



Northeast Site Solutions
Denise Sabo
4 Angela's Way, Burlington CT 06013
203-435-3640
denise@northeastsitesolutions.com

April 5, 2021

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Exempt Modification Application
131 Manor Road, Guilford CT 06437
Latitude: 41.330025
Longitude: -72.721808
T-Mobile Site#: 806361_Crown_ATT

Dear Ms. Bachman:

AT&T is requesting to file an exempt modification for an existing tower located at 131 Manor Road, Guilford CT. AT&T currently maintains nine (9) antennas at the 138-foot level of the existing 150-foot tower. The property is owned by BW Bishop & Sons, Inc, and the tower is owned by Crown Castle. AT&T now intends to replace three (3) existing antenna with three (3) new 700/850/2100 MHz antenna, and add three (3) new 700/1900 MHz antenna. The new antennas would be installed at the 138-foot level of the tower. This modification includes B2, B5, and B12 hardware that is both 4G (LTE), and 5GNR capable through remote software configuration and either or both may be turned on or off at various times.

AT&T Planned Modifications:

Remove:

(6) Powerwave LGP21901 (Diplexers)

Remove and Replace:

(3) Powerwave 7770- Antenna (REMOVE) - (3) CCI-DMP65R-BU6DA Antenna 700/850/2100 MHz (REPLACE)

(3) RRUS11 B12 (REMOVE) – (3) RRU 4478 B14 (REPLACE)

(3) RRUS 12 B2 (REMOVE) – (3) RRU8843 B2/B66A (REPLACE)

Install New:

Handrail Reinforcement/Stabilizer Kit – PRK-SFS with Corner Brace

(3) CCI- OPA65R – BU6DA Antenna 700/1900 MHz

(1) Raycap

(1) 3/8" Fiber Lines

(2) 7/8" DC Cables

(3) RRU 4449 B5/B12



Existing to Remain:

- (6) TMA – LPG- 21401
- (3) CCI-HPA 65R-BUU H6 Antenna (Dormant)
- (3) Powerwave 7770 Antenna 850 MHz
- (1) 3/8” Fiber Lines
- (12) 1-1/4” Coax
- (2) 3/8” Power Cables
- (1) Raycap
- (3) Powerwave 1001940 (Bias Tee)

Ground Work:

- (1) BBU 6630
- DC Power Plant with Batteries

This facility was approved by the CT Siting Council – Docket No.56 – Dated April 14, 1986. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-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-SOj-73, a copy of this letter is being sent to Matthew T. Hoey, III, First Selectman, Elected and Erin Mannix, Zoning Enforcement Officer for the Town of Guilford, as well as the property owner and the tower owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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

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



NSS **NORTHEAST**
SITE SOLUTIONS
Turnkey Wireless Development

Sincerely,

Denise Sabo

Mobile: 203-435-3640

Fax: 413-521-0558

Office: 4 Angela's Way, Burlington CT 06013

Email: denise@northeastsitesolutions.com

Attachments cc:

Matthew T. Hoey, III, First Selectman (*via email only to hoeym@ci.guilford.ct.us*)
Town of Guilford
31 Park Street, Guilford CT 06437

Erin Mannix, Zoning Enforcement Officer (*via email only to mannixe@ci.guilford.ct.us*)
Town of Guilford
31 Park Street, Guilford CT 06437

BW Bishop & Sons, Inc – Property Owner (*via email only to keith.bishop@bishoporchards.com*)
1355 Boston Post Road, Guilford CT 06437

Crown Castle – Tower Owner
Attn: Anne Marie Zsamba (*via email only to AnneMarie.Zsamba@crowncastle.com*)

Exhibit A

DOCKET NO. 56

AN APPLICATION OF METRO MOBILE CTS OF NEW HAVEN, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF FACILITIES TO PROVIDE CELLULAR SERVICE IN NEW HAVEN COUNTY. : CONNECTICUT SITING
: COUNCIL
: April 14, 1986

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 (CGS) be issued to Metro Mobile CTS of New Haven, Inc., for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Wolcott, Naugatuck, West Haven (existing tower), Milford, Hamden (existing tower), Guilford, and North Branford subject to the conditions below.

1. The proposed and alternate Beacon Falls sites are rejected without prejudice.
2. The Wolcott tower shall be constructed to meet Zone C wind loading with 1" of radial ice and shall not exceed 180' in height excluding antennas.
3. The Naugatuck tower shall not exceed 160' in height, excluding antennas. The certificate holder shall offer to remove the existing privately owned, unused tower now on the site.
4. Any future actions requiring the removal of the existing West Haven or Hamden towers to be shared by the certificate holder shall also apply to the equipment mounted on those towers by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.

5. The Milford tower shall be a monopole structure not to exceed 100' in height, excluding antennas.
6. The Guilford tower shall be a monopole structure not to exceed 150' in height, excluding antennas.
7. The North Branford Route 17 site is rejected. The North Branford East Reeds Gap Road tower shall not exceed 160' in height, excluding antennas.
8. The certificate holder shall submit a development and management plan for the Wolcott, Naugatuck, Milford, Hamden, Guilford, and North Branford sites pursuant to sections 16-50j-75 through 16-50j-77 of the RSA, except that irrelevant items in section 16-50j-76 need only be identified as such. In addition to the requirements of section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Wolcott, Milford, Hamden, Guilford, and North Branford sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.
9. All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the site development and management plan required by order 8.
10. The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with 16-50j-73, the

certificate holder shall notify the Council of the addition of any equipment to any approved tower.

11. A fence not lower than 8' shall surround each tower and associated equipment.
12. Unless necessary to comply with order 13, below, no lights shall be installed on any of these towers.
13. The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to sections 16-50i and 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.
14. Construction activities shall take place during daylight working hours.
15. This decision and order shall be void and the towers and associated equipment shall be dismantled and removed, or reapplication for any new use shall be made to the CSC before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.
16. This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

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

of the issuance shall be published in The Record-Journal, The New Haven Register, The Branford Review, The Evening Sentinel, The Waterbury American, and The Waterbury Republican.

The parties to this proceeding are:

Metro Mobile CTS of New Haven, Inc. (Applicant)
5 Eversley Avenue
Norwalk, Connecticut 06855

ATTN: Armand Mascioli
General Manager

Mr. Kevin B. Sullivan, Esq. (its attorneys)
Byrne, Slater, Sandler, Shulman & Rouse, P.C.
111 Pearl Street
P.O. Box 3216
Hartford, Connecticut 06103

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

Guilford Conservation Commission

represented by:

Mr. David B. Damer
Chairman
Guilford Conservation Commission
440 Great Hill Road
Guilford, Connecticut 06437

Mr. Robert W. Griswold, Jr.
100 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Town of Hamden
Memorial Town Hall
2372 Whitney Avenue
Hamden, Connecticut 06518

ATTN: Shirley Gonzales
Town Planner

Guilford Planning and Zoning Commission

represented by:

Mr. David W. Fisher
Chairman
Town Hall
31 Park Street
Guilford, Connecticut 06437

Town of Hamden

represented by:

John DeNicola, Jr.
Mayor
Town of Hamden
Memorial Town Hall
2372 Whitney Avenue
New Haven, Connecticut 06518

Citizens Park Council of New Haven

represented by:

Mr. John J. Ciarleglio
President
Citizens Park Council
of New Haven
36 Elmwood Road
New Haven, Connecticut 06515

Mr. Thomas V. Keating
343 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Ms. Evelyn M. Sirowich
245 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Mr. Jack B. Levine
11 White Birch Lane
Beacon Falls, Connecticut 06403

Southern New England Telephone Company

represented by:

Mr. Peter J. Tyrrell, Esq.
227 Church Street
New Haven, Connecticut 06506

Mr. Dennis Bialecki
96 West Road
Beacon Falls, Connecticut 06403

Brittany Woods Homeowner's Association

represented by:

Mr. Stephen P. DeI Sole, Esq.
DeI Sole & DeI Sole
152 Temple Street
P.O. Box 405
New Haven, Connecticut 06502-0405

Ms. Barbara G. Schlein
Box 2993 Westville Station
New Haven, Connecticut 06515

Mr. & Mrs. Joseph T. Farrell, Jr.
334 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Town of Beacon Falls

represented by:

The Honorable Leonard F. D'Amico
First Selectman
10 Maple Avenue
Beacon Falls, Connecticut 06403

West Rock Ridge Park Association

represented by:

Mr. William L. Doheny Jr., D.D.S.
President
220 Mountain Road
Hamden, Connecticut 06514

Department of Parks,
Recreation & Trees

represented by:

Mr. Robert G. Sheeley
Director
Parks, Recreation & Trees
P.O. Box 1416
New Haven, Connecticut 06506

Town of Wallingford

represented by:

William W. Dickinson, Jr.
Mayor
Municipal Building
350 Center Street
P.O. Box 427
Wallingford, Connecticut 06492

New Haven Sierra Club

represented by:

Ms. Laurie Klein
270 Edgewood Avenue
New Haven, Connecticut 06511

Peter M. Lerner
State Representative
8 Merritt Avenue
Woodbridge, Connecticut 06525

Carleton J. Benson
State Representative
161 Scott Road
Prospect, Connecticut 06712

Dr. Stephen Collins (service waived)
Vice Chairman
West Rock State Park
Advisory Council
Bethany, Connecticut

Mr. Louis Melillo (service waived)
985 Wintergreen Avenue
Hamden, Connecticut

Mr. John McGeever (service waived)
339 Rimmon Hill
Beacon Falls, Connecticut 06403

Senator John Consoli (service waived)
51 Luke Hill Road
Bethany, Connecticut 06525

Representative George P. Bassing (service waived)
14 Oakwood Drive
Seymour, Connecticut 06483

Dr. George D. Whitney (service waived)
858 Oakwood Road
Orange, Connecticut

Mr. Steve Molnar (service waived)
205 West Road
Beacon Falls, Connecticut

Mr. James W. Grandy (service waived)
President
Hamden Land Conservation Trust
Hamden, Connecticut

Senator Richard S. Eaton (service waived)
269 Mulberry Point Road
Guilford, Connecticut 06437

Representative Robert M. Ward
719 Totoket Road
Northford, Connecticut 06472

Town of North Branford

represented by:

John Gesmonde, Esquire
3127 Whitney Avenue
Hamden, Connecticut 06518

Regina Smith
1887 Middletown Avenue
Northford, Connecticut 06472

(service waived)

Richard A. Nizolek
The Restland Farm Corporation
Route 17
Northford, Connecticut 06472

Mary Liska
83 Reeds Gap Road
Northford, Connecticut 06472

Ben Bullard
50 Christmas Hill Road
Guilford, Connecticut 06437

(service waived)

Roland Robichaud
31 Berncliff Drive
North Branford, Connecticut 06471

(service waived)

Irene Flynn
1926 Middletown Avenue
Northford, Connecticut 06472

(service waived)

Charles Pope
199 Donalds Road
Guilford, Connecticut 06437

Richard Abate
131 Manor Road
Guilford, Connecticut 06437

(service waived)

City of Milford

represented by:

Mayor Alberta Jagoe
Alderman Maurice Condon
Alderman Frederick Lisman
City Hall
River Street
Milford, Connecticut 06460

Thomas Scelfo
81 Berncliff Drive
North Branford, Connecticut 06471

(service waived)

Senator Thomas Scott
22 Meyers Court
Milford, Connecticut 06460

(service waived)

Helen Moore
385 Oronoque Road
Milford, Connecticut 06460

(service waived)

William Barberi
298 Oronoque Road
Milford, Connecticut 06460

(service waived)

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

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


Dated at New Britain, Connecticut, this 14th day of April, 1986.

<u>Council Members</u>	<u>Vote Cast</u>
<u>Gloria Dibble Pond</u> Gloria Dibble Pond Chairperson	Yes
<u>Commissioner John Downey</u> Designee: Commissioner Peter G. Boucher	Absent
<u>Stanley Pad</u> Commissioner Stanley Pad Designee: Christopher Cooper	No
<u>Owen L. Clark</u> Owen L. Clark	Yes
<u>Mortimer A. Gelston</u> Mortimer A. Gelston	Yes
<u>James G. Horsfall</u> James G. Horsfall	Yes
<u>Pamela B. Katz</u> Pamela B. Katz	Yes
<u>William H. Smith</u> William H. Smith	No
<u>Colin C. Tait</u> Colin C. Tait	No

STATE OF CONNECTICUT)
 :
COUNTY OF HARTFORD) ss. New Britain, April 14, 1986

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

ATTEST:



Christopher S. Wood, Executive Director
Connecticut Siting Council

Exhibit B

All information is for assessment purposes only. Assessments are calculated at 70% of the estimated October 1, 2017 market value which was the date of the last revaluation as completed by eQuality Valuation Services, LLC.



The Town of
Guilford
Connecticut, USA Founded 1639

"Discover a piece of Connecticut History"

Information on the Property Records for the Municipality of Guilford was last updated on 1/22/2021.

Parcel Information

Location:	LONG HILL RD	Map and Parcel:	090017	Census Tract:	1903
Zoning:	R-5	Developer's Map:		Developer's Lot:	
Total Acreage:	21.2	Farm, Forest, Open Space Acres:	20.2	Unique ID:	580

Value Information

	Appraised Value	Assessed Value
Land	845,130	391,500
Buildings	0	0
Detached Outbuildings	0	0
Total	845,130	391,500

Owner's Information

Owner's Data

BISHOP B W & SONS INC
1355 BOSTON POST RD
GUILFORD, CT 06437

Owner History - Sales

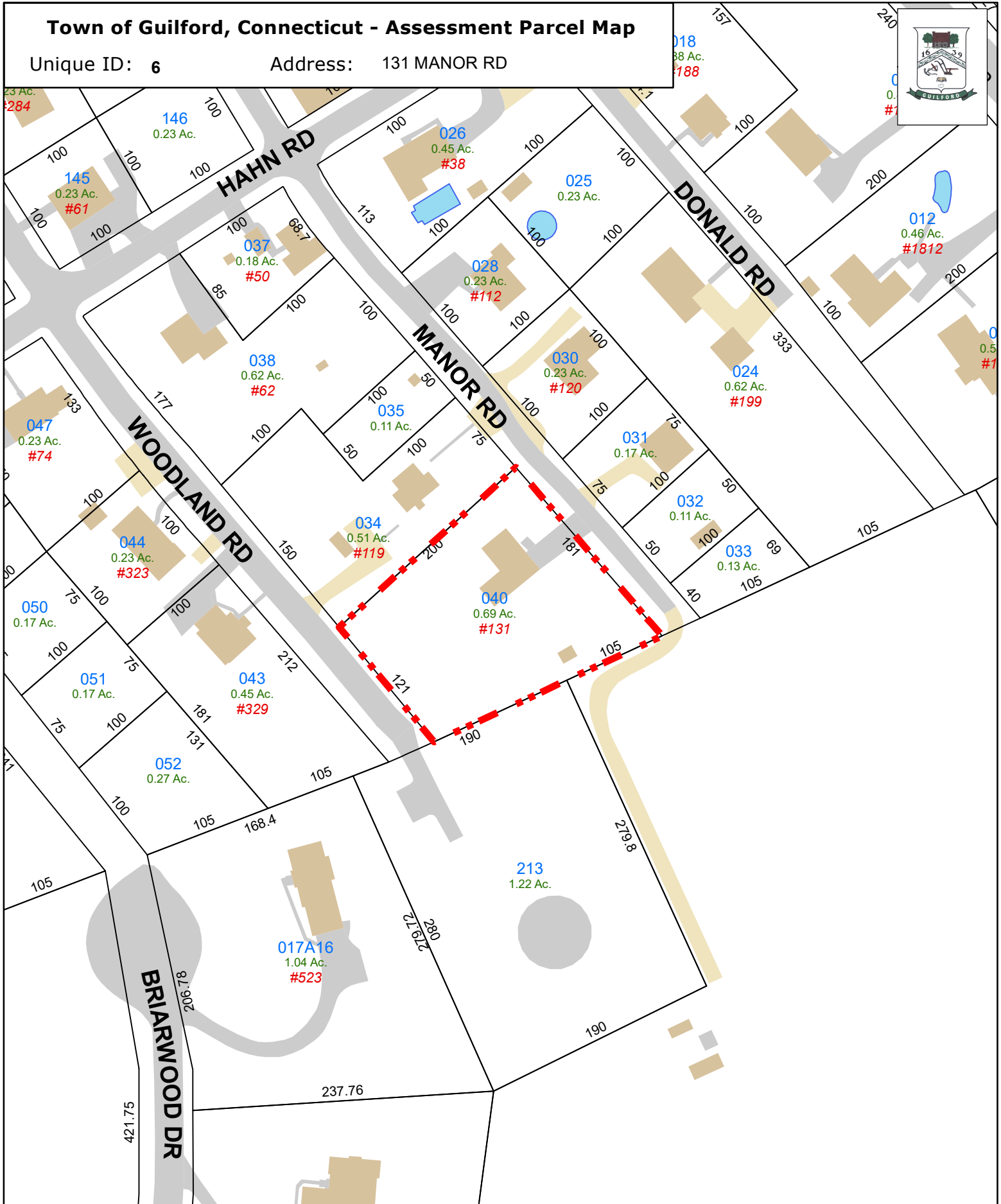
Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
BISHOP B W & SONS INC	0131	0193	11/19/1987		No	\$0

Information Published With Permission From The Assessor

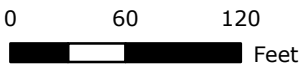
Town of Guilford, Connecticut - Assessment Parcel Map

Unique ID: 6

Address: 131 MANOR RD



Approximate Scale: 1 inch = 100 feet



Map Produced: September 2020

Disclaimer:
This map is for informational purposes only. All information is subject to verification by any user. The Town of Guilford and its mapping contractors assume no legal responsibility for the information contained herein.

Exhibit C



AT&T SITE NUMBER: 61163
AT&T SITE NAME: CTV2030
AT&T FA CODE: 10035042
AT&T PACE NUMBER: MRCTB048592, MRCTB048471, MRCTB048634, MRCTB048476, MRCTB048475
AT&T PROJECT: LTE 3C, LTE 4C, 4TX4RX

BUSINESS UNIT #: 806361
SITE ADDRESS: 131 MANOR ROAD
 GUILFORD, CT 06437
COUNTY: NEW HAVEN
SITE TYPE: MONOPOLE
TOWER HEIGHT: 150'-0"



AT&T SITE NUMBER: 61163

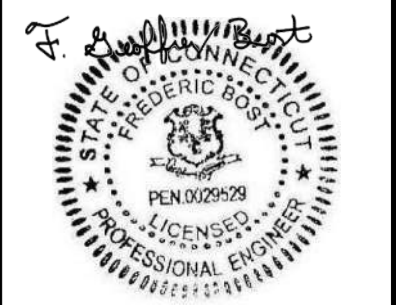
BU #: 806361
 NHV 102 943127

131 MANOR ROAD
 GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	03/10/2021	AM	CONSTRUCTION	AS
1	04/02/2021	AM	JURISDICTION	AS



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

SHEET NUMBER: T-1
REVISION: 1

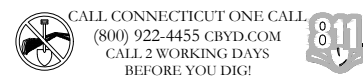
SITE INFORMATION

CROWN CASTLE USA INC. NHV 102 943127
 SITE NAME:
 SITE ADDRESS: 131 MANOR ROAD
 GUILFORD, CT 06437
 COUNTY: NEW HAVEN
 MAP/PARCEL #: 090017
 AREA OF CONSTRUCTION: EXISTING
 LATITUDE: 41° 19' 48.09"
 LONGITUDE: -72° 43' 18.51"
 LAT/LONG TYPE: NAD83
 GROUND ELEVATION: 287±
 CURRENT ZONING: R-5
 JURISDICTION: TOWN OF GUILFORD
 OCCUPANCY CLASSIFICATION: U-UNMANNED
 TYPE OF CONSTRUCTION: IIB
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 PROPERTY OWNER: BISHOP B W & SONS INC.
 1355 BOSTON POST RD
 GUILFORD, CT 06437
 TOWER OWNER: CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
 CARRIER/APPLICANT: AT&T TOWER ASSET GROUP
 575 MOROSGO DRIVE
 ATLANTA, GA 30324-3300
 ELECTRIC PROVIDER: CONNECTICUT LIGHT & POWER CO
 03 397 276
 TELCO PROVIDER: LIGHTOWER

DRAWING INDEX

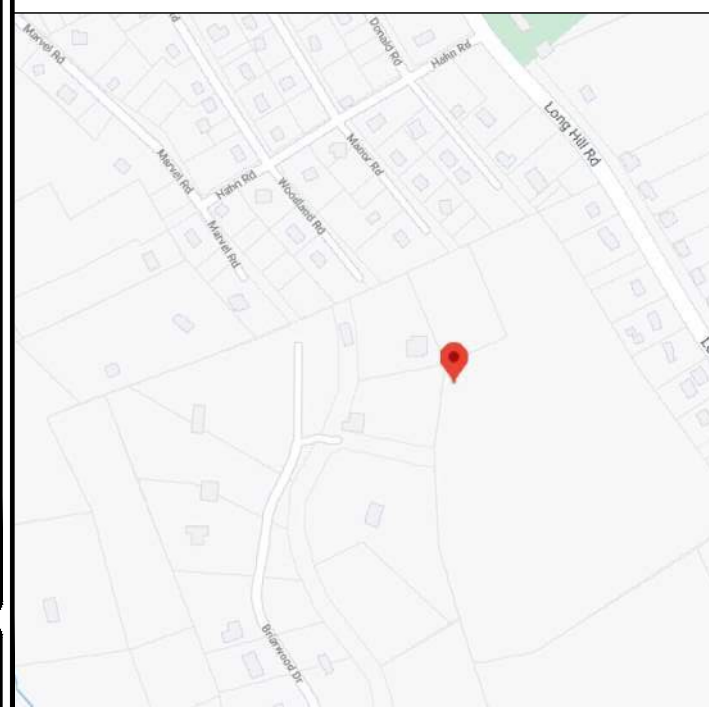
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS I
C-5	EQUIPMENT MOUNTING DETAILS II
C-6	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ATTACHED	MOUNT MODIFICATION DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR AT&T. 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 CBVD.COM
 CALL 2 WORKING DAYS
 BEFORE YOU DIG!

LOCATION MAP



NO SCALE

SITE PHOTO



PROJECT TEAM

A&E FIRM: ENGINEERED TOWER SOLUTIONS, PLLC
 3227 WELLINGTON COURT
 RALEIGH, NC 27615
 CROWNAESERVICES@ETS-PLLC.COM
 CROWN CASTLE USA INC. DISTRICT CONTACTS:
 370 MALLORY STATION ROAD, SUITE 505
 FRANKLIN, TN 37067
 VERONICA DELIA - PROJECT MANAGER
 JASON D'AMICO - CONSTRUCTION MANAGER

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) POWERWAVE 7770 ANTENNAS
- REMOVE (3) ERICSSON - RRUS 11 B12
- REMOVE (3) ERICSSON - RRUS 12 B2 + RRUS A2 B25
- REMOVE (6) DIPLEXERS
- INSTALL (3) OPA65R-BU6DA ANTENNAS
- INSTALL (3) DMP65R-BU6DA ANTENNAS
- INSTALL (3) ERICSSON - 4449 B5/B12 RRUs
- INSTALL (3) ERICSSON - 8843 B2/B66A RRUs
- INSTALL (3) ERICSSON - 4478 B14 RRUs
- INSTALL (1) RAYCAP - DC6-48-60-18-8F SQUID
- INSTALL (2) DC TRUNKS (7/8")
- INSTALL (1) FIBER TRUNK (3/8")
- INSTALL (2) FLEX CONDUIT

GROUND SCOPE OF WORK:

- REMOVE (1) INDOOR POWER PLANT
- REMOVE BATTERY STRINGS
- REMOVE (2) RACK MOUNTED CONVERTER SHELVES
- REMOVE (6) DIPLEXERS
- INSTALL (1) 6630
- INSTALL (1) RAYCAP - DC12-48-60-0-25E
- INSTALL (1) 7100 VERTIV INDOOR POWER PLANT
- INSTALL (6) VERTIV RECTIFIERS
- INSTALL (4) VERTIV 48V CONVERTERS
- INSTALL (15) UP-CONVERTERS
- INSTALL (12) BATTERIES
- INSTALL (1) IDLE CABLE

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	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: CROWN CASTLE
 DATED: 02/08/2021
 MOUNT ANALYSIS: POD
 DATED: 10/13/2020
 RFDS REVISION: 1
 DATED: 08/14/2020
 ORDER ID: 527516
 REVISION: 0

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

AT&T SITE NUMBER: 61163

BU #: 806361
 NHV 102 943127

131 MANOR ROAD
 GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

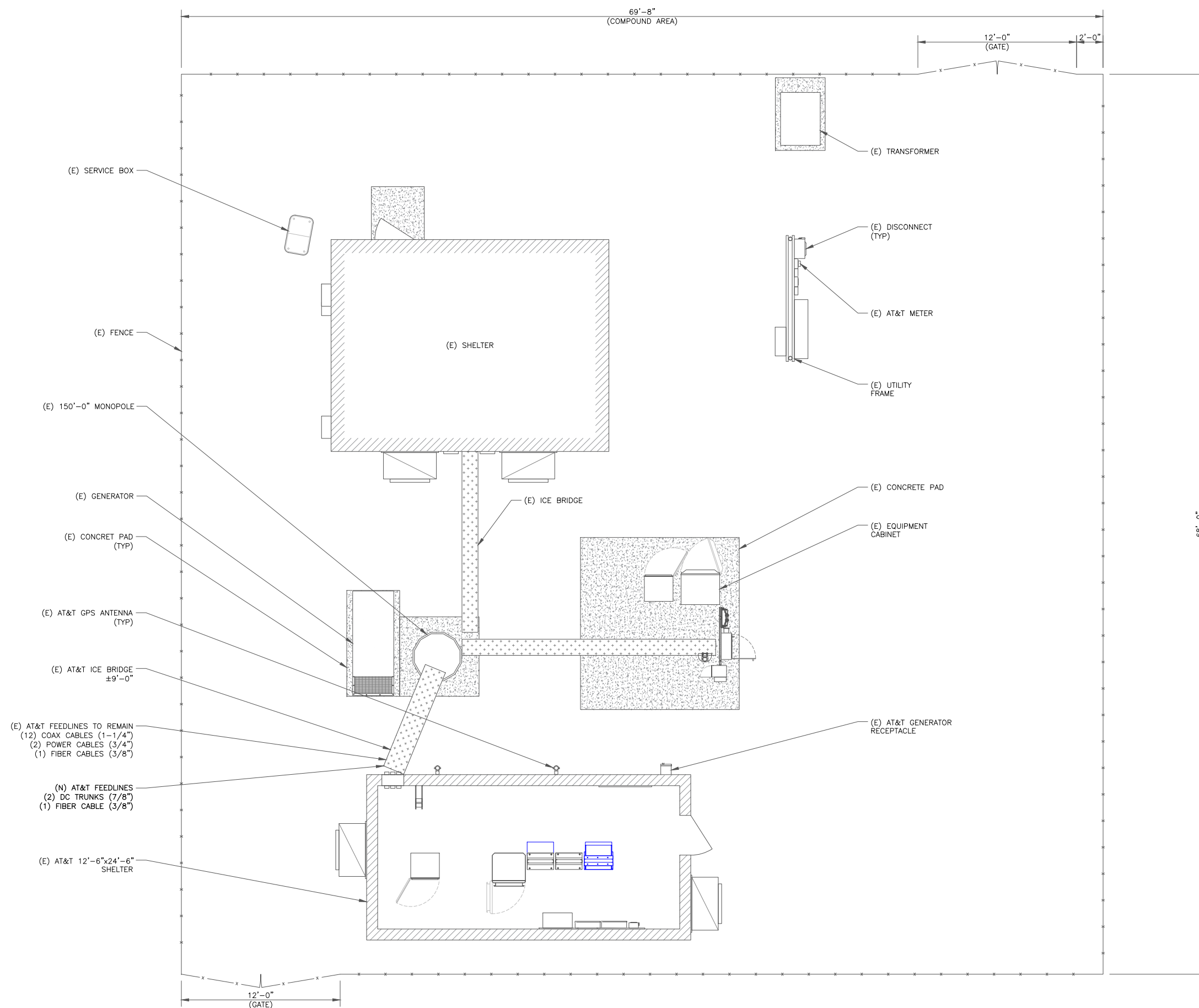
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	03/10/2021	AM	CONSTRUCTION	AS
1	04/02/2021	AM	JURISDICTION	AS



04/02/2021

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

SHEET NUMBER: **C-1.1** REVISION: **1**



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



AT&T SITE NUMBER: 61163

BU #: 806361
NHV 102 943127

131 MANOR ROAD
GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

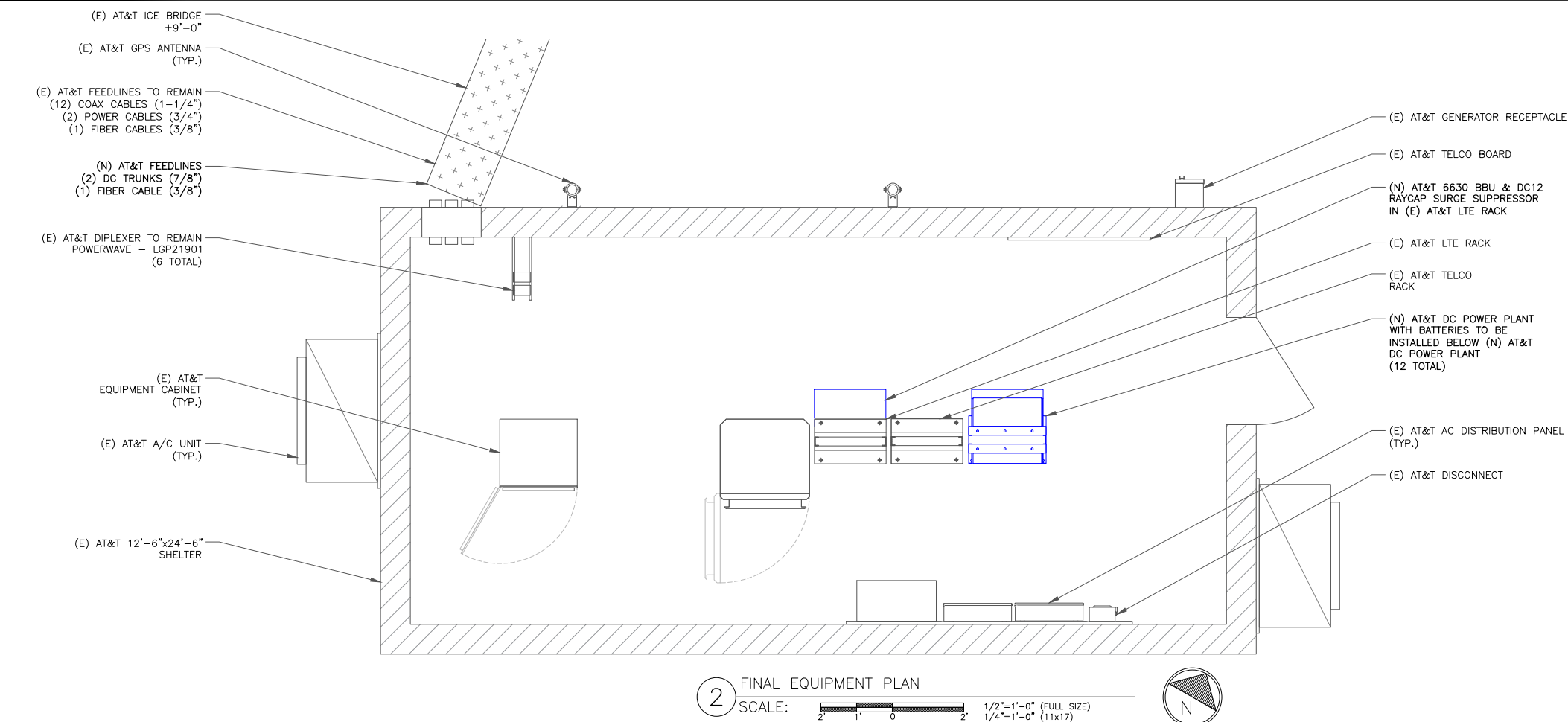
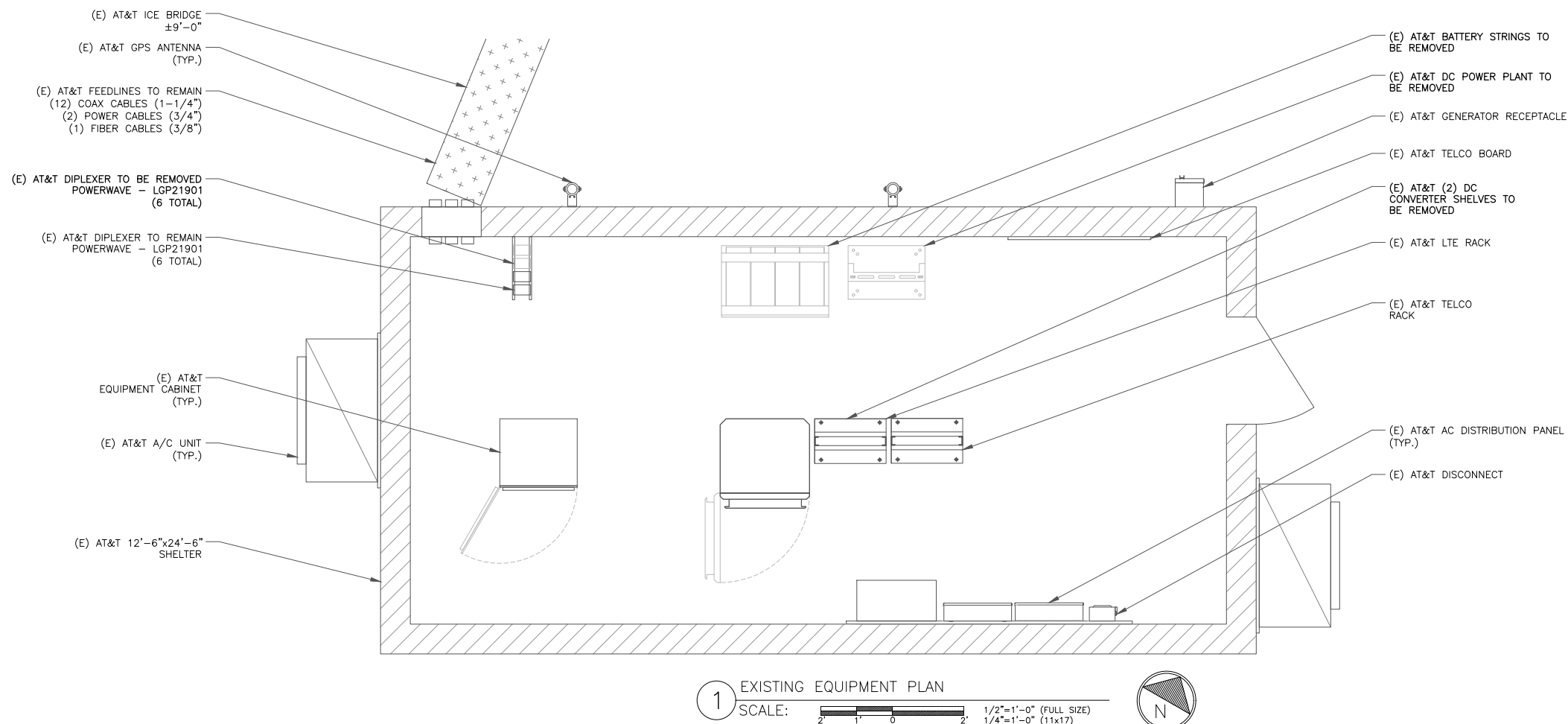
ISSUED FOR:

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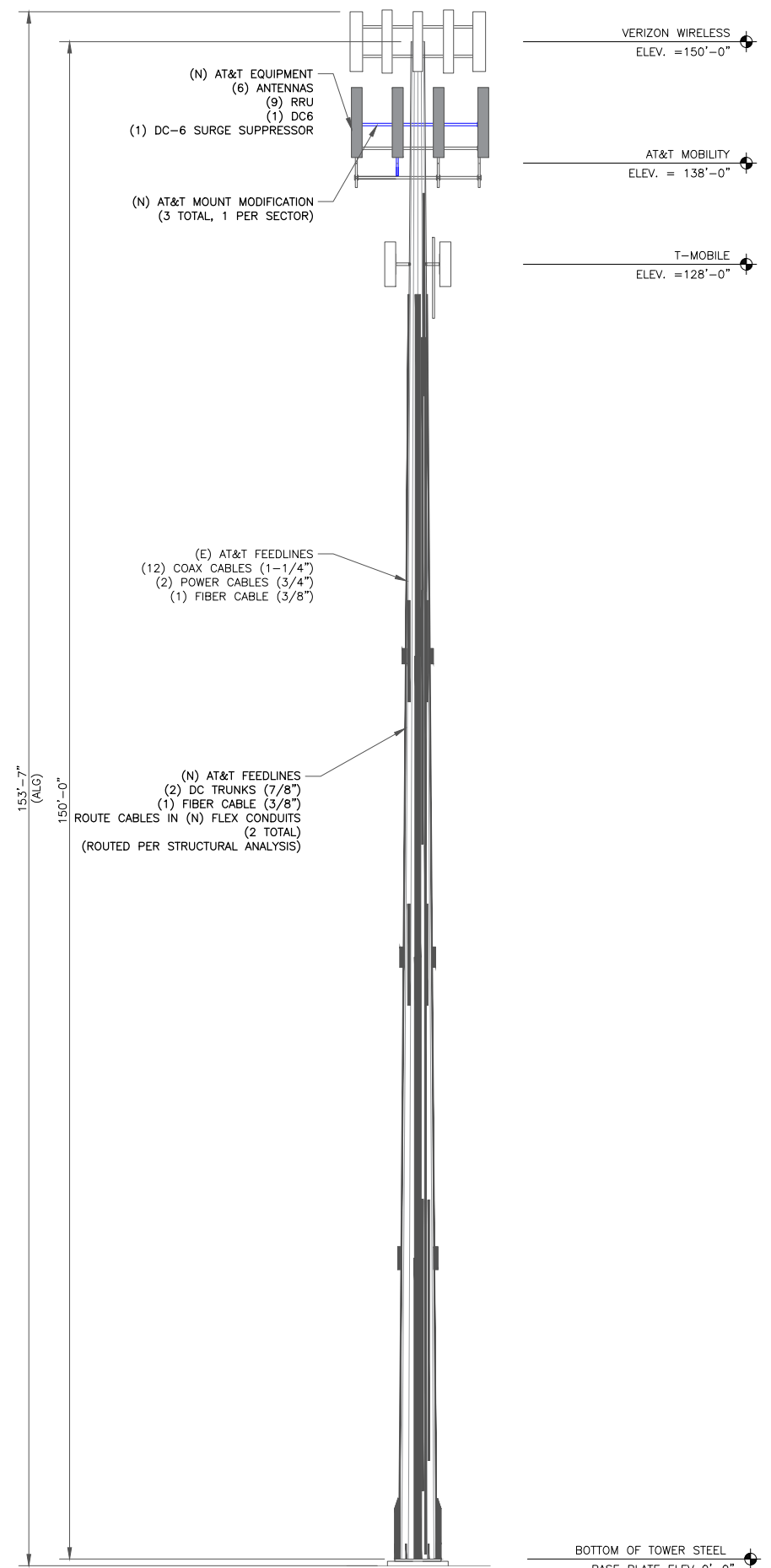
04/02/2021
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: **C-1.2** REVISION: **1**

