	0.167	2.046	27	0.007	4.091	z	26	10.065	22.743	0.542	1.114	1.468	H2-1
31	GSIP-3A	L2X2X3	0.166	2.003	22	0.007	4.091	z	21	10.065	22.743	0.542	1.118	1.5	H2-1
32	GSIP-2A	L2X2X3	0.164	2.003	33	0.007	4.091	z	31	10.065	22.743	0.542	1.103	1.399	H2-1
33	GSIP-3B	L2X2X3	0.16	2.088	24	0.007	4.091	z	26	10.065	22.743	0.542	1.072	1.217	H2-1
34	GSIP-1B	L2X2X3	0.157	2.088	30	0.008	0	y	49	10.065	22.743	0.542	1.118	1.5	H2-1
35	GSIP-2B	L2X2X3	0.155	2.088	19	0.007	4.091	z	21	10.065	22.743	0.542	1.103	1.398	H2-1

APPENDIX D

ADDITIONAL CALCULATIONS

TOWER ENGINEERING PROFESSIONALS

Old Saybrook (BU 841289)

TEP No.	55790.938822	
Analysis By:	PRS	3/9/2024
Checked By:	SWS	3/9/2024

Moment Bolt Group - Collar Connection

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Headed Bolts

Connection Inputs:

Bolt Size:	0.625	in
# Bolts:	4	
Plate Width:	10.00	in
Plate Height:	10.00	in
Bolt H Gap:	7.00	in
Bolt V Gap:	7.00	in
Plate T:	0.625	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	20.9%	PASS*
Plate Capacity=	40.1%	PASS*
Weld Capacity=	44.4%	PASS*

***Value Adjusted per TIA-H Section 15.5**

Bolt Properties:

Fy_{bolt}:	92.0	ksi
Fu_{bolt}:	120.0	ksi
r:	4.9	in
J:	98.0	in^4/in^2
A_{bolt}:	0.3	in^2
$A_{bolt,\ Net\ Tensile}$:	0.2	in^2
Pretension:	19.0	kips

Member Properties:

Member Shape:	Flat	
Plate Fy:	36.0	ksi
Plate Fu:	58.0	ksi
Member Height:	4.0	in
Member Width:	4.0	in
Weld Strength:	70.0	ksi
Weld Size:	0.2500	in
S_{weld}:	5.7060	in^3
A_{weld}:	4.2500	in^2
$ØR_n$:	47.2500	ksi
R_u:	10.0798	ksi
Base Metal Strength:	21.6	ksi

EXHIBIT G

Power Density / RF Emissions Report

EBI Consulting

environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11035E

OldSaybrookSNETMobili_1
170 Ingham Hill Road Old
Saybrook, Connecticut 06475

May 7, 2024

EBI Project Number: 016509-PR

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**2.39%**

May 7, 2024

T-Mobile
Attn: Crown Castle - Northeast,

Emissions Analysis for Site: CT11035E - OldSaybrookSNETMobili_1

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **170 Ingham Hill Road Old** in **Saybrook, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu W/cm^2$). The number of $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 $\mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully

aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 170 Ingham Hill Road Old in Saybrook, Connecticut using the equipment information listed below. Modeling of the antennas and associated equipment was completed using RoofMaster™ software, which is a widely-used predictive modeling program that has been developed to predict RF power density values for rooftop and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. Using the computational methods set forth in Federal Communications (FCC) Office of Engineering & Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" (OET-65), RoofMaster™ calculates predicted power density in a scalable grid based on the contributions of all RF sources characterized in the study scenario. At each grid location, the cumulative power density is expressed as a percentage of the FCC limits. Manufacturer antenna pattern data is utilized in these calculations. RoofMaster™ models consist of the Far Field model as specified in OET-65 and an implementation of the OET-65 Cylindrical Model (Sula9). The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. For power density calculations, the broadcast footprint of the AIR6449 or similar SON antenna has been considered. Due to the beamforming nature of these antennas, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

For all calculations, telecommunications equipment was modeled using the following assumptions:

1) 1 LTE channel (600 MHz Band) was considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.

3) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

4) 1 GSM channel (PCS Band - 1900 MHz) was considered for each sector of the proposed installation. These Channels have a transmit power of 10 Watts per Channel.

5) 1 LTE channel (PCS Band - 1900 MHz) was considered for each sector of the proposed installation. These Channels have a transmit power of 160 Watts per Channel.