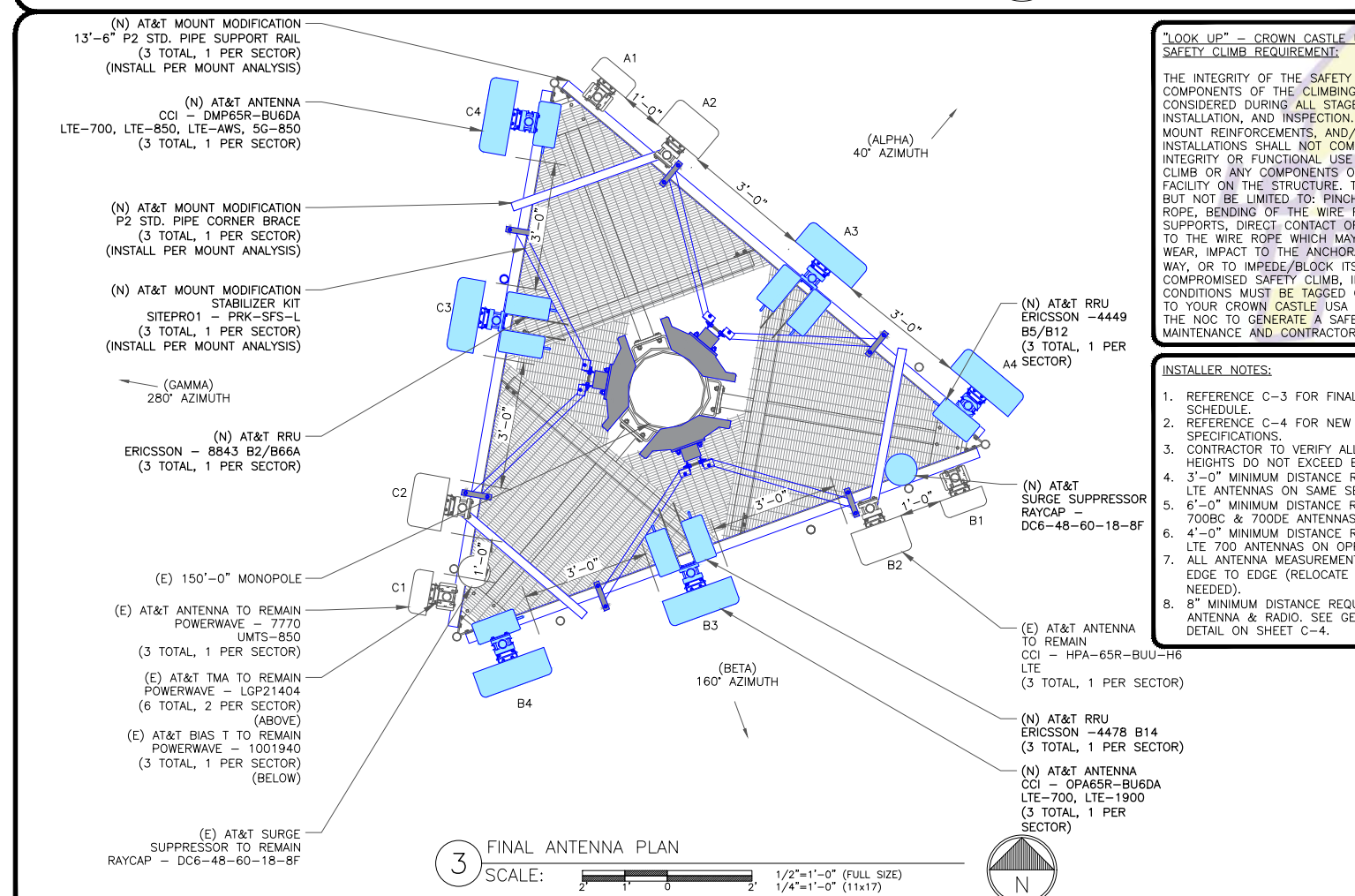
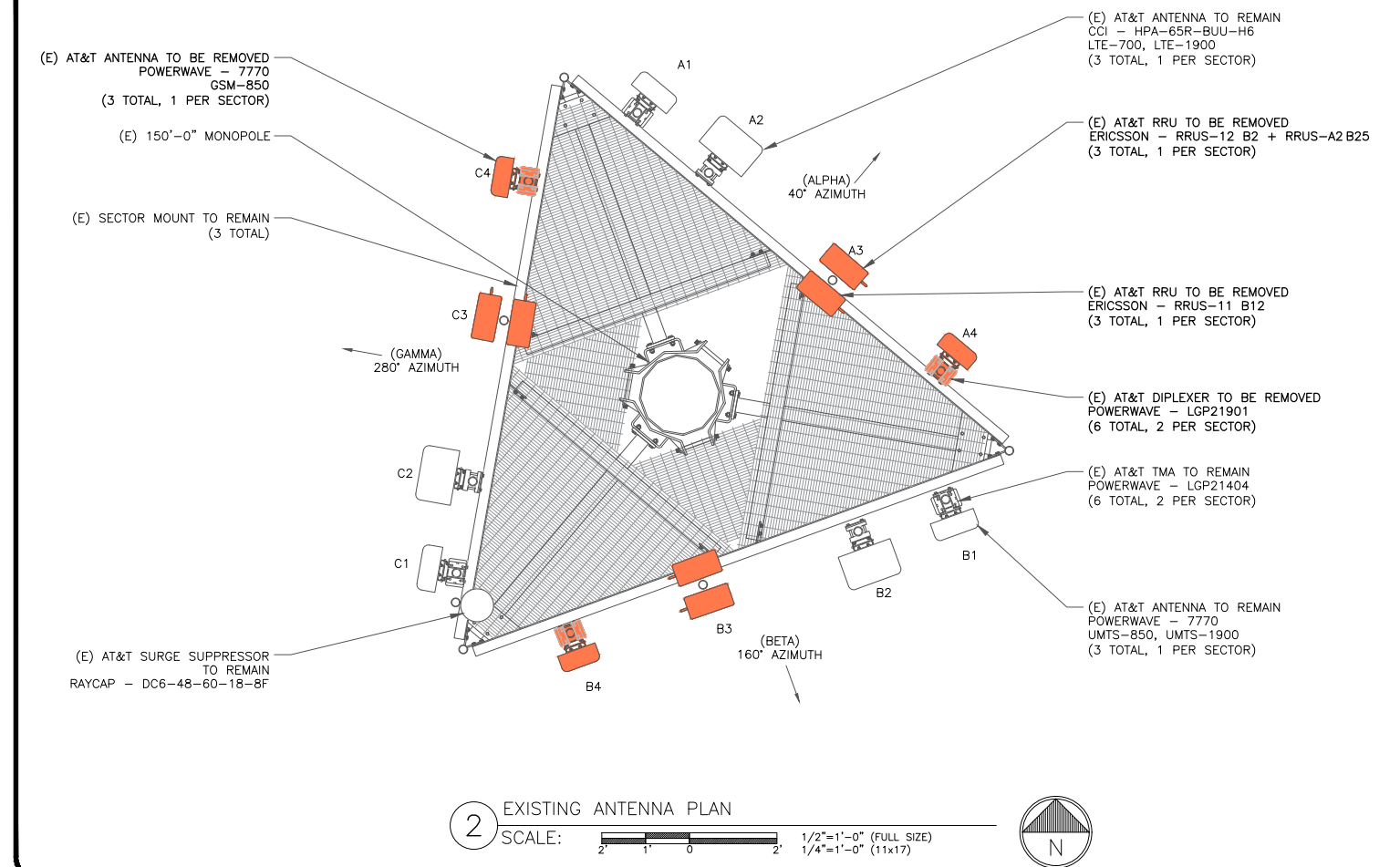


- GROUND SCOPE OF WORK:**
- REMOVE (E) AT&T DC POWER PLANT
 - REMOVE (E) AT&T BATTERY STRINGS
 - REMOVE (2) (E) LTE RACK DC CONVERTER SHELVES
 - REMOVED (12) (E) DIPLEXERS
 - INSTALL (N) AT&T DC POWER PLANT
 - INSTALL (15) UP-CONVERTERS IN NEW PP
 - INSTALL (4) 48VDC CONVERTERS IN NEW PP
 - INSTALL (6) VERTIC RECTIFIERS IN NEW PP
 - INSTALL (N) AT&T BATTERY RACK WITH (12) BATTERIES IN NEW PP
 - INSTALL (1) AT&T SURGE SUPPRESSION UNIT IN LTE RACK
 - INSTALL (1) 6630 BBU IN LTE RACK
 - INSTALL (1) IDLE CABLE

NOTE:
THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.



1 FINAL ELEVATION
SCALE: NOT TO SCALE



"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.

- INSTALLER NOTES:**
1. REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
 2. REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
 3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
 4. 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
 5. 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
 6. 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS.
 7. ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
 8. 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.

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FRANKLIN, TN 37067

ENGINEERED TOWER SOLUTIONS, PLLC
3227 WELLINGTON COURT
RALEIGH, NC 27615

AT&T SITE NUMBER: 61163

BU #: 806361
NHV 102 943127

131 MANOR ROAD
GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
0	03/10/2021	AM	CONSTRUCTION	AS
1	04/02/2021	AM	JURISDICTION	AS

STATE OF CONNECTICUT
FREDERIC BOST
PEN 0029529
LICENSED PROFESSIONAL ENGINEER

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

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

ALPHA																			
POSITION	ANTENNA				RADIO			DIPLEXER		TMA			SURGE PROTECTION		CABLES				
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MANUFACTURER MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH	
A1	UMTS-850	(E) POWERWAVE 7770	40°	142'	-	-	-	2	(E)	TOWER	2	(E) POWERWAVE - LGP21404	-	-	4	(E) COAX	1-1/4"	189'-0"	
											1	(E) POWERWAVE - 1001940							
A2	LTE	(E) CCI HPA-65R-BUU-H6	40°	142'	-	-	-	-	-	-	-	-	1	(E) DC6-48-60-18-8F SHARED	2	(E) POWER SHARED	3/4"	189'-0"	
															1	(E) FIBER SHARED	3/8"	189'-0"	
A3	LTE-700 LTE-1900	(N) CCI OPA65R-BU6DA	40°	142'	1	-	-	-	-	-	-	-	-	1	(N) DC6-48-60-18-8F SHARED	2	(N) POWER SHARED	7/8"	189'-0"
																1	(N) RADIO 4478 B14		
A4	LTE-700 LTE-850 LTE-AWS 5G-850	(N) CCI DMP65R-BU6DA	40°	142'	1	-	-	-	-	-	-	-	-	-	-	1	(N) FIBER SHARED	3/8"	189'-0"
																		1	(N) 8843 B2/B66A

BETA																		
POSITION	ANTENNA				RADIO			DIPLEXER		TMA			SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MANUFACTURER MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
B1	UMTS-850	(E) POWERWAVE 7770	40°	142'	-	-	-	2	(E)	TOWER	2	(E) POWERWAVE - LGP21404	-	-	4	(E) COAX	1-1/4"	189'-0"
											1	(E) POWERWAVE - 1001940						
B2	LTE	(E) CCI HPA-65R-BUU-H6	40°	142'	-	-	-	-	-	-	-	-	-	-	2	SHARED	-	-
															2	SHARED	-	-
B3	-	(N) CCI OPA65R-BU6DA	40°	142'	1	-	-	-	-	-	-	-	-	-	-	-	-	-
B4	LTE-700 LTE-850 LTE-AWS 5G-850	(N) CCI DMP65R-BU6DA	40°	142'	1	-	-	-	-	-	-	-	-	-	-	-	-	-

GAMMA																		
POSITION	ANTENNA				RADIO			DIPLEXER		TMA			SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MANUFACTURER MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
C1	UMTS-850	(E) POWERWAVE 7770	40°	142'	-	-	-	2	(E)	TOWER	2	(E) POWERWAVE - LGP21404	-	-	4	(E) COAX	1-1/4"	189'-0"
											1	(E) POWERWAVE - 1001940						
C2	LTE	(E) CCI HPA-65R-BUU-H6	40°	142'	-	-	-	-	-	-	-	-	-	-	2	SHARED	-	-
															2	SHARED	-	-
C3	LTE-700 LTE-1900	(N) CCI OPA65R-BU6DA	40°	142'	1	-	-	-	-	-	-	-	-	-	-	-	-	-
C4	LTE-700 LTE-850 LTE-AWS 5G-850	(N) CCI DMP65R-BU6DA	40°	142'	1	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:
(E) - EXISTING
(N) - NEW



AT&T SITE NUMBER: 61163

BU #: 806361
NHV 102 943127

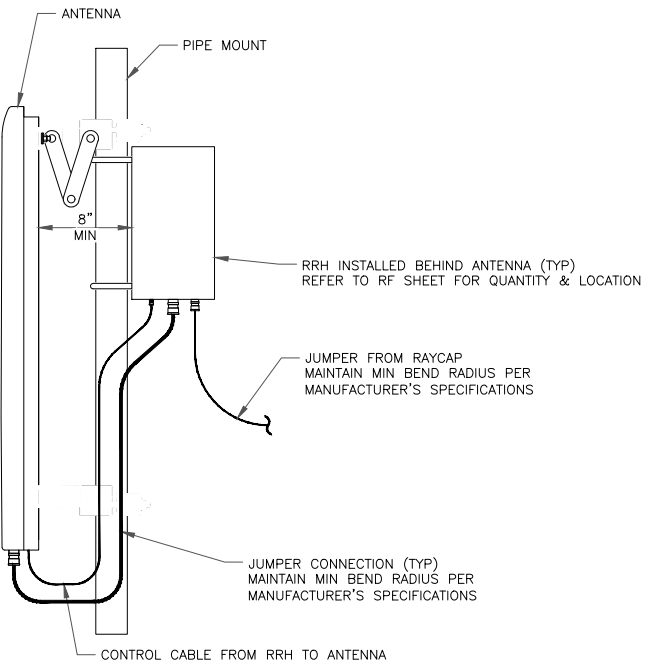
131 MANOR ROAD
GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES/QA
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1	04/02/2021	AM	JURISDICTION	AS

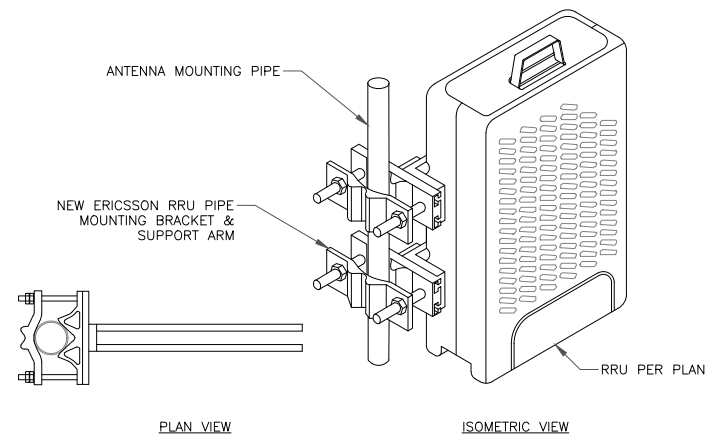


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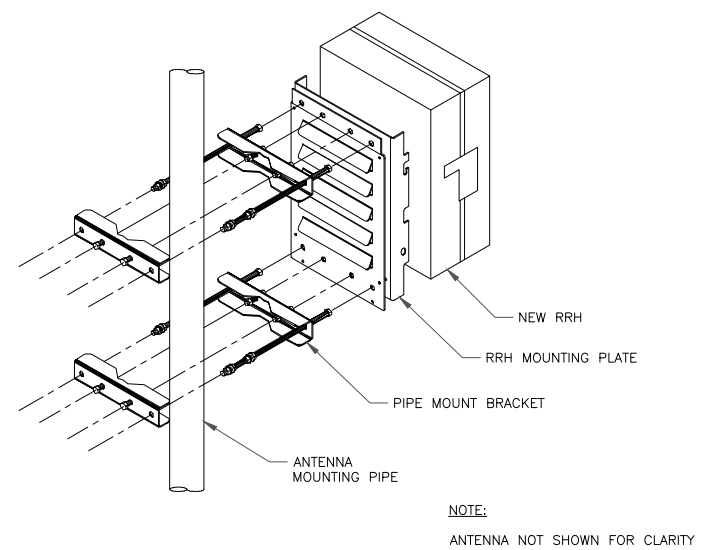


1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE

ERICSSON RRU MOUNTING KIT:
 SXX 107 2839/1: SINGLE RRU SUPPORT KIT (PART # 5335) (OR ENGINEER APPROVED EQUIVALENT)
 SXX 107 2839/2: EXPANSION KIT (PART # 5336) (OR ENGINEER APPROVED EQUIVALENT)
MOUNTING NOTES:
 REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE DIAMETER TOLERANCES. THE PART NO. SXX107-2839/2 IS REQUIRED FOR (2) RRUS.



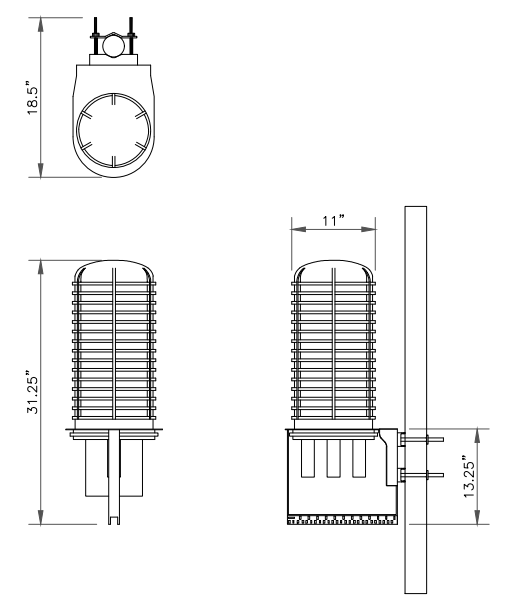
2 ERICSSON - SXX 107 2839
SCALE: NOT TO SCALE



3 SINGLE RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

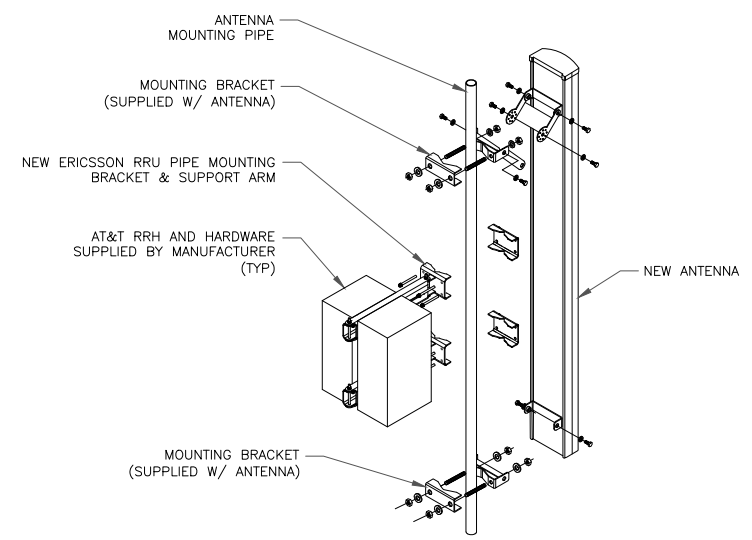
RAYCAP
 DC6-48-60-18-8F

RAYCAP - DC6-48-60-18-8F
 SIZE: 11x31.25 IN.
 WEIGHT: 32.8 LBS
 NOMINAL OPERATING VOLTAGE: 48 VDC
 VOLTAGE PROTECTION RATING: 400 V
 WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
 WIND LOADING: 195 MPH GUST (213.6 LBS)



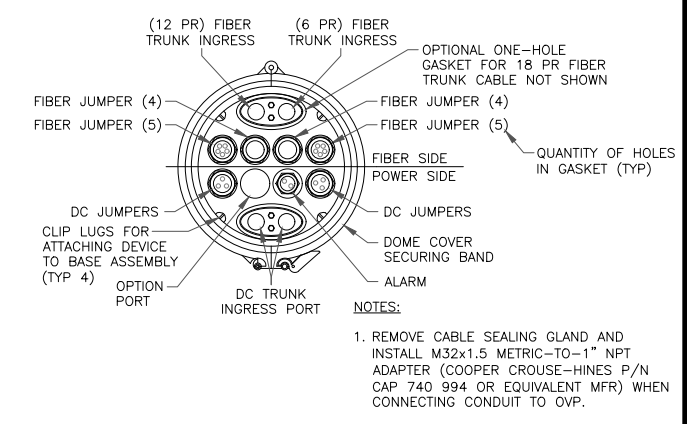
4 ANTENNA WITH RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:
 1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
 2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



5 ANTENNA WITH DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION



6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE

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RALEIGH, NC 27615

AT&T SITE NUMBER: 61163
 BU #: 806361
 NHV 102 943127
 131 MANOR ROAD
 GUILFORD, CT 06437
 EXISTING 150'-0" MONOPOLE

ISSUED FOR:

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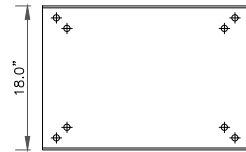
STATE OF CONNECTICUT
 FREDERIC BOST
 PEN 0029529
 LICENSED PROFESSIONAL ENGINEER
 3/11/2021

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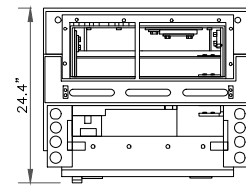
03/10/2021

SHEET NUMBER: C-4	REVISION: 0
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EMERSON NETSURE 721 DC POWER PLANT				
ITEM	WEIGHT/UNIT (LBS)	QTY	TOTAL WEIGHT (LBS)	
EMPTY RACK	500	1	500	
Rack+Rectifiers & Converters only	605.6	1	605.6	
Marathon M12V155FT Battery	119	0	0	
Marathon M12V180FT Battery	133	8	1064	
		TOTAL=	1669.6	LBS



BOTTOM



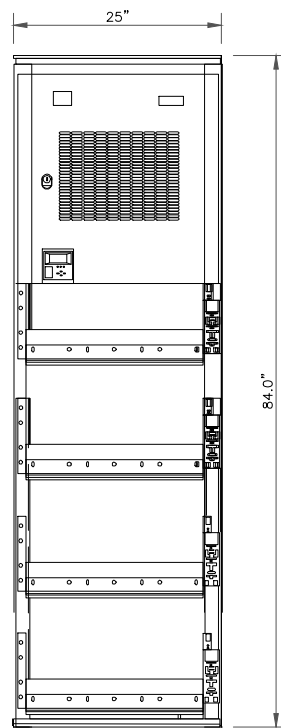
PLAN VIEW

EQUIPMENT SPECIFICATIONS
 MANUFACTURER: EMERSON/VERTIV
 ATTM NUMBER: NEQ.17139
 EMERSON NUMBER: 582127000Z011

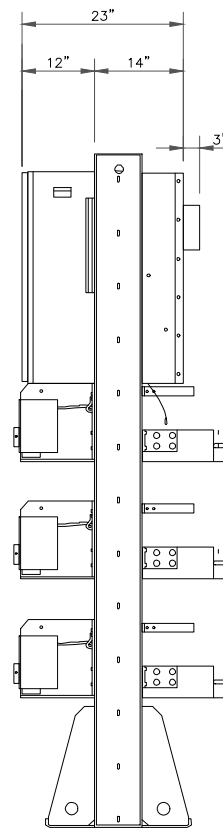
HEIGHT: 84.0 IN
 WIDTH: 25 IN
 DEPTH: 23 IN

WEIGHT: SEE TABLE ABOVE

SAFETY COMPLIANCE: UL LISTED AND SEISMIC ZONE 4 COMPLIANT



FRONT



SIDE

7 EMERSON POWER PLANT
 SCALE: NOT TO SCALE

8 NOT USED
 SCALE: NOT TO SCALE

10 NOT USED
 SCALE: NOT TO SCALE

9 NOT USED
 SCALE: NOT TO SCALE

11 NOT USED
 SCALE: NOT TO SCALE



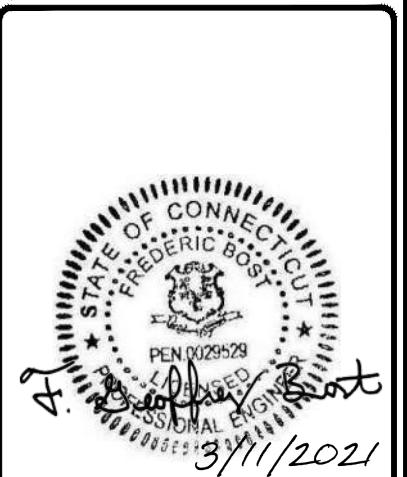
AT&T SITE NUMBER: 61163

BU #: 806361
 NHV 102 943127

131 MANOR ROAD
 GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

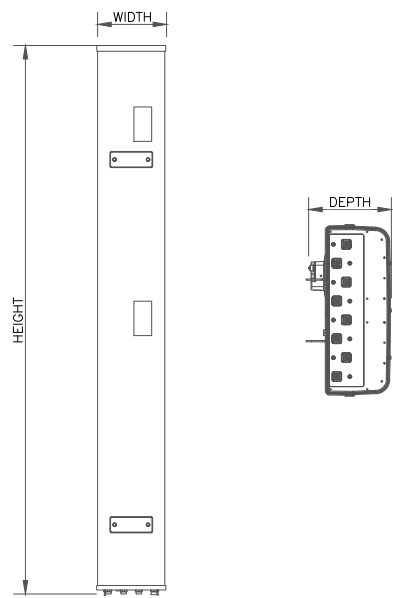
ISSUED FOR:				
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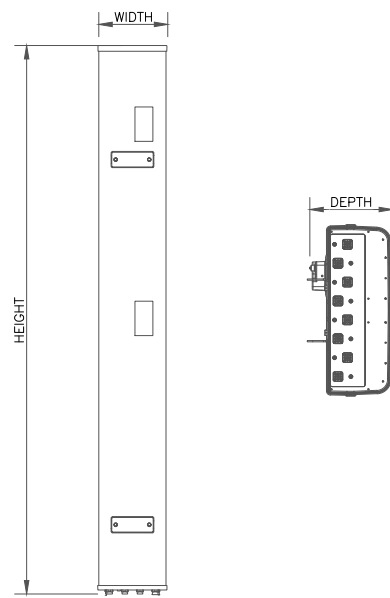
SHEET NUMBER: **C-5** REVISION: **0**

HEIGHT	WIDTH	DEPTH	WEIGHT
71.20"	21.00"	7.80"	63.50 LBS



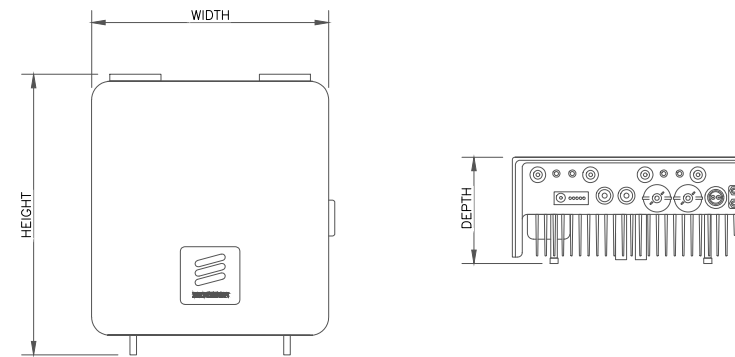
1 CCI - OPA65-BU6DA
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
71.20"	20.70"	7.70"	89.30 LBS



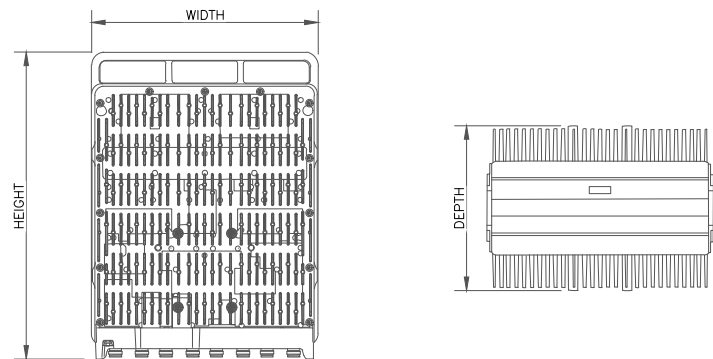
2 CCI - DMP65R-BU6D
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
16.50"	13.20"	7.70"	59.90 LBS



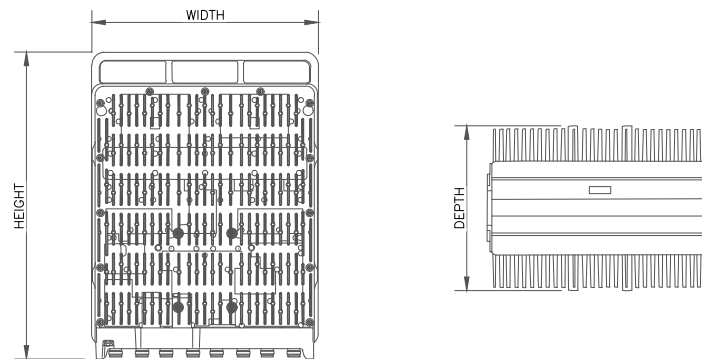
3 RADIO DETAIL: ERICSSON - 4478 B14
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
14.90"	13.20"	10.90"	72.00 LBS



4 RADIO DETAIL: ERICSSON - 8843 B2/B66A
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
17.90"	13.19"	9.44"	71.00 LBS



5 RADIO DETAIL: ERICSSON - 4449 B5/B12
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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EXISTING 150'-0" MONOPOLE

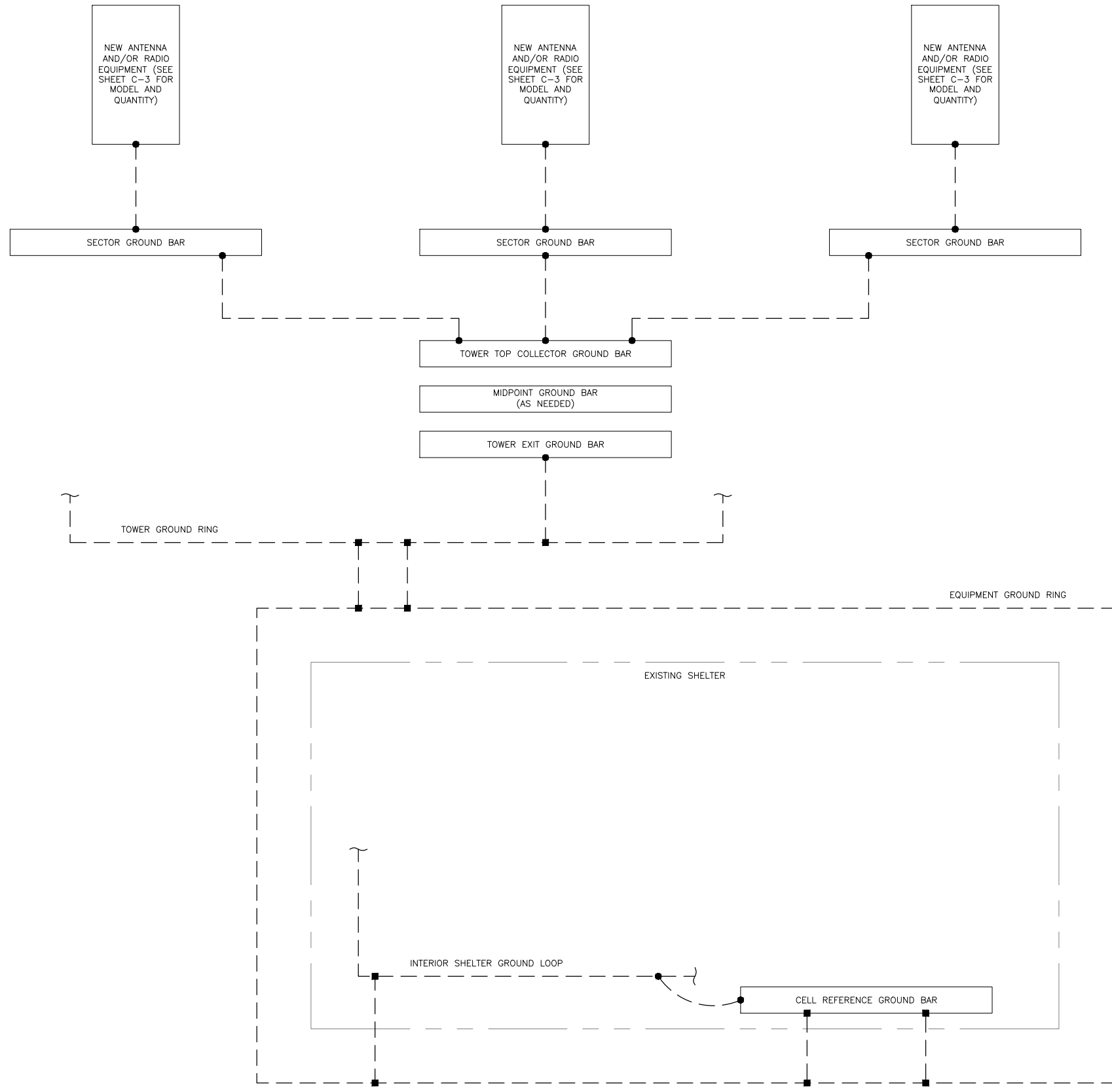
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
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03/10/2021

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SHEET NUMBER: C-6	REVISION: 0
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GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- ⊗ GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

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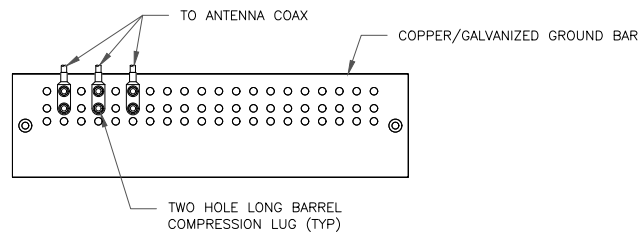
REV	DATE	DRWN	DESCRIPTION	DES/QA
0	05/10/2021	AM	CONSTRUCTION	AS

03/10/2021

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1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

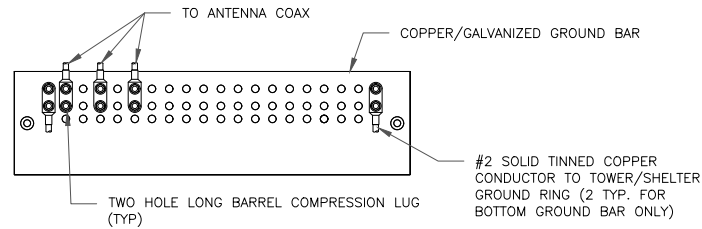
SHEET NUMBER: **G-1** REVISION: **0**



NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

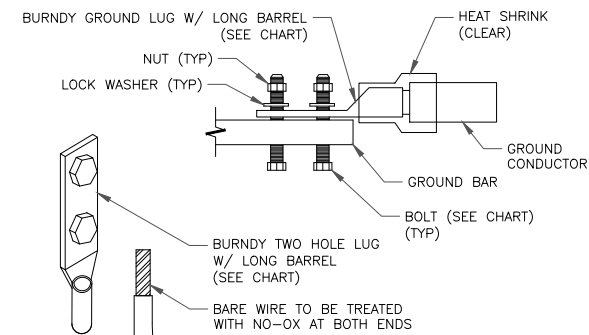


NOTES:

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

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

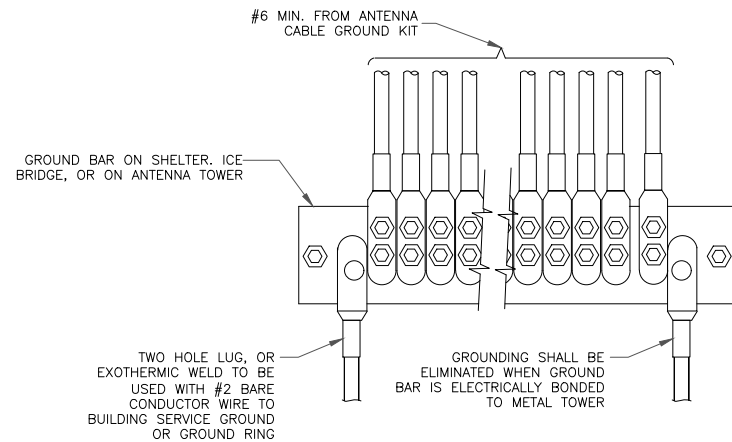
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



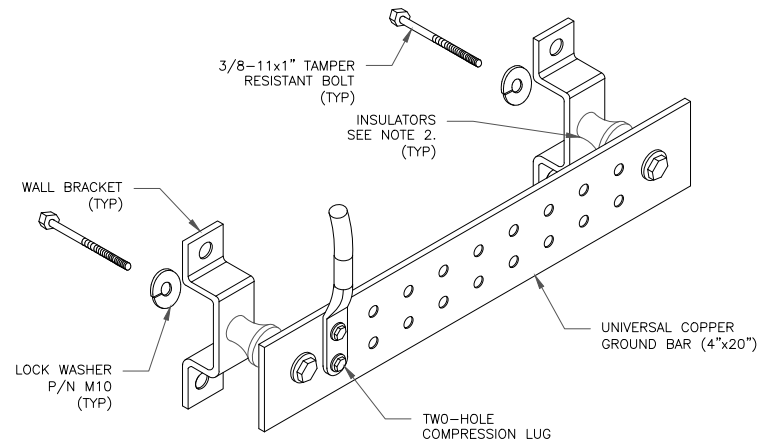
NOTE:

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

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



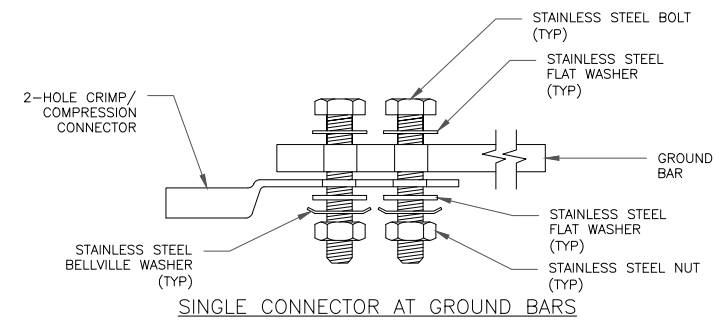
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



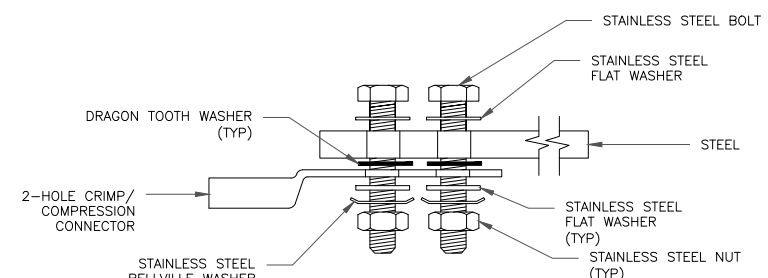
NOTES:

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

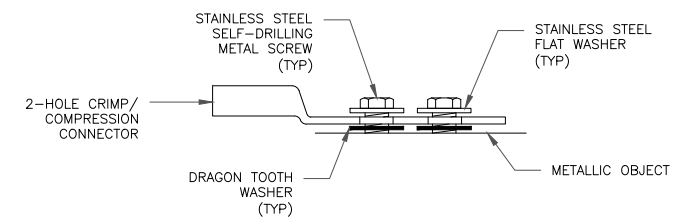
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



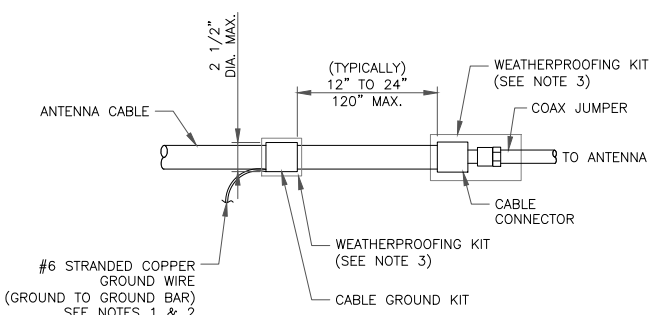
SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



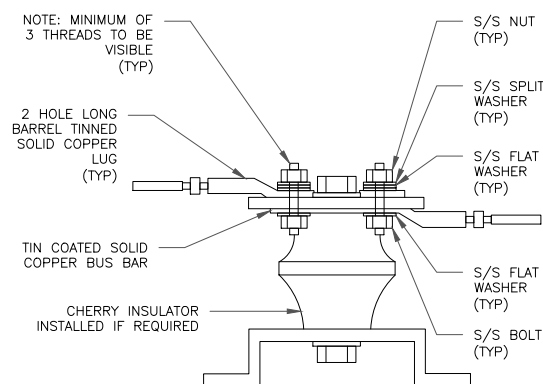
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS



NOTES:

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

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



AT&T SITE NUMBER: 61163

BU #: 806361
NHV 102 943127

131 MANOR ROAD
GUILFORD, CT 06437

EXISTING 150'-0" MONOPOLE

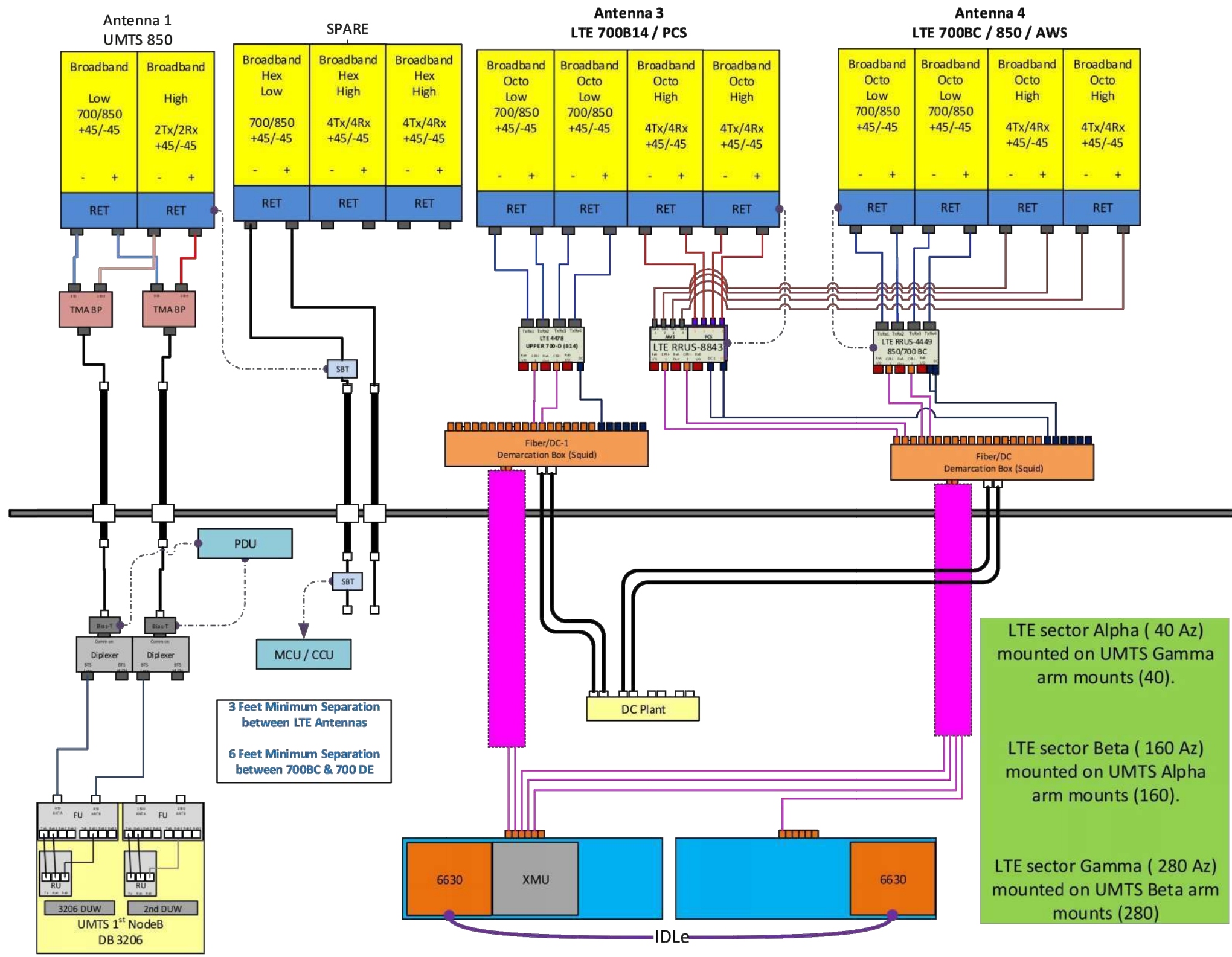
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	03/10/2021	AM	CONSTRUCTION	AS



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: **G-2** REVISION: **0**



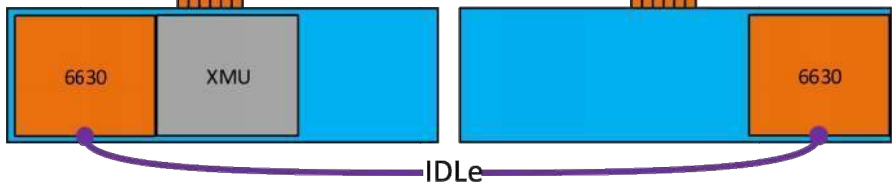
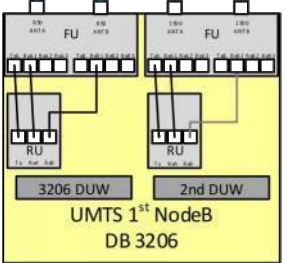
LTE sector Alpha (40 Az)
 mounted on UMTS Gamma
 arm mounts (40).

LTE sector Beta (160 Az)
 mounted on UMTS Alpha
 arm mounts (160).

LTE sector Gamma (280 Az)
 mounted on UMTS Beta
 arm mounts (280)

3 Feet Minimum Separation
 between LTE Antennas

6 Feet Minimum Separation
 between 700BC & 700 DE





SITE:
806361 NHV 102 943127 (10035042)

MODIFICATION DRAWING FOR AN EXISTING 13.5' PLATFORM W/ SUPPORT RAILS AT 138' ON A 150' MONOPOLE TOWER

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
POD
 POWER OF DESIGN
 1033 E. TURKEYFOOT LAKE RD.
 SUITE 206 AKRON, OHIO 44312
 330-961-7432

CARRIER:
AT&T

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MODIFICATION DRAWING

10/13/2020

Jason Cheronis
 REV. DATE DESCRIPTION

REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127 (10035042)
 131 MANOR RD.
 GUILFORD, CT 06437

SITE NUMBER:
806361

POD NUMBER: 20-70444
 DRAWN BY: TAJ
 CHECKED BY: JGC
 DATE: 10/13/2020

SHEET TITLE:
TITLE SHEET

T-01

SHEET INDEX	
T-01	TITLE SHEET
N-01	NOTES
S-01	PLAN VIEW
S-02	ELEVATION VIEW
MI-01	MODIFICATION CHECKLIST

PROJECT INFORMATION	
COUNTY:	NEW HAVEN
SITE ADDRESS:	131 MANOR RD. GUILFORD, CT 06437
LATITUDE:	41° 19' 48.09"
LONGITUDE:	-72° 43' 18.51"

SCOPE OF WORK:
MOUNT MODIFICATION DRAWINGS INCLUDES: INSTALL PROPOSED SUPPORT RAILS, CORNER BRACES, STABILIZER KITS, & MOUNT PIPES.

GENERAL NOTES

- THE MODIFICATIONS REPRESENTED IN THESE DRAWINGS ARE BASED ON THE STRUCTURAL DOCUMENTS PROVIDED IN THE STRUCTURAL DOCUMENTS TABLE. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.
- ALL MODIFICATIONS MUST BE INSTALLED TO BRING THE TOWER INTO CONFORMANCE WITH ALL APPLICABLE CODES.

GOVERNING CODES	TIA-222-H
ULTIMATE WIND SPEED	122 MPH 3 SECOND GUST
RADIAL ICE THICKNESS	1"
WIND SPEED W/ ICE	50 MPH 3 SECOND GUST
STRUCTURE CLASS	II
EXPOSURE CATEGORY	C
TOPOGRAPHIC CATEGORY	1
SPECTRAL RESPONSE ACCELERATIONS	SS= 0.206 & S1= 0.054
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE OR APPROVED BY THE EOR. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE PERFORMING WORK SIMILAR TO THAT DESCRIBED WITHIN THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO PERFORM THE WORK IN THE PROJECT JURISDICTION.
- WORK SHALL ONLY BE PERFORMED DURING CALM, DRY DAYS (WINDS LESS THAN 10XMPH). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTALLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
- THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBER, LOOSE BOLTS, CRACKED WELDS, AND OTHER STRUCTURAL DEFECTS HAVE NOT BEEN CONSIDERED UNLESS SPECIFICALLY NOTED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED LEVEL. THE OWNER AND/OR EOR SHALL BE NOTIFIED IMMEDIATELY IF ANY VARIANCES ARE FOUND.
- THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY, LEASE AREA OR APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS PERFORMED WITHIN THESE BOUNDARIES. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAIN AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK PERFORMED COMPLIES WITH ALL APPLICATION SAFETY CODES AND GOVERNING REGULATIONS.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULES AND MATERIAL DELIVERIES, WITH THE OWNER/RESIDENT LEASING AGENT FOR APPROVAL.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDED BUT NOT LIMITED TO ALTERED SIZED AND/OR STRENGTHS, MUST BE APPROVED BY THE EOR.
- UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
- ALL DIMENSIONS AND QUANTITIES LISTED WITHIN THESE DRAWINGS ARE INTENDED TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE EOR.
- THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING COAX, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCE THAT MAY INTERFERE WITH THE INSTALLATION OF THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACE AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOM MOUNTS OR ATTACHMENTS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE OWNER/EOR PRIOR TO REMOVAL. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER IN WRITING.
- DO NOT SCALE DRAWINGS.

REFERENCE DOCUMENTS

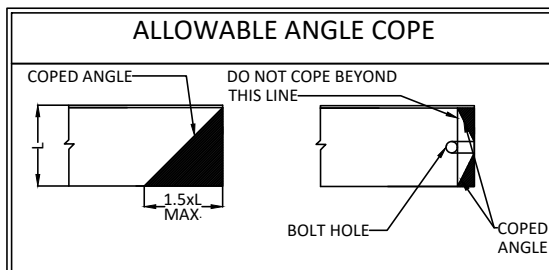
DOCUMENT TYPE	DESIGNATION
MOUNT ANALYSIS	POD PROJECT NUMBER: 20-70234 DATED: 10/02/2020

STRUCTURAL STEEL NOTES

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

MATERIAL SPECIFICATIONS	
ANGLES	ASTM A36 (36 KSI YIELD STRENGTH)
PIPES	ASTM A53 GR.B (35 KSI YIELD STRENGTH)
BOLTS	ASTM A325N
NUTS	ASTM A563
WASHER	ASTM F436
PLATE	ASTM A36 (36 KSI YIELD STRENGTH)
U-BOLTS	ASTM A307

- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
- CAULKING SHALL BE PROVIDED AROUND PERIMETER OF ANY AND ALL MODIFICATION MEMBERS TO ENSURE COMPLETE SEAL BETWEEN EXISTING STRUCTURE AND REINFORCING MEMBERS IN FULL CONTACT WITH EXISTING STEEL. SEALANT IS TO BE EXTERIOR GRADE, PAINTABLE SILICONE CAULKING AS MANUFACTURED BY DOW AND ACCEPTABLE TO EOR.
- Holes SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE EOR.
- ALL EXPOSED STEEL SHALL BE HOTXDIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOTXDIPPED GALVANIZING IS NOT PERMITTED DACROMET F1136 GRADE 3 COATING SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR STEEL PROTECTION BY ANY OTHER MEANS.
- REPAIR DAMAGED PAINTED/GALVANIZED SURFACES WITH TWO COATS OF BRUSH OR ROLL ON ZRC COLD GALVANIZING COMPOUND OR EOR APPROVED COATING. SURFACES MUST BE WIRE BRUSHED AND SOLVENT CLEANED PRIOR TO APPLICATION OF GALVANIZING COMPOUND.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES (LOCKING NUT/PAL NUT) TO BE INSTALLED IN ACCORDANCE WITH TIA/EIAX222 REQUIREMENTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.



- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

BOLT SCHEDULE				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/16	1-1/16x1-5/16	1-3/4	3

The diagram shows the spacing and edge distance for bolt holes. Labels include 'SPACING' and 'EDGE DISTANCE'.

WORKABLE GAGES			
LEG	2-1/2	----	----
G	1-3/8	----	----

The diagram shows a workable gage. Labels include 'DIMENSIONS GIVEN IN INCHES.' and 'MATCH EXISTING WHEN APPLICABLE.'

PLANS PREPARED FOR:

PLANS PREPARED BY:

POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

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MODIFICATION DRAWING

10/13/2020

REV. DATE DESCRIPTION

SITE INFORMATION:
NHV 102 943127
(10035042)

131 MANOR RD.
GUILDFORD, CT 06437

SITE NUMBER:
806361

POD NUMBER: 20-70444

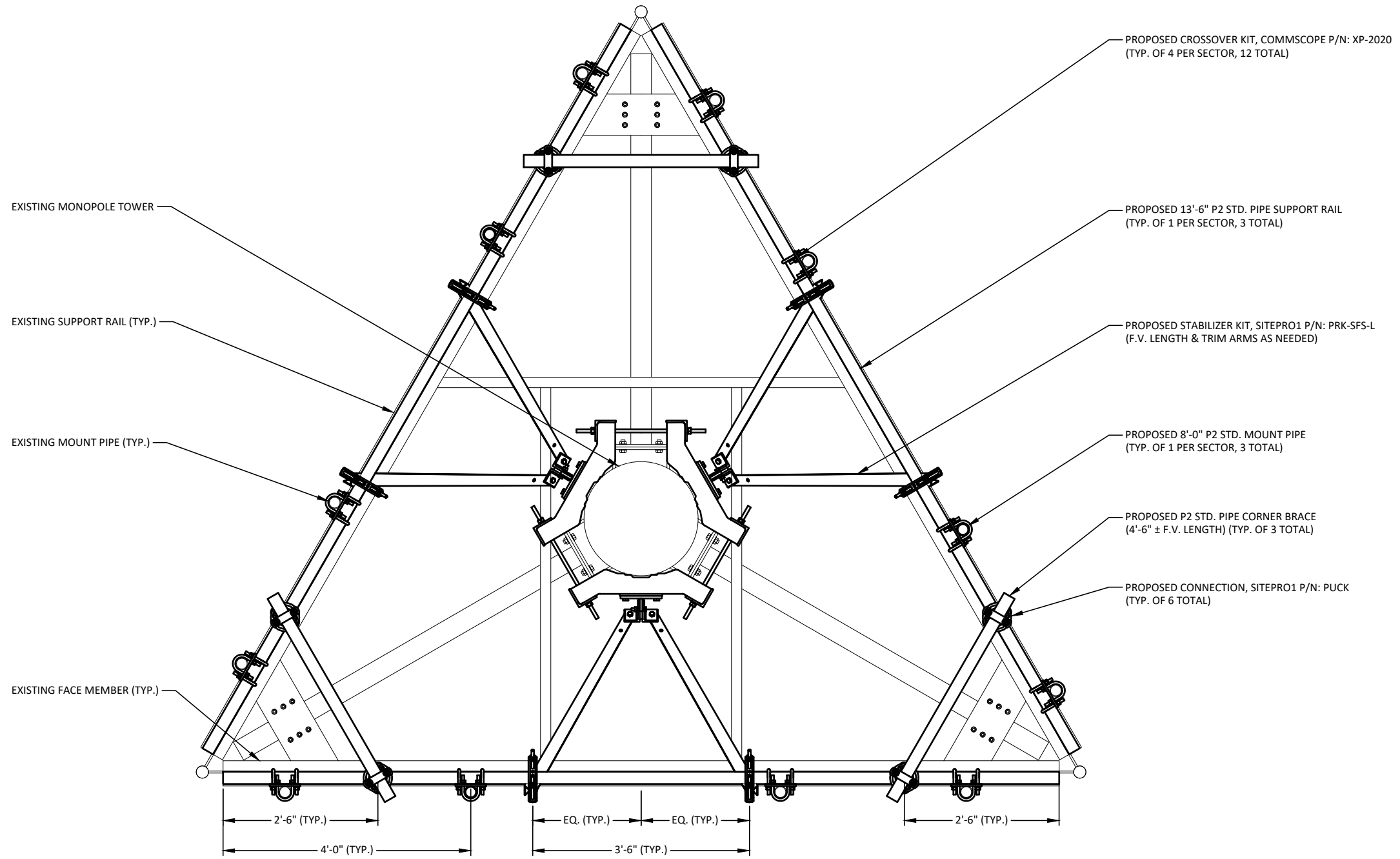
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:
NOTES

N-01

NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



PLAN VIEW
1/2" = 1'-0"

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

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MODIFICATION DRAWING

10/13/2020

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED PROFESSIONAL ENGINEER

REV.	DATE	DESCRIPTION

REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127
(10035042)

131 MANOR RD.
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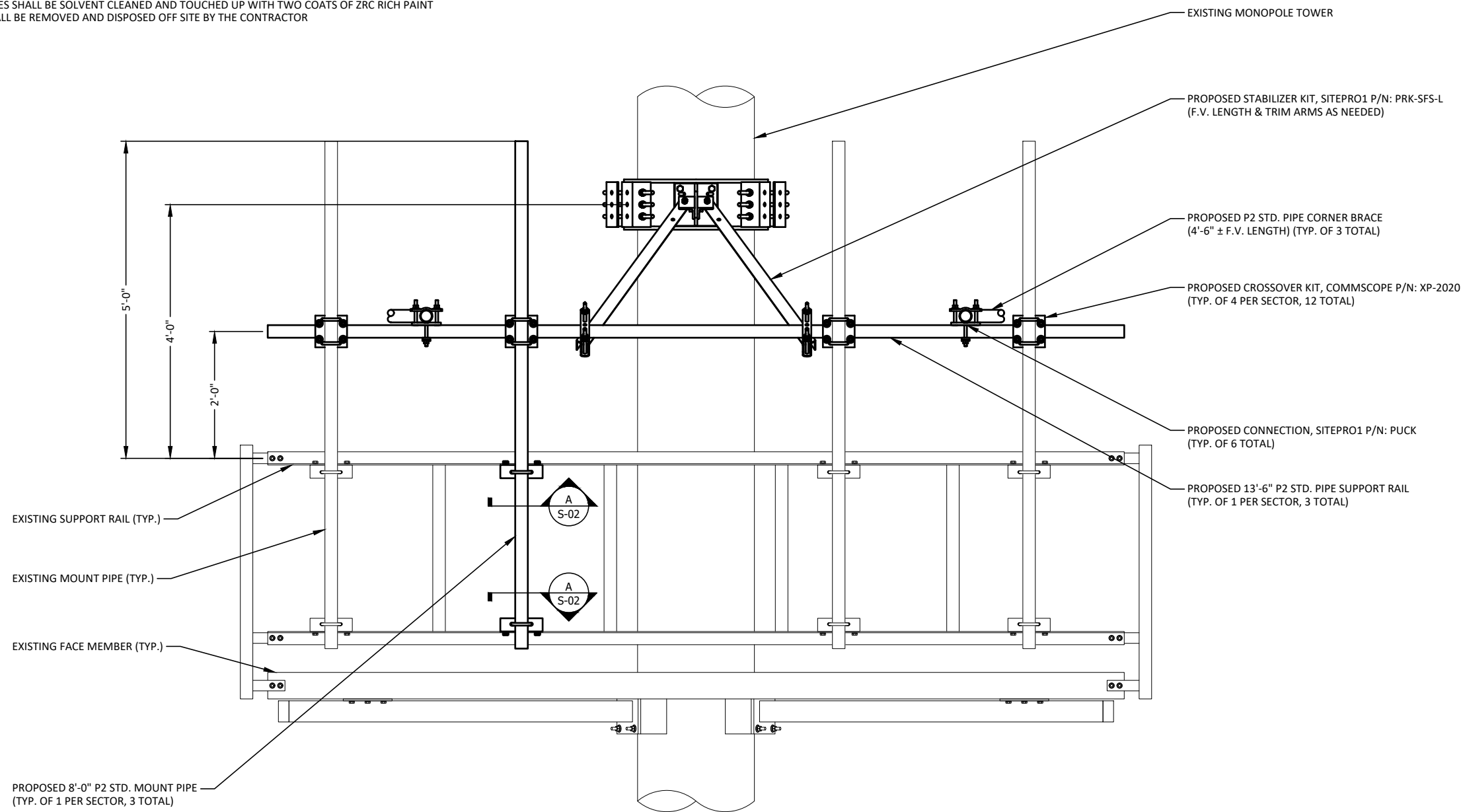
POD NUMBER: 20-70444
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:
PLAN VIEW

S-01

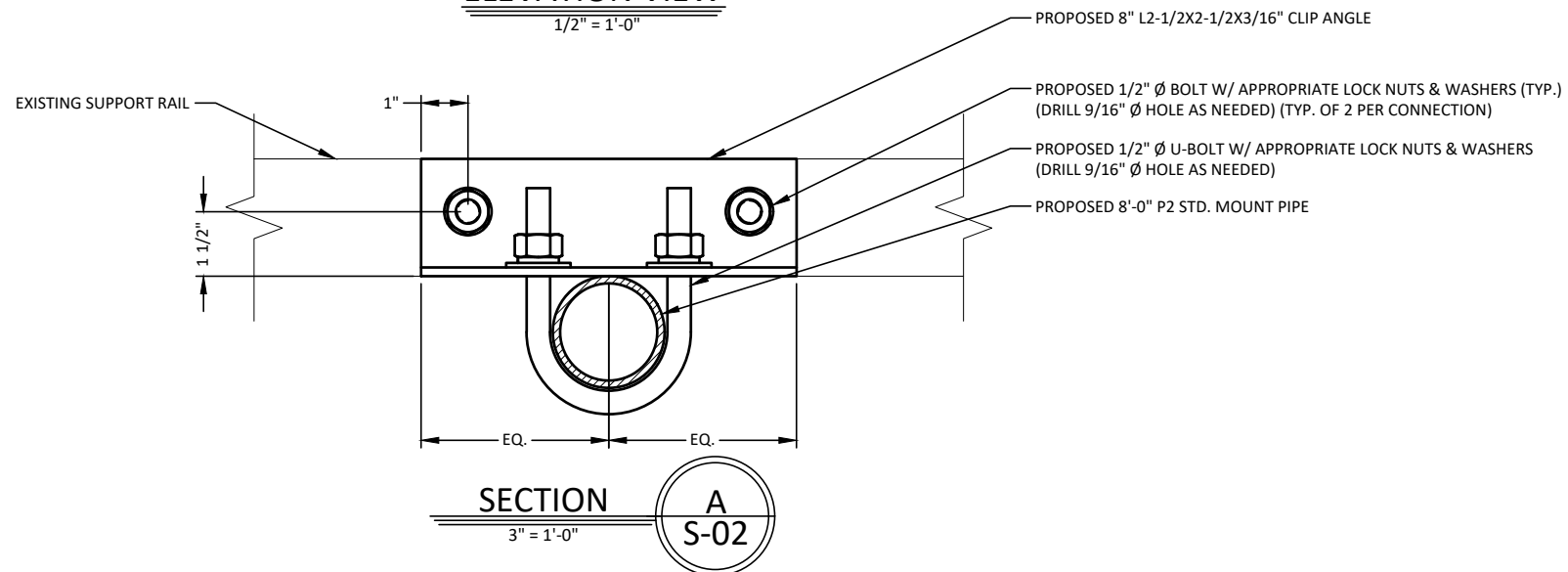
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- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



ELEVATION VIEW

1/2" = 1'-0"



SECTION

3" = 1'-0"



PLANS PREPARED FOR:



PLANS PREPARED BY:



1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:



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MODIFICATION DRAWING

10/13/2020



REV.	DATE	DESCRIPTION

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SITE NUMBER:

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POD NUMBER: 20-70444

DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:

ELEVATION VIEW

S-02

MODIFICATION INSPECTION CHECKLIST					
BEFORE CONSTRUCTION		DURING CONSTRUCTION		AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
X	MODIFICATION INSPECTION CHECKLIST DWG	X	CONSTRUCTION INSPECTION	X	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWING(S)
-	ENGINEER OF RECORD APPROVED SHOP DRAWINGS	-	FOUNDATION INSPECTION	-	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
-	FABRICATION INSPECTION	-	CONCRETE COMP. STRENGTH AND SLUMP TEST	X	PHOTOGRAPHS
X	MATERIAL TEST REPORT	-	POST INSTALLED ANCHOR ROD VERIFICATION	ADDITIONAL TESTING AND INSPECTION	
-	FABRICATOR NDE INSPECTION	-	BASE PLATE GROUT VERIFICATION		
-	NDE REPORT OF MONOPOLE BASEPLATE (AS REQUIRED)	-	THIRD PARTY CERTIFIED WELD INSPECTION		
X	PACKING SLIP	-	EARTHWORK LIFT AND DENSITY (REPORT REQUIRED)		
ADDITIONAL TESTING AND INSPECTION		X	ON SITE COLD GALVANIZING VERIFICATION		
		-	GUY WIRE TENSION REPORT		
		X	GC AS-BUILT DOCUMENTS		
		ADDITIONAL TESTING AND INSPECTION			

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD.
2. THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AN IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MODIFICATION INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.
3. TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

1. THE MODIFICATION INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSPECTION TO:
 - REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
 - DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS
2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS. REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INXFIELD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

1. THE GC IS REQUIRED TO CONTACT THE MODIFICATION INSPECTOR AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
 - WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
 - BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

1. IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, TO THE MODIFICATION INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR HE MODIFICATION INSPECTION TO BE CONDUCTED.
- THE GC AND MODIFICATION INSPECTION COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
 - WHEN POSSIBLE IT IS PREFERRED TO HAVE THE MODIFICATION INSPECTOR AND GC ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR REXTENSIONING OPERATIONS.
 - IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTION TO ALLOW FOUNDATION AND MODIFICATION INSPECTION(S) DONE IN ONE SITE VISIT.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MODIFICATION INSPECTOR ON-SITE DURING THE MODIFICATION INSPECTION. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MODIFICATION INSPECTION CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

1. IF THE GC AND MODIFICATION INSPECTOR AGREE TO A DATE ON WHICH THE MODIFICATION INSPECTION WILL BE CONDUCTED, AND EITHER ARTY CANCELS OR DELAYS, THE TOWER OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OR DEPOSITS AND/OR OTHER PENALTIES RELATE TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME. EXCEPTIONS MAY BE MADE IN THE DELAY/ CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING MODIFICATION INSPECTION:

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION

INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH MODIFICATION INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION. OR, WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO REXANALYZE THE MODIFICATION/REINFORCEMENT USING AS-BUILT CONDITION.

VERIFICATION INSPECTIONS:

1. TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTION(S) ON TOWER MODIFICATION PRODUCTS.
2. VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

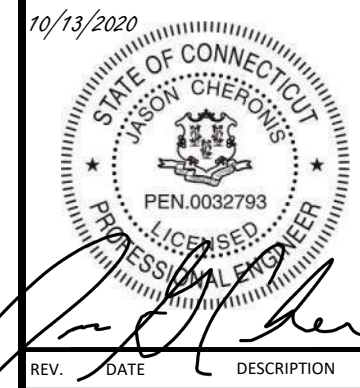
REQUIRED PHOTOS:

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:
 - PREXCONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - FOUNDATION MODIFICATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONDITION PHOTOGRAPHS
- FINAL INFIELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DENTALS OF MODIFICATIONS
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



DRAWING NOTICE:
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MODIFICATION DRAWING



REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127 (10035042)
131 MANOR RD.
GUILFORD, CT 06437

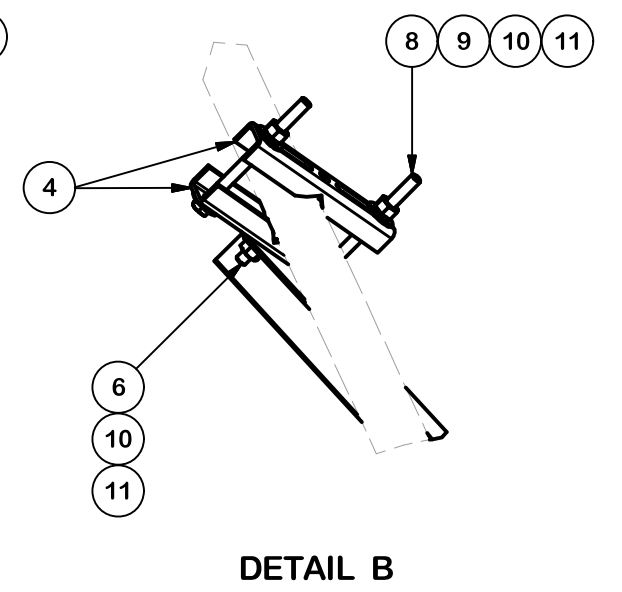
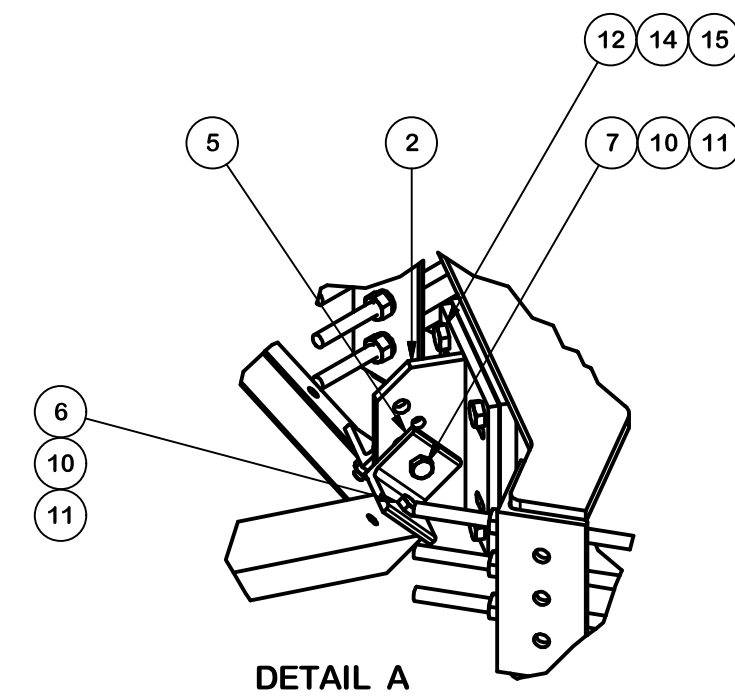
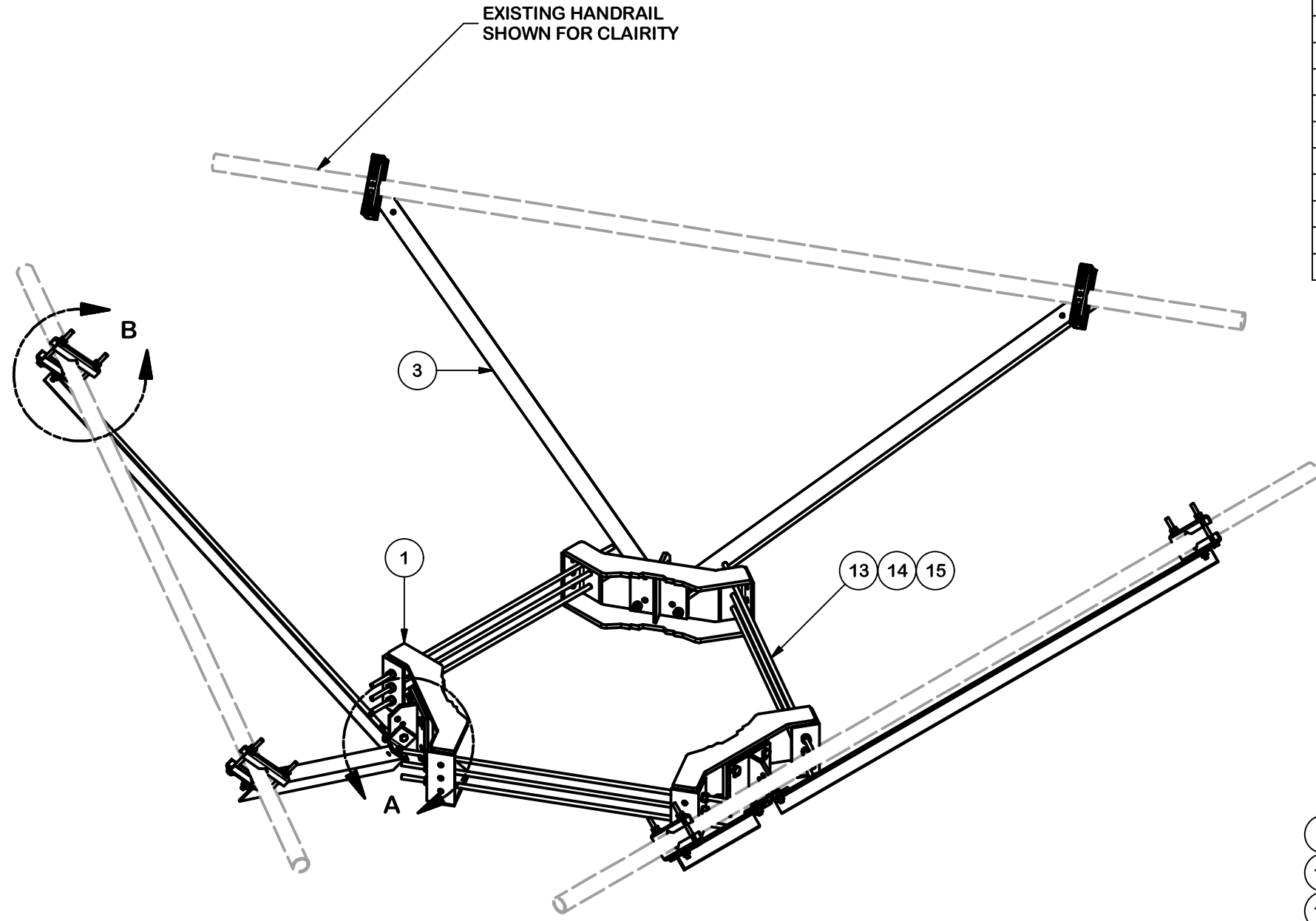
SITE NUMBER:
806361

POD NUMBER: 20-70444
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:
MODIFICATION CHECKLIST

MI-01

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	X-254924	DIAGONAL ANGLE - SITE PRO 1	72 in	19.71	118.24
4	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
5	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
					TOTAL WT. #	642.04



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/25/2017

REVISION HISTORY

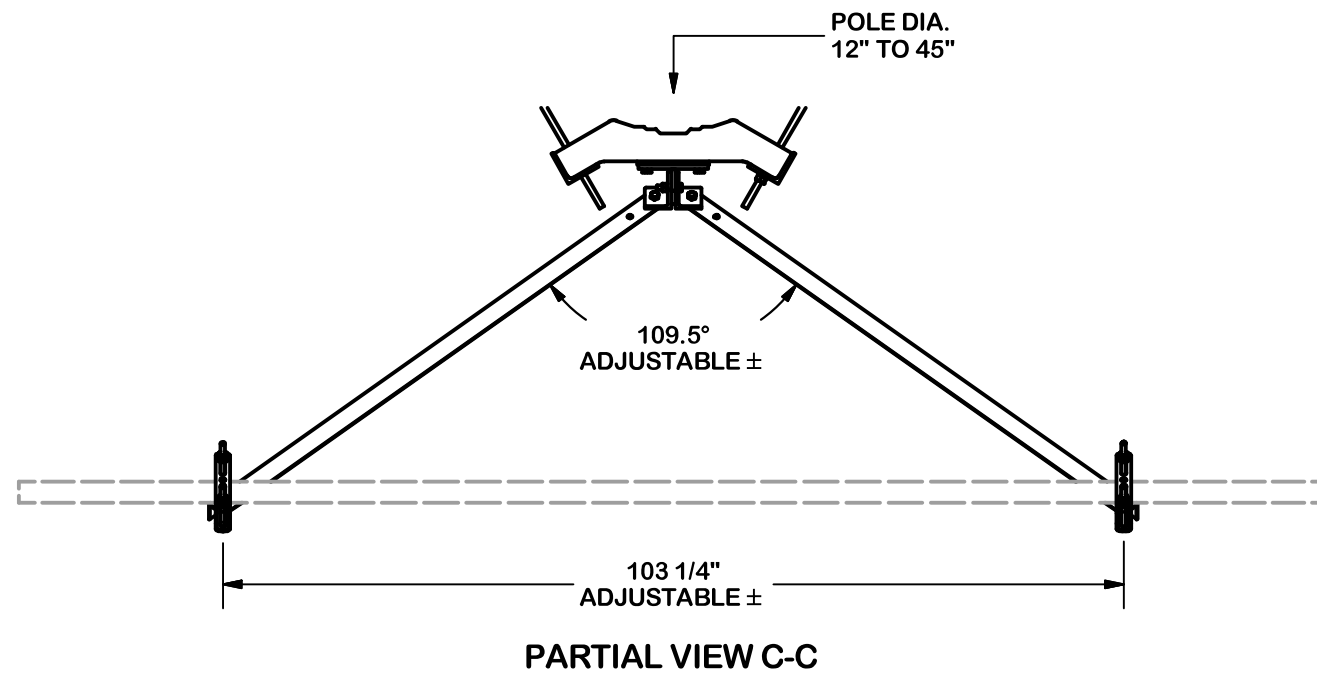
TOLERANCE NOTES

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

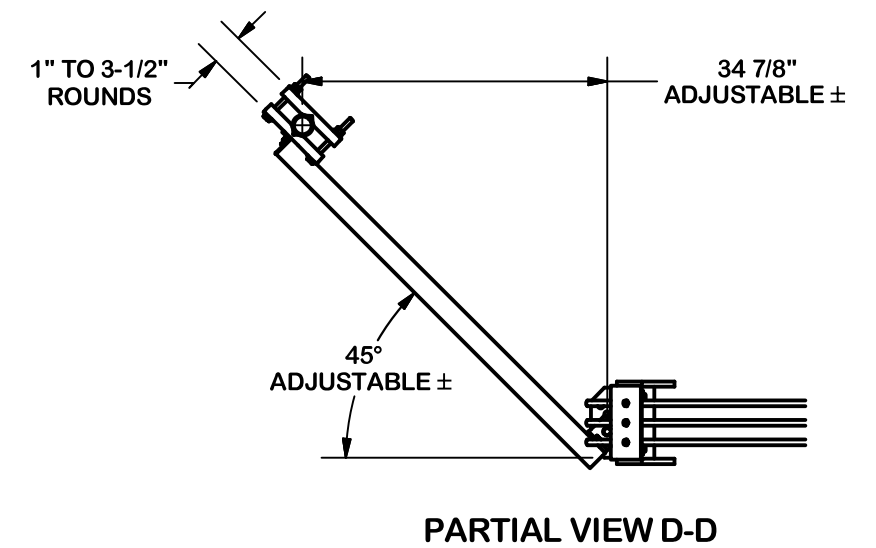
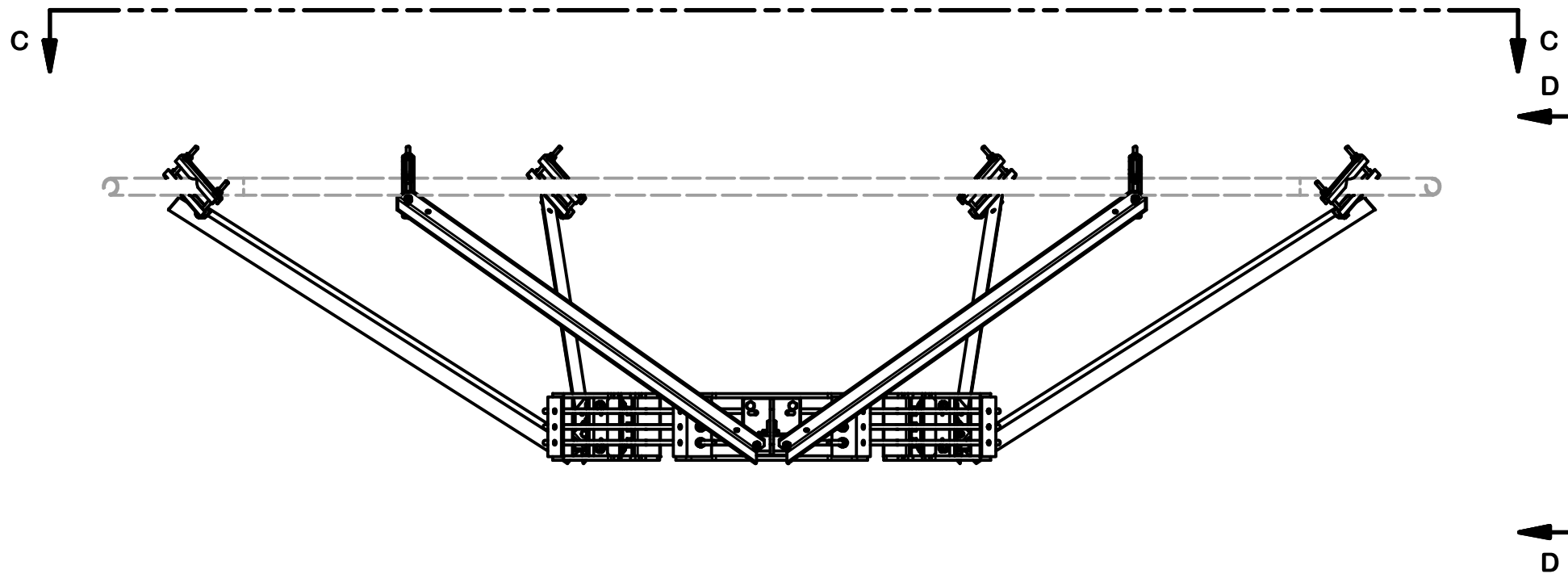
PROPRIETARY NOTE:
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DESCRIPTION			
HANDRAIL REINFORCEMENT KIT (LONG)			
CPD NO.	DRAWN BY	ENG. APPROVAL	
SP1	CSL3 2/23/2017	3RD PARTY	
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	SHOP	BMC 9/8/2017

 A valmont COMPANY	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	PART NO. PRK-SFS-L	
DWG. NO. PRK-SFS-L		1 OF 3 <small>PAGE</small>