6) 1 LTE channel (AWS Band – 2100 MHz) was considered for each sector of the proposed installation. These Channels have a transmit power of 160 Watts per Channel.

7) 1 NR Traffic channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 240 Watts.

8) 1 NR Broadcast channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.

9) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

10) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

11) The antennas used in this modeling are the RFS APXVLL19P_43-C-A20 02DT 2100 for the 2100 MHz / 2100 MHz / 1900 MHz / 1900 MHz channel(s), the ERICSSON SON_AIR6419 B41 NR TB 02.09.21 2500 TMO for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24 43-U-NA20 02DT 600 for the 600 MHz / 600 MHz / 700 MHz channel(s) in

Sector A, the RFS APXVLL19P_43-C-A20 02DT 2100 for the 2100 MHz / 1900 MHz / 1900 MHz / 1900 MHz channel(s), the ERICSSON SON_AIR6419 B41 NR TB 02.09.21 2500 TMO for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24 43-U-NA20 02DT 600 for the 600 MHz / 600 MHz / 700 MHz channel(s) in Sector B, the RFS APXVLL19P_43-C-A20 02DT 2100 for the 2100 MHz / 1900 MHz / 1900 MHz / 1900 MHz channel(s), the ERICSSON SON_AIR6419 B41 NR TB 02.09.21 2500 TMO for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24 43-U-NA20 02DT 600 for the 600 MHz / 600 MHz / 700 MHz channel(s) in Sector C.

12) The antenna mounting height centerline of the proposed antennas is 140 and 141 feet above ground level (AGL).

13) Emissions values for additional carriers were calculated in Far Field utilizing the antenna models provided in the structural analysis.

14) All calculations were done in Far Field mode with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXVLL19P_43-C-A20 02DT 2100	Make / Model:	RFS APXVLL19P_43-C-A20 02DT 2100	Make / Model:	RFS APXVLL19P_43-C-A20 02DT 2100
Frequency Bands:	2100 MHz / 2100 MHz / 1900 MHz / 1900 MHz	Frequency Bands:	2100 MHz / 1900 MHz / 1900 MHz / 1900 MHz	Frequency Bands:	2100 MHz / 1900 MHz / 1900 MHz / 1900 MHz
Gain:	17.33 dBd / 16.24 dBd / 16.24 dBd / 16.24 dBd	Gain:	17.33 dBd / 16.24 dBd / 16.24 dBd / 16.24 dBd	Gain:	17.33 dBd / 16.24 dBd / 16.24 dBd / 16.24 dBd
Height (AGL):	140 feet	Height (AGL):	140 feet	Height (AGL):	140 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	490.00 Watts	Total TX Power (W):	490.00 Watts	Total TX Power (W):	490.00 Watts
ERP (W):	19,537.89	ERP (W):	19,537.89	ERP (W):	19,537.89
Antenna A1 MPE %:	**3.91%**	Antenna B1 MPE %:	**3.91%**	Antenna C1 MPE %:	**3.91%**
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	ERICSSON SON_AIR6419 B41 NR TB 02.09.21 2500 TMO	Make / Model:	ERICSSON SON_AIR6419 B41 NR TB 02.09.21 2500 TMO	Make / Model:	ERICSSON SON_AIR6419 B41 NR TB 02.09.21 2500 TMO
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	22.05 dBd / 15.55 dBd	Gain:	22.05 dBd / 15.55 dBd	Gain:	22.05 dBd / 15.55 dBd
Height (AGL):	140 feet	Height (AGL):	140 feet	Height (AGL):	140 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	320.00 Watts	Total TX Power (W):	320.00 Watts	Total TX Power (W):	320.00 Watts
ERP (W):	41,349.26	ERP (W):	41,349.26	ERP (W):	41,349.26
Antenna A2 MPE %:	**8.28%**	Antenna B2 MPE %:	**8.28%**	Antenna C2 MPE %:	**8.28%**
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	RFS APXVAARR24 43-U-NA20 02DT 600	Make / Model:	RFS APXVAARR24 43-U-NA20 02DT 600	Make / Model:	RFS APXVAARR24 43-U-NA20 02DT 600
Frequency Bands:	600 MHz / 600 MHz / 700 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz
Gain:	13.14 dBd / 13.14 dBd / 13.2 dBd	Gain:	13.14 dBd / 13.14 dBd / 13.2 dBd	Gain:	13.14 dBd / 13.14 dBd / 13.2 dBd
Height (AGL):	141 feet	Height (AGL):	141 feet	Height (AGL):	141 feet
Channel Count:	3	Channel Count:	3	Channel Count:	3
Total TX Power (W):	160.00 Watts	Total TX Power (W):	160.00 Watts	Total TX Power (W):	160.00 Watts
ERP (W):	2,891.53	ERP (W):	2,891.53	ERP (W):	2,891.53
Antenna A3 MPE %:	**1.37%**	Antenna B3 MPE %:	**1.37%**	Antenna C3 MPE %:	**1.37%**