VERTICAL POSITION



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/25/2017
REVISION HISTORY				

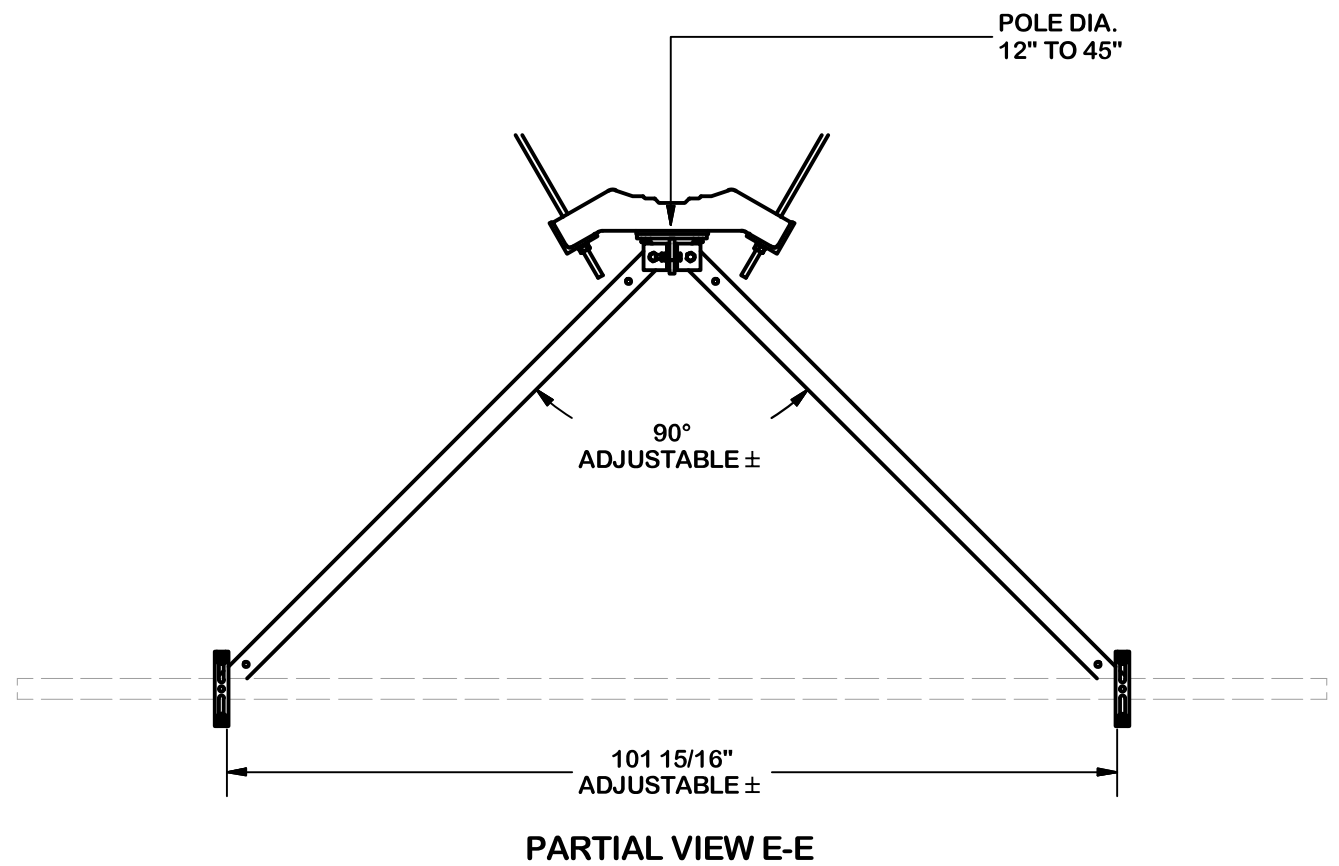
TOLERANCE NOTES

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

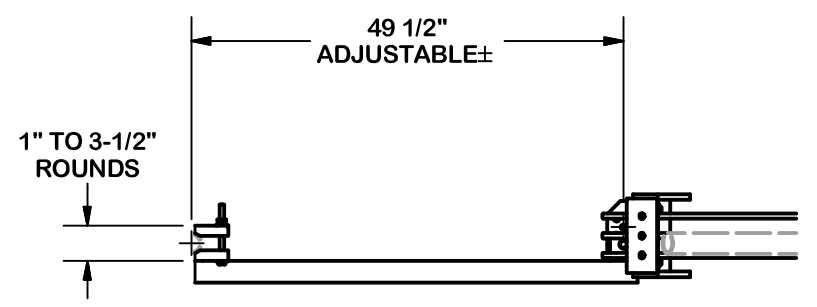
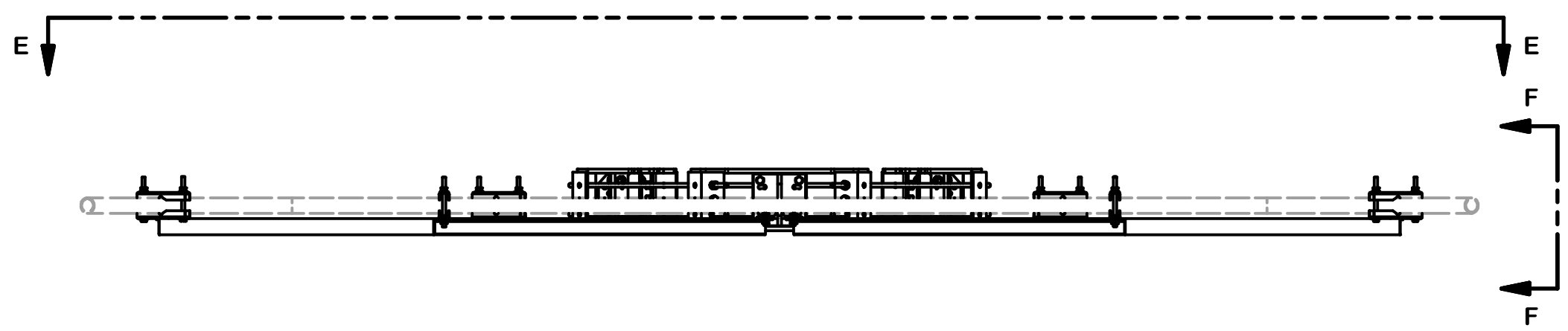
PROPRIETARY NOTE:
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DESCRIPTION			
HANDRAIL REINFORCEMENT KIT (LONG)			
CPD NO.	DRAWN BY	ENG. APPROVAL	
SP1	CSL3 2/23/2017	3RD PARTY	
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	SHOP	BMC 9/8/2017

 A valmont COMPANY	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	PART NO.	PRK-SFS-L
DWG. NO.	PRK-SFS-L	PAGE 2 OF 3



HORIZONTAL POSITION



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/25/2017
REVISION HISTORY				

TOLERANCE NOTES

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

PROPRIETARY NOTE:
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DESCRIPTION			
HANDRAIL REINFORCEMENT KIT (LONG)			
CPD NO.	DRAWN BY	ENG. APPROVAL	
SP1	CSL3 2/23/2017	3RD PARTY	
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	SHOP	BMC 9/8/2017


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	PART NO.	PRK-SFS-L
DWG. NO.	PRK-SFS-L	

Exhibit D

Date: **February 08, 2021**



Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: 61163
Site Name: CTV2030
FA Number: 470022

Crown Castle Designation: **BU Number:** 806361
Site Name: NHV 102 943127
JDE Job Number: 617828
Work Order Number: 1921184
Order Number: 527516 Rev. 0

Engineering Firm Designation: **Crown Castle Project Number:** 1921184

Site Data: **131 Manor Rd, Guilford, New Haven County, CT**
Latitude 41° 19' 48.09", Longitude -72° 43' 18.51"
150 Foot - Monopole Tower

Crown Castle 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 - 98.9%**

This analysis has been performed in accordance with the 2018 International 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: Randall Ashworth, EIT

Respectfully submitted by:

A handwritten signature in blue ink that reads 'Maribel Dentinger'.

Maribel Dentinger, P.E.
Senior Project Engineer

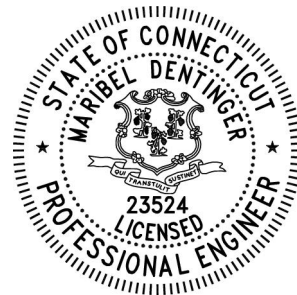


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1) INTRODUCTION

This tower is a 150 ft Monopole tower designed by Valmont.

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

2) ANALYSIS CRITERIA

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

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	
138.0	142.0	3	cci antennas	DMP65R-BU6D w/ Mount Pipe	12	1-1/4	
		3	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe			
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe			
		3	ericsson	RRUS 4449 B5/B12			
		3	ericsson	RRUS 4478 B14			
		3	ericsson	RRUS 8843 B2/B66A			
		3	powerwave technologies	1001940			
		3	powerwave technologies	7770.00 w/ Mount Pipe			
		6	powerwave technologies	LGP21401			
	2	raycap	DC6-48-60-18-8F	2	3/8		
	138.0	138.0	6	site pro	PUCK	2	3/4
			1	site pro	PRK-SFS-L	2	7/8
			3	tower mounts	P2 STD 13.5'		
			3	tower mounts	P2 STD 4'		
			1	tower mounts	Platform Mount (LP 101-1)		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
150.0	150.0	3	alcatel lucent	B4 RRH2X60-4R	12	1/2
		3	alcatel lucent	RRH2X60-AWS		
		3	antel	BXA-70063-6CF-2 w/ Mount Pipe		
		6	antel	LPA-80063/6CFX5 w/ Mount Pipe		
		6	commscope	HBXX-6517DS-A2M w/ Mount Pipe		
					1	7/8
					1	1-5/8

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
	147.0	1	rfs celwave	DB-T1-6Z-8AB-0Z		
		1	tower mounts	Platform Mount (LP 101-1_KCKR)		
		1	lucent	KS24019-L112A		
		6	rfs celwave	FD9R6004/2C-3L		
128.0	128.0	3	ericsson	KRY 112 144/1	9	1-5/8
		3	commscope	SDX1926Q-43		
		3	ericsson	AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe		
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	ericsson	RRUS 4415 B25_CCIV2		
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		1	site pro	RMQP-496-HK		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	780506	CCISITES
4-POST-MODIFICATION INSPECTION	2045675	CCISITES
4-POST-MODIFICATION INSPECTION	3099221	CCISITES
4-POST-MODIFICATION INSPECTION	3335575	CCISITES
4-POST-MODIFICATION INSPECTION	4037923	CCISITES
4-POST-MODIFICATION INSPECTION	5823375	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	217669	CCISITES
4-TOWER MANUFACTURER DRAWINGS	217668	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	1249600	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3002793	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3255562	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3840597	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5605781	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

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

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	150 - 145	Pole	TP16.937x16x0.1875	Pole	20.2%	Pass
L2	145 - 140	Pole	TP17.875x16.937x0.1875	Pole	37.1%	Pass
L3	140 - 135	Pole	TP18.812x17.875x0.1875	Pole	66.7%	Pass
L4	135 - 133	Pole	TP19.187x18.812x0.1875	Pole	76.8%	Pass
L5	133 - 132.75	Pole + Reinf.	TP19.234x19.187x0.45	Reinf. 20 Tension Rupture	54.0%	Pass
L6	132.75 - 127.75	Pole + Reinf.	TP20.171x19.234x0.4375	Reinf. 20 Tension Rupture	71.2%	Pass
L7	127.75 - 123.75	Pole + Reinf.	TP20.921x20.171x0.425	Reinf. 20 Tension Rupture	87.1%	Pass
L8	123.75 - 123.5	Pole + Reinf.	TP20.968x20.921x0.425	Reinf. 20 Tension Rupture	88.1%	Pass
L9	123.5 - 118.75	Pole + Reinf.	TP21.859x20.968x0.7625	Reinf. 20 Tension Rupture	59.9%	Pass
L10	118.75 - 118.5	Pole + Reinf.	TP21.906x21.859x1.0375	Reinf. 19 Tension Rupture	46.4%	Pass
L11	118.5 - 117	Pole + Reinf.	TP22.187x21.906x1.0125	Reinf. 19 Tension Rupture	48.8%	Pass
L12	117 - 116.75	Pole + Reinf.	TP22.234x22.187x0.75	Reinf. 18 Tension Rupture	64.0%	Pass
L13	116.75 - 111.75	Pole + Reinf.	TP23.171x22.234x0.7125	Reinf. 18 Tension Rupture	73.7%	Pass
L14	111.75 - 106.75	Pole + Reinf.	TP24.108x23.171x0.6875	Reinf. 18 Tension Rupture	82.6%	Pass
L15	106.75 - 101.75	Pole + Reinf.	TP25.046x24.108x0.6625	Reinf. 18 Tension Rupture	90.9%	Pass
L16	101.75 - 99.5	Pole + Reinf.	TP26.28x25.046x0.6625	Reinf. 18 Tension Rupture	94.5%	Pass
L17	99.5 - 94.5	Pole + Reinf.	TP26.031x25.093x0.7875	Reinf. 18 Tension Rupture	86.7%	Pass
L18	94.5 - 93.75	Pole + Reinf.	TP26.171x26.031x0.7875	Reinf. 18 Tension Rupture	87.6%	Pass
L19	93.75 - 93.5	Pole + Reinf.	TP26.218x26.171x0.9125	Reinf. 9 Tension Rupture	79.1%	Pass
L20	93.5 - 92.75	Pole + Reinf.	TP26.359x26.218x0.9125	Reinf. 9 Tension Rupture	79.9%	Pass
L21	92.75 - 92.5	Pole + Reinf.	TP26.406x26.359x1.1375	Reinf. 9 Tension Rupture	66.5%	Pass
L22	92.5 - 91.25	Pole + Reinf.	TP26.64x26.406x1.1125	Reinf. 9 Tension Rupture	67.6%	Pass
L23	91.25 - 91	Pole + Reinf.	TP26.687x26.64x1.1125	Reinf. 9 Tension Rupture	67.8%	Pass
L24	91 - 89.25	Pole + Reinf.	TP27.016x26.687x1.1125	Reinf. 9 Tension Rupture	69.3%	Pass
L25	89.25 - 89	Pole + Reinf.	TP27.063x27.016x1.2125	Reinf. 3 Connection	65.8%	Pass
L26	89 - 85.75	Pole + Reinf.	TP27.672x27.063x1.1875	Reinf. 9 Tension Rupture	65.8%	Pass
L27	85.75 - 85.5	Pole + Reinf.	TP27.719x27.672x0.8625	Reinf. 17 Tension Rupture	84.8%	Pass
L28	85.5 - 80.5	Pole + Reinf.	TP28.657x27.719x0.8375	Reinf. 17 Tension Rupture	89.2%	Pass
L29	80.5 - 75.5	Pole + Reinf.	TP29.595x28.657x0.8125	Reinf. 17 Tension Rupture	93.3%	Pass
L30	75.5 - 70.5	Pole + Reinf.	TP30.533x29.595x0.7875	Reinf. 17 Tension Rupture	97.1%	Pass
L31	70.5 - 68.08	Pole + Reinf.	TP30.987x30.533x0.7875	Reinf. 17 Tension Rupture	98.9%	Pass
L32	68.08 - 67.83	Pole + Reinf.	TP31.034x30.987x0.8375	Reinf. 16 Tension Rupture	84.8%	Pass
L33	67.83 - 67	Pole + Reinf.	TP31.19x31.034x0.8375	Reinf. 16 Tension Rupture	85.3%	Pass
L34	67 - 66.75	Pole + Reinf.	TP31.237x31.19x1.0625	Reinf. 6 Tension Rupture	68.7%	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L35	66.75 - 63.25	Pole + Reinf.	TP31.894x31.237x1.0375	Reinf. 6 Tension Rupture	70.5%	Pass
L36	63.25 - 63	Pole + Reinf.	TP31.94x31.894x1.2125	Reinf. 8 Tension Rupture	67.6%	Pass
L37	63 - 59.5	Pole + Reinf.	TP32.597x31.94x1.1875	Reinf. 8 Tension Rupture	69.3%	Pass
L38	59.5 - 59.25	Pole + Reinf.	TP32.644x32.597x1.2375	Reinf. 8 Tension Rupture	67.0%	Pass
L39	59.25 - 56.25	Pole + Reinf.	TP33.207x32.644x1.2125	Reinf. 8 Tension Rupture	68.4%	Pass
L40	56.25 - 56	Pole + Reinf.	TP33.254x33.207x1.0625	Reinf. 6 Tension Rupture	71.1%	Pass
L41	56 - 55.75	Pole + Reinf.	TP33.301x33.254x0.8375	Reinf. 16 Tension Rupture	87.3%	Pass
L42	55.75 - 50.75	Pole + Reinf.	TP34.239x33.301x0.825	Reinf. 16 Tension Rupture	89.8%	Pass
L43	50.75 - 50	Pole + Reinf.	TP35.38x34.239x0.8125	Reinf. 16 Tension Rupture	90.2%	Pass
L44	50 - 43.67	Pole + Reinf.	TP34.942x33.754x0.875	Reinf. 16 Tension Rupture	88.6%	Pass
L45	43.67 - 38.67	Pole + Reinf.	TP35.88x34.942x0.8625	Reinf. 16 Tension Rupture	90.5%	Pass
L46	38.67 - 34.5	Pole + Reinf.	TP36.661x35.88x0.85	Reinf. 16 Tension Rupture	92.0%	Pass
L47	34.5 - 34.25	Pole + Reinf.	TP36.708x36.661x1.1	Reinf. 16 Tension Rupture	72.2%	Pass
L48	34.25 - 33	Pole + Reinf.	TP36.942x36.708x1.1	Reinf. 16 Tension Rupture	72.6%	Pass
L49	33 - 32.75	Pole + Reinf.	TP36.989x36.942x1.1	Reinf. 15 Tension Rupture	72.7%	Pass
L50	32.75 - 29.75	Pole + Reinf.	TP37.552x36.989x1.075	Reinf. 15 Tension Rupture	73.6%	Pass
L51	29.75 - 29.5	Pole + Reinf.	TP37.598x37.552x1.125	Reinf. 15 Tension Rupture	71.3%	Pass
L52	29.5 - 25	Pole + Reinf.	TP38.442x37.598x1.1	Reinf. 15 Tension Rupture	72.6%	Pass
L53	25 - 24.75	Pole + Reinf.	TP38.489x38.442x0.8625	Reinf. 15 Tension Rupture	91.3%	Pass
L54	24.75 - 19.75	Pole + Reinf.	TP39.427x38.489x0.85	Reinf. 15 Tension Rupture	92.8%	Pass
L55	19.75 - 14.75	Pole + Reinf.	TP40.364x39.427x0.825	Reinf. 15 Tension Rupture	94.1%	Pass
L56	14.75 - 14.5	Pole + Reinf.	TP40.411x40.364x0.825	Reinf. 15 Tension Rupture	94.2%	Pass
L57	14.5 - 14.25	Pole + Reinf.	TP40.458x40.411x0.825	Reinf. 15 Tension Rupture	94.3%	Pass
L58	14.25 - 12.25	Pole + Reinf.	TP40.833x40.458x0.825	Reinf. 15 Tension Rupture	94.8%	Pass
L59	12.25 - 12	Pole + Reinf.	TP40.88x40.833x0.7875	Reinf. 14 Tension Rupture	95.7%	Pass
L60	12 - 11.5	Pole + Reinf.	TP40.974x40.88x0.7875	Reinf. 14 Tension Rupture	95.8%	Pass
L61	11.5 - 11.25	Pole + Reinf.	TP41.02x40.974x0.9	Reinf. 14 Tension Rupture	90.8%	Pass
L62	11.25 - 9.25	Pole + Reinf.	TP41.396x41.02x0.8875	Reinf. 14 Tension Rupture	91.3%	Pass
L63	9.25 - 9	Pole + Reinf.	TP41.442x41.396x0.85	Reinf. 13 Tension Rupture	92.1%	Pass
L64	9 - 4.5	Pole + Reinf.	TP42.286x41.442x0.825	Reinf. 13 Tension Rupture	93.1%	Pass
L65	4.5 - 4.25	Pole + Reinf.	TP42.333x42.286x0.85	Reinf. 1 Tension Rupture	86.2%	Pass
L66	4.25 - 3	Pole + Reinf.	TP42.567x42.333x0.85	Reinf. 1 Tension Rupture	86.5%	Pass
L67	3 - 2.75	Pole + Reinf.	TP42.614x42.567x0.8375	Reinf. 1 Tension Rupture	86.7%	Pass
L68	2.75 - 0	Pole + Reinf.	TP43.13x42.614x0.825	Reinf. 1 Tension Rupture	87.3%	Pass
					Summary	
				Pole	76.8%	Pass
				Reinforcement	98.9%	Pass
				Overall	98.9%	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Group 1 Anchor Rods	0	91.3	Pass
1	Group 2 Anchor Rods	0	93.6	Pass
1	Base Plate	0	73.5	Pass
1	Base Foundation (Structure)	0	75.2	Pass
1	Base Foundation (Soil Interaction)	0	24.4	Pass

Structure Rating (max from all components) =	98.9%
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Notes:

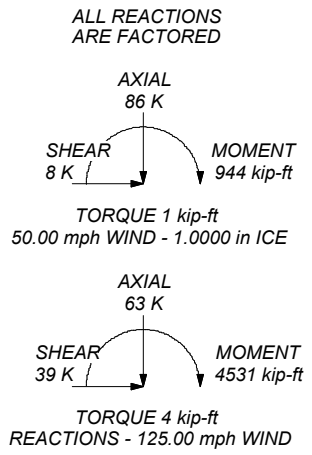
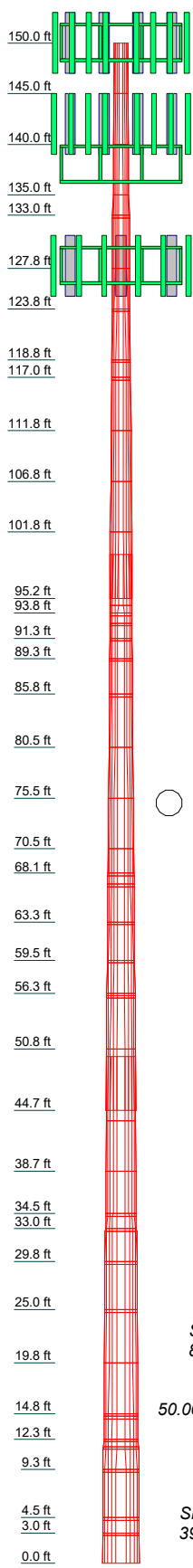
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
2	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
3	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
4	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
5	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
6	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
7	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
8	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
9	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
10	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
11	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
12	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
13	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
14	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
15	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
16	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
17	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
18	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
19	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
20	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
21	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
22	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
23	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
24	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
25	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
26	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
27	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
28	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
29	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
30	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
31	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
32	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
33	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
34	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
35	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
36	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
37	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
38	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
39	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
40	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
41	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
42	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
43	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
44	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
45	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
46	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
47	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
48	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
49	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
50	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
51	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
52	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
53	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
54	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
55	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
56	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
57	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
58	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
59	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
60	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
61	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
62	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
63	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
64	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875
65	5.0000	12	0.4375	4.3333	24.1084	23.1722	A572-65	0.1875



MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125.00 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60.00 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.0000 ft
8. TOWER RATING: 98.9%

CROWN CASTLE
The Pathway to Possible

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
Phone: (724) 416-2000
FAX:

Job: **BU 806361**

Project:

Client: Crown Castle	Drawn by: Rashworth	App'd:
Code: TIA-222-H	Date: 01/29/21	Scale: NTS
Path:	Dwg No. E-1	

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Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- 1) Tower is located in New Haven County, Connecticut.
- 2) Tower base elevation above sea level: 282.0000 ft.
- 3) Basic wind speed of 125.00 mph.
- 4) Risk Category II.
- 5) Exposure Category C.
- 6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 7) Topographic Category: 1.
- 8) Crest Height: 0.0000 ft.
- 9) Nominal ice thickness of 1.0000 in.
- 10) Ice thickness is considered to increase with height.
- 11) Ice density of 56.00 pcf.
- 12) A wind speed of 50.00 mph is used in combination with ice.
- 13) Temperature drop of 50.00 °F.
- 14) Deflections calculated using a wind speed of 60.00 mph.
- 15) TOWER RATING: 98.9%.
- 16) A non-linear (P-delta) analysis was used.
- 17) Pressures are calculated at each section.
- 18) Stress ratio used in pole design is 1.05.
- 19) Tower analysis based on target reliabilities in accordance with Annex S.
- 20) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 21) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	

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	150.0000-145.0000	5.0000	0.00	12	16.0000	16.9374	0.1875	0.7500	A572-65 (65 ksi)
L2	145.0000-140.0000	5.0000	0.00	12	16.9374	17.8748	0.1875	0.7500	A572-65 (65 ksi)
L3	140.0000-135.0000	5.0000	0.00	12	17.8748	18.8122	0.1875	0.7500	A572-65 (65 ksi)
L4	135.0000-133.0000	2.0000	0.00	12	18.8122	19.1871	0.1875	0.7500	A572-65 (65 ksi)
L5	133.0000-132.7500	0.2500	0.00	12	19.1871	19.2340	0.4500	1.8000	A572-65 (65 ksi)
L6	132.7500-127.7500	5.0000	0.00	12	19.2340	20.1714	0.4375	1.7500	A572-65 (65 ksi)
L7	127.7500-123.7500	4.0000	0.00	12	20.1714	20.9213	0.4250	1.7000	A572-65 (65 ksi)
L8	123.7500-123.5000	0.2500	0.00	12	20.9213	20.9681	0.4250	1.7000	A572-65 (65 ksi)
L9	123.5000-118.7500	4.7500	0.00	12	20.9681	21.8587	0.7625	3.0500	A572-65 (65 ksi)
L10	118.7500-118.5000	0.2500	0.00	12	21.8587	21.9055	1.0375	4.1500	A572-65 (65 ksi)
L11	118.5000-117.0000	1.5000	0.00	12	21.9055	22.1868	1.0125	4.0500	A572-65 (65 ksi)
L12	117.0000-116.7500	0.2500	0.00	12	22.1868	22.2336	0.7500	3.0000	A572-65 (65 ksi)
L13	116.7500-111.7500	5.0000	0.00	12	22.2336	23.1710	0.7125	2.8500	A572-65 (65 ksi)
L14	111.7500-106.7500	5.0000	0.00	12	23.1710	24.1084	0.6875	2.7500	A572-65 (65 ksi)
L15	106.7500-101.7500	5.0000	0.00	12	24.1084	25.0458	0.6625	2.6500	A572-65 (65 ksi)
L16	101.7500-95.1667	6.5833	4.33	12	25.0458	26.2800	0.6625	2.6500	A572-65 (65 ksi)
L17	95.1667-94.5000	5.0000	0.00	12	25.0926	26.0307	0.7875	3.1500	A572-65 (65 ksi)
L18	94.5000-93.7500	0.7500	0.00	12	26.0307	26.1714	0.7875	3.1500	A572-65 (65 ksi)
L19	93.7500-93.5000	0.2500	0.00	12	26.1714	26.2183	0.9125	3.6500	A572-65 (65 ksi)
L20	93.5000-92.7500	0.7500	0.00	12	26.2183	26.3590	0.9125	3.6500	A572-65 (65 ksi)
L21	92.7500-92.5000	0.2500	0.00	12	26.3590	26.4059	1.1375	4.5500	A572-65 (65 ksi)
L22	92.5000-91.2500	1.2500	0.00	12	26.4059	26.6404	1.1125	4.4500	A572-65 (65 ksi)
L23	91.2500-91.0000	0.2500	0.00	12	26.6404	26.6873	1.1125	4.4500	A572-65 (65 ksi)
L24	91.0000-89.2500	1.7500	0.00	12	26.6873	27.0156	1.1125	4.4500	A572-65 (65 ksi)
L25	89.2500-89.0000	0.2500	0.00	12	27.0156	27.0625	1.2125	4.8500	A572-65 (65 ksi)
L26	89.0000-85.7500	3.2500	0.00	12	27.0625	27.6723	1.1875	4.7500	A572-65 (65 ksi)
L27	85.7500-85.5000	0.2500	0.00	12	27.6723	27.7192	0.8625	3.4500	A572-65 (65 ksi)
L28	85.5000-80.5000	5.0000	0.00	12	27.7192	28.6572	0.8375	3.3500	A572-65 (65 ksi)
L29	80.5000-75.5000	5.0000	0.00	12	28.6572	29.5953	0.8125	3.2500	A572-65 (65 ksi)
L30	75.5000-70.5000	5.0000	0.00	12	29.5953	30.5334	0.7875	3.1500	A572-65 (65 ksi)
L31	70.5000-68.0830	2.4170	0.00	12	30.5334	30.9868	0.7875	3.1500	A572-65 (65 ksi)
L32	68.0830-67.8330	0.2500	0.00	12	30.9868	31.0337	0.8375	3.3500	A572-65 (65 ksi)
L33	67.8330-67.0000	0.8330	0.00	12	31.0337	31.1900	0.8375	3.3500	A572-65 (65 ksi)
L34	67.0000-66.7500	0.2500	0.00	12	31.1900	31.2369	1.0625	4.2500	A572-65 (65 ksi)
L35	66.7500-	3.5000	0.00	12	31.2369	31.8935	1.0375	4.1500	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
L36	63.2500 63.2500- 63.0000	0.2500	0.00	12	31.8935	31.9404	1.2125	4.8500	(65 ksi) A572-65 (65 ksi)
L37	63.0000- 59.5000	3.5000	0.00	12	31.9404	32.5971	1.1875	4.7500	A572-65 (65 ksi)
L38	59.5000- 59.2500	0.2500	0.00	12	32.5971	32.6440	1.2375	4.9500	A572-65 (65 ksi)
L39	59.2500- 56.2500	3.0000	0.00	12	32.6440	33.2068	1.2125	4.8500	A572-65 (65 ksi)
L40	56.2500- 56.0000	0.2500	0.00	12	33.2068	33.2537	1.0625	4.2500	A572-65 (65 ksi)
L41	56.0000- 55.7500	0.2500	0.00	12	33.2537	33.3006	0.8375	3.3500	A572-65 (65 ksi)
L42	55.7500- 50.7500	5.0000	0.00	12	33.3006	34.2387	0.8250	3.3000	A572-65 (65 ksi)
L43	50.7500- 44.6667	6.0833	5.33	12	34.2387	35.3800	0.8125	3.2500	A572-65 (65 ksi)
L44	44.6667- 43.6667	6.3333	0.00	12	33.7544	34.9420	0.8750	3.5000	A572-65 (65 ksi)
L45	43.6667- 38.6667	5.0000	0.00	12	34.9420	35.8795	0.8625	3.4500	A572-65 (65 ksi)
L46	38.6667- 34.5000	4.1667	0.00	12	35.8795	36.6608	0.8500	3.4000	A572-65 (65 ksi)
L47	34.5000- 34.2500	0.2500	0.00	12	36.6608	36.7077	1.1000	4.4000	A572-65 (65 ksi)
L48	34.2500- 33.0000	1.2500	0.00	12	36.7077	36.9421	1.1000	4.4000	A572-65 (65 ksi)
L49	33.0000- 32.7500	0.2500	0.00	12	36.9421	36.9890	1.1000	4.4000	A572-65 (65 ksi)
L50	32.7500- 29.7500	3.0000	0.00	12	36.9890	37.5515	1.0750	4.3000	A572-65 (65 ksi)
L51	29.7500- 29.5000	0.2500	0.00	12	37.5515	37.5984	1.1250	4.5000	A572-65 (65 ksi)
L52	29.5000- 25.0000	4.5000	0.00	12	37.5984	38.4422	1.1000	4.4000	A572-65 (65 ksi)
L53	25.0000- 24.7500	0.2500	0.00	12	38.4422	38.4891	0.8625	3.4500	A572-65 (65 ksi)
L54	24.7500- 19.7500	5.0000	0.00	12	38.4891	39.4266	0.8500	3.4000	A572-65 (65 ksi)
L55	19.7500- 14.7500	5.0000	0.00	12	39.4266	40.3642	0.8250	3.3000	A572-65 (65 ksi)
L56	14.7500- 14.5000	0.2500	0.00	12	40.3642	40.4111	0.8250	3.3000	A572-65 (65 ksi)
L57	14.5000- 14.2500	0.2500	0.00	12	40.4111	40.4580	0.8250	3.3000	A572-65 (65 ksi)
L58	14.2500- 12.2500	2.0000	0.00	12	40.4580	40.8330	0.8250	3.3000	A572-65 (65 ksi)
L59	12.2500- 12.0000	0.2500	0.00	12	40.8330	40.8799	0.7875	3.1500	A572-65 (65 ksi)
L60	12.0000- 11.5000	0.5000	0.00	12	40.8799	40.9736	0.7875	3.1500	A572-65 (65 ksi)
L61	11.5000- 11.2500	0.2500	0.00	12	40.9736	41.0205	0.9000	3.6000	A572-65 (65 ksi)
L62	11.2500- 9.2500	2.0000	0.00	12	41.0205	41.3955	0.8875	3.5500	A572-65 (65 ksi)
L63	9.2500-9.0000	0.2500	0.00	12	41.3955	41.4424	0.8500	3.4000	A572-65 (65 ksi)
L64	9.0000-4.5000	4.5000	0.00	12	41.4424	42.2862	0.8250	3.3000	A572-65 (65 ksi)
L65	4.5000-4.2500	0.2500	0.00	12	42.2862	42.3331	0.8500	3.4000	A572-65 (65 ksi)
L66	4.2500-3.0000	1.2500	0.00	12	42.3331	42.5675	0.8500	3.4000	A572-65 (65 ksi)
L67	3.0000-2.7500	0.2500	0.00	12	42.5675	42.6143	0.8375	3.3500	A572-65 (65 ksi)
L68	2.7500-0.0000	2.7500		12	42.6143	43.1300	0.8250	3.3000	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	16.4983	9.5468	304.6805	5.6609	8.2880	36.7616	617.3654	4.6986	3.7855	20.189
	17.4687	10.1127	362.1419	5.9965	8.7736	41.2765	733.7976	4.9772	4.0367	21.529
L2	17.4687	10.1127	362.1419	5.9965	8.7736	41.2765	733.7976	4.9772	4.0367	21.529
	18.4392	10.6787	426.4084	6.3320	9.2591	46.0527	864.0190	5.2557	4.2879	22.869
L3	18.4392	10.6787	426.4084	6.3320	9.2591	46.0527	864.0190	5.2557	4.2879	22.869
	19.4096	11.2446	497.8611	6.6676	9.7447	51.0905	1008.8015	5.5343	4.5392	24.209
L4	19.4096	11.2446	497.8611	6.6676	9.7447	51.0905	1008.8015	5.5343	4.5392	24.209
	19.7978	11.4710	528.5395	6.8019	9.9389	53.1787	1070.9643	5.6457	4.6396	24.745
L5	19.7052	27.1501	1216.6410	6.7079	9.9389	122.4117	2465.2444	13.3624	3.9361	8.747
	19.7537	27.2180	1225.7939	6.7247	9.9632	123.0321	2483.7908	13.3959	3.9487	8.775
L6	19.7582	26.4795	1194.1249	6.7291	9.9632	119.8535	2419.6207	13.0324	3.9822	9.102
	20.7286	27.8001	1381.8365	7.0647	10.4488	132.2487	2799.9754	13.6824	4.2334	9.676
L7	20.7330	27.0229	1344.9080	7.0692	10.4488	128.7145	2725.1481	13.2999	4.2669	10.04
	21.5094	28.0492	1504.0279	7.3377	10.8372	138.7835	3047.5683	13.8049	4.4679	10.513
L8	21.5094	28.0492	1504.0279	7.3377	10.8372	138.7835	3047.5683	13.8049	4.4679	10.513
	21.5579	28.1133	1514.3693	7.3544	10.8615	139.4254	3068.5228	13.8365	4.4805	10.542
L9	21.4388	49.6099	2585.2353	7.2336	10.8615	238.0182	5238.3877	24.4165	3.5760	4.69
	22.3608	51.7964	2942.3360	7.5524	11.3228	259.8597	5961.9705	25.4926	3.8146	5.003
L10	22.2638	69.5583	3848.9748	7.4540	11.3228	339.9317	7799.0664	34.2345	3.0776	2.966
	22.3123	69.7149	3875.0258	7.4708	11.3471	341.5002	7851.8528	34.3115	3.0902	2.978
L11	22.3211	68.1165	3795.2593	7.4797	11.3471	334.4705	7690.2242	33.5249	3.1572	3.118
	22.6122	69.0334	3950.5815	7.5804	11.4927	343.7459	8004.9492	33.9761	3.2325	3.193
L12	22.7048	51.7698	3036.5468	7.6744	11.4927	264.2144	6152.8670	25.4795	3.9360	5.248
	22.7534	51.8829	3056.5080	7.6911	11.5170	265.3906	6193.3138	25.5352	3.9486	5.265
L13	22.7666	49.3748	2918.9144	7.7046	11.5170	253.4436	5914.5119	24.3008	4.0491	5.683
	23.7370	51.5254	3317.1823	8.0401	12.0026	276.3724	6721.5106	25.3592	4.3003	6.036
L14	23.7459	49.7729	3211.4908	8.0491	12.0026	267.5667	6507.3511	24.4967	4.3673	6.352
	24.7163	51.8480	3630.1530	8.3847	12.4881	290.6879	7355.6742	25.5180	4.6185	6.718
L15	24.7251	50.0160	3509.3614	8.3936	12.4881	281.0154	7110.9177	24.6163	4.6855	7.073
	25.6956	52.0156	3947.3364	8.7292	12.9737	304.2565	7998.3736	25.6005	4.9368	7.452
L16	25.6956	52.0156	3947.3364	8.7292	12.9737	304.2565	7998.3736	25.6005	4.9368	7.452
	26.9734	54.6485	4577.6010	9.1711	13.6130	336.2659	9275.4608	26.8963	5.2675	7.951
L17	26.5416	61.6317	4647.1307	8.7012	12.9980	357.5274	9416.3467	30.3332	4.6143	5.859
	26.6711	64.0104	5206.2354	9.0371	13.4839	386.1080	10549.244	31.5039	4.8657	6.179
L18	26.6711	64.0104	5206.2354	9.0371	13.4839	386.1080	10549.244	31.5039	4.8657	6.179
	26.8168	64.3672	5293.7831	9.0874	13.5568	390.4899	10726.639	31.6796	4.9034	6.227
L19	26.7727	74.2169	6043.8922	9.0427	13.5568	445.8209	12246.564	36.5273	4.5684	5.006
	26.8213	74.3547	6077.6233	9.0595	13.5811	447.5070	12314.912	36.5951	4.5810	5.02
L20	26.8213	74.3547	6077.6233	9.0595	13.5811	447.5070	12314.912	36.5951	4.5810	5.02
	26.9669	74.7681	6179.5692	9.1098	13.6540	452.5845	12521.482	36.7986	4.6187	5.062
L21	26.8876	92.3800	7500.7604	9.0293	13.6540	549.3471	15198.574	45.4666	4.0157	3.53
	26.9361	92.5518	7542.6845	9.0461	13.6783	551.4363	15283.523	45.5512	4.0283	3.541
L22	26.9449	90.6072	7398.8285	9.0550	13.6783	540.9192	14992.032	44.5941	4.0953	3.681
	27.1877	91.4473	7606.5437	9.1390	13.7997	551.2096	15412.919	45.0076	4.1581	3.738
L23	27.1877	91.4473	7606.5437	9.1390	13.7997	551.2096	15412.919	45.0076	4.1581	3.738
	27.2363	91.6154	7648.5478	9.1558	13.8240	553.2793	15498.031	45.0903	4.1707	3.749
L24	27.2363	91.6154	7648.5478	9.1558	13.8240	553.2793	15498.031	45.0903	4.1707	3.749
	27.5762	92.7915	7946.9142	9.2733	13.9941	567.8762	16102.602	45.6691	4.2587	3.828
L25	27.5409	100.7419	8561.3192	9.2375	13.9941	611.7808	17347.553	49.5821	3.9907	3.291

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
	27.5895	100.9250	8608.0915	9.2543	14.0184	614.0570	17442.327	49.6722	4.0033	3.302
L26	27.5983	98.9397	8455.0889	9.2633	14.0184	603.1426	17132.302 1	48.6951	4.0703	3.428
	28.2295	101.2711	9067.0113	9.4815	14.3342	632.5423	18372.223 4	49.8426	4.2337	3.565
L27	28.3442	74.4574	6830.9371	9.5979	14.3342	476.5470	13841.330 0	36.6457	5.1047	5.918
	28.3927	74.5877	6866.8515	9.6147	14.3585	478.2419	13914.102 6	36.7098	5.1172	5.933
L28	28.4016	72.4932	6686.4502	9.6236	14.3585	465.6778	13548.560 9	35.6789	5.1842	6.19
	29.3727	75.0229	7411.1508	9.9595	14.8444	499.2540	15017.000 9	36.9240	5.4356	6.49
L29	29.3815	72.8488	7209.3234	9.9684	14.8444	485.6579	14608.043 8	35.8540	5.5026	6.772
	30.3527	75.3030	7962.7701	10.3042	15.3304	519.4117	16134.731 7	37.0618	5.7540	7.082
L30	30.3615	73.0494	7737.8896	10.3132	15.3304	504.7427	15679.062 0	35.9527	5.8210	7.392
	31.3327	75.4281	8518.6718	10.6490	15.8163	538.6015	17261.138 1	37.1234	6.0724	7.711
L31	31.3327	75.4281	8518.6718	10.6490	15.8163	538.6015	17261.138 6	37.1234	6.0724	7.711
	31.8021	76.5779	8914.2282	10.8114	16.0512	555.3631	18062.643 6	37.6893	6.1940	7.865
L32	31.7845	81.3052	9433.2006	10.7935	16.0512	587.6955	19114.222 1	40.0159	6.0600	7.236
	31.8330	81.4317	9477.2946	10.8102	16.0755	589.5502	19203.568 0	40.0782	6.0725	7.251
L33	31.8330	81.4317	9477.2946	10.8102	16.0755	589.5502	19203.568 3	40.0782	6.0725	7.251
	31.9948	81.8531	9625.2071	10.8662	16.1564	595.7512	19503.279 3	40.2856	6.1144	7.301
L34	31.9155	103.0737	11941.533 2	10.7856	16.1564	739.1200	24196.783 2	50.7297	5.5114	5.187
	31.9640	103.2342	11997.392 4	10.8024	16.1807	741.4624	24309.969 7	50.8087	5.5240	5.199
L35	31.9728	100.8887	11744.243 4	10.8114	16.1807	725.8173	23797.021 6	49.6543	5.5910	5.389
	32.6526	103.0823	12527.105 9	11.0465	16.5209	758.2601	25383.312 1	50.7340	5.7670	5.559
L36	32.5909	119.7865	14392.427 6	10.9838	16.5209	871.1671	29162.960 7	58.9553	5.2980	4.369
	32.6395	119.9696	14458.535 0	11.0006	16.5452	873.8834	29296.911 4	59.0454	5.3105	4.38
L37	32.6483	117.5916	14195.011 4	11.0096	16.5452	857.9559	28762.941 7	57.8750	5.3775	4.528
	33.3281	120.1024	15123.848 8	11.2446	16.8853	895.6817	30645.017 5	59.1108	5.5535	4.677
L38	33.3105	124.9601	15685.495 4	11.2267	16.8853	928.9442	31783.066 8	61.5016	5.4195	4.379
	33.3590	125.1470	15755.980 8	11.2435	16.9096	931.7778	31925.888 3	61.5936	5.4321	4.39
L39	33.3678	122.7164	15474.573 3	11.2525	16.9096	915.1360	31355.681 8	60.3973	5.4991	4.535
	33.9505	124.9139	16320.847 6	11.4540	17.2011	948.8237	33070.462 0	61.4788	5.6499	4.66
L40	34.0034	109.9738	14503.872 6	11.5077	17.2011	843.1926	29388.778 1	54.1258	6.0519	5.696
	34.0520	110.1343	14567.454 7	11.5245	17.2254	845.6945	29517.612 0	54.2047	6.0645	5.708
L41	34.1314	87.4185	11725.040 6	11.6050	17.2254	680.6818	23758.111 6	43.0247	6.6675	7.961
	34.1799	87.5450	11776.009 1	11.6218	17.2497	682.6779	23861.387 0	43.0870	6.6801	7.976
L42	34.1843	86.2715	11613.653 0	11.6263	17.2497	673.2658	23532.409 0	42.4602	6.7136	8.138
	35.1555	88.7635	12649.385 8	11.9621	17.7356	713.2182	25631.085 6	43.6867	6.9650	8.442
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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
L43	35.1599	87.4513	12471.714 9	11.9666	17.7356	703.2005	25271.075 7	43.0409	6.9985	8.614
	36.3415	90.4372	13793.329 3	12.3752	18.3268	752.6300	27949.024 8	44.5104	7.3043	8.99
L44	35.6718	92.6377	12782.677 8	11.7708	17.4848	731.0744	25901.170 8	45.5935	6.7012	7.658
	35.8659	95.9837	14218.398 0	12.1960	18.0999	785.5493	28810.329 1	47.2403	7.0194	8.022
L45	35.8703	94.6472	14030.711 3	12.2005	18.0999	775.1798	28430.025 1	46.5825	7.0529	8.177
	36.8410	97.2511	15220.855 9	12.5361	18.5856	818.9596	30841.580 6	47.8640	7.3042	8.469
L46	36.8454	95.8758	15016.333 4	12.5406	18.5856	807.9553	30427.162 6	47.1872	7.3377	8.633
	37.6542	98.0143	16043.691 7	12.8203	18.9903	844.8354	32508.869 1	48.2396	7.5471	8.879
L47	37.5661	125.9565	20330.617 8	12.7308	18.9903	1070.5782	41195.343 7	61.9920	6.8771	6.252
	37.6146	126.1225	20411.126 3	12.7476	19.0146	1073.4450	41358.475 5	62.0737	6.8897	6.263
L48	37.6146	126.1225	20411.126 3	12.7476	19.0146	1073.4450	41358.475 5	62.0737	6.8897	6.263
	37.8572	126.9528	20816.857 8	12.8315	19.1360	1087.8368	42180.597 7	62.4823	6.9525	6.32
L49	37.8572	126.9528	20816.857 8	12.8315	19.1360	1087.8368	42180.597 7	62.4823	6.9525	6.32
	37.9058	127.1188	20898.644 0	12.8483	19.1603	1090.7266	42346.318 6	62.5640	6.9650	6.332
L50	37.9146	124.3163	20466.385 5	12.8572	19.1603	1068.1665	41470.445 7	61.1847	7.0320	6.541
	38.4970	126.2635	21443.249 0	13.0586	19.4517	1102.3849	43449.836 0	62.1430	7.1828	6.682
L51	38.4793	131.9551	22348.454 8	13.0407	19.4517	1148.9210	45284.028 4	64.9443	7.0488	6.266
	38.5279	132.1249	22434.847 9	13.0575	19.4760	1151.9244	45459.084 1	65.0279	7.0614	6.277
L52	38.5367	129.2773	21981.434 1	13.0664	19.4760	1128.6438	44540.344 9	63.6264	7.1284	6.48
	39.4103	132.2661	23541.511 8	13.3685	19.9131	1182.2146	47701.485 3	65.0973	7.3545	6.686
L53	39.4940	104.3682	18813.127 1	13.4535	19.9131	944.7632	38120.496 1	51.3669	7.9910	9.265
	39.5426	104.4984	18883.619 1	13.4703	19.9373	947.1482	38263.331 9	51.4309	8.0036	9.28
L54	39.5470	103.0182	18628.497 0	13.4748	19.9373	934.3520	37746.385 3	50.7024	8.0371	9.455
	40.5176	105.5843	20055.522 3	13.8104	20.4230	982.0067	40637.925 4	51.9654	8.2883	9.751
L55	40.5264	102.5453	19503.523 3	13.8194	20.4230	954.9784	39519.425 8	50.4697	8.3553	10.128
	41.4971	105.0359	20959.426 9	14.1550	20.9087	1002.4282	42469.481 4	51.6955	8.6066	10.432
L56	41.4971	105.0359	20959.426 9	14.1550	20.9087	1002.4282	42469.481 4	51.6955	8.6066	10.432
	41.5456	105.1604	21034.064 4	14.1718	20.9329	1004.8309	42620.717 0	51.7568	8.6192	10.447
L57	41.5456	105.1604	21034.064 4	14.1718	20.9329	1004.8309	42620.717 0	51.7568	8.6192	10.447
	41.5941	105.2849	21108.878 8	14.1886	20.9572	1007.2365	42772.311 3	51.8180	8.6317	10.463
L58	41.5941	105.2849	21108.878 8	14.1886	20.9572	1007.2365	42772.311 3	51.8180	8.6317	10.463
	41.9824	106.2812	21713.790 5	14.3229	21.1515	1026.5847	43998.026 5	52.3084	8.7322	10.585
L59	41.9956	101.5453	20785.137 2	14.3363	21.1515	982.6799	42116.323 1	49.9775	8.8327	11.216
	42.0441	101.6642	20858.217 1	14.3531	21.1758	985.0041	42264.402 8	50.0360	8.8453	11.232
L60	42.0441	101.6642	20858.217 1	14.3531	21.1758	985.0041	42264.402 8	50.0360	8.8453	11.232

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
	42.1412	101.9019	21004.890	14.3866	21.2243	989.6608	42561.602	50.1530	8.8704	11.264
L61	42.1015	116.1333	23804.543	14.3464	21.2243	1121.5686	48234.459	57.1573	8.5689	9.521
	42.1501	116.2692	23888.181	14.3631	21.2486	1124.2230	48403.931	57.2242	8.5815	9.535
L62	42.1545	114.6901	23578.425	14.3676	21.2486	1109.6453	47776.282	56.4470	8.6150	9.707
	42.5427	115.7618	24245.607	14.5019	21.4429	1130.7068	49128.174	56.9744	8.7155	9.82
L63	42.5559	110.9731	23285.695	14.5153	21.4429	1085.9408	47183.131	54.6176	8.8160	10.372
	42.6045	111.1014	23366.556	14.5321	21.4672	1088.4792	47346.978	54.6807	8.8286	10.387
L64	42.6133	107.9001	22721.233	14.5410	21.4672	1058.4183	46039.379	53.1051	8.8956	10.782
	43.4869	110.1417	24166.918	14.8431	21.9043	1103.2982	48968.729	54.2084	9.1217	11.057
L65	43.4780	113.4109	24854.235	14.8342	21.9043	1134.6764	50361.420	55.8174	9.0547	10.653
	43.5266	113.5392	24938.686	14.8509	21.9285	1137.2711	50532.539	55.8805	9.0673	10.667
L66	43.5266	113.5392	24938.686	14.8509	21.9285	1137.2711	50532.539	55.8805	9.0673	10.667
	43.7692	114.1807	25363.807	14.9349	22.0499	1150.2888	51393.950	56.1963	9.1301	10.741
L67	43.7736	112.5353	25013.281	14.9393	22.0499	1134.3919	50683.689	55.3864	9.1636	10.942
	43.8222	112.6617	25097.673	14.9561	22.0742	1136.9671	50854.690	55.4487	9.1761	10.957
L68	43.8266	111.0134	24745.279	14.9606	22.0742	1121.0031	50140.645	54.6374	9.2096	11.163
	44.3604	112.3832	25672.660	15.1452	22.3413	1149.1101	52019.769	55.3116	9.3478	11.331

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1 150.0000-145.0000				1	1	1			
L2 145.0000-140.0000				1	1	1			
L3 140.0000-135.0000				1	1	1			
L4 135.0000-133.0000				1	1	1			
L5 133.0000-132.7500				1	1	0.919196			
L6 132.7500-127.7500				1	1	0.920307			
L7 127.7500-123.7500				1	1	0.928276			
L8 123.7500-123.5000				1	1	0.927165			
L9 123.5000-118.7500				1	1	0.876127			
L10 118.7500-118.5000				1	1	0.845269			
L11 118.5000-117.0000				1	1	0.856074			
L12 117.0000-116.7500				1	1	0.879028			
L13 116.7500-				1	1	0.896111			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_r	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
111.7500 L14				1	1	0.901452			
111.7500- 106.7500 L15				1	1	0.909427			
106.7500- 101.7500 L16				1	1	0.898775			
101.7500- 95.1667 L17				1	1	0.908839			
95.1667- 94.5000 L18				1	1	0.906001			
94.5000- 93.7500 L19				1	1	0.906154			
93.7500- 93.5000 L20				1	1	0.903037			
93.5000- 92.7500 L21				1	1	0.876104			
92.7500- 92.5000 L22				1	1	0.889265			
92.5000- 91.2500 L23				1	1	0.88815			
91.2500- 91.0000 L24				1	1	0.880453			
91.0000- 89.2500 L25				1	1	0.884384			
89.2500- 89.0000 L26				1	1	0.88742			
89.0000- 85.7500 L27				1	1	0.903433			
85.7500- 85.5000 L28				1	1	0.910774			
85.5000- 80.5000 L29				1	1	0.919921			
80.5000- 75.5000 L30				1	1	0.93091			
75.5000- 70.5000 L31				1	1	0.92289			
70.5000- 68.0830 L32				1	1	0.923801			
68.0830- 67.8330 L33				1	1	0.920966			
67.8330- 67.0000 L34				1	1	0.905291			
67.0000- 66.7500 L35				1	1	0.913034			
66.7500- 63.2500 L36				1	1	0.897596			
63.2500- 63.0000 L37				1	1	0.902105			
63.0000- 59.5000 L38				1	1	0.896126			
59.5000- 59.2500 L39				1	1	0.902333			
59.2500- 56.2500 L40				1	1	0.901098			
56.2500- 56.0000 L41				1	1	0.928244			
56.0000- 55.7500 L42				1	1	0.926136			
55.7500- 50.7500 L43				1	1	0.937704			
50.7500- 44.6667 L44				1	1	0.935663			
44.6667- 43.6667 L45				1	1	0.935111			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_r	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L46 38.6667-34.5000				1	1	0.937455			
L47 34.5000-34.2500				1	1	0.92252			
L48 34.2500-33.0000				1	1	0.918716			
L49 33.0000-32.7500				1	1	0.917961			
L50 32.7500-29.7500				1	1	0.929559			
L51 29.7500-29.5000				1	1	0.917173			
L52 29.5000-25.0000				1	1	0.923897			
L53 25.0000-24.7500				1	1	0.936349			
L54 24.7500-19.7500				1	1	0.937441			
L55 19.7500-14.7500				1	1	0.953114			
L56 14.7500-14.5000				1	1	0.952523			
L57 14.5000-14.2500				1	1	0.951934			
L58 14.2500-12.2500				1	1	0.947272			
L59 12.2500-12.0000				1	1	0.990848			
L60 12.0000-11.5000				1	1	0.989648			
L61 11.5000-11.2500				1	1	0.919523			
L62 11.2500-9.2500				1	1	0.927466			
L63 9.2500-9.0000				1	1	0.912798			
L64 9.0000-4.5000				1	1	0.930002			
L65 4.5000-4.2500				1	1	0.955592			
L66 4.2500-3.0000				1	1	0.952702			
L67 3.0000-2.7500				1	1	0.912717			
L68 2.7500-0.0000				1	1	0.920519			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
HCS 6X12 4AWG(1-5/8) ***	C	No	Surface Ar (CaAa)	128.0000 - 8.0000	3	3	-0.500 -0.400	1.6600		2.40
9" x 1-1/4" Flate Plate	A	No	Surface Af (CaAa)	29.7500 - 0.0000	1	1	0.500 0.500	9.0000	20.5000	0.00
8" x 1-1/4" Flate Plate	A	No	Surface Af (CaAa)	59.5000 - 29.7500	1	1	0.500 0.500	8.0000	18.5000	0.00
7" x 1-1/4" Flate Plate	A	No	Surface Af (CaAa)	89.2500 - 59.5000	1	1	0.500 0.500	7.0000	16.5000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
5" x 1-1/4" Flate Plate	A	No	Surface Af (CaAa)	125.0000 - 89.2500	1	1	0.500 0.500	5.0000	12.5000	0.00

9" x 1-1/4" Flate Plate	B	No	Surface Af (CaAa)	29.7500 - 0.0000	1	1	0.500 0.500	9.0000	20.5000	0.00
8" x 1-1/4" Flate Plate	B	No	Surface Af (CaAa)	59.5000 - 29.7500	1	1	0.500 0.500	8.0000	18.5000	0.00
7" x 1-1/4" Flate Plate	B	No	Surface Af (CaAa)	89.2500 - 59.5000	1	1	0.500 0.500	7.0000	16.5000	0.00
5" x 1-1/4" Flate Plate	B	No	Surface Af (CaAa)	125.0000 - 89.2500	1	1	0.500 0.500	5.0000	12.5000	0.00

9" x 1-1/4" Flate Plate	C	No	Surface Af (CaAa)	29.7500 - 0.0000	1	1	0.500 0.500	9.0000	20.5000	0.00
8" x 1-1/4" Flate Plate	C	No	Surface Af (CaAa)	59.5000 - 29.7500	1	1	0.500 0.500	8.0000	18.5000	0.00
7" x 1-1/4" Flate Plate	C	No	Surface Af (CaAa)	89.2500 - 59.5000	1	1	0.500 0.500	7.0000	16.5000	0.00
5" x 1-1/4" Flate Plate	C	No	Surface Af (CaAa)	125.0000 - 89.2500	1	1	0.500 0.500	5.0000	12.5000	0.00

6" x 1" Flate Plate	A	No	Surface Af (CaAa)	70.5833 - 0.0000	1	1	0.000 0.000	6.0000	14.0000	0.00
6" x 1" Flate Plate	B	No	Surface Af (CaAa)	70.5833 - 0.0000	1	1	0.000 0.000	6.0000	14.0000	0.00
6" x 1" Flate Plate	C	No	Surface Af (CaAa)	70.5833 - 0.0000	1	1	0.000 0.000	6.0000	14.0000	0.00

4.5" x 1" Flate Plate	A	No	Surface Af (CaAa)	135.0000 - 70.5833	1	1	0.000 0.000	4.5000	11.0000	0.00
4.5" x 1" Flate Plate	B	No	Surface Af (CaAa)	135.0000 - 70.5833	1	1	0.000 0.000	4.5000	11.0000	0.00
4.5" x 1" Flate Plate	C	No	Surface Af (CaAa)	135.0000 - 70.5833	1	1	0.000 0.000	4.5000	11.0000	0.00

Transition Stiffener	A	No	Surface Af (CaAa)	6.0000 - 0.0000	1	1	0.000 0.000	1.2500	14.5000	0.00
Transition Stiffener	B	No	Surface Af (CaAa)	13.0000 - 0.0000	1	1	0.000 0.000	1.2500	14.5000	0.00
Transition Stiffener	C	No	Surface Af (CaAa)	16.0000 - 0.0000	1	1	0.000 0.000	1.2500	14.5000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
LDF4-50A(1/2)	A	No	No	Inside Pole	150.0000 - 8.0000	1	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000
LDF5-50A(7/8)	A	No	No	Inside Pole	150.0000 - 8.0000	12	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Inside Pole	150.0000 - 8.0000	1	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000

FB-L98B-002-75000(3/8)	C	No	No	Inside Pole	138.0000 - 8.0000	2	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	138.0000 - 8.0000	2	No Ice 1/2" Ice	0.0000 0.0000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf
WR-VG66ST-BRD(7/8)	C	No	No	Inside Pole	138.0000 - 0.0000	2	1" Ice	0.0000	0.58
							No Ice	0.0000	0.91
							1/2" Ice	0.0000	0.91
LCF114-50J(1-1/4)	C	No	No	Inside Pole	138.0000 - 8.0000	12	1" Ice	0.0000	0.91
							No Ice	0.0000	0.70
							1/2" Ice	0.0000	0.70
							1" Ice	0.0000	0.70

LDF7-50A(1-5/8)	C	No	No	Inside Pole	128.0000 - 8.0000	6	No Ice	0.0000	0.82
							1/2" Ice	0.0000	0.82
							1" Ice	0.0000	0.82

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	150.0000-145.0000	A	0.000	0.000	0.000	0.000	0.03
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L2	145.0000-140.0000	A	0.000	0.000	0.000	0.000	0.03
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L3	140.0000-135.0000	A	0.000	0.000	0.000	0.000	0.03
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.03
L4	135.0000-133.0000	A	0.000	0.000	1.500	0.000	0.01
		B	0.000	0.000	1.500	0.000	0.00
		C	0.000	0.000	1.500	0.000	0.02
L5	133.0000-132.7500	A	0.000	0.000	0.188	0.000	0.00
		B	0.000	0.000	0.188	0.000	0.00
		C	0.000	0.000	0.188	0.000	0.00
L6	132.7500-127.7500	A	0.000	0.000	3.750	0.000	0.03
		B	0.000	0.000	3.750	0.000	0.00
		C	0.000	0.000	3.874	0.000	0.06
L7	127.7500-123.7500	A	0.000	0.000	4.042	0.000	0.02
		B	0.000	0.000	4.042	0.000	0.00
		C	0.000	0.000	6.034	0.000	0.09
L8	123.7500-123.5000	A	0.000	0.000	0.396	0.000	0.00
		B	0.000	0.000	0.396	0.000	0.00
		C	0.000	0.000	0.520	0.000	0.01
L9	123.5000-118.7500	A	0.000	0.000	7.521	0.000	0.03
		B	0.000	0.000	7.521	0.000	0.00
		C	0.000	0.000	9.886	0.000	0.11
L10	118.7500-118.5000	A	0.000	0.000	0.396	0.000	0.00
		B	0.000	0.000	0.396	0.000	0.00
		C	0.000	0.000	0.520	0.000	0.01
L11	118.5000-117.0000	A	0.000	0.000	2.375	0.000	0.01
		B	0.000	0.000	2.375	0.000	0.00
		C	0.000	0.000	3.122	0.000	0.04
L12	117.0000-116.7500	A	0.000	0.000	0.396	0.000	0.00
		B	0.000	0.000	0.396	0.000	0.00
		C	0.000	0.000	0.520	0.000	0.01
L13	116.7500-111.7500	A	0.000	0.000	7.917	0.000	0.03
		B	0.000	0.000	7.917	0.000	0.00
		C	0.000	0.000	10.407	0.000	0.12
L14	111.7500-106.7500	A	0.000	0.000	7.917	0.000	0.03
		B	0.000	0.000	7.917	0.000	0.00
		C	0.000	0.000	10.407	0.000	0.12
L15	106.7500-	A	0.000	0.000	7.917	0.000	0.03

Tower Sectio n	Tower Elevation ft	Face	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight K
			ft ²	ft ²	ft ²	ft ²	
L16	101.7500- 95.1667	B	0.000	0.000	7.917	0.000	0.00
		C	0.000	0.000	10.407	0.000	0.12
		A	0.000	0.000	10.424	0.000	0.04
L17	95.1667-94.5000	B	0.000	0.000	10.424	0.000	0.00
		C	0.000	0.000	13.702	0.000	0.16
		A	0.000	0.000	1.056	0.000	0.00
L18	94.5000-93.7500	B	0.000	0.000	1.056	0.000	0.00
		C	0.000	0.000	1.388	0.000	0.02
		A	0.000	0.000	1.188	0.000	0.00
L19	93.7500-93.5000	B	0.000	0.000	1.188	0.000	0.00
		C	0.000	0.000	1.561	0.000	0.02
		A	0.000	0.000	0.396	0.000	0.00
L20	93.5000-92.7500	B	0.000	0.000	0.396	0.000	0.00
		C	0.000	0.000	0.520	0.000	0.01
		A	0.000	0.000	1.188	0.000	0.00
L21	92.7500-92.5000	B	0.000	0.000	1.188	0.000	0.00
		C	0.000	0.000	1.561	0.000	0.02
		A	0.000	0.000	0.396	0.000	0.00
L22	92.5000-91.2500	B	0.000	0.000	0.396	0.000	0.00
		C	0.000	0.000	0.520	0.000	0.01
		A	0.000	0.000	1.979	0.000	0.01
L23	91.2500-91.0000	B	0.000	0.000	1.979	0.000	0.00
		C	0.000	0.000	2.602	0.000	0.03
		A	0.000	0.000	0.396	0.000	0.00
L24	91.0000-89.2500	B	0.000	0.000	0.396	0.000	0.00
		C	0.000	0.000	0.520	0.000	0.01
		A	0.000	0.000	2.771	0.000	0.01
L25	89.2500-89.0000	B	0.000	0.000	2.771	0.000	0.00
		C	0.000	0.000	3.642	0.000	0.04
		A	0.000	0.000	0.479	0.000	0.00
L26	89.0000-85.7500	B	0.000	0.000	0.479	0.000	0.00
		C	0.000	0.000	0.604	0.000	0.01
		A	0.000	0.000	6.229	0.000	0.02
L27	85.7500-85.5000	B	0.000	0.000	6.229	0.000	0.00
		C	0.000	0.000	7.848	0.000	0.08
		A	0.000	0.000	0.479	0.000	0.00
L28	85.5000-80.5000	B	0.000	0.000	0.479	0.000	0.00
		C	0.000	0.000	0.604	0.000	0.01
		A	0.000	0.000	9.583	0.000	0.03
L29	80.5000-75.5000	B	0.000	0.000	9.583	0.000	0.00
		C	0.000	0.000	12.073	0.000	0.12
		A	0.000	0.000	9.583	0.000	0.03
L30	75.5000-70.5000	B	0.000	0.000	9.583	0.000	0.00
		C	0.000	0.000	12.073	0.000	0.12
		A	0.000	0.000	9.604	0.000	0.03
L31	70.5000-68.0830	B	0.000	0.000	9.604	0.000	0.00
		C	0.000	0.000	12.094	0.000	0.12
		A	0.000	0.000	5.237	0.000	0.01
L32	68.0830-67.8330	B	0.000	0.000	5.237	0.000	0.00
		C	0.000	0.000	6.440	0.000	0.06
		A	0.000	0.000	0.542	0.000	0.00
L33	67.8330-67.0000	B	0.000	0.000	0.542	0.000	0.00
		C	0.000	0.000	0.666	0.000	0.01
		A	0.000	0.000	1.805	0.000	0.00
L34	67.0000-66.7500	B	0.000	0.000	1.805	0.000	0.00
		C	0.000	0.000	2.220	0.000	0.02
		A	0.000	0.000	0.542	0.000	0.00
L35	66.7500-63.2500	B	0.000	0.000	0.542	0.000	0.00
		C	0.000	0.000	0.666	0.000	0.01
		A	0.000	0.000	7.583	0.000	0.02
L36	63.2500-63.0000	B	0.000	0.000	7.583	0.000	0.00
		C	0.000	0.000	9.326	0.000	0.08
		A	0.000	0.000	0.542	0.000	0.00
L37	63.0000-59.5000	B	0.000	0.000	0.542	0.000	0.00
		C	0.000	0.000	0.666	0.000	0.01
		A	0.000	0.000	7.583	0.000	0.02
L38	59.5000-59.2500	B	0.000	0.000	7.583	0.000	0.00
		C	0.000	0.000	9.326	0.000	0.08
		A	0.000	0.000	0.583	0.000	0.00

Tower Sectio n	Tower Elevation ft	Face	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight K
			ft ²	ft ²	ft ²	ft ²	
		B	0.000	0.000	0.583	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.01
L39	59.2500-56.2500	A	0.000	0.000	7.000	0.000	0.02
		B	0.000	0.000	7.000	0.000	0.00
		C	0.000	0.000	8.494	0.000	0.07
L40	56.2500-56.0000	A	0.000	0.000	0.583	0.000	0.00
		B	0.000	0.000	0.583	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.01
L41	56.0000-55.7500	A	0.000	0.000	0.583	0.000	0.00
		B	0.000	0.000	0.583	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.01
L42	55.7500-50.7500	A	0.000	0.000	11.667	0.000	0.03
		B	0.000	0.000	11.667	0.000	0.00
		C	0.000	0.000	14.157	0.000	0.12
L43	50.7500-44.6667	A	0.000	0.000	14.194	0.000	0.03
		B	0.000	0.000	14.194	0.000	0.00
		C	0.000	0.000	17.224	0.000	0.14
L44	44.6667-43.6667	A	0.000	0.000	2.333	0.000	0.01
		B	0.000	0.000	2.333	0.000	0.00
		C	0.000	0.000	2.831	0.000	0.02
L45	43.6667-38.6667	A	0.000	0.000	11.667	0.000	0.03
		B	0.000	0.000	11.667	0.000	0.00
		C	0.000	0.000	14.157	0.000	0.12
L46	38.6667-34.5000	A	0.000	0.000	9.722	0.000	0.02
		B	0.000	0.000	9.722	0.000	0.00
		C	0.000	0.000	11.797	0.000	0.10
L47	34.5000-34.2500	A	0.000	0.000	0.583	0.000	0.00
		B	0.000	0.000	0.583	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.01
L48	34.2500-33.0000	A	0.000	0.000	2.917	0.000	0.01
		B	0.000	0.000	2.917	0.000	0.00
		C	0.000	0.000	3.539	0.000	0.03
L49	33.0000-32.7500	A	0.000	0.000	0.583	0.000	0.00
		B	0.000	0.000	0.583	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.01
L50	32.7500-29.7500	A	0.000	0.000	7.000	0.000	0.02
		B	0.000	0.000	7.000	0.000	0.00
		C	0.000	0.000	8.494	0.000	0.07
L51	29.7500-29.5000	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.625	0.000	0.00
		C	0.000	0.000	0.750	0.000	0.01
L52	29.5000-25.0000	A	0.000	0.000	11.250	0.000	0.02
		B	0.000	0.000	11.250	0.000	0.00
		C	0.000	0.000	13.491	0.000	0.11
L53	25.0000-24.7500	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.625	0.000	0.00
		C	0.000	0.000	0.750	0.000	0.01
L54	24.7500-19.7500	A	0.000	0.000	12.500	0.000	0.03
		B	0.000	0.000	12.500	0.000	0.00
		C	0.000	0.000	14.990	0.000	0.12
L55	19.7500-14.7500	A	0.000	0.000	12.500	0.000	0.03
		B	0.000	0.000	12.500	0.000	0.00
		C	0.000	0.000	15.250	0.000	0.12
L56	14.7500-14.5000	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.625	0.000	0.00
		C	0.000	0.000	0.802	0.000	0.01
L57	14.5000-14.2500	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.625	0.000	0.00
		C	0.000	0.000	0.802	0.000	0.01
L58	14.2500-12.2500	A	0.000	0.000	5.000	0.000	0.01
		B	0.000	0.000	5.156	0.000	0.00
		C	0.000	0.000	6.413	0.000	0.05
L59	12.2500-12.0000	A	0.000	0.000	0.625	0.000	0.00
		B	0.000	0.000	0.677	0.000	0.00
		C	0.000	0.000	0.802	0.000	0.01
L60	12.0000-11.5000	A	0.000	0.000	1.250	0.000	0.00
		B	0.000	0.000	1.354	0.000	0.00
		C	0.000	0.000	1.603	0.000	0.01
L61	11.5000-11.2500	A	0.000	0.000	0.625	0.000	0.00

Tower Sectio n	Tower Elevation ft	Face	A_R	A_F	C_{AA} In Face	C_{AA} Out Face	Weight
			ft ²	ft ²	ft ²	ft ²	K
L62	11.2500-9.2500	B	0.000	0.000	0.677	0.000	0.00
		C	0.000	0.000	0.802	0.000	0.01
		A	0.000	0.000	5.000	0.000	0.01
L63	9.2500-9.0000	B	0.000	0.000	5.417	0.000	0.00
		C	0.000	0.000	6.413	0.000	0.05
		A	0.000	0.000	0.625	0.000	0.00
L64	9.0000-4.5000	B	0.000	0.000	0.677	0.000	0.00
		C	0.000	0.000	0.802	0.000	0.01
		A	0.000	0.000	11.493	0.000	0.01
L65	4.5000-4.2500	B	0.000	0.000	12.188	0.000	0.00
		C	0.000	0.000	12.685	0.000	0.03
		A	0.000	0.000	0.666	0.000	0.00
L66	4.2500-3.0000	B	0.000	0.000	0.677	0.000	0.00
		C	0.000	0.000	0.677	0.000	0.00
		A	0.000	0.000	3.328	0.000	0.00
L67	3.0000-2.7500	B	0.000	0.000	3.385	0.000	0.00
		C	0.000	0.000	3.385	0.000	0.00
		A	0.000	0.000	0.666	0.000	0.00
L68	2.7500-0.0000	B	0.000	0.000	0.677	0.000	0.00
		C	0.000	0.000	0.677	0.000	0.00
		A	0.000	0.000	7.321	0.000	0.00
		B	0.000	0.000	7.448	0.000	0.00
		C	0.000	0.000	7.448	0.000	0.01

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R	A_F	C_{AA} In Face	C_{AA} Out Face	Weight
				ft ²	ft ²	ft ²	ft ²	K
L1	150.0000- 145.0000	A	0.987	0.000	0.000	0.000	0.000	0.03
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L2	145.0000- 140.0000	A	0.984	0.000	0.000	0.000	0.000	0.03
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L3	140.0000- 135.0000	A	0.980	0.000	0.000	0.000	0.000	0.03
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.03
L4	135.0000- 133.0000	A	0.978	0.000	0.000	1.891	0.000	0.02
		B		0.000	0.000	1.891	0.000	0.01
		C		0.000	0.000	1.891	0.000	0.03
L5	133.0000- 132.7500	A	0.977	0.000	0.000	0.236	0.000	0.00
		B		0.000	0.000	0.236	0.000	0.00
		C		0.000	0.000	0.236	0.000	0.00
L6	132.7500- 127.7500	A	0.975	0.000	0.000	4.725	0.000	0.05
		B		0.000	0.000	4.725	0.000	0.03
		C		0.000	0.000	4.942	0.000	0.09
L7	127.7500- 123.7500	A	0.972	0.000	0.000	5.062	0.000	0.05
		B		0.000	0.000	5.062	0.000	0.03
		C		0.000	0.000	8.524	0.000	0.15
L8	123.7500- 123.5000	A	0.970	0.000	0.000	0.493	0.000	0.00
		B		0.000	0.000	0.493	0.000	0.00
		C		0.000	0.000	0.709	0.000	0.01
L9	123.5000- 118.7500	A	0.968	0.000	0.000	9.360	0.000	0.08
		B		0.000	0.000	9.360	0.000	0.06
		C		0.000	0.000	13.466	0.000	0.20
L10	118.7500- 118.5000	A	0.966	0.000	0.000	0.492	0.000	0.00
		B		0.000	0.000	0.492	0.000	0.00
		C		0.000	0.000	0.708	0.000	0.01
L11	118.5000- 117.0000	A	0.965	0.000	0.000	2.954	0.000	0.03
		B		0.000	0.000	2.954	0.000	0.02
		C		0.000	0.000	4.250	0.000	0.06
L12	117.0000- 116.7500	A	0.965	0.000	0.000	0.492	0.000	0.00
		B		0.000	0.000	0.492	0.000	0.00
		C		0.000	0.000	0.708	0.000	0.01
L13	116.7500-	A	0.962	0.000	0.000	9.841	0.000	0.08

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L14	111.7500-106.7500	B	0.958	0.000	0.000	9.841	0.000	0.06
		C		0.000	0.000	14.157	0.000	0.21
		A		0.000	0.000	9.833	0.000	0.08
L15	106.7500-101.7500	B	0.954	0.000	0.000	9.833	0.000	0.06
		C		0.000	0.000	14.143	0.000	0.21
		A		0.000	0.000	9.824	0.000	0.08
L16	101.7500-95.1667	B	0.948	0.000	0.000	9.824	0.000	0.06
		C		0.000	0.000	14.128	0.000	0.20
		A		0.000	0.000	12.920	0.000	0.11
L17	95.1667-94.5000	B	0.945	0.000	0.000	12.920	0.000	0.07
		C		0.000	0.000	18.579	0.000	0.27
		A		0.000	0.000	1.308	0.000	0.01
L18	94.5000-93.7500	B	0.944	0.000	0.000	1.308	0.000	0.01
		C		0.000	0.000	1.882	0.000	0.03
		A		0.000	0.000	1.471	0.000	0.01
L19	93.7500-93.5000	B	0.943	0.000	0.000	1.471	0.000	0.01
		C		0.000	0.000	2.115	0.000	0.03
		A		0.000	0.000	0.490	0.000	0.00
L20	93.5000-92.7500	B	0.943	0.000	0.000	0.490	0.000	0.00
		C		0.000	0.000	0.705	0.000	0.01
		A		0.000	0.000	1.470	0.000	0.01
L21	92.7500-92.5000	B	0.942	0.000	0.000	1.470	0.000	0.01
		C		0.000	0.000	2.114	0.000	0.03
		A		0.000	0.000	0.490	0.000	0.00
L22	92.5000-91.2500	B	0.942	0.000	0.000	0.490	0.000	0.00
		C		0.000	0.000	0.705	0.000	0.01
		A		0.000	0.000	2.450	0.000	0.02
L23	91.2500-91.0000	B	0.941	0.000	0.000	2.450	0.000	0.01
		C		0.000	0.000	3.522	0.000	0.05
		A		0.000	0.000	0.490	0.000	0.00
L24	91.0000-89.2500	B	0.940	0.000	0.000	0.490	0.000	0.00
		C		0.000	0.000	0.704	0.000	0.01
		A		0.000	0.000	3.429	0.000	0.03
L25	89.2500-89.0000	B	0.939	0.000	0.000	3.429	0.000	0.02
		C		0.000	0.000	4.929	0.000	0.07
		A		0.000	0.000	0.573	0.000	0.00
L26	89.0000-85.7500	B	0.937	0.000	0.000	0.573	0.000	0.00
		C		0.000	0.000	0.787	0.000	0.01
		A		0.000	0.000	7.447	0.000	0.06
L27	85.7500-85.5000	B	0.935	0.000	0.000	7.447	0.000	0.04
		C		0.000	0.000	10.232	0.000	0.14
		A		0.000	0.000	0.573	0.000	0.00
L28	85.5000-80.5000	B	0.932	0.000	0.000	0.573	0.000	0.00
		C		0.000	0.000	0.787	0.000	0.01
		A		0.000	0.000	11.448	0.000	0.09
L29	80.5000-75.5000	B	0.926	0.000	0.000	11.448	0.000	0.06
		C		0.000	0.000	15.725	0.000	0.21
		A		0.000	0.000	11.436	0.000	0.09
L30	75.5000-70.5000	B	0.920	0.000	0.000	11.436	0.000	0.06
		C		0.000	0.000	15.706	0.000	0.21
		A		0.000	0.000	11.445	0.000	0.09
L31	70.5000-68.0830	B	0.915	0.000	0.000	11.445	0.000	0.06
		C		0.000	0.000	15.707	0.000	0.21
		A		0.000	0.000	6.122	0.000	0.05
L32	68.0830-67.8330	B	0.914	0.000	0.000	6.122	0.000	0.03
		C		0.000	0.000	8.180	0.000	0.10
		A		0.000	0.000	0.633	0.000	0.00
L33	67.8330-67.0000	B	0.913	0.000	0.000	0.633	0.000	0.00
		C		0.000	0.000	0.846	0.000	0.01
		A		0.000	0.000	2.109	0.000	0.02
L34	67.0000-66.7500	B	0.912	0.000	0.000	2.109	0.000	0.01
		C		0.000	0.000	2.818	0.000	0.04
		A		0.000	0.000	0.633	0.000	0.00
L35	66.7500-63.2500	B	0.910	0.000	0.000	0.633	0.000	0.00
		C		0.000	0.000	0.846	0.000	0.01
		A		0.000	0.000	8.857	0.000	0.07
L36	63.2500-63.0000	B	0.907	0.000	0.000	8.857	0.000	0.05
		C		0.000	0.000	11.831	0.000	0.15
		A		0.000	0.000	0.632	0.000	0.00