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Combined Sectors):	0.97%
AT&T	0.36%
Verizon	1.06%
Site Total MPE % :	2.39%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	0.97%
T-Mobile Sector B Total:	0.97%
T-Mobile Sector C Total:	0.96%
T-Mobile Total MPE % :	0.97%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
T-Mobile 2100 MHz LTE	1	7501.014114	140	15.01851274	2100 MHz LTE	1000.0	1.50%
T-Mobile 1900 MHz LTE	1	5836.063151	140	11.68495186	1900 MHz LTE	1000.0	1.17%
T-Mobile 1900 MHz GSM	1	364.7539469	140	0.730309491	1900 MHz GSM	1000.0	0.07%
T-Mobile 1900 MHz NR	1	5836.063151	140	11.68495186	1900 MHz NR	1000.0	1.17%
T-Mobile 2500 MHz NR	2	19238.94469	140	77.04033923	2500 MHz NR	1000.0	7.70%
T-Mobile 2500 MHz NR	2	1435.687739	140	5.749061199	2500 MHz NR	1000.0	0.57%
T-Mobile 600 MHz NR	1	1440.754508	141	2.842097624	600 MHz NR	400.0	0.71%
T-Mobile 600 MHz LTE	1	720.3772538	141	1.421048812	600 MHz LTE	400.0	0.36%
T-Mobile 700 MHz LTE	1	730.3986996	141	1.44081757	700 MHz LTE	467.0	0.31%
						T-Mobile Total:	**0.97%**

• NOTE: Total T-Mobile MPE values reflect all T-Mobile antennas as reported by RoofMaster™ combined modeling.
• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	0.97%
Sector B:	0.97%
Sector C:	0.96%
T-Mobile Maximum MPE % (Sector A):	0.97%
T-Mobile Combined Sectors MPE %:	0.97%
Site Total:	2.39%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **2.39%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions or documents available on the Connecticut Siting Council website.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

EXHIBIT H

Recipient Mailing Records

Bachi, Jenifer

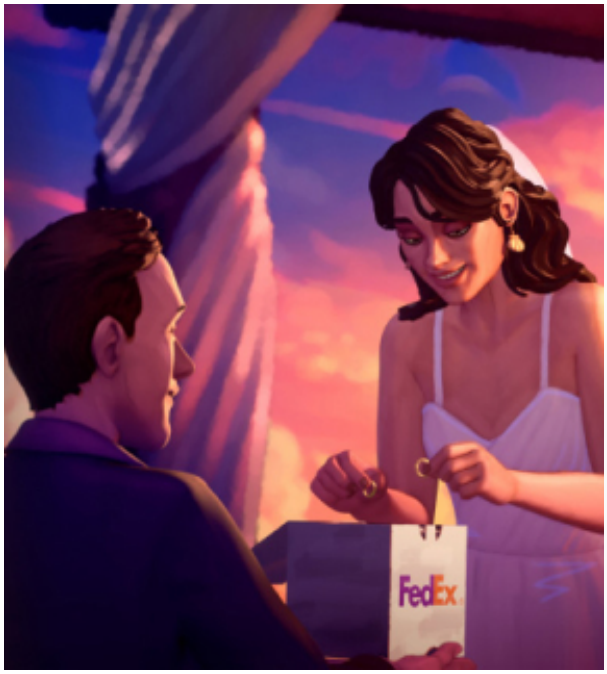
From: TrackingUpdates@fedex.com
Sent: Tuesday, May 14, 2024 10:56 AM
To: Bachi, Jenifer
Subject: FedEx Shipment 776362846552: Your package has been delivered / 841289 - Selectman Delivery

Hi. Your package was delivered Tue, 05/14/2024 at 10:48am.

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	776362846552
FROM	KING OF PRUSSIA, PA, US
TO	OLD SAYBROOK, CT, US
SHIP DATE	Mon 5/13/2024 06:00 PM
DELIVERED TO	Shipping/Receiving
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	OLD SAYBROOK, CT, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



Absolutely, positively committed to you

Every delivery deserves extra care. Even if it means one of our drivers takes on the role of ringbearer for a customer's wedding. We'll work to make your next delivery special too.