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
		B		0.000	0.000	0.632	0.000	0.00
		C		0.000	0.000	0.845	0.000	0.01
L37	63.0000-59.5000	A	0.904	0.000	0.000	8.849	0.000	0.06
		B		0.000	0.000	8.849	0.000	0.05
		C		0.000	0.000	11.819	0.000	0.15
L38	59.5000-59.2500	A	0.901	0.000	0.000	0.673	0.000	0.00
		B		0.000	0.000	0.673	0.000	0.00
		C		0.000	0.000	0.885	0.000	0.01
L39	59.2500-56.2500	A	0.899	0.000	0.000	8.079	0.000	0.06
		B		0.000	0.000	8.079	0.000	0.04
		C		0.000	0.000	10.620	0.000	0.13
L40	56.2500-56.0000	A	0.896	0.000	0.000	0.673	0.000	0.00
		B		0.000	0.000	0.673	0.000	0.00
		C		0.000	0.000	0.885	0.000	0.01
L41	56.0000-55.7500	A	0.896	0.000	0.000	0.673	0.000	0.00
		B		0.000	0.000	0.673	0.000	0.00
		C		0.000	0.000	0.885	0.000	0.01
L42	55.7500-50.7500	A	0.892	0.000	0.000	13.450	0.000	0.10
		B		0.000	0.000	13.450	0.000	0.07
		C		0.000	0.000	17.677	0.000	0.21
L43	50.7500-44.6667	A	0.882	0.000	0.000	16.340	0.000	0.11
		B		0.000	0.000	16.340	0.000	0.08
		C		0.000	0.000	21.468	0.000	0.26
L44	44.6667-43.6667	A	0.875	0.000	0.000	2.686	0.000	0.02
		B		0.000	0.000	2.686	0.000	0.01
		C		0.000	0.000	3.529	0.000	0.04
L45	43.6667-38.6667	A	0.869	0.000	0.000	13.405	0.000	0.09
		B		0.000	0.000	13.405	0.000	0.07
		C		0.000	0.000	17.603	0.000	0.21
L46	38.6667-34.5000	A	0.859	0.000	0.000	11.154	0.000	0.08
		B		0.000	0.000	11.154	0.000	0.05
		C		0.000	0.000	14.642	0.000	0.17
L47	34.5000-34.2500	A	0.853	0.000	0.000	0.669	0.000	0.00
		B		0.000	0.000	0.669	0.000	0.00
		C		0.000	0.000	0.878	0.000	0.01
L48	34.2500-33.0000	A	0.852	0.000	0.000	3.342	0.000	0.02
		B		0.000	0.000	3.342	0.000	0.02
		C		0.000	0.000	4.387	0.000	0.05
L49	33.0000-32.7500	A	0.850	0.000	0.000	0.668	0.000	0.00
		B		0.000	0.000	0.668	0.000	0.00
		C		0.000	0.000	0.877	0.000	0.01
L50	32.7500-29.7500	A	0.845	0.000	0.000	8.014	0.000	0.05
		B		0.000	0.000	8.014	0.000	0.04
		C		0.000	0.000	10.516	0.000	0.12
L51	29.7500-29.5000	A	0.841	0.000	0.000	0.709	0.000	0.00
		B		0.000	0.000	0.709	0.000	0.00
		C		0.000	0.000	0.917	0.000	0.01
L52	29.5000-25.0000	A	0.834	0.000	0.000	12.751	0.000	0.08
		B		0.000	0.000	12.751	0.000	0.06
		C		0.000	0.000	16.490	0.000	0.19
L53	25.0000-24.7500	A	0.826	0.000	0.000	0.708	0.000	0.00
		B		0.000	0.000	0.708	0.000	0.00
		C		0.000	0.000	0.915	0.000	0.01
L54	24.7500-19.7500	A	0.817	0.000	0.000	14.134	0.000	0.09
		B		0.000	0.000	14.134	0.000	0.06
		C		0.000	0.000	18.268	0.000	0.21
L55	19.7500-14.7500	A	0.797	0.000	0.000	14.093	0.000	0.09
		B		0.000	0.000	14.093	0.000	0.06
		C		0.000	0.000	18.661	0.000	0.21
L56	14.7500-14.5000	A	0.784	0.000	0.000	0.703	0.000	0.00
		B		0.000	0.000	0.703	0.000	0.00
		C		0.000	0.000	0.999	0.000	0.01
L57	14.5000-14.2500	A	0.782	0.000	0.000	0.703	0.000	0.00
		B		0.000	0.000	0.703	0.000	0.00
		C		0.000	0.000	0.999	0.000	0.01
L58	14.2500-12.2500	A	0.776	0.000	0.000	5.621	0.000	0.04
		B		0.000	0.000	5.876	0.000	0.03
		C		0.000	0.000	7.981	0.000	0.09
L59	12.2500-12.0000	A	0.769	0.000	0.000	0.702	0.000	0.00

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L60	12.0000-11.5000	B	0.767	0.000	0.000	0.787	0.000	0.00
		C		0.000	0.000	0.996	0.000	0.01
		A		0.000	0.000	1.403	0.000	0.01
L61	11.5000-11.2500	B	0.764	0.000	0.000	1.573	0.000	0.01
		C		0.000	0.000	1.991	0.000	0.02
		A		0.000	0.000	0.701	0.000	0.00
L62	11.2500-9.2500	B	0.756	0.000	0.000	0.786	0.000	0.00
		C		0.000	0.000	0.995	0.000	0.01
		A		0.000	0.000	5.605	0.000	0.03
L63	9.2500-9.0000	B	0.747	0.000	0.000	6.279	0.000	0.03
		C		0.000	0.000	7.947	0.000	0.09
		A		0.000	0.000	0.700	0.000	0.00
L64	9.0000-4.5000	B	0.725	0.000	0.000	0.784	0.000	0.00
		C		0.000	0.000	0.992	0.000	0.01
		A		0.000	0.000	12.947	0.000	0.06
L65	4.5000-4.2500	B	0.694	0.000	0.000	14.049	0.000	0.07
		C		0.000	0.000	14.949	0.000	0.11
		A		0.000	0.000	0.759	0.000	0.00
L66	4.2500-3.0000	B	0.682	0.000	0.000	0.776	0.000	0.00
		C		0.000	0.000	0.781	0.000	0.00
		A		0.000	0.000	3.785	0.000	0.02
L67	3.0000-2.7500	B	0.666	0.000	0.000	3.872	0.000	0.02
		C		0.000	0.000	3.897	0.000	0.02
		A		0.000	0.000	0.755	0.000	0.00
L68	2.7500-0.0000	B	0.618	0.000	0.000	0.772	0.000	0.00
		C		0.000	0.000	0.777	0.000	0.00
		A		0.000	0.000	8.235	0.000	0.04
		B		0.000	0.000	8.422	0.000	0.04
		C		0.000	0.000	8.468	0.000	0.04

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	150.0000-145.0000	0.0000	0.0000	0.0000	0.0000
L2	145.0000-140.0000	0.0000	0.0000	0.0000	0.0000
L3	140.0000-135.0000	0.0000	0.0000	0.0000	0.0000
L4	135.0000-133.0000	0.0000	0.0000	0.0000	0.0000
L5	133.0000-132.7500	0.0000	0.0000	0.0000	0.0000
L6	132.7500-127.7500	0.0566	0.0412	0.0746	0.0542
L7	127.7500-123.7500	0.8600	0.6249	1.0479	0.7613
L8	123.7500-123.5000	0.6549	0.4758	0.8259	0.6001
L9	123.5000-118.7500	0.6657	0.4837	0.8397	0.6101
L10	118.7500-118.5000	0.6763	0.4914	0.8531	0.6198
L11	118.5000-117.0000	0.6796	0.4938	0.8574	0.6230
L12	117.0000-116.7500	0.6823	0.4957	0.8610	0.6255
L13	116.7500-111.7500	0.6923	0.5030	0.8738	0.6349
L14	111.7500-106.7500	0.7112	0.5167	0.8980	0.6525
L15	106.7500-101.7500	0.7296	0.5301	0.9217	0.6697

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L16	101.7500-95.1667	0.7506	0.5453	0.9486	0.6892
L17	95.1667-94.5000	0.7568	0.5498	0.9566	0.6950
L18	94.5000-93.7500	0.7593	0.5517	0.9594	0.6971
L19	93.7500-93.5000	0.7614	0.5532	0.9621	0.6990
L20	93.5000-92.7500	0.7632	0.5545	0.9644	0.7007
L21	92.7500-92.5000	0.7656	0.5562	0.9674	0.7029
L22	92.5000-91.2500	0.7682	0.5581	0.9707	0.7052
L23	91.2500-91.0000	0.7708	0.5600	0.9741	0.7077
L24	91.0000-89.2500	0.7743	0.5626	0.9785	0.7109
L25	89.2500-89.0000	0.6858	0.4982	0.8949	0.6502
L26	89.0000-85.7500	0.6914	0.5023	0.9021	0.6554
L27	85.7500-85.5000	0.6962	0.5058	0.9084	0.6600
L28	85.5000-80.5000	0.7045	0.5118	0.9190	0.6677
L29	80.5000-75.5000	0.7201	0.5232	0.9390	0.6822
L30	75.5000-70.5000	0.7343	0.5335	0.9576	0.6957
L31	70.5000-68.0830	0.6877	0.4996	0.9132	0.6635
L32	68.0830-67.8330	0.6916	0.5025	0.9182	0.6671
L33	67.8330-67.0000	0.6931	0.5036	0.9202	0.6686
L34	67.0000-66.7500	0.6951	0.5050	0.9227	0.6704
L35	66.7500-63.2500	0.7004	0.5089	0.9295	0.6753
L36	63.2500-63.0000	0.7060	0.5130	0.9366	0.6805
L37	63.0000-59.5000	0.7112	0.5168	0.9432	0.6853
L38	59.5000-59.2500	0.6812	0.4949	0.9131	0.6634
L39	59.2500-56.2500	0.6856	0.4981	0.9185	0.6674
L40	56.2500-56.0000	0.6896	0.5010	0.9237	0.6711
L41	56.0000-55.7500	0.6899	0.5012	0.9239	0.6713
L42	55.7500-50.7500	0.6968	0.5063	0.9326	0.6776
L43	50.7500-44.6667	0.7113	0.5168	0.9507	0.6907
L44	44.6667-43.6667	0.7120	0.5173	0.9517	0.6914
L45	43.6667-38.6667	0.7197	0.5229	0.9600	0.6975
L46	38.6667-34.5000	0.7314	0.5314	0.9741	0.7077
L47	34.5000-34.2500	0.7375	0.5358	0.9814	0.7130
L48	34.2500-33.0000	0.7394	0.5372	0.9836	0.7146
L49	33.0000-32.7500	0.7413	0.5386	0.9858	0.7163
L50	32.7500-29.7500	0.7453	0.5415	0.9905	0.7197
L51	29.7500-29.5000	0.7155	0.5199	0.9592	0.6969
L52	29.5000-25.0000	0.7212	0.5240	0.9657	0.7016
L53	25.0000-24.7500	0.7265	0.5278	0.9715	0.7058
L54	24.7500-19.7500	0.7327	0.5323	0.9783	0.7108
L55	19.7500-14.7500	0.7410	0.6450	0.9840	0.8663
L56	14.7500-14.5000	0.7370	0.9559	0.9710	1.2960
L57	14.5000-14.2500	0.7375	0.9566	0.9715	1.2965
L58	14.2500-12.2500	0.8716	0.8745	1.1437	1.1841
L59	12.2500-12.0000	1.0895	0.7378	1.4215	1.0001
L60	12.0000-11.5000	1.0907	0.7387	1.4224	1.0006
L61	11.5000-11.2500	1.0922	0.7397	1.4236	1.0013
L62	11.2500-9.2500	1.0958	0.7421	1.4260	1.0026
L63	9.2500-9.0000	1.0993	0.7445	1.4279	1.0035
L64	9.0000-4.5000	0.4459	0.2826	0.5908	0.4116
L65	4.5000-4.2500	0.0829	0.0479	0.1066	0.0967
L66	4.2500-3.0000	0.0831	0.0480	0.1065	0.0958
L67	3.0000-2.7500	0.0832	0.0481	0.1063	0.0946
L68	2.7500-0.0000	0.0836	0.0483	0.1054	0.0910

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
L4	32	4.5" x 1" Flate Plate	133.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			135.00		
L4	33	4.5" x 1" Flate Plate	133.00 - 135.00	1.0000	1.0000
L4	34	4.5" x 1" Flate Plate	133.00 - 135.00	1.0000	1.0000
L5	32	4.5" x 1" Flate Plate	132.75 - 133.00	1.0000	1.0000
L5	33	4.5" x 1" Flate Plate	132.75 - 133.00	1.0000	1.0000
L5	34	4.5" x 1" Flate Plate	132.75 - 133.00	1.0000	1.0000
L6	11	HCS 6X12 4AWG(1-5/8)	127.75 - 128.00	1.0000	1.0000
L6	32	4.5" x 1" Flate Plate	127.75 - 132.75	1.0000	1.0000
L6	33	4.5" x 1" Flate Plate	127.75 - 132.75	1.0000	1.0000
L6	34	4.5" x 1" Flate Plate	127.75 - 132.75	1.0000	1.0000
L7	11	HCS 6X12 4AWG(1-5/8)	123.75 - 127.75	1.0000	1.0000
L7	16	5" x 1-1/4" Flate Plate	123.75 - 125.00	1.0000	1.0000
L7	21	5" x 1-1/4" Flate Plate	123.75 - 125.00	1.0000	1.0000
L7	26	5" x 1-1/4" Flate Plate	123.75 - 125.00	1.0000	1.0000
L7	32	4.5" x 1" Flate Plate	123.75 - 127.75	1.0000	1.0000
L7	33	4.5" x 1" Flate Plate	123.75 - 127.75	1.0000	1.0000
L7	34	4.5" x 1" Flate Plate	123.75 - 127.75	1.0000	1.0000
L8	11	HCS 6X12 4AWG(1-5/8)	123.50 - 123.75	1.0000	1.0000
L8	16	5" x 1-1/4" Flate Plate	123.50 - 123.75	1.0000	1.0000
L8	21	5" x 1-1/4" Flate Plate	123.50 - 123.75	1.0000	1.0000
L8	26	5" x 1-1/4" Flate Plate	123.50 - 123.75	1.0000	1.0000
L8	32	4.5" x 1" Flate Plate	123.50 - 123.75	1.0000	1.0000
L8	33	4.5" x 1" Flate Plate	123.50 - 123.75	1.0000	1.0000
L8	34	4.5" x 1" Flate Plate	123.50 - 123.75	1.0000	1.0000
L9	11	HCS 6X12 4AWG(1-5/8)	118.75 - 123.50	1.0000	1.0000
L9	16	5" x 1-1/4" Flate Plate	118.75 - 123.50	1.0000	1.0000
L9	21	5" x 1-1/4" Flate Plate	118.75 - 123.50	1.0000	1.0000
L9	26	5" x 1-1/4" Flate Plate	118.75 - 123.50	1.0000	1.0000
L9	32	4.5" x 1" Flate Plate	118.75 - 123.50	1.0000	1.0000
L9	33	4.5" x 1" Flate Plate	118.75 - 123.50	1.0000	1.0000
L9	34	4.5" x 1" Flate Plate	118.75 - 123.50	1.0000	1.0000
L10	11	HCS 6X12 4AWG(1-5/8)	118.50 - 118.75	1.0000	1.0000
L10	16	5" x 1-1/4" Flate Plate	118.50 - 118.75	1.0000	1.0000
L10	21	5" x 1-1/4" Flate Plate	118.50 - 118.75	1.0000	1.0000
L10	26	5" x 1-1/4" Flate Plate	118.50 - 118.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L10	32	4.5" x 1" Flate Plate	118.50 - 118.75	1.0000	1.0000
L10	33	4.5" x 1" Flate Plate	118.50 - 118.75	1.0000	1.0000
L10	34	4.5" x 1" Flate Plate	118.50 - 118.75	1.0000	1.0000
L11	11	HCS 6X12 4AWG(1-5/8)	117.00 - 118.50	1.0000	1.0000
L11	16	5" x 1-1/4" Flate Plate	117.00 - 118.50	1.0000	1.0000
L11	21	5" x 1-1/4" Flate Plate	117.00 - 118.50	1.0000	1.0000
L11	26	5" x 1-1/4" Flate Plate	117.00 - 118.50	1.0000	1.0000
L11	32	4.5" x 1" Flate Plate	117.00 - 118.50	1.0000	1.0000
L11	33	4.5" x 1" Flate Plate	117.00 - 118.50	1.0000	1.0000
L11	34	4.5" x 1" Flate Plate	117.00 - 118.50	1.0000	1.0000
L12	11	HCS 6X12 4AWG(1-5/8)	116.75 - 117.00	1.0000	1.0000
L12	16	5" x 1-1/4" Flate Plate	116.75 - 117.00	1.0000	1.0000
L12	21	5" x 1-1/4" Flate Plate	116.75 - 117.00	1.0000	1.0000
L12	26	5" x 1-1/4" Flate Plate	116.75 - 117.00	1.0000	1.0000
L12	32	4.5" x 1" Flate Plate	116.75 - 117.00	1.0000	1.0000
L12	33	4.5" x 1" Flate Plate	116.75 - 117.00	1.0000	1.0000
L12	34	4.5" x 1" Flate Plate	116.75 - 117.00	1.0000	1.0000
L13	11	HCS 6X12 4AWG(1-5/8)	111.75 - 116.75	1.0000	1.0000
L13	16	5" x 1-1/4" Flate Plate	111.75 - 116.75	1.0000	1.0000
L13	21	5" x 1-1/4" Flate Plate	111.75 - 116.75	1.0000	1.0000
L13	26	5" x 1-1/4" Flate Plate	111.75 - 116.75	1.0000	1.0000
L13	32	4.5" x 1" Flate Plate	111.75 - 116.75	1.0000	1.0000
L13	33	4.5" x 1" Flate Plate	111.75 - 116.75	1.0000	1.0000
L13	34	4.5" x 1" Flate Plate	111.75 - 116.75	1.0000	1.0000
L14	11	HCS 6X12 4AWG(1-5/8)	106.75 - 111.75	1.0000	1.0000
L14	16	5" x 1-1/4" Flate Plate	106.75 - 111.75	1.0000	1.0000
L14	21	5" x 1-1/4" Flate Plate	106.75 - 111.75	1.0000	1.0000
L14	26	5" x 1-1/4" Flate Plate	106.75 - 111.75	1.0000	1.0000
L14	32	4.5" x 1" Flate Plate	106.75 - 111.75	1.0000	1.0000
L14	33	4.5" x 1" Flate Plate	106.75 - 111.75	1.0000	1.0000
L14	34	4.5" x 1" Flate Plate	106.75 - 111.75	1.0000	1.0000
L15	11	HCS 6X12 4AWG(1-5/8)	101.75 - 106.75	1.0000	1.0000
L15	16	5" x 1-1/4" Flate Plate	101.75 - 106.75	1.0000	1.0000
L15	21	5" x 1-1/4" Flate Plate	101.75 - 106.75	1.0000	1.0000
L15	26	5" x 1-1/4" Flate Plate	101.75 - 106.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L15	32	4.5" x 1" Flate Plate	106.75 - 101.75	1.0000	1.0000
L15	33	4.5" x 1" Flate Plate	106.75 - 101.75	1.0000	1.0000
L15	34	4.5" x 1" Flate Plate	106.75 - 101.75	1.0000	1.0000
L16	11	HCS 6X12 4AWG(1-5/8)	106.75 - 95.17	1.0000	1.0000
L16	16	5" x 1-1/4" Flate Plate	95.17 - 101.75	1.0000	1.0000
L16	21	5" x 1-1/4" Flate Plate	101.75 - 95.17	1.0000	1.0000
L16	26	5" x 1-1/4" Flate Plate	95.17 - 101.75	1.0000	1.0000
L16	32	4.5" x 1" Flate Plate	101.75 - 95.17	1.0000	1.0000
L16	33	4.5" x 1" Flate Plate	95.17 - 101.75	1.0000	1.0000
L16	34	4.5" x 1" Flate Plate	101.75 - 95.17	1.0000	1.0000
L17	11	HCS 6X12 4AWG(1-5/8)	94.50 - 95.17	1.0000	1.0000
L17	16	5" x 1-1/4" Flate Plate	95.17 - 94.50	1.0000	1.0000
L17	21	5" x 1-1/4" Flate Plate	94.50 - 95.17	1.0000	1.0000
L17	26	5" x 1-1/4" Flate Plate	95.17 - 94.50	1.0000	1.0000
L17	32	4.5" x 1" Flate Plate	94.50 - 95.17	1.0000	1.0000
L17	33	4.5" x 1" Flate Plate	95.17 - 94.50	1.0000	1.0000
L17	34	4.5" x 1" Flate Plate	94.50 - 95.17	1.0000	1.0000
L18	11	HCS 6X12 4AWG(1-5/8)	93.75 - 94.50	1.0000	1.0000
L18	16	5" x 1-1/4" Flate Plate	94.50 - 93.75	1.0000	1.0000
L18	21	5" x 1-1/4" Flate Plate	93.75 - 94.50	1.0000	1.0000
L18	26	5" x 1-1/4" Flate Plate	94.50 - 93.75	1.0000	1.0000
L18	32	4.5" x 1" Flate Plate	93.75 - 94.50	1.0000	1.0000
L18	33	4.5" x 1" Flate Plate	94.50 - 93.75	1.0000	1.0000
L18	34	4.5" x 1" Flate Plate	93.75 - 94.50	1.0000	1.0000
L19	11	HCS 6X12 4AWG(1-5/8)	93.50 - 93.75	1.0000	1.0000
L19	16	5" x 1-1/4" Flate Plate	93.75 - 93.50	1.0000	1.0000
L19	21	5" x 1-1/4" Flate Plate	93.50 - 93.75	1.0000	1.0000
L19	26	5" x 1-1/4" Flate Plate	93.75 - 93.50	1.0000	1.0000
L19	32	4.5" x 1" Flate Plate	93.50 - 93.75	1.0000	1.0000
L19	33	4.5" x 1" Flate Plate	93.75 - 93.50	1.0000	1.0000
L19	34	4.5" x 1" Flate Plate	93.50 - 93.75	1.0000	1.0000
L20	11	HCS 6X12 4AWG(1-5/8)	92.75 - 93.50	1.0000	1.0000
L20	16	5" x 1-1/4" Flate Plate	93.50 - 92.75	1.0000	1.0000
L20	21	5" x 1-1/4" Flate Plate	92.75 - 93.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L20	26	5" x 1-1/4" Flate Plate	92.75 - 93.50	1.0000	1.0000
L20	32	4.5" x 1" Flate Plate	92.75 - 93.50	1.0000	1.0000
L20	33	4.5" x 1" Flate Plate	92.75 - 93.50	1.0000	1.0000
L20	34	4.5" x 1" Flate Plate	92.75 - 93.50	1.0000	1.0000
L21	11	HCS 6X12 4AWG(1-5/8)	92.50 - 92.75	1.0000	1.0000
L21	16	5" x 1-1/4" Flate Plate	92.50 - 92.75	1.0000	1.0000
L21	21	5" x 1-1/4" Flate Plate	92.50 - 92.75	1.0000	1.0000
L21	26	5" x 1-1/4" Flate Plate	92.50 - 92.75	1.0000	1.0000
L21	32	4.5" x 1" Flate Plate	92.50 - 92.75	1.0000	1.0000
L21	33	4.5" x 1" Flate Plate	92.50 - 92.75	1.0000	1.0000
L21	34	4.5" x 1" Flate Plate	92.50 - 92.75	1.0000	1.0000
L22	11	HCS 6X12 4AWG(1-5/8)	91.25 - 92.50	1.0000	1.0000
L22	16	5" x 1-1/4" Flate Plate	91.25 - 92.50	1.0000	1.0000
L22	21	5" x 1-1/4" Flate Plate	91.25 - 92.50	1.0000	1.0000
L22	26	5" x 1-1/4" Flate Plate	91.25 - 92.50	1.0000	1.0000
L22	32	4.5" x 1" Flate Plate	91.25 - 92.50	1.0000	1.0000
L22	33	4.5" x 1" Flate Plate	91.25 - 92.50	1.0000	1.0000
L22	34	4.5" x 1" Flate Plate	91.25 - 92.50	1.0000	1.0000
L23	11	HCS 6X12 4AWG(1-5/8)	91.00 - 91.25	1.0000	1.0000
L23	16	5" x 1-1/4" Flate Plate	91.00 - 91.25	1.0000	1.0000
L23	21	5" x 1-1/4" Flate Plate	91.00 - 91.25	1.0000	1.0000
L23	26	5" x 1-1/4" Flate Plate	91.00 - 91.25	1.0000	1.0000
L23	32	4.5" x 1" Flate Plate	91.00 - 91.25	1.0000	1.0000
L23	33	4.5" x 1" Flate Plate	91.00 - 91.25	1.0000	1.0000
L23	34	4.5" x 1" Flate Plate	91.00 - 91.25	1.0000	1.0000
L24	11	HCS 6X12 4AWG(1-5/8)	89.25 - 91.00	1.0000	1.0000
L24	16	5" x 1-1/4" Flate Plate	89.25 - 91.00	1.0000	1.0000
L24	21	5" x 1-1/4" Flate Plate	89.25 - 91.00	1.0000	1.0000
L24	26	5" x 1-1/4" Flate Plate	89.25 - 91.00	1.0000	1.0000
L24	32	4.5" x 1" Flate Plate	89.25 - 91.00	1.0000	1.0000
L24	33	4.5" x 1" Flate Plate	89.25 - 91.00	1.0000	1.0000
L24	34	4.5" x 1" Flate Plate	89.25 - 91.00	1.0000	1.0000
L25	11	HCS 6X12 4AWG(1-5/8)	89.00 - 89.25	1.0000	1.0000
L25	15	7" x 1-1/4" Flate Plate	89.00 - 89.25	1.0000	1.0000
L25	20	7" x 1-1/4" Flate Plate	89.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L25	25	7" x 1-1/4" Flate Plate	89.25 89.00 - 89.25	1.0000	1.0000
L25	32	4.5" x 1" Flate Plate	89.00 - 89.25	1.0000	1.0000
L25	33	4.5" x 1" Flate Plate	89.00 - 89.25	1.0000	1.0000
L25	34	4.5" x 1" Flate Plate	89.00 - 89.25	1.0000	1.0000
L26	11	HCS 6X12 4AWG(1-5/8)	85.75 - 89.00	1.0000	1.0000
L26	15	7" x 1-1/4" Flate Plate	85.75 - 89.00	1.0000	1.0000
L26	20	7" x 1-1/4" Flate Plate	85.75 - 89.00	1.0000	1.0000
L26	25	7" x 1-1/4" Flate Plate	85.75 - 89.00	1.0000	1.0000
L26	32	4.5" x 1" Flate Plate	85.75 - 89.00	1.0000	1.0000
L26	33	4.5" x 1" Flate Plate	85.75 - 89.00	1.0000	1.0000
L26	34	4.5" x 1" Flate Plate	85.75 - 89.00	1.0000	1.0000
L27	11	HCS 6X12 4AWG(1-5/8)	85.50 - 85.75	1.0000	1.0000
L27	15	7" x 1-1/4" Flate Plate	85.50 - 85.75	1.0000	1.0000
L27	20	7" x 1-1/4" Flate Plate	85.50 - 85.75	1.0000	1.0000
L27	25	7" x 1-1/4" Flate Plate	85.50 - 85.75	1.0000	1.0000
L27	32	4.5" x 1" Flate Plate	85.50 - 85.75	1.0000	1.0000
L27	33	4.5" x 1" Flate Plate	85.50 - 85.75	1.0000	1.0000
L27	34	4.5" x 1" Flate Plate	85.50 - 85.75	1.0000	1.0000
L28	11	HCS 6X12 4AWG(1-5/8)	80.50 - 85.50	1.0000	1.0000
L28	15	7" x 1-1/4" Flate Plate	80.50 - 85.50	1.0000	1.0000
L28	20	7" x 1-1/4" Flate Plate	80.50 - 85.50	1.0000	1.0000
L28	25	7" x 1-1/4" Flate Plate	80.50 - 85.50	1.0000	1.0000
L28	32	4.5" x 1" Flate Plate	80.50 - 85.50	1.0000	1.0000
L28	33	4.5" x 1" Flate Plate	80.50 - 85.50	1.0000	1.0000
L28	34	4.5" x 1" Flate Plate	80.50 - 85.50	1.0000	1.0000
L29	11	HCS 6X12 4AWG(1-5/8)	75.50 - 80.50	1.0000	1.0000
L29	15	7" x 1-1/4" Flate Plate	75.50 - 80.50	1.0000	1.0000
L29	20	7" x 1-1/4" Flate Plate	75.50 - 80.50	1.0000	1.0000
L29	25	7" x 1-1/4" Flate Plate	75.50 - 80.50	1.0000	1.0000
L29	32	4.5" x 1" Flate Plate	75.50 - 80.50	1.0000	1.0000
L29	33	4.5" x 1" Flate Plate	75.50 - 80.50	1.0000	1.0000
L29	34	4.5" x 1" Flate Plate	75.50 - 80.50	1.0000	1.0000
L30	11	HCS 6X12 4AWG(1-5/8)	70.50 - 75.50	1.0000	1.0000
L30	15	7" x 1-1/4" Flate Plate	70.50 - 75.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L30	20	7" x 1-1/4" Flate Plate	70.50 - 75.50	1.0000	1.0000
L30	25	7" x 1-1/4" Flate Plate	70.50 - 75.50	1.0000	1.0000
L30	28	6" x 1" Flate Plate	70.50 - 70.58	1.0000	1.0000
L30	29	6" x 1" Flate Plate	70.50 - 70.58	1.0000	1.0000
L30	30	6" x 1" Flate Plate	70.50 - 70.58	1.0000	1.0000
L30	32	4.5" x 1" Flate Plate	70.58 - 75.50	1.0000	1.0000
L30	33	4.5" x 1" Flate Plate	70.58 - 75.50	1.0000	1.0000
L30	34	4.5" x 1" Flate Plate	70.58 - 75.50	1.0000	1.0000
L31	11	HCS 6X12 4AWG(1-5/8)	68.08 - 70.50	1.0000	1.0000
L31	15	7" x 1-1/4" Flate Plate	68.08 - 70.50	1.0000	1.0000
L31	20	7" x 1-1/4" Flate Plate	68.08 - 70.50	1.0000	1.0000
L31	25	7" x 1-1/4" Flate Plate	68.08 - 70.50	1.0000	1.0000
L31	28	6" x 1" Flate Plate	68.08 - 70.50	1.0000	1.0000
L31	29	6" x 1" Flate Plate	68.08 - 70.50	1.0000	1.0000
L31	30	6" x 1" Flate Plate	68.08 - 70.50	1.0000	1.0000
L32	11	HCS 6X12 4AWG(1-5/8)	67.83 - 68.08	1.0000	1.0000
L32	15	7" x 1-1/4" Flate Plate	67.83 - 68.08	1.0000	1.0000
L32	20	7" x 1-1/4" Flate Plate	67.83 - 68.08	1.0000	1.0000
L32	25	7" x 1-1/4" Flate Plate	67.83 - 68.08	1.0000	1.0000
L32	28	6" x 1" Flate Plate	67.83 - 68.08	1.0000	1.0000
L32	29	6" x 1" Flate Plate	67.83 - 68.08	1.0000	1.0000
L32	30	6" x 1" Flate Plate	67.83 - 68.08	1.0000	1.0000
L33	11	HCS 6X12 4AWG(1-5/8)	67.00 - 67.83	1.0000	1.0000
L33	15	7" x 1-1/4" Flate Plate	67.00 - 67.83	1.0000	1.0000
L33	20	7" x 1-1/4" Flate Plate	67.00 - 67.83	1.0000	1.0000
L33	25	7" x 1-1/4" Flate Plate	67.00 - 67.83	1.0000	1.0000
L33	28	6" x 1" Flate Plate	67.00 - 67.83	1.0000	1.0000
L33	29	6" x 1" Flate Plate	67.00 - 67.83	1.0000	1.0000
L33	30	6" x 1" Flate Plate	67.00 - 67.83	1.0000	1.0000
L34	11	HCS 6X12 4AWG(1-5/8)	66.75 - 67.00	1.0000	1.0000
L34	15	7" x 1-1/4" Flate Plate	66.75 - 67.00	1.0000	1.0000
L34	20	7" x 1-1/4" Flate Plate	66.75 - 67.00	1.0000	1.0000
L34	25	7" x 1-1/4" Flate Plate	66.75 - 67.00	1.0000	1.0000
L34	28	6" x 1" Flate Plate	66.75 - 67.00	1.0000	1.0000
L34	29	6" x 1" Flate Plate	66.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L34	30	6" x 1" Flate Plate	67.00 66.75 - 67.00	1.0000	1.0000
L35	11	HCS 6X12 4AWG(1-5/8)	63.25 - 66.75	1.0000	1.0000
L35	15	7" x 1-1/4" Flate Plate	63.25 - 66.75	1.0000	1.0000
L35	20	7" x 1-1/4" Flate Plate	63.25 - 66.75	1.0000	1.0000
L35	25	7" x 1-1/4" Flate Plate	63.25 - 66.75	1.0000	1.0000
L35	28	6" x 1" Flate Plate	63.25 - 66.75	1.0000	1.0000
L35	29	6" x 1" Flate Plate	63.25 - 66.75	1.0000	1.0000
L35	30	6" x 1" Flate Plate	63.25 - 66.75	1.0000	1.0000
L36	11	HCS 6X12 4AWG(1-5/8)	63.00 - 63.25	1.0000	1.0000
L36	15	7" x 1-1/4" Flate Plate	63.00 - 63.25	1.0000	1.0000
L36	20	7" x 1-1/4" Flate Plate	63.00 - 63.25	1.0000	1.0000
L36	25	7" x 1-1/4" Flate Plate	63.00 - 63.25	1.0000	1.0000
L36	28	6" x 1" Flate Plate	63.00 - 63.25	1.0000	1.0000
L36	29	6" x 1" Flate Plate	63.00 - 63.25	1.0000	1.0000
L36	30	6" x 1" Flate Plate	63.00 - 63.25	1.0000	1.0000
L37	11	HCS 6X12 4AWG(1-5/8)	59.50 - 63.00	1.0000	1.0000
L37	15	7" x 1-1/4" Flate Plate	59.50 - 63.00	1.0000	1.0000
L37	20	7" x 1-1/4" Flate Plate	59.50 - 63.00	1.0000	1.0000
L37	25	7" x 1-1/4" Flate Plate	59.50 - 63.00	1.0000	1.0000
L37	28	6" x 1" Flate Plate	59.50 - 63.00	1.0000	1.0000
L37	29	6" x 1" Flate Plate	59.50 - 63.00	1.0000	1.0000
L37	30	6" x 1" Flate Plate	59.50 - 63.00	1.0000	1.0000
L38	11	HCS 6X12 4AWG(1-5/8)	59.25 - 59.50	1.0000	1.0000
L38	14	8" x 1-1/4" Flate Plate	59.25 - 59.50	1.0000	1.0000
L38	19	8" x 1-1/4" Flate Plate	59.25 - 59.50	1.0000	1.0000
L38	24	8" x 1-1/4" Flate Plate	59.25 - 59.50	1.0000	1.0000
L38	28	6" x 1" Flate Plate	59.25 - 59.50	1.0000	1.0000
L38	29	6" x 1" Flate Plate	59.25 - 59.50	1.0000	1.0000
L38	30	6" x 1" Flate Plate	59.25 - 59.50	1.0000	1.0000
L39	11	HCS 6X12 4AWG(1-5/8)	56.25 - 59.25	1.0000	1.0000
L39	14	8" x 1-1/4" Flate Plate	56.25 - 59.25	1.0000	1.0000
L39	19	8" x 1-1/4" Flate Plate	56.25 - 59.25	1.0000	1.0000
L39	24	8" x 1-1/4" Flate Plate	56.25 - 59.25	1.0000	1.0000
L39	28	6" x 1" Flate Plate	56.25 - 59.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L39	29	6" x 1" Flate Plate	56.25 - 59.25	1.0000	1.0000
L39	30	6" x 1" Flate Plate	56.25 - 59.25	1.0000	1.0000
L40	11	HCS 6X12 4AWG(1-5/8)	56.00 - 56.25	1.0000	1.0000
L40	14	8" x 1-1/4" Flate Plate	56.00 - 56.25	1.0000	1.0000
L40	19	8" x 1-1/4" Flate Plate	56.00 - 56.25	1.0000	1.0000
L40	24	8" x 1-1/4" Flate Plate	56.00 - 56.25	1.0000	1.0000
L40	28	6" x 1" Flate Plate	56.00 - 56.25	1.0000	1.0000
L40	29	6" x 1" Flate Plate	56.00 - 56.25	1.0000	1.0000
L40	30	6" x 1" Flate Plate	56.00 - 56.25	1.0000	1.0000
L41	11	HCS 6X12 4AWG(1-5/8)	55.75 - 56.00	1.0000	1.0000
L41	14	8" x 1-1/4" Flate Plate	55.75 - 56.00	1.0000	1.0000
L41	19	8" x 1-1/4" Flate Plate	55.75 - 56.00	1.0000	1.0000
L41	24	8" x 1-1/4" Flate Plate	55.75 - 56.00	1.0000	1.0000
L41	28	6" x 1" Flate Plate	55.75 - 56.00	1.0000	1.0000
L41	29	6" x 1" Flate Plate	55.75 - 56.00	1.0000	1.0000
L41	30	6" x 1" Flate Plate	55.75 - 56.00	1.0000	1.0000
L42	11	HCS 6X12 4AWG(1-5/8)	50.75 - 55.75	1.0000	1.0000
L42	14	8" x 1-1/4" Flate Plate	50.75 - 55.75	1.0000	1.0000
L42	19	8" x 1-1/4" Flate Plate	50.75 - 55.75	1.0000	1.0000
L42	24	8" x 1-1/4" Flate Plate	50.75 - 55.75	1.0000	1.0000
L42	28	6" x 1" Flate Plate	50.75 - 55.75	1.0000	1.0000
L42	29	6" x 1" Flate Plate	50.75 - 55.75	1.0000	1.0000
L42	30	6" x 1" Flate Plate	50.75 - 55.75	1.0000	1.0000
L43	11	HCS 6X12 4AWG(1-5/8)	44.67 - 50.75	1.0000	1.0000
L43	14	8" x 1-1/4" Flate Plate	44.67 - 50.75	1.0000	1.0000
L43	19	8" x 1-1/4" Flate Plate	44.67 - 50.75	1.0000	1.0000
L43	24	8" x 1-1/4" Flate Plate	44.67 - 50.75	1.0000	1.0000
L43	28	6" x 1" Flate Plate	44.67 - 50.75	1.0000	1.0000
L43	29	6" x 1" Flate Plate	44.67 - 50.75	1.0000	1.0000
L43	30	6" x 1" Flate Plate	44.67 - 50.75	1.0000	1.0000
L44	11	HCS 6X12 4AWG(1-5/8)	43.67 - 44.67	1.0000	1.0000
L44	14	8" x 1-1/4" Flate Plate	43.67 - 44.67	1.0000	1.0000
L44	19	8" x 1-1/4" Flate Plate	43.67 - 44.67	1.0000	1.0000
L44	24	8" x 1-1/4" Flate Plate	43.67 - 44.67	1.0000	1.0000
L44	28	6" x 1" Flate Plate	43.67 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L44	29	6" x 1" Flate Plate	44.67 43.67 - 44.67	1.0000	1.0000
L44	30	6" x 1" Flate Plate	43.67 - 44.67	1.0000	1.0000
L45	11	HCS 6X12 4AWG(1-5/8)	38.67 - 43.67	1.0000	1.0000
L45	14	8" x 1-1/4" Flate Plate	38.67 - 43.67	1.0000	1.0000
L45	19	8" x 1-1/4" Flate Plate	38.67 - 43.67	1.0000	1.0000
L45	24	8" x 1-1/4" Flate Plate	38.67 - 43.67	1.0000	1.0000
L45	28	6" x 1" Flate Plate	38.67 - 43.67	1.0000	1.0000
L45	29	6" x 1" Flate Plate	38.67 - 43.67	1.0000	1.0000
L45	30	6" x 1" Flate Plate	38.67 - 43.67	1.0000	1.0000
L46	11	HCS 6X12 4AWG(1-5/8)	34.50 - 38.67	1.0000	1.0000
L46	14	8" x 1-1/4" Flate Plate	34.50 - 38.67	1.0000	1.0000
L46	19	8" x 1-1/4" Flate Plate	34.50 - 38.67	1.0000	1.0000
L46	24	8" x 1-1/4" Flate Plate	34.50 - 38.67	1.0000	1.0000
L46	28	6" x 1" Flate Plate	34.50 - 38.67	1.0000	1.0000
L46	29	6" x 1" Flate Plate	34.50 - 38.67	1.0000	1.0000
L46	30	6" x 1" Flate Plate	34.50 - 38.67	1.0000	1.0000
L47	11	HCS 6X12 4AWG(1-5/8)	34.25 - 34.50	1.0000	1.0000
L47	14	8" x 1-1/4" Flate Plate	34.25 - 34.50	1.0000	1.0000
L47	19	8" x 1-1/4" Flate Plate	34.25 - 34.50	1.0000	1.0000
L47	24	8" x 1-1/4" Flate Plate	34.25 - 34.50	1.0000	1.0000
L47	28	6" x 1" Flate Plate	34.25 - 34.50	1.0000	1.0000
L47	29	6" x 1" Flate Plate	34.25 - 34.50	1.0000	1.0000
L47	30	6" x 1" Flate Plate	34.25 - 34.50	1.0000	1.0000
L48	11	HCS 6X12 4AWG(1-5/8)	33.00 - 34.25	1.0000	1.0000
L48	14	8" x 1-1/4" Flate Plate	33.00 - 34.25	1.0000	1.0000
L48	19	8" x 1-1/4" Flate Plate	33.00 - 34.25	1.0000	1.0000
L48	24	8" x 1-1/4" Flate Plate	33.00 - 34.25	1.0000	1.0000
L48	28	6" x 1" Flate Plate	33.00 - 34.25	1.0000	1.0000
L48	29	6" x 1" Flate Plate	33.00 - 34.25	1.0000	1.0000
L48	30	6" x 1" Flate Plate	33.00 - 34.25	1.0000	1.0000
L49	11	HCS 6X12 4AWG(1-5/8)	32.75 - 33.00	1.0000	1.0000
L49	14	8" x 1-1/4" Flate Plate	32.75 - 33.00	1.0000	1.0000
L49	19	8" x 1-1/4" Flate Plate	32.75 - 33.00	1.0000	1.0000
L49	24	8" x 1-1/4" Flate Plate	32.75 - 33.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L49	28	6" x 1" Flate Plate	32.75 - 33.00	1.0000	1.0000
L49	29	6" x 1" Flate Plate	32.75 - 33.00	1.0000	1.0000
L49	30	6" x 1" Flate Plate	32.75 - 33.00	1.0000	1.0000
L50	11	HCS 6X12 4AWG(1-5/8)	29.75 - 32.75	1.0000	1.0000
L50	14	8" x 1-1/4" Flate Plate	29.75 - 32.75	1.0000	1.0000
L50	19	8" x 1-1/4" Flate Plate	29.75 - 32.75	1.0000	1.0000
L50	24	8" x 1-1/4" Flate Plate	29.75 - 32.75	1.0000	1.0000
L50	28	6" x 1" Flate Plate	29.75 - 32.75	1.0000	1.0000
L50	29	6" x 1" Flate Plate	29.75 - 32.75	1.0000	1.0000
L50	30	6" x 1" Flate Plate	29.75 - 32.75	1.0000	1.0000
L51	11	HCS 6X12 4AWG(1-5/8)	29.50 - 29.75	1.0000	1.0000
L51	13	9" x 1-1/4" Flate Plate	29.50 - 29.75	1.0000	1.0000
L51	18	9" x 1-1/4" Flate Plate	29.50 - 29.75	1.0000	1.0000
L51	23	9" x 1-1/4" Flate Plate	29.50 - 29.75	1.0000	1.0000
L51	28	6" x 1" Flate Plate	29.50 - 29.75	1.0000	1.0000
L51	29	6" x 1" Flate Plate	29.50 - 29.75	1.0000	1.0000
L51	30	6" x 1" Flate Plate	29.50 - 29.75	1.0000	1.0000
L52	11	HCS 6X12 4AWG(1-5/8)	25.00 - 29.50	1.0000	1.0000
L52	13	9" x 1-1/4" Flate Plate	25.00 - 29.50	1.0000	1.0000
L52	18	9" x 1-1/4" Flate Plate	25.00 - 29.50	1.0000	1.0000
L52	23	9" x 1-1/4" Flate Plate	25.00 - 29.50	1.0000	1.0000
L52	28	6" x 1" Flate Plate	25.00 - 29.50	1.0000	1.0000
L52	29	6" x 1" Flate Plate	25.00 - 29.50	1.0000	1.0000
L52	30	6" x 1" Flate Plate	25.00 - 29.50	1.0000	1.0000
L53	11	HCS 6X12 4AWG(1-5/8)	24.75 - 25.00	1.0000	1.0000
L53	13	9" x 1-1/4" Flate Plate	24.75 - 25.00	1.0000	1.0000
L53	18	9" x 1-1/4" Flate Plate	24.75 - 25.00	1.0000	1.0000
L53	23	9" x 1-1/4" Flate Plate	24.75 - 25.00	1.0000	1.0000
L53	28	6" x 1" Flate Plate	24.75 - 25.00	1.0000	1.0000
L53	29	6" x 1" Flate Plate	24.75 - 25.00	1.0000	1.0000
L53	30	6" x 1" Flate Plate	24.75 - 25.00	1.0000	1.0000
L54	11	HCS 6X12 4AWG(1-5/8)	19.75 - 24.75	1.0000	1.0000
L54	13	9" x 1-1/4" Flate Plate	19.75 - 24.75	1.0000	1.0000
L54	18	9" x 1-1/4" Flate Plate	19.75 - 24.75	1.0000	1.0000
L54	23	9" x 1-1/4" Flate Plate	19.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L54	28	6" x 1" Flate Plate	24.75 19.75 - 24.75	1.0000	1.0000
L54	29	6" x 1" Flate Plate	19.75 - 24.75	1.0000	1.0000
L54	30	6" x 1" Flate Plate	19.75 - 24.75	1.0000	1.0000
L55	11	HCS 6X12 4AWG(1-5/8)	14.75 - 19.75	1.0000	1.0000
L55	13	9" x 1-1/4" Flate Plate	14.75 - 19.75	1.0000	1.0000
L55	18	9" x 1-1/4" Flate Plate	14.75 - 19.75	1.0000	1.0000
L55	23	9" x 1-1/4" Flate Plate	14.75 - 19.75	1.0000	1.0000
L55	28	6" x 1" Flate Plate	14.75 - 19.75	1.0000	1.0000
L55	29	6" x 1" Flate Plate	14.75 - 19.75	1.0000	1.0000
L55	30	6" x 1" Flate Plate	14.75 - 19.75	1.0000	1.0000
L55	38	Transition Stiffener	14.75 - 16.00	1.0000	1.0000
L56	11	HCS 6X12 4AWG(1-5/8)	14.50 - 14.75	1.0000	1.0000
L56	13	9" x 1-1/4" Flate Plate	14.50 - 14.75	1.0000	1.0000
L56	18	9" x 1-1/4" Flate Plate	14.50 - 14.75	1.0000	1.0000
L56	23	9" x 1-1/4" Flate Plate	14.50 - 14.75	1.0000	1.0000
L56	28	6" x 1" Flate Plate	14.50 - 14.75	1.0000	1.0000
L56	29	6" x 1" Flate Plate	14.50 - 14.75	1.0000	1.0000
L56	30	6" x 1" Flate Plate	14.50 - 14.75	1.0000	1.0000
L56	38	Transition Stiffener	14.50 - 14.75	1.0000	1.0000
L57	11	HCS 6X12 4AWG(1-5/8)	14.25 - 14.50	1.0000	1.0000
L57	13	9" x 1-1/4" Flate Plate	14.25 - 14.50	1.0000	1.0000
L57	18	9" x 1-1/4" Flate Plate	14.25 - 14.50	1.0000	1.0000
L57	23	9" x 1-1/4" Flate Plate	14.25 - 14.50	1.0000	1.0000
L57	28	6" x 1" Flate Plate	14.25 - 14.50	1.0000	1.0000
L57	29	6" x 1" Flate Plate	14.25 - 14.50	1.0000	1.0000
L57	30	6" x 1" Flate Plate	14.25 - 14.50	1.0000	1.0000
L57	38	Transition Stiffener	14.25 - 14.50	1.0000	1.0000
L58	11	HCS 6X12 4AWG(1-5/8)	12.25 - 14.25	1.0000	1.0000
L58	13	9" x 1-1/4" Flate Plate	12.25 - 14.25	1.0000	1.0000
L58	18	9" x 1-1/4" Flate Plate	12.25 - 14.25	1.0000	1.0000
L58	23	9" x 1-1/4" Flate Plate	12.25 - 14.25	1.0000	1.0000
L58	28	6" x 1" Flate Plate	12.25 - 14.25	1.0000	1.0000
L58	29	6" x 1" Flate Plate	12.25 - 14.25	1.0000	1.0000
L58	30	6" x 1" Flate Plate	12.25 - 14.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L58	37	Transition Stiffener	12.25 - 13.00	1.0000	1.0000
L58	38	Transition Stiffener	12.25 - 14.25	1.0000	1.0000
L59	11	HCS 6X12 4AWG(1-5/8)	12.00 - 12.25	1.0000	1.0000
L59	13	9" x 1-1/4" Flate Plate	12.00 - 12.25	1.0000	1.0000
L59	18	9" x 1-1/4" Flate Plate	12.00 - 12.25	1.0000	1.0000
L59	23	9" x 1-1/4" Flate Plate	12.00 - 12.25	1.0000	1.0000
L59	28	6" x 1" Flate Plate	12.00 - 12.25	1.0000	1.0000
L59	29	6" x 1" Flate Plate	12.00 - 12.25	1.0000	1.0000
L59	30	6" x 1" Flate Plate	12.00 - 12.25	1.0000	1.0000
L59	37	Transition Stiffener	12.00 - 12.25	1.0000	1.0000
L59	38	Transition Stiffener	12.00 - 12.25	1.0000	1.0000
L60	11	HCS 6X12 4AWG(1-5/8)	11.50 - 12.00	1.0000	1.0000
L60	13	9" x 1-1/4" Flate Plate	11.50 - 12.00	1.0000	1.0000
L60	18	9" x 1-1/4" Flate Plate	11.50 - 12.00	1.0000	1.0000
L60	23	9" x 1-1/4" Flate Plate	11.50 - 12.00	1.0000	1.0000
L60	28	6" x 1" Flate Plate	11.50 - 12.00	1.0000	1.0000
L60	29	6" x 1" Flate Plate	11.50 - 12.00	1.0000	1.0000
L60	30	6" x 1" Flate Plate	11.50 - 12.00	1.0000	1.0000
L60	37	Transition Stiffener	11.50 - 12.00	1.0000	1.0000
L60	38	Transition Stiffener	11.50 - 12.00	1.0000	1.0000
L61	11	HCS 6X12 4AWG(1-5/8)	11.25 - 11.50	1.0000	1.0000
L61	13	9" x 1-1/4" Flate Plate	11.25 - 11.50	1.0000	1.0000
L61	18	9" x 1-1/4" Flate Plate	11.25 - 11.50	1.0000	1.0000
L61	23	9" x 1-1/4" Flate Plate	11.25 - 11.50	1.0000	1.0000
L61	28	6" x 1" Flate Plate	11.25 - 11.50	1.0000	1.0000
L61	29	6" x 1" Flate Plate	11.25 - 11.50	1.0000	1.0000
L61	30	6" x 1" Flate Plate	11.25 - 11.50	1.0000	1.0000
L61	37	Transition Stiffener	11.25 - 11.50	1.0000	1.0000
L61	38	Transition Stiffener	11.25 - 11.50	1.0000	1.0000
L62	11	HCS 6X12 4AWG(1-5/8)	9.25 - 11.25	1.0000	1.0000
L62	13	9" x 1-1/4" Flate Plate	9.25 - 11.25	1.0000	1.0000
L62	18	9" x 1-1/4" Flate Plate	9.25 - 11.25	1.0000	1.0000
L62	23	9" x 1-1/4" Flate Plate	9.25 - 11.25	1.0000	1.0000
L62	28	6" x 1" Flate Plate	9.25 - 11.25	1.0000	1.0000
L62	29	6" x 1" Flate Plate	9.25 - 11.25	1.0000	1.0000
L62	30	6" x 1" Flate Plate	9.25 - 11.25	1.0000	1.0000
L62	37	Transition Stiffener	9.25 - 11.25	1.0000	1.0000
L62	38	Transition Stiffener	9.25 - 11.25	1.0000	1.0000
L63	11	HCS 6X12 4AWG(1-5/8)	9.00 - 9.25	1.0000	1.0000
L63	13	9" x 1-1/4" Flate Plate	9.00 - 9.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L63	18	9" x 1-1/4" Flate Plate	9.00 - 9.25	1.0000	1.0000
L63	23	9" x 1-1/4" Flate Plate	9.00 - 9.25	1.0000	1.0000
L63	28	6" x 1" Flate Plate	9.00 - 9.25	1.0000	1.0000
L63	29	6" x 1" Flate Plate	9.00 - 9.25	1.0000	1.0000
L63	30	6" x 1" Flate Plate	9.00 - 9.25	1.0000	1.0000
L63	37	Transition Stiffener	9.00 - 9.25	1.0000	1.0000
L63	38	Transition Stiffener	9.00 - 9.25	1.0000	1.0000
L64	11	HCS 6X12 4AWG(1-5/8)	8.00 - 9.00	1.0000	1.0000
L64	13	9" x 1-1/4" Flate Plate	4.50 - 9.00	1.0000	1.0000
L64	18	9" x 1-1/4" Flate Plate	4.50 - 9.00	1.0000	1.0000
L64	23	9" x 1-1/4" Flate Plate	4.50 - 9.00	1.0000	1.0000
L64	28	6" x 1" Flate Plate	4.50 - 9.00	1.0000	1.0000
L64	29	6" x 1" Flate Plate	4.50 - 9.00	1.0000	1.0000
L64	30	6" x 1" Flate Plate	4.50 - 9.00	1.0000	1.0000
L64	36	Transition Stiffener	4.50 - 6.00	1.0000	1.0000
L64	37	Transition Stiffener	4.50 - 9.00	1.0000	1.0000
L64	38	Transition Stiffener	4.50 - 9.00	1.0000	1.0000
L65	13	9" x 1-1/4" Flate Plate	4.25 - 4.50	1.0000	1.0000
L65	18	9" x 1-1/4" Flate Plate	4.25 - 4.50	1.0000	1.0000
L65	23	9" x 1-1/4" Flate Plate	4.25 - 4.50	1.0000	1.0000
L65	28	6" x 1" Flate Plate	4.25 - 4.50	1.0000	1.0000
L65	29	6" x 1" Flate Plate	4.25 - 4.50	1.0000	1.0000
L65	30	6" x 1" Flate Plate	4.25 - 4.50	1.0000	1.0000
L65	36	Transition Stiffener	4.25 - 4.50	1.0000	1.0000
L65	37	Transition Stiffener	4.25 - 4.50	1.0000	1.0000
L65	38	Transition Stiffener	4.25 - 4.50	1.0000	1.0000
L66	13	9" x 1-1/4" Flate Plate	3.00 - 4.25	1.0000	1.0000
L66	18	9" x 1-1/4" Flate Plate	3.00 - 4.25	1.0000	1.0000
L66	23	9" x 1-1/4" Flate Plate	3.00 - 4.25	1.0000	1.0000
L66	28	6" x 1" Flate Plate	3.00 - 4.25	1.0000	1.0000
L66	29	6" x 1" Flate Plate	3.00 - 4.25	1.0000	1.0000
L66	30	6" x 1" Flate Plate	3.00 - 4.25	1.0000	1.0000
L66	36	Transition Stiffener	3.00 - 4.25	1.0000	1.0000
L66	37	Transition Stiffener	3.00 - 4.25	1.0000	1.0000
L66	38	Transition Stiffener	3.00 - 4.25	1.0000	1.0000
L67	13	9" x 1-1/4" Flate Plate	2.75 - 3.00	1.0000	1.0000
L67	18	9" x 1-1/4" Flate Plate	2.75 - 3.00	1.0000	1.0000
L67	23	9" x 1-1/4" Flate Plate	2.75 - 3.00	1.0000	1.0000
L67	28	6" x 1" Flate Plate	2.75 - 3.00	1.0000	1.0000
L67	29	6" x 1" Flate Plate	2.75 - 3.00	1.0000	1.0000
L67	30	6" x 1" Flate Plate	2.75 - 3.00	1.0000	1.0000
L67	36	Transition Stiffener	2.75 - 3.00	1.0000	1.0000
L67	37	Transition Stiffener	2.75 - 3.00	1.0000	1.0000
L67	38	Transition Stiffener	2.75 - 3.00	1.0000	1.0000
L68	13	9" x 1-1/4" Flate Plate	0.00 - 2.75	1.0000	1.0000
L68	18	9" x 1-1/4" Flate Plate	0.00 - 2.75	1.0000	1.0000
L68	23	9" x 1-1/4" Flate Plate	0.00 - 2.75	1.0000	1.0000
L68	28	6" x 1" Flate Plate	0.00 - 2.75	1.0000	1.0000
L68	29	6" x 1" Flate Plate	0.00 - 2.75	1.0000	1.0000
L68	30	6" x 1" Flate Plate	0.00 - 2.75	1.0000	1.0000
L68	36	Transition Stiffener	0.00 - 2.75	1.0000	1.0000
L68	37	Transition Stiffener	0.00 - 2.75	1.0000	1.0000
L68	38	Transition Stiffener	0.00 - 2.75	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
L4	32	4.5" x 1" Flate Plate	133.00 -	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L4	33	4.5" x 1" Flate Plate	135.00 133.00 - 135.00	Auto	0.0000
L4	34	4.5" x 1" Flate Plate	133.00 - 135.00	Auto	0.0000
L5	32	4.5" x 1" Flate Plate	132.75 - 133.00	Auto	0.1239
L5	33	4.5" x 1" Flate Plate	132.75 - 133.00	Auto	0.1239
L5	34	4.5" x 1" Flate Plate	132.75 - 133.00	Auto	0.1239
L6	32	4.5" x 1" Flate Plate	127.75 - 132.75	Auto	0.0872
L6	33	4.5" x 1" Flate Plate	127.75 - 132.75	Auto	0.0872
L6	34	4.5" x 1" Flate Plate	127.75 - 132.75	Auto	0.0872
L7	16	5" x 1-1/4" Flate Plate	123.75 - 125.00	Auto	0.1127
L7	21	5" x 1-1/4" Flate Plate	123.75 - 125.00	Auto	0.1127
L7	26	5" x 1-1/4" Flate Plate	123.75 - 125.00	Auto	0.1127
L7	32	4.5" x 1" Flate Plate	123.75 - 127.75	Auto	0.0295
L7	33	4.5" x 1" Flate Plate	123.75 - 127.75	Auto	0.0295
L7	34	4.5" x 1" Flate Plate	123.75 - 127.75	Auto	0.0295
L8	16	5" x 1-1/4" Flate Plate	123.50 - 123.75	Auto	0.1052
L8	21	5" x 1-1/4" Flate Plate	123.50 - 123.75	Auto	0.1052
L8	26	5" x 1-1/4" Flate Plate	123.50 - 123.75	Auto	0.1052
L8	32	4.5" x 1" Flate Plate	123.50 - 123.75	Auto	0.0057
L8	33	4.5" x 1" Flate Plate	123.50 - 123.75	Auto	0.0057
L8	34	4.5" x 1" Flate Plate	123.50 - 123.75	Auto	0.0057
L9	16	5" x 1-1/4" Flate Plate	118.75 - 123.50	Auto	0.2609
L9	21	5" x 1-1/4" Flate Plate	118.75 - 123.50	Auto	0.2609
L9	26	5" x 1-1/4" Flate Plate	118.75 - 123.50	Auto	0.2609
L9	32	4.5" x 1" Flate Plate	118.75 - 123.50	Auto	0.1788
L9	33	4.5" x 1" Flate Plate	118.75 - 123.50	Auto	0.1788
L9	34	4.5" x 1" Flate Plate	118.75 - 123.50	Auto	0.1788
L10	16	5" x 1-1/4" Flate Plate	118.50 - 118.75	Auto	0.3832
L10	21	5" x 1-1/4" Flate Plate	118.50 - 118.75	Auto	0.3832
L10	26	5" x 1-1/4" Flate Plate	118.50 - 118.75	Auto	0.3832
L10	32	4.5" x 1" Flate Plate	118.50 - 118.75	Auto	0.3147
L10	33	4.5" x 1" Flate Plate	118.50 - 118.75	Auto	0.3147
L10	34	4.5" x 1" Flate Plate	118.50 - 118.75	Auto	0.3147
L11	16	5" x 1-1/4" Flate Plate	117.00 - 118.50	Auto	0.3610
L11	21	5" x 1-1/4" Flate Plate	117.00 -	Auto	0.3610

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L11	26	5" x 1-1/4" Flate Plate	118.50 117.00 - 118.50	Auto	0.3610
L11	32	4.5" x 1" Flate Plate	117.00 - 118.50	Auto	0.2900
L11	33	4.5" x 1" Flate Plate	117.00 - 118.50	Auto	0.2900
L11	34	4.5" x 1" Flate Plate	117.00 - 118.50	Auto	0.2900
L12	16	5" x 1-1/4" Flate Plate	116.75 - 117.00	Auto	0.2115
L12	21	5" x 1-1/4" Flate Plate	116.75 - 117.00	Auto	0.2115
L12	26	5" x 1-1/4" Flate Plate	116.75 - 117.00	Auto	0.2115
L12	32	4.5" x 1" Flate Plate	116.75 - 117.00	Auto	0.1239
L12	33	4.5" x 1" Flate Plate	116.75 - 117.00	Auto	0.1239
L12	34	4.5" x 1" Flate Plate	116.75 - 117.00	Auto	0.1239
L13	16	5" x 1-1/4" Flate Plate	111.75 - 116.75	Auto	0.1651
L13	21	5" x 1-1/4" Flate Plate	111.75 - 116.75	Auto	0.1651
L13	26	5" x 1-1/4" Flate Plate	111.75 - 116.75	Auto	0.1651
L13	32	4.5" x 1" Flate Plate	111.75 - 116.75	Auto	0.0723
L13	33	4.5" x 1" Flate Plate	111.75 - 116.75	Auto	0.0723
L13	34	4.5" x 1" Flate Plate	111.75 - 116.75	Auto	0.0723
L14	16	5" x 1-1/4" Flate Plate	106.75 - 111.75	Auto	0.1014
L14	21	5" x 1-1/4" Flate Plate	106.75 - 111.75	Auto	0.1014
L14	26	5" x 1-1/4" Flate Plate	106.75 - 111.75	Auto	0.1014
L14	32	4.5" x 1" Flate Plate	106.75 - 111.75	Auto	0.0078
L14	33	4.5" x 1" Flate Plate	106.75 - 111.75	Auto	0.0078
L14	34	4.5" x 1" Flate Plate	106.75 - 111.75	Auto	0.0078
L15	16	5" x 1-1/4" Flate Plate	101.75 - 106.75	Auto	0.0378
L15	21	5" x 1-1/4" Flate Plate	101.75 - 106.75	Auto	0.0378
L15	26	5" x 1-1/4" Flate Plate	101.75 - 106.75	Auto	0.0378
L15	32	4.5" x 1" Flate Plate	101.75 - 106.75	Auto	0.0000
L15	33	4.5" x 1" Flate Plate	101.75 - 106.75	Auto	0.0000
L15	34	4.5" x 1" Flate Plate	101.75 - 106.75	Auto	0.0000
L16	16	5" x 1-1/4" Flate Plate	95.17 - 101.75	Auto	0.0012
L16	21	5" x 1-1/4" Flate Plate	95.17 - 101.75	Auto	0.0012
L16	26	5" x 1-1/4" Flate Plate	95.17 - 101.75	Auto	0.0012
L16	32	4.5" x 1" Flate Plate	95.17 - 101.75	Auto	0.0000
L16	33	4.5" x 1" Flate Plate	95.17 - 101.75	Auto	0.0000
L16	34	4.5" x 1" Flate Plate	95.17 -	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L17	16	5" x 1-1/4" Flate Plate	101.75 94.50 - 95.17	Auto	0.0302
L17	21	5" x 1-1/4" Flate Plate	94.50 - 95.17	Auto	0.0302
L17	26	5" x 1-1/4" Flate Plate	94.50 - 95.17	Auto	0.0302
L17	32	4.5" x 1" Flate Plate	94.50 - 95.17	Auto	0.0000
L17	33	4.5" x 1" Flate Plate	94.50 - 95.17	Auto	0.0000
L17	34	4.5" x 1" Flate Plate	94.50 - 95.17	Auto	0.0000
L18	16	5" x 1-1/4" Flate Plate	93.75 - 94.50	Auto	0.0231
L18	21	5" x 1-1/4" Flate Plate	93.75 - 94.50	Auto	0.0231
L18	26	5" x 1-1/4" Flate Plate	93.75 - 94.50	Auto	0.0231
L18	32	4.5" x 1" Flate Plate	93.75 - 94.50	Auto	0.0000
L18	33	4.5" x 1" Flate Plate	93.75 - 94.50	Auto	0.0000
L18	34	4.5" x 1" Flate Plate	93.75 - 94.50	Auto	0.0000
L19	16	5" x 1-1/4" Flate Plate	93.50 - 93.75	Auto	0.0851
L19	21	5" x 1-1/4" Flate Plate	93.50 - 93.75	Auto	0.0851
L19	26	5" x 1-1/4" Flate Plate	93.50 - 93.75	Auto	0.0851
L19	32	4.5" x 1" Flate Plate	93.50 - 93.75	Auto	0.0000
L19	33	4.5" x 1" Flate Plate	93.50 - 93.75	Auto	0.0000
L19	34	4.5" x 1" Flate Plate	93.50 - 93.75	Auto	0.0000
L20	16	5" x 1-1/4" Flate Plate	92.75 - 93.50	Auto	0.0800
L20	21	5" x 1-1/4" Flate Plate	92.75 - 93.50	Auto	0.0800
L20	26	5" x 1-1/4" Flate Plate	92.75 - 93.50	Auto	0.0800
L20	32	4.5" x 1" Flate Plate	92.75 - 93.50	Auto	0.0000
L20	33	4.5" x 1" Flate Plate	92.75 - 93.50	Auto	0.0000
L20	34	4.5" x 1" Flate Plate	92.75 - 93.50	Auto	0.0000
L21	16	5" x 1-1/4" Flate Plate	92.50 - 92.75	Auto	0.1956
L21	21	5" x 1-1/4" Flate Plate	92.50 - 92.75	Auto	0.1956
L21	26	5" x 1-1/4" Flate Plate	92.50 - 92.75	Auto	0.1956
L21	32	4.5" x 1" Flate Plate	92.50 - 92.75	Auto	0.1062
L21	33	4.5" x 1" Flate Plate	92.50 - 92.75	Auto	0.1062
L21	34	4.5" x 1" Flate Plate	92.50 - 92.75	Auto	0.1062
L22	16	5" x 1-1/4" Flate Plate	91.25 - 92.50	Auto	0.1747
L22	21	5" x 1-1/4" Flate Plate	91.25 - 92.50	Auto	0.1747
L22	26	5" x 1-1/4" Flate Plate	91.25 - 92.50	Auto	0.1747
L22	32	4.5" x 1" Flate Plate	91.25 -	Auto	0.0830

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L22	33	4.5" x 1" Flate Plate	92.50 91.25 - 92.50	Auto	0.0830
L22	34	4.5" x 1" Flate Plate	91.25 - 92.50	Auto	0.0830
L23	16	5" x 1-1/4" Flate Plate	91.00 - 91.25	Auto	0.1671
L23	21	5" x 1-1/4" Flate Plate	91.00 - 91.25	Auto	0.1671
L23	26	5" x 1-1/4" Flate Plate	91.00 - 91.25	Auto	0.1671
L23	32	4.5" x 1" Flate Plate	91.00 - 91.25	Auto	0.0746
L23	33	4.5" x 1" Flate Plate	91.00 - 91.25	Auto	0.0746
L23	34	4.5" x 1" Flate Plate	91.00 - 91.25	Auto	0.0746
L24	16	5" x 1-1/4" Flate Plate	89.25 - 91.00	Auto	0.1571
L24	21	5" x 1-1/4" Flate Plate	89.25 - 91.00	Auto	0.1571
L24	26	5" x 1-1/4" Flate Plate	89.25 - 91.00	Auto	0.1571
L24	32	4.5" x 1" Flate Plate	89.25 - 91.00	Auto	0.0634
L24	33	4.5" x 1" Flate Plate	89.25 - 91.00	Auto	0.0634
L24	34	4.5" x 1" Flate Plate	89.25 - 91.00	Auto	0.0634
L25	15	7" x 1-1/4" Flate Plate	89.00 - 89.25	Auto	0.4290
L25	20	7" x 1-1/4" Flate Plate	89.00 - 89.25	Auto	0.4290
L25	25	7" x 1-1/4" Flate Plate	89.00 - 89.25	Auto	0.4290
L25	32	4.5" x 1" Flate Plate	89.00 - 89.25	Auto	0.1118
L25	33	4.5" x 1" Flate Plate	89.00 - 89.25	Auto	0.1118
L25	34	4.5" x 1" Flate Plate	89.00 - 89.25	Auto	0.1118
L26	15	7" x 1-1/4" Flate Plate	85.75 - 89.00	Auto	0.4069
L26	20	7" x 1-1/4" Flate Plate	85.75 - 89.00	Auto	0.4069
L26	25	7" x 1-1/4" Flate Plate	85.75 - 89.00	Auto	0.4069
L26	32	4.5" x 1" Flate Plate	85.75 - 89.00	Auto	0.0773
L26	33	4.5" x 1" Flate Plate	85.75 - 89.00	Auto	0.0773
L26	34	4.5" x 1" Flate Plate	85.75 - 89.00	Auto	0.0773
L27	15	7" x 1-1/4" Flate Plate	85.50 - 85.75	Auto	0.2699
L27	20	7" x 1-1/4" Flate Plate	85.50 - 85.75	Auto	0.2699
L27	25	7" x 1-1/4" Flate Plate	85.50 - 85.75	Auto	0.2699
L27	32	4.5" x 1" Flate Plate	85.50 - 85.75	Auto	0.0000
L27	33	4.5" x 1" Flate Plate	85.50 - 85.75	Auto	0.0000
L27	34	4.5" x 1" Flate Plate	85.50 - 85.75	Auto	0.0000
L28	15	7" x 1-1/4" Flate Plate	80.50 - 85.50	Auto	0.2414
L28	20	7" x 1-1/4" Flate Plate	80.50 -	Auto	0.2414

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L28	25	7" x 1-1/4" Flate Plate	85.50 - 80.50 - 85.50	Auto	0.2414
L28	32	4.5" x 1" Flate Plate	80.50 - 85.50	Auto	0.0000
L28	33	4.5" x 1" Flate Plate	80.50 - 85.50	Auto	0.0000
L28	34	4.5" x 1" Flate Plate	80.50 - 85.50	Auto	0.0000
L29	15	7" x 1-1/4" Flate Plate	75.50 - 80.50	Auto	0.1960
L29	20	7" x 1-1/4" Flate Plate	75.50 - 80.50	Auto	0.1960
L29	25	7" x 1-1/4" Flate Plate	75.50 - 80.50	Auto	0.1960
L29	32	4.5" x 1" Flate Plate	75.50 - 80.50	Auto	0.0000
L29	33	4.5" x 1" Flate Plate	75.50 - 80.50	Auto	0.0000
L29	34	4.5" x 1" Flate Plate	75.50 - 80.50	Auto	0.0000
L30	15	7" x 1-1/4" Flate Plate	70.50 - 75.50	Auto	0.1505
L30	20	7" x 1-1/4" Flate Plate	70.50 - 75.50	Auto	0.1505
L30	25	7" x 1-1/4" Flate Plate	70.50 - 75.50	Auto	0.1505
L30	28	6" x 1" Flate Plate	70.50 - 70.58	Auto	0.0000
L30	29	6" x 1" Flate Plate	70.50 - 70.58	Auto	0.0000
L30	30	6" x 1" Flate Plate	70.50 - 70.58	Auto	0.0000
L30	32	4.5" x 1" Flate Plate	70.58 - 75.50	Auto	0.0000
L30	33	4.5" x 1" Flate Plate	70.58 - 75.50	Auto	0.0000
L30	34	4.5" x 1" Flate Plate	70.58 - 75.50	Auto	0.0000
L31	15	7" x 1-1/4" Flate Plate	68.08 - 70.50	Auto	0.1238
L31	20	7" x 1-1/4" Flate Plate	68.08 - 70.50	Auto	0.1238
L31	25	7" x 1-1/4" Flate Plate	68.08 - 70.50	Auto	0.1238
L31	28	6" x 1" Flate Plate	68.08 - 70.50	Auto	0.0000
L31	29	6" x 1" Flate Plate	68.08 - 70.50	Auto	0.0000
L31	30	6" x 1" Flate Plate	68.08 - 70.50	Auto	0.0000
L32	15	7" x 1-1/4" Flate Plate	67.83 - 68.08	Auto	0.1334
L32	20	7" x 1-1/4" Flate Plate	67.83 - 68.08	Auto	0.1334
L32	25	7" x 1-1/4" Flate Plate	67.83 - 68.08	Auto	0.1334
L32	28	6" x 1" Flate Plate	67.83 - 68.08	Auto	0.0000
L32	29	6" x 1" Flate Plate	67.83 - 68.08	Auto	0.0000
L32	30	6" x 1" Flate Plate	67.83 - 68.08	Auto	0.0000
L33	15	7" x 1-1/4" Flate Plate	67.00 - 67.83	Auto	0.1295
L33	20	7" x 1-1/4" Flate Plate	67.00 - 67.83	Auto	0.1295
L33	25	7" x 1-1/4" Flate Plate	67.00 - 67.83	Auto	0.1295

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L33	28	6" x 1" Flate Plate	67.83 67.00 - 67.83	Auto	0.0000
L33	29	6" x 1" Flate Plate	67.00 - 67.83	Auto	0.0000
L33	30	6" x 1" Flate Plate	67.00 - 67.83	Auto	0.0000
L34	15	7" x 1-1/4" Flate Plate	66.75 - 67.00	Auto	0.2118
L34	20	7" x 1-1/4" Flate Plate	66.75 - 67.00	Auto	0.2118
L34	25	7" x 1-1/4" Flate Plate	66.75 - 67.00	Auto	0.2118
L34	28	6" x 1" Flate Plate	66.75 - 67.00	Auto	0.0804
L34	29	6" x 1" Flate Plate	66.75 - 67.00	Auto	0.0804
L34	30	6" x 1" Flate Plate	66.75 - 67.00	Auto	0.0804
L35	15	7" x 1-1/4" Flate Plate	63.25 - 66.75	Auto	0.1887
L35	20	7" x 1-1/4" Flate Plate	63.25 - 66.75	Auto	0.1887
L35	25	7" x 1-1/4" Flate Plate	63.25 - 66.75	Auto	0.1887
L35	28	6" x 1" Flate Plate	63.25 - 66.75	Auto	0.0535
L35	29	6" x 1" Flate Plate	63.25 - 66.75	Auto	0.0535
L35	30	6" x 1" Flate Plate	63.25 - 66.75	Auto	0.0535
L36	15	7" x 1-1/4" Flate Plate	63.00 - 63.25	Auto	0.2422
L36	20	7" x 1-1/4" Flate Plate	63.00 - 63.25	Auto	0.2422
L36	25	7" x 1-1/4" Flate Plate	63.00 - 63.25	Auto	0.2422
L36	28	6" x 1" Flate Plate	63.00 - 63.25	Auto	0.1160
L36	29	6" x 1" Flate Plate	63.00 - 63.25	Auto	0.1160
L36	30	6" x 1" Flate Plate	63.00 - 63.25	Auto	0.1160
L37	15	7" x 1-1/4" Flate Plate	59.50 - 63.00	Auto	0.2192
L37	20	7" x 1-1/4" Flate Plate	59.50 - 63.00	Auto	0.2192
L37	25	7" x 1-1/4" Flate Plate	59.50 - 63.00	Auto	0.2192
L37	28	6" x 1" Flate Plate	59.50 - 63.00	Auto	0.0891
L37	29	6" x 1" Flate Plate	59.50 - 63.00	Auto	0.0891
L37	30	6" x 1" Flate Plate	59.50 - 63.00	Auto	0.0891
L38	14	8" x 1-1/4" Flate Plate	59.25 - 59.50	Auto	0.3218
L38	19	8" x 1-1/4" Flate Plate	59.25 - 59.50	Auto	0.3218
L38	24	8" x 1-1/4" Flate Plate	59.25 - 59.50	Auto	0.3218
L38	28	6" x 1" Flate Plate	59.25 - 59.50	Auto	0.0957
L38	29	6" x 1" Flate Plate	59.25 - 59.50	Auto	0.0957
L38	30	6" x 1" Flate Plate	59.25 - 59.50	Auto	0.0957
L39	14	8" x 1-1/4" Flate Plate	56.25 -	Auto	0.3032

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L39	19	8" x 1-1/4" Flate Plate	59.25 56.25 - 59.25	Auto	0.3032
L39	24	8" x 1-1/4" Flate Plate	56.25 - 59.25	Auto	0.3032
L39	28	6" x 1" Flate Plate	56.25 - 59.25	Auto	0.0709
L39	29	6" x 1" Flate Plate	56.25 - 59.25	Auto	0.0709
L39	30	6" x 1" Flate Plate	56.25 - 59.25	Auto	0.0709
L40	14	8" x 1-1/4" Flate Plate	56.00 - 56.25	Auto	0.2427
L40	19	8" x 1-1/4" Flate Plate	56.00 - 56.25	Auto	0.2427
L40	24	8" x 1-1/4" Flate Plate	56.00 - 56.25	Auto	0.2427
L40	28	6" x 1" Flate Plate	56.00 - 56.25	Auto	0.0000
L40	29	6" x 1" Flate Plate	56.00 - 56.25	Auto	0.0000
L40	30	6" x 1" Flate Plate	56.00 - 56.25	Auto	0.0000
L41	14	8" x 1-1/4" Flate Plate	55.75 - 56.00	Auto	0.1658
L41	19	8" x 1-1/4" Flate Plate	55.75 - 56.00	Auto	0.1658
L41	24	8" x 1-1/4" Flate Plate	55.75 - 56.00	Auto	0.1658
L41	28	6" x 1" Flate Plate	55.75 - 56.00	Auto	0.0000
L41	29	6" x 1" Flate Plate	55.75 - 56.00	Auto	0.0000
L41	30	6" x 1" Flate Plate	55.75 - 56.00	Auto	0.0000
L42	14	8" x 1-1/4" Flate Plate	50.75 - 55.75	Auto	0.1451
L42	19	8" x 1-1/4" Flate Plate	50.75 - 55.75	Auto	0.1451
L42	24	8" x 1-1/4" Flate Plate	50.75 - 55.75	Auto	0.1451
L42	28	6" x 1" Flate Plate	50.75 - 55.75	Auto	0.0000
L42	29	6" x 1" Flate Plate	50.75 - 55.75	Auto	0.0000
L42	30	6" x 1" Flate Plate	50.75 - 55.75	Auto	0.0000
L43	14	8" x 1-1/4" Flate Plate	44.67 - 50.75	Auto	0.1061
L43	19	8" x 1-1/4" Flate Plate	44.67 - 50.75	Auto	0.1061
L43	24	8" x 1-1/4" Flate Plate	44.67 - 50.75	Auto	0.1061
L43	28	6" x 1" Flate Plate	44.67 - 50.75	Auto	0.0000
L43	29	6" x 1" Flate Plate	44.67 - 50.75	Auto	0.0000
L43	30	6" x 1" Flate Plate	44.67 - 50.75	Auto	0.0000
L44	14	8" x 1-1/4" Flate Plate	43.67 - 44.67	Auto	0.1257
L44	19	8" x 1-1/4" Flate Plate	43.67 - 44.67	Auto	0.1257
L44	24	8" x 1-1/4" Flate Plate	43.67 - 44.67	Auto	0.1257
L44	28	6" x 1" Flate Plate	43.67 - 44.67	Auto	0.0000
L44	29	6" x 1" Flate Plate	43.67 -	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L44	30	6" x 1" Flate Plate	44.67 43.67 - 44.67	Auto	0.0000
L45	14	8" x 1-1/4" Flate Plate	38.67 - 43.67	Auto	0.1027
L45	19	8" x 1-1/4" Flate Plate	38.67 - 43.67	Auto	0.1027
L45	24	8" x 1-1/4" Flate Plate	38.67 - 43.67	Auto	0.1027
L45	28	6" x 1" Flate Plate	38.67 - 43.67	Auto	0.0000
L45	29	6" x 1" Flate Plate	38.67 - 43.67	Auto	0.0000
L45	30	6" x 1" Flate Plate	38.67 - 43.67	Auto	0.0000
L46	14	8" x 1-1/4" Flate Plate	34.50 - 38.67	Auto	0.0697
L46	19	8" x 1-1/4" Flate Plate	34.50 - 38.67	Auto	0.0697
L46	24	8" x 1-1/4" Flate Plate	34.50 - 38.67	Auto	0.0697
L46	28	6" x 1" Flate Plate	34.50 - 38.67	Auto	0.0000
L46	29	6" x 1" Flate Plate	34.50 - 38.67	Auto	0.0000
L46	30	6" x 1" Flate Plate	34.50 - 38.67	Auto	0.0000
L47	14	8" x 1-1/4" Flate Plate	34.25 - 34.50	Auto	0.1396
L47	19	8" x 1-1/4" Flate Plate	34.25 - 34.50	Auto	0.1396
L47	24	8" x 1-1/4" Flate Plate	34.25 - 34.50	Auto	0.1396
L47	28	6" x 1" Flate Plate	34.25 - 34.50	Auto	0.0000
L47	29	6" x 1" Flate Plate	34.25 - 34.50	Auto	0.0000
L47	30	6" x 1" Flate Plate	34.25 - 34.50	Auto	0.0000
L48	14	8" x 1-1/4" Flate Plate	33.00 - 34.25	Auto	0.1349
L48	19	8" x 1-1/4" Flate Plate	33.00 - 34.25	Auto	0.1349
L48	24	8" x 1-1/4" Flate Plate	33.00 - 34.25	Auto	0.1349
L48	28	6" x 1" Flate Plate	33.00 - 34.25	Auto	0.0000
L48	29	6" x 1" Flate Plate	33.00 - 34.25	Auto	0.0000
L48	30	6" x 1" Flate Plate	33.00 - 34.25	Auto	0.0000
L49	14	8" x 1-1/4" Flate Plate	32.75 - 33.00	Auto	0.1302
L49	19	8" x 1-1/4" Flate Plate	32.75 - 33.00	Auto	0.1302
L49	24	8" x 1-1/4" Flate Plate	32.75 - 33.00	Auto	0.1302
L49	28	6" x 1" Flate Plate	32.75 - 33.00	Auto	0.0000
L49	29	6" x 1" Flate Plate	32.75 - 33.00	Auto	0.0000
L49	30	6" x 1" Flate Plate	32.75 - 33.00	Auto	0.0000
L50	14	8" x 1-1/4" Flate Plate	29.75 - 32.75	Auto	0.1116
L50	19	8" x 1-1/4" Flate Plate	29.75 - 32.75	Auto	0.1116
L50	24	8" x 1-1/4" Flate Plate	29.75 -	Auto	0.1116