WATCH FEDEX IN ACTION

FOLLOW FEDEX

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 9:55 AM CDT 05/14/2024.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

Bachi, Jenifer

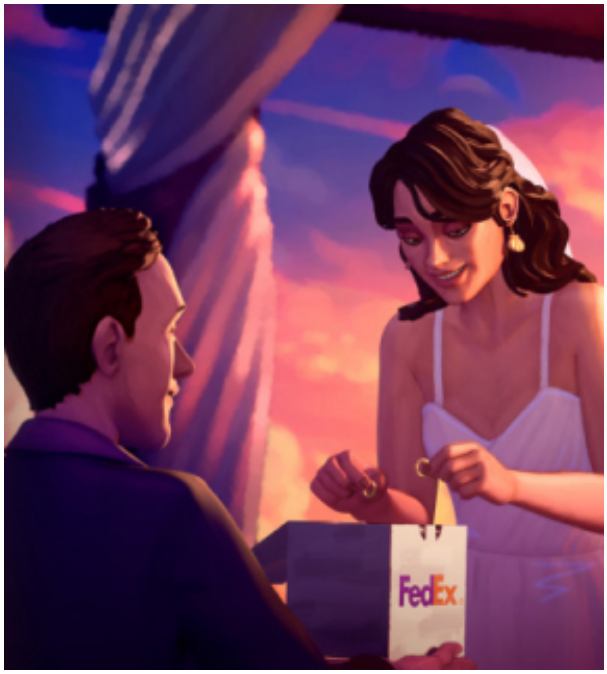
From: TrackingUpdates@fedex.com
Sent: Tuesday, May 14, 2024 10:58 AM
To: Bachi, Jenifer
Subject: FedEx Shipment 776362931026: Your package has been delivered / 841289 - Planning Delivery

Hi. Your package was delivered Tue, 05/14/2024 at 10:50am.

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	776362931026
FROM	KING OF PRUSSIA, PA, US
TO	OLD SAYBROOK, CT, US
SHIP DATE	Mon 5/13/2024 06:00 PM
DELIVERED TO	Shipping/Receiving
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	OLD SAYBROOK, CT, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



Absolutely, positively committed to you

Every delivery deserves extra care. Even if it means one of our drivers takes on the role of ringbearer for a customer's wedding. We'll work to make your next delivery special too.

WATCH FEDEX IN ACTION

FOLLOW FEDEX

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 9:58 AM CDT 05/14/2024.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

Bachi, Jenifer

From: TrackingUpdates@fedex.com
Sent: Tuesday, May 14, 2024 11:36 AM
To: Bachi, Jenifer
Subject: FedEx Shipment 776363058263: Your package has been delivered / 841289 - Property Owner Delivery
Attachments: DeliveryPicture.jpeg

Hi. Your package was delivered Tue, 05/14/2024 at 11:29am.

OBTAIN PROOF OF DELIVERY

Delivery picture not showing? View in browser.

How was your delivery ?

TRACKING NUMBER	776363058263
FROM	KING OF PRUSSIA, PA, US
TO	OLD SAYBROOK, CT, US
SHIP DATE	Mon 5/13/2024 06:00 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	OLD SAYBROOK, CT, US

SPECIAL HANDLING	Deliver Weekday Residential Delivery
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Absolutely, positively committed to you

Every delivery deserves extra care. Even if it means one of our drivers takes on the role of ringbearer for a customer's wedding. We'll work to make your next delivery special too.

WATCH FEDEX IN ACTION

FOLLOW FEDEX

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 10:35 AM CDT 05/14/2024.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

ORIGIN ID:KPDA (610) 635-3221
JENIFER BACHI
CROWN CASTLE
3200 HORIZON DRIVE
SUITE 150
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 14MAY24
ACTWGT: 2.00 LB
CAD: 104924192/INET4730

BILL SENDER

TO **MELANIE A. BACHMAN, EXEC DIRECTOR**
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQUARE

NEW BRITAIN CT 06051
(860) 827-2935 REF. 1766 668
INV
PO 841289_TMOBILE DEPT

583J4/C458/9AE3

FedEx Express

J4202403260luw

WED - 15 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7763 7757 4237**

EB BDLA

06051
CT-US **BDL**

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.