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L50	28	6" x 1" Flate Plate	32.75 29.75 - 32.75	Auto	0.0000
L50	29	6" x 1" Flate Plate	29.75 - 32.75	Auto	0.0000
L50	30	6" x 1" Flate Plate	29.75 - 32.75	Auto	0.0000
L51	13	9" x 1-1/4" Flate Plate	29.50 - 29.75	Auto	0.2161
L51	18	9" x 1-1/4" Flate Plate	29.50 - 29.75	Auto	0.2161
L51	23	9" x 1-1/4" Flate Plate	29.50 - 29.75	Auto	0.2161
L51	28	6" x 1" Flate Plate	29.50 - 29.75	Auto	0.0000
L51	29	6" x 1" Flate Plate	29.50 - 29.75	Auto	0.0000
L51	30	6" x 1" Flate Plate	29.50 - 29.75	Auto	0.0000
L52	13	9" x 1-1/4" Flate Plate	25.00 - 29.50	Auto	0.1954
L52	18	9" x 1-1/4" Flate Plate	25.00 - 29.50	Auto	0.1954
L52	23	9" x 1-1/4" Flate Plate	25.00 - 29.50	Auto	0.1954
L52	28	6" x 1" Flate Plate	25.00 - 29.50	Auto	0.0000
L52	29	6" x 1" Flate Plate	25.00 - 29.50	Auto	0.0000
L52	30	6" x 1" Flate Plate	25.00 - 29.50	Auto	0.0000
L53	13	9" x 1-1/4" Flate Plate	24.75 - 25.00	Auto	0.1114
L53	18	9" x 1-1/4" Flate Plate	24.75 - 25.00	Auto	0.1114
L53	23	9" x 1-1/4" Flate Plate	24.75 - 25.00	Auto	0.1114
L53	28	6" x 1" Flate Plate	24.75 - 25.00	Auto	0.0000
L53	29	6" x 1" Flate Plate	24.75 - 25.00	Auto	0.0000
L53	30	6" x 1" Flate Plate	24.75 - 25.00	Auto	0.0000
L54	13	9" x 1-1/4" Flate Plate	19.75 - 24.75	Auto	0.0930
L54	18	9" x 1-1/4" Flate Plate	19.75 - 24.75	Auto	0.0930
L54	23	9" x 1-1/4" Flate Plate	19.75 - 24.75	Auto	0.0930
L54	28	6" x 1" Flate Plate	19.75 - 24.75	Auto	0.0000
L54	29	6" x 1" Flate Plate	19.75 - 24.75	Auto	0.0000
L54	30	6" x 1" Flate Plate	19.75 - 24.75	Auto	0.0000
L55	13	9" x 1-1/4" Flate Plate	14.75 - 19.75	Auto	0.0577
L55	18	9" x 1-1/4" Flate Plate	14.75 - 19.75	Auto	0.0577
L55	23	9" x 1-1/4" Flate Plate	14.75 - 19.75	Auto	0.0577
L55	28	6" x 1" Flate Plate	14.75 - 19.75	Auto	0.0000
L55	29	6" x 1" Flate Plate	14.75 - 19.75	Auto	0.0000
L55	30	6" x 1" Flate Plate	14.75 - 19.75	Auto	0.0000
L55	38	Transition Stiffener	14.75 -	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L56	13	9" x 1-1/4" Flate Plate	16.00 14.50 - 14.75	Auto	0.0430
L56	18	9" x 1-1/4" Flate Plate	14.50 - 14.75	Auto	0.0430
L56	23	9" x 1-1/4" Flate Plate	14.50 - 14.75	Auto	0.0430
L56	28	6" x 1" Flate Plate	14.50 - 14.75	Auto	0.0000
L56	29	6" x 1" Flate Plate	14.50 - 14.75	Auto	0.0000
L56	30	6" x 1" Flate Plate	14.50 - 14.75	Auto	0.0000
L56	38	Transition Stiffener	14.50 - 14.75	Auto	0.0000
L57	13	9" x 1-1/4" Flate Plate	14.25 - 14.50	Auto	0.0416
L57	18	9" x 1-1/4" Flate Plate	14.25 - 14.50	Auto	0.0416
L57	23	9" x 1-1/4" Flate Plate	14.25 - 14.50	Auto	0.0416
L57	28	6" x 1" Flate Plate	14.25 - 14.50	Auto	0.0000
L57	29	6" x 1" Flate Plate	14.25 - 14.50	Auto	0.0000
L57	30	6" x 1" Flate Plate	14.25 - 14.50	Auto	0.0000
L57	38	Transition Stiffener	14.25 - 14.50	Auto	0.0000
L58	13	9" x 1-1/4" Flate Plate	12.25 - 14.25	Auto	0.0353
L58	18	9" x 1-1/4" Flate Plate	12.25 - 14.25	Auto	0.0353
L58	23	9" x 1-1/4" Flate Plate	12.25 - 14.25	Auto	0.0353
L58	28	6" x 1" Flate Plate	12.25 - 14.25	Auto	0.0000
L58	29	6" x 1" Flate Plate	12.25 - 14.25	Auto	0.0000
L58	30	6" x 1" Flate Plate	12.25 - 14.25	Auto	0.0000
L58	37	Transition Stiffener	12.25 - 13.00	Auto	0.0000
L58	38	Transition Stiffener	12.25 - 14.25	Auto	0.0000
L59	13	9" x 1-1/4" Flate Plate	12.00 - 12.25	Auto	0.0179
L59	18	9" x 1-1/4" Flate Plate	12.00 - 12.25	Auto	0.0179
L59	23	9" x 1-1/4" Flate Plate	12.00 - 12.25	Auto	0.0179
L59	28	6" x 1" Flate Plate	12.00 - 12.25	Auto	0.0000
L59	29	6" x 1" Flate Plate	12.00 - 12.25	Auto	0.0000
L59	30	6" x 1" Flate Plate	12.00 - 12.25	Auto	0.0000
L59	37	Transition Stiffener	12.00 - 12.25	Auto	0.0000
L59	38	Transition Stiffener	12.00 - 12.25	Auto	0.0000
L60	13	9" x 1-1/4" Flate Plate	11.50 - 12.00	Auto	0.0158
L60	18	9" x 1-1/4" Flate Plate	11.50 - 12.00	Auto	0.0158
L60	23	9" x 1-1/4" Flate Plate	11.50 - 12.00	Auto	0.0158
L60	28	6" x 1" Flate Plate	11.50 -	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L60	29	6" x 1" Flate Plate	12.00 11.50 - 12.00	Auto	0.0000
L60	30	6" x 1" Flate Plate	11.50 - 12.00	Auto	0.0000
L60	37	Transition Stiffener	11.50 - 12.00	Auto	0.0000
L60	38	Transition Stiffener	11.50 - 12.00	Auto	0.0000
L61	13	9" x 1-1/4" Flate Plate	11.25 - 11.50	Auto	0.0472
L61	18	9" x 1-1/4" Flate Plate	11.25 - 11.50	Auto	0.0472
L61	23	9" x 1-1/4" Flate Plate	11.25 - 11.50	Auto	0.0472
L61	28	6" x 1" Flate Plate	11.25 - 11.50	Auto	0.0000
L61	29	6" x 1" Flate Plate	11.25 - 11.50	Auto	0.0000
L61	30	6" x 1" Flate Plate	11.25 - 11.50	Auto	0.0000
L61	37	Transition Stiffener	11.25 - 11.50	Auto	0.0000
L61	38	Transition Stiffener	11.25 - 11.50	Auto	0.0000
L62	13	9" x 1-1/4" Flate Plate	9.25 - 11.25	Auto	0.0372
L62	18	9" x 1-1/4" Flate Plate	9.25 - 11.25	Auto	0.0372
L62	23	9" x 1-1/4" Flate Plate	9.25 - 11.25	Auto	0.0372
L62	28	6" x 1" Flate Plate	9.25 - 11.25	Auto	0.0000
L62	29	6" x 1" Flate Plate	9.25 - 11.25	Auto	0.0000
L62	30	6" x 1" Flate Plate	9.25 - 11.25	Auto	0.0000
L62	37	Transition Stiffener	9.25 - 11.25	Auto	0.0000
L62	38	Transition Stiffener	9.25 - 11.25	Auto	0.0000
L63	13	9" x 1-1/4" Flate Plate	9.00 - 9.25	Auto	0.0197
L63	18	9" x 1-1/4" Flate Plate	9.00 - 9.25	Auto	0.0197
L63	23	9" x 1-1/4" Flate Plate	9.00 - 9.25	Auto	0.0197
L63	28	6" x 1" Flate Plate	9.00 - 9.25	Auto	0.0000
L63	29	6" x 1" Flate Plate	9.00 - 9.25	Auto	0.0000
L63	30	6" x 1" Flate Plate	9.00 - 9.25	Auto	0.0000
L63	37	Transition Stiffener	9.00 - 9.25	Auto	0.0000
L63	38	Transition Stiffener	9.00 - 9.25	Auto	0.0000
L64	13	9" x 1-1/4" Flate Plate	4.50 - 9.00	Auto	0.0027
L64	18	9" x 1-1/4" Flate Plate	4.50 - 9.00	Auto	0.0027
L64	23	9" x 1-1/4" Flate Plate	4.50 - 9.00	Auto	0.0027
L64	28	6" x 1" Flate Plate	4.50 - 9.00	Auto	0.0000
L64	29	6" x 1" Flate Plate	4.50 - 9.00	Auto	0.0000
L64	30	6" x 1" Flate Plate	4.50 - 9.00	Auto	0.0000
L64	36	Transition Stiffener	4.50 - 6.00	Auto	0.0000
L64	37	Transition Stiffener	4.50 - 9.00	Auto	0.0000
L64	38	Transition Stiffener	4.50 - 9.00	Auto	0.0000
L65	13	9" x 1-1/4" Flate Plate	4.25 - 4.50	Auto	0.0000
L65	18	9" x 1-1/4" Flate Plate	4.25 - 4.50	Auto	0.0000
L65	23	9" x 1-1/4" Flate Plate	4.25 - 4.50	Auto	0.0000
L65	28	6" x 1" Flate Plate	4.25 - 4.50	Auto	0.0000
L65	29	6" x 1" Flate Plate	4.25 - 4.50	Auto	0.0000
L65	30	6" x 1" Flate Plate	4.25 - 4.50	Auto	0.0000
L65	36	Transition Stiffener	4.25 - 4.50	Auto	0.0000
L65	37	Transition Stiffener	4.25 - 4.50	Auto	0.0000
L65	38	Transition Stiffener	4.25 - 4.50	Auto	0.0000
L66	13	9" x 1-1/4" Flate Plate	3.00 - 4.25	Auto	0.0000
L66	18	9" x 1-1/4" Flate Plate	3.00 - 4.25	Auto	0.0000
L66	23	9" x 1-1/4" Flate Plate	3.00 - 4.25	Auto	0.0000
L66	28	6" x 1" Flate Plate	3.00 - 4.25	Auto	0.0000
L66	29	6" x 1" Flate Plate	3.00 - 4.25	Auto	0.0000
L66	30	6" x 1" Flate Plate	3.00 - 4.25	Auto	0.0000
L66	36	Transition Stiffener	3.00 - 4.25	Auto	0.0000
L66	37	Transition Stiffener	3.00 - 4.25	Auto	0.0000
L66	38	Transition Stiffener	3.00 - 4.25	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L67	13	9" x 1-1/4" Flate Plate	2.75 - 3.00	Auto	0.0000
L67	18	9" x 1-1/4" Flate Plate	2.75 - 3.00	Auto	0.0000
L67	23	9" x 1-1/4" Flate Plate	2.75 - 3.00	Auto	0.0000
L67	28	6" x 1" Flate Plate	2.75 - 3.00	Auto	0.0000
L67	29	6" x 1" Flate Plate	2.75 - 3.00	Auto	0.0000
L67	30	6" x 1" Flate Plate	2.75 - 3.00	Auto	0.0000
L67	36	Transition Stiffener	2.75 - 3.00	Auto	0.0000
L67	37	Transition Stiffener	2.75 - 3.00	Auto	0.0000
L67	38	Transition Stiffener	2.75 - 3.00	Auto	0.0000
L68	13	9" x 1-1/4" Flate Plate	0.00 - 2.75	Auto	0.0000
L68	18	9" x 1-1/4" Flate Plate	0.00 - 2.75	Auto	0.0000
L68	23	9" x 1-1/4" Flate Plate	0.00 - 2.75	Auto	0.0000
L68	28	6" x 1" Flate Plate	0.00 - 2.75	Auto	0.0000
L68	29	6" x 1" Flate Plate	0.00 - 2.75	Auto	0.0000
L68	30	6" x 1" Flate Plate	0.00 - 2.75	Auto	0.0000
L68	36	Transition Stiffener	0.00 - 2.75	Auto	0.0000
L68	37	Transition Stiffener	0.00 - 2.75	Auto	0.0000
L68	38	Transition Stiffener	0.00 - 2.75	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment t	Placement ft	C _A A _{Front} ft ²	C _A A _{Side} ft ²	Weight K	
			Horz Lateral ft	Vert ft						
KS24019-L112A	A	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	0.1000	0.1000	0.01
			0.00				1/2"	0.1800	0.1800	0.01
			-3.00				Ice	0.2600	0.2600	0.01
LPA-80063/6CFX5 w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	9.8047	10.1945	0.05
			0.00				1/2"	10.3732	11.3625	0.14
			0.00				Ice	10.9065	12.2463	0.25
(2) LPA-80063/6CFX5 w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	9.8047	10.1945	0.05
			0.00				1/2"	10.3732	11.3625	0.14
			0.00				Ice	10.9065	12.2463	0.25
(3) LPA-80063/6CFX5 w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	9.8047	10.1945	0.05
			0.00				1/2"	10.3732	11.3625	0.14
			0.00				Ice	10.9065	12.2463	0.25
BXA-70063-6CF-2 w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	7.8065	5.8008	0.04
			0.00				1/2"	8.3569	6.9529	0.10
			0.00				Ice	8.8720	7.8191	0.17
BXA-70063-6CF-2 w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	7.8065	5.8008	0.04
			0.00				1/2"	8.3569	6.9529	0.10
			0.00				Ice	8.8720	7.8191	0.17
BXA-70063-6CF-2 w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	7.8065	5.8008	0.04
			0.00				1/2"	8.3569	6.9529	0.10
			0.00				Ice	8.8720	7.8191	0.17
(2) HBXX-6517DS-A2M w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	7.9700	5.9900	0.08
			0.00				1/2"	8.7300	6.7200	0.14
			0.00				Ice	9.5000	7.4700	0.22
(2) HBXX-6517DS-A2M w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	150.0000	No Ice	7.9700	5.9900	0.08
									1" Ice	

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Mount Pipe			0.00 0.00			1/2" 8.7300 Ice 9.5000	6.7200 7.4700	0.14 0.22
(2) HBXX-6517DS-A2M w/ Mount Pipe	C	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 7.9700 1/2" 8.7300 Ice 9.5000	5.9900 6.7200 7.4700	0.08 0.14 0.22
RRH2X60-AWS	A	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 3.5002 1/2" 3.7609 Ice 4.0285	1.8157 2.0519 2.2894	0.06 0.08 0.11
RRH2X60-AWS	B	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 3.5002 1/2" 3.7609 Ice 4.0285	1.8157 2.0519 2.2894	0.06 0.08 0.11
RRH2X60-AWS	C	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 3.5002 1/2" 3.7609 Ice 4.0285	1.8157 2.0519 2.2894	0.06 0.08 0.11
B4 RRH2X60-4R	A	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 3.3554 1/2" 3.6120 Ice 3.8757	2.0048 2.2369 2.4759	0.06 0.08 0.10
B4 RRH2X60-4R	B	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 3.3554 1/2" 3.6120 Ice 3.8757	2.0048 2.2369 2.4759	0.06 0.08 0.10
B4 RRH2X60-4R	C	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 3.3554 1/2" 3.6120 Ice 3.8757	2.0048 2.2369 2.4759	0.06 0.08 0.10
(2) FD9R6004/2C-3L	A	From Leg	4.0000 0.00 -3.00	0.0000	150.0000	1" Ice No Ice 0.3142 1/2" 0.3862 Ice 0.4656	0.0762 0.1189 0.1685	0.00 0.01 0.01
(3) FD9R6004/2C-3L	B	From Leg	4.0000 0.00 -3.00	0.0000	150.0000	1" Ice No Ice 0.3142 1/2" 0.3862 Ice 0.4656	0.0762 0.1189 0.1685	0.00 0.01 0.01
FD9R6004/2C-3L	C	From Leg	4.0000 0.00 -3.00	0.0000	150.0000	1" Ice No Ice 0.3142 1/2" 0.3862 Ice 0.4656	0.0762 0.1189 0.1685	0.00 0.01 0.01
DB-T1-6Z-8AB-0Z	C	From Leg	4.0000 0.00 0.00	0.0000	150.0000	1" Ice No Ice 4.8000 1/2" 5.0704 Ice 5.3481	2.0000 2.1926 2.3926	0.04 0.08 0.12
Platform Mount (LP 101-1_KCKR)	C	None		0.0000	150.0000	1" Ice No Ice 47.0500 1/2" 55.2000 Ice 63.9600	47.0500 55.2000 63.9600	1.78 2.73 3.86
***						1" Ice		
7770.00 w/ Mount Pipe	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 5.7460 1/2" 6.1791 Ice 6.6067	4.2543 5.0137 5.7109	0.06 0.10 0.16
7770.00 w/ Mount Pipe	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	1" Ice No Ice 5.7460 1/2" 6.1791 Ice 6.6067	4.2543 5.0137 5.7109	0.06 0.10 0.16
7770.00 w/ Mount Pipe	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	1" Ice No Ice 5.7460 1/2" 6.1791 Ice 6.6067	4.2543 5.0137 5.7109	0.06 0.10 0.16
HPA-65R-BUU-H6 w/	A	From Leg	4.0000	0.0000	138.0000	1" Ice No Ice 9.2200	6.2500	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Mount Pipe			0.00 4.00			1/2" Ice 1" Ice 9.9800 10.7600	6.9600 7.7000	0.14 0.22
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 9.2200 9.9800 10.7600	6.2500 6.9600 7.7000	0.07 0.14 0.22
HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 9.2200 9.9800 10.7600	6.2500 6.9600 7.7000	0.07 0.14 0.22
(2) LGP21401	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 1.1040 1.2388 1.3810	0.2070 0.2738 0.3475	0.01 0.02 0.03
(2) LGP21401	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 1.1040 1.2388 1.3810	0.2070 0.2738 0.3475	0.01 0.02 0.03
(2) LGP21401	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 1.1040 1.2388 1.3810	0.2070 0.2738 0.3475	0.01 0.02 0.03
DC6-48-60-18-8F	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 1.2117 1.8924 2.1051	1.2117 1.8924 2.1051	0.02 0.04 0.07
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 11.9600 12.7000 13.4600	5.9700 6.6300 7.3000	0.11 0.20 0.30
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 11.9600 12.7000 13.4600	5.9700 6.6300 7.3000	0.11 0.20 0.30
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 11.9600 12.7000 13.4600	5.9700 6.6300 7.3000	0.11 0.20 0.30
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 12.2500 13.0000 13.7600	6.0500 6.7100 7.3900	0.09 0.18 0.27
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 12.2500 13.0000 13.7600	6.0500 6.7100 7.3900	0.09 0.18 0.27
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 12.2500 13.0000 13.7600	6.0500 6.7100 7.3900	0.09 0.18 0.27
1001940	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 0.1758 0.2317 0.2950	0.0833 0.1264 0.1778	0.00 0.00 0.01
1001940	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 0.1758 0.2317 0.2950	0.0833 0.1264 0.1778	0.00 0.00 0.01
1001940	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice 0.1758 0.2317 0.2950	0.0833 0.1264 0.1778	0.00 0.00 0.01
RRUS 4478 B14	A	From Leg	4.0000 0.00	0.0000	138.0000	No Ice 1/2" 1.8425 2.0123	1.0588 1.1969	0.06 0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
			4.00			Ice 2.1895	1.3425	0.09	
RRUS 4478 B14	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	1" Ice No Ice 1/2" Ice 1" Ice	1.8425 2.0123 2.1895	1.0588 1.1969 1.3425	0.06 0.08 0.09
RRUS 4478 B14	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.8425 2.0123 2.1895	1.0588 1.1969 1.3425	0.06 0.08 0.09
RRUS 4449 B5/B12	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.9675 2.1439 2.3278	1.4081 1.5637 1.7267	0.07 0.09 0.11
RRUS 4449 B5/B12	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.9675 2.1439 2.3278	1.4081 1.5637 1.7267	0.07 0.09 0.11
RRUS 4449 B5/B12	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.9675 2.1439 2.3278	1.4081 1.5637 1.7267	0.07 0.09 0.11
RRUS 8843 B2/B66A	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.6390 1.7988 1.9660	1.3534 1.5005 1.6549	0.07 0.09 0.11
RRUS 8843 B2/B66A	B	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.6390 1.7988 1.9660	1.3534 1.5005 1.6549	0.07 0.09 0.11
RRUS 8843 B2/B66A	C	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.6390 1.7988 1.9660	1.3534 1.5005 1.6549	0.07 0.09 0.11
DC6-48-60-18-8F	A	From Leg	4.0000 0.00 4.00	0.0000	138.0000	No Ice 1/2" Ice 1" Ice	1.2117 1.8924 2.1051	1.2117 1.8924 2.1051	0.02 0.04 0.07
Platform Mount (LP 101-1)	C	None		0.0000	138.0000	No Ice 1/2" Ice 1" Ice	35.8300 40.9800 46.5700	35.8300 40.9800 46.5700	1.50 2.32 3.26
(3) P2 STD 13.5'	C	None		0.0000	138.0000	No Ice 1/2" Ice 1" Ice	4.5600 6.3900 8.1800	4.5600 6.3900 8.1800	0.25 0.31 0.40
site pro PRK-SFS-L	C	None		0.0000	138.0000	No Ice 1/2" Ice 1" Ice	6.3200 7.7900 9.3600	4.8500 6.3600 7.9400	0.09 0.14 0.20
site pro PRK-SFS-L	C	None		0.0000	138.0000	No Ice 1/2" Ice 1" Ice	6.3200 7.7900 9.3600	4.8500 6.3600 7.9400	0.09 0.14 0.20
site pro PRK-SFS-L	C	None		0.0000	138.0000	No Ice 1/2" Ice 1" Ice	6.3200 7.7900 9.3600	4.8500 6.3600 7.9400	0.09 0.14 0.20
***						1" Ice			
KRY 112 144/1	A	From Leg	2.0000 0.00 2.00	0.0000	128.0000	No Ice 1/2" Ice 1" Ice	0.3500 0.4259 0.5093	0.1750 0.2343 0.3009	0.01 0.01 0.02
KRY 112 144/1	B	From Leg	2.0000 0.00	0.0000	128.0000	No Ice 1/2"	0.3500 0.4259	0.1750 0.2343	0.01 0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
			2.00			Ice 0.5093	0.3009	0.02	
KRY 112 144/1	C	From Leg	2.0000	0.0000	128.0000	1" Ice			
			0.00			No Ice	0.3500	0.1750	0.01
			2.00			1/2"	0.4259	0.2343	0.01
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.0000	0.0000	128.0000	Ice	0.5093	0.3009	0.02
			0.00			1" Ice			
			0.00			No Ice	5.8701	3.2700	0.13
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.0000	0.0000	128.0000	1/2"	6.2332	3.7282	0.18
			0.00			Ice	6.6061	4.2026	0.23
			0.00			1" Ice			
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.0000	0.0000	128.0000	No Ice	5.8701	3.2700	0.13
			0.00			1/2"	6.2332	3.7282	0.18
			0.00			Ice	6.6061	4.2026	0.23
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.0000	0.0000	128.0000	1" Ice			
			0.00			No Ice	14.6900	6.8700	0.18
			0.00			1/2"	15.4600	7.5500	0.31
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.0000	0.0000	128.0000	Ice	16.2300	8.2500	0.45
			0.00			1" Ice			
			0.00			No Ice	14.6900	6.8700	0.18
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.0000	0.0000	128.0000	1/2"	15.4600	7.5500	0.31
			0.00			Ice	16.2300	8.2500	0.45
			0.00			1" Ice			
AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	A	From Leg	4.0000	0.0000	128.0000	No Ice	7.0872	6.3915	0.19
			0.00			1/2"	7.5606	7.2487	0.26
			0.00			Ice	8.0206	7.9915	0.33
AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	B	From Leg	4.0000	0.0000	128.0000	1" Ice			
			0.00			No Ice	7.0872	6.3915	0.19
			0.00			1/2"	7.5606	7.2487	0.26
AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	C	From Leg	4.0000	0.0000	128.0000	Ice	8.0206	7.9915	0.33
			0.00			1" Ice			
			0.00			No Ice	7.0872	6.3915	0.19
SDX1926Q-43	A	From Leg	4.0000	0.0000	128.0000	1/2"	0.3063	0.1444	0.01
			0.00			Ice	0.3791	0.1948	0.01
			0.00			1" Ice			
SDX1926Q-43	B	From Leg	4.0000	0.0000	128.0000	No Ice	0.2410	0.1013	0.01
			0.00			1/2"	0.3063	0.1444	0.01
			0.00			Ice	0.3791	0.1948	0.01
SDX1926Q-43	C	From Leg	4.0000	0.0000	128.0000	1" Ice			
			0.00			No Ice	0.2410	0.1013	0.01
			0.00			1/2"	0.3063	0.1444	0.01
RRUS 4415 B25_CCIV2	A	From Leg	4.0000	0.0000	128.0000	Ice	0.3791	0.1948	0.01
			0.00			1" Ice			
			0.00			No Ice	1.8425	0.8202	0.05
RRUS 4415 B25_CCIV2	B	From Leg	4.0000	0.0000	128.0000	1/2"	2.0123	0.9434	0.06
			0.00			Ice	2.1895	1.0750	0.08
			0.00			1" Ice			
RRUS 4415 B25_CCIV2	C	From Leg	4.0000	0.0000	128.0000	No Ice	1.8425	0.8202	0.05
			0.00			1/2"	2.0123	0.9434	0.06
			0.00			Ice	2.1895	1.0750	0.08

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight	
			Horz Lateral	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.0000	0.0000	0.0000	128.0000	1" Ice			
			0.00				No Ice	1.9701	1.5865	0.07
			0.00				1/2"	2.1466	1.7488	0.09
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.0000	0.0000	0.0000	128.0000	Ice	2.3306	1.9185	0.12
			0.00				1" Ice			
			0.00				No Ice	1.9701	1.5865	0.07
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.0000	0.0000	0.0000	128.0000	1/2"	2.1466	1.7488	0.09
			0.00				Ice	2.3306	1.9185	0.12
			0.00				1" Ice			
Site Pro 1 RMQP-496-HK	C	None			0.0000	128.0000	No Ice	23.1400	23.1400	1.95
							1/2"	28.1700	28.1700	2.34
							Ice	33.2000	33.2000	2.73
8' x 2" Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	128.0000	1" Ice			
			0.00				No Ice	1.9000	1.9000	0.03
			0.00				1/2"	2.7281	2.7281	0.04
8' x 2" Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	128.0000	Ice	3.4009	3.4009	0.06
			0.00				1" Ice			
			0.00				No Ice	1.9000	1.9000	0.03
8' x 2" Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	128.0000	1/2"	2.7281	2.7281	0.04
			0.00				Ice	3.4009	3.4009	0.06
			0.00				1" Ice			
						No Ice	1.9000	1.9000	0.03	
						1/2"	2.7281	2.7281	0.04	
						Ice	3.4009	3.4009	0.06	
						1" Ice				

Load Combinations

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

Comb. No.	Description
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 145	Pole	Max Tension	26	0.00	-0.00	0.00
			Max. Compression	26	-8.86	1.48	-2.05
			Max. Mx	20	-2.45	51.10	-0.25
			Max. My	14	-2.46	0.33	-51.00
			Max. Vy	20	-10.37	51.10	-0.25
			Max. Vx	14	10.33	0.33	-51.00
			Max. Torque	22			4.43
L2	145 - 140	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-9.22	1.49	-2.07
			Max. Mx	20	-2.69	103.95	-0.51
			Max. My	14	-2.70	0.57	-103.65
			Max. Vy	20	-10.77	103.95	-0.51
			Max. Vx	14	10.73	0.57	-103.65
			Max. Torque	22			4.43
L3	140 - 135	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.69	1.51	-1.42
			Max. Mx	20	-6.42	203.12	-0.61
			Max. My	14	-6.43	0.83	-202.39
			Max. Vy	20	-19.47	203.12	-0.61
			Max. Vx	14	19.43	0.83	-202.39
			Max. Torque	22			4.42
L4	135 - 133	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.91	1.52	-1.43
			Max. Mx	20	-6.62	242.21	-0.71
			Max. My	14	-6.63	0.92	-241.39
			Max. Vy	20	-19.63	242.21	-0.71
			Max. Vx	14	19.59	0.92	-241.39
			Max. Torque	10			-3.97
L5	133 - 132.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.95	1.52	-1.43
			Max. Mx	20	-6.67	247.12	-0.73
			Max. My	14	-6.68	0.94	-246.29
			Max. Vy	20	-19.64	247.12	-0.73
			Max. Vx	14	19.60	0.94	-246.29

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L6	132.75 - 127.75	Pole	Max. Torque	10			-3.97
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.11	1.54	-1.46
			Max. Mx	20	-11.46	347.85	-0.98
			Max. My	14	-11.47	1.18	-346.82
			Max. Vy	20	-25.33	347.85	-0.98
			Max. Vx	14	25.29	1.18	-346.82
L7	127.75 - 123.75	Pole	Max. Torque	10			-3.97
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.89	1.55	-1.53
			Max. Mx	20	-12.11	449.82	-1.21
			Max. My	14	-12.12	1.37	-448.66
			Max. Vy	20	-25.68	449.82	-1.21
			Max. Vx	14	25.63	1.37	-448.66
L8	123.75 - 123.5	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.94	1.55	-1.54
			Max. Mx	20	-12.16	456.24	-1.23
			Max. My	14	-12.17	1.38	-455.07
			Max. Vy	20	-25.69	456.24	-1.23
			Max. Vx	14	25.65	1.38	-455.07
L9	123.5 - 118.75	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.29	1.57	-1.63
			Max. Mx	20	-13.24	579.43	-1.51
			Max. My	14	-13.25	1.62	-578.08
			Max. Vy	20	-26.19	579.43	-1.51
			Max. Vx	14	26.14	1.62	-578.08
L10	118.75 - 118.5	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.38	1.57	-1.63
			Max. Mx	20	-13.32	585.97	-1.52
			Max. My	14	-13.33	1.63	-584.62
			Max. Vy	20	-26.21	585.97	-1.52
			Max. Vx	14	26.16	1.63	-584.62
L11	118.5 - 117	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.89	1.57	-1.66
			Max. Mx	20	-13.73	625.41	-1.61
			Max. My	14	-13.74	1.70	-624.00
			Max. Vy	20	-26.38	625.41	-1.61
			Max. Vx	14	26.34	1.70	-624.00
L12	117 - 116.75	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.96	1.57	-1.66
			Max. Mx	20	-13.81	632.00	-1.63
			Max. My	14	-13.81	1.71	-630.59
			Max. Vy	20	-26.40	632.00	-1.63
			Max. Vx	14	26.35	1.71	-630.59
L13	116.75 - 111.75	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-31.41	1.59	-1.76
			Max. Mx	20	-14.98	765.26	-1.92
			Max. My	14	-14.99	1.95	-763.66
			Max. Vy	20	-26.91	765.26	-1.92
			Max. Vx	14	26.87	1.95	-763.66
L14	111.75 - 106.75	Pole	Max. Torque	10			-3.96
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-32.86	1.60	-1.86
			Max. Mx	20	-16.20	901.04	-2.21
			Max. My	14	-16.21	2.19	-899.26
Max. Vy	20	-27.42	901.04	-2.21			

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L15	106.75 - 101.75	Pole	Max. Vx	14	27.37	2.19	-899.26
			Max. Torque	10			-3.95
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.34	1.61	-1.96
			Max. Mx	20	-17.44	1039.33	-2.50
			Max. My	14	-17.45	2.42	-1037.36
			Max. Vy	20	-27.92	1039.33	-2.50
L16	101.75 - 95.1667	Pole	Max. Vx	14	27.87	2.42	-1037.36
			Max. Torque	10			-3.95
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35.01	1.62	-2.01
			Max. Mx	20	-18.01	1102.36	-2.63
			Max. My	14	-18.02	2.53	-1100.31
			Max. Vy	20	-28.14	1102.36	-2.63
L17	95.1667 - 94.5	Pole	Max. Vx	14	28.10	2.53	-1100.31
			Max. Torque	10			-3.95
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.70	1.63	-2.11
			Max. Mx	20	-20.26	1244.66	-2.91
			Max. My	14	-20.27	2.76	-1242.43
			Max. Vy	20	-28.78	1244.66	-2.91
L18	94.5 - 93.75	Pole	Max. Vx	14	28.73	2.76	-1242.43
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.96	1.63	-2.12
			Max. Mx	20	-20.48	1266.27	-2.96
			Max. My	14	-20.49	2.80	-1264.01
			Max. Vy	20	-28.86	1266.27	-2.96
L19	93.75 - 93.5	Pole	Max. Vx	14	28.81	2.80	-1264.01
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.06	1.63	-2.13
			Max. Mx	20	-20.57	1273.48	-2.97
			Max. My	14	-20.58	2.81	-1271.21
			Max. Vy	20	-28.88	1273.48	-2.97
L20	93.5 - 92.75	Pole	Max. Vx	14	28.83	2.81	-1271.21
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.34	1.64	-2.14
			Max. Mx	20	-20.81	1295.17	-3.02
			Max. My	14	-20.82	2.84	-1292.88
			Max. Vy	20	-28.97	1295.17	-3.02
L21	92.75 - 92.5	Pole	Max. Vx	14	28.92	2.84	-1292.88
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.45	1.64	-2.15
			Max. Mx	20	-20.92	1302.42	-3.03
			Max. My	14	-20.92	2.86	-1300.11
			Max. Vy	20	-28.99	1302.42	-3.03
L22	92.5 - 91.25	Pole	Max. Vx	14	28.94	2.86	-1300.11
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.00	1.64	-2.18
			Max. Mx	20	-21.38	1338.74	-3.10
			Max. My	14	-21.39	2.91	-1336.39
			Max. Vy	20	-29.15	1338.74	-3.10
L23	91.25 - 91	Pole	Max. Vx	14	29.10	2.91	-1336.39
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.11	1.64	-2.18
			Max. Mx	20	-21.49	1346.03	-3.12
			Max. My	14	-21.50	2.93	-1343.67
			Max. Vy	20	-29.17	1346.03	-3.12
L24	91 - 89.25	Pole	Max. Vx	14	29.12	2.93	-1343.67
			Max. Torque	10			-3.94
			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
L25	89.25 - 89	Pole	Max. Compression	26	-39.88	1.64	-2.22
			Max. Mx	20	-22.14	1397.24	-3.22
			Max. My	14	-22.14	3.01	-1394.82
			Max. Vy	20	-29.38	1397.24	-3.22
			Max. Vx	14	29.34	3.01	-1394.82
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.99	1.64	-2.22
			Max. Mx	20	-22.26	1404.59	-3.23
			Max. My	14	-22.27	3.02	-1402.16
L26	89 - 85.75	Pole	Max. Vy	20	-29.40	1404.59	-3.23
			Max. Vx	14	29.35	3.02	-1402.16
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.54	1.65	-2.29
			Max. Mx	20	-23.59	1500.76	-3.42
			Max. My	14	-23.60	3.17	-1498.21
			Max. Vy	20	-29.80	1500.76	-3.42
			Max. Vx	14	29.75	3.17	-1498.21
			Max. Torque	10			-3.94
L27	85.75 - 85.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.63	1.65	-2.30
			Max. Mx	20	-23.68	1508.21	-3.44
			Max. My	14	-23.69	3.18	-1505.65
			Max. Vy	20	-29.82	1508.21	-3.44
			Max. Vx	14	29.77	3.18	-1505.65
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.57	1.65	-2.39
			Max. Mx	20	-25.34	1658.58	-3.72
L28	85.5 - 80.5	Pole	Max. My	14	-25.34	3.41	-1655.85
			Max. Vy	20	-30.35	1658.58	-3.72
			Max. Vx	14	30.31	3.41	-1655.85
			Max. Torque	10			-3.94
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-45.52	1.65	-2.48
			Max. Mx	20	-27.03	1811.56	-4.01
			Max. My	14	-27.04	3.64	-1808.65
			Max. Vy	20	-30.87	1811.56	-4.01
			Max. Vx	14	30.82	3.64	-1808.65
L29	80.5 - 75.5	Pole	Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.50	1.65	-2.58
			Max. Mx	20	-28.76	1967.10	-4.30
			Max. My	14	-28.76	3.87	-1964.02
			Max. Vy	20	-31.38	1967.10	-4.30
			Max. Vx	14	31.33	3.87	-1964.02
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.47	1.65	-2.63
L30	75.5 - 70.5	Pole	Max. Mx	20	-29.60	2043.20	-4.44
			Max. My	14	-29.60	3.97	-2040.03
			Max. Vy	20	-31.63	2043.20	-4.44
			Max. Vx	14	31.58	3.97	-2040.03
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.58	1.65	-2.63
			Max. Mx	20	-29.71	2051.10	-4.45
			Max. My	14	-29.71	3.99	-2047.93
			Max. Vy	20	-31.64	2051.10	-4.45
L31	70.5 - 68.083	Pole	Max. Vx	14	31.59	3.99	-2047.93
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.93	1.65	-2.65
			Max. Mx	20	-30.00	2077.49	-4.50
			Max. My	14	-30.01	4.02	-2074.28
			Max. Vy	20	-31.73	2077.49	-4.50
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.93	1.65	-2.65
L32	68.083 - 67.833	Pole	Max. Mx	20	-30.00	2077.49	-4.50
			Max. My	14	-30.01	4.02	-2074.28
			Max. Vy	20	-31.73	2077.49	-4.50
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.93	1.65	-2.65
			Max. Mx	20	-30.00	2077.49	-4.50
			Max. My	14	-30.01	4.02	-2074.28
			Max. Vy	20	-31.73	2077.49	-4.50
			Max. Torque	10			-3.93
L33	67.833 - 67	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.93	1.65	-2.65
			Max. Mx	20	-30.00	2077.49	-4.50
			Max. My	14	-30.01	4.02	-2074.28
			Max. Vy	20	-31.73	2077.49	-4.50
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.93	1.65	-2.65
			Max. Mx	20	-30.00	2077.49	-4.50
			Max. My	14	-30.01	4.02	-2074.28

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L34	67 - 66.75	Pole	Max. Vx	14	31.69	4.02	-2074.28
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.06	1.65	-2.65
			Max. Mx	20	-30.12	2085.42	-4.52
			Max. My	14	-30.13	4.03	-2082.21
			Max. Vy	20	-31.75	2085.42	-4.52
L35	66.75 - 63.25	Pole	Max. Vx	14	31.70	4.03	-2082.21
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.80	1.65	-2.72
			Max. Mx	20	-31.64	2197.22	-4.72
			Max. My	14	-31.64	4.19	-2193.89
			Max. Vy	20	-32.15	2197.22	-4.72
L36	63.25 - 63	Pole	Max. Vx	14	32.11	4.19	-2193.89
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.94	1.65	-2.73
			Max. Mx	20	-31.77	2205.26	-4.73
			Max. My	14	-31.78	4.20	-2201.92
			Max. Vy	20	-32.17	2205.26	-4.73
L37	63 - 59.5	Pole	Max. Vx	14	32.13	4.20	-2201.92
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.88	1.65	-2.80
			Max. Mx	20	-33.48	2318.56	-4.94
			Max. My	14	-33.48	4.36	-2315.10
			Max. Vy	20	-32.59	2318.56	-4.94
L38	59.5 - 59.25	Pole	Max. Vx	14	32.55	4.36	-2315.10
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.02	1.65	-2.80
			Max. Mx	20	-33.62	2326.71	-4.95
			Max. My	14	-33.62	4.37	-2323.24
			Max. Vy	20	-32.61	2326.71	-4.95
L39	59.25 - 56.25	Pole	Max. Vx	14	32.56	4.37	-2323.24
			Max. Torque	10			-3.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.75	1.65	-2.86
			Max. Mx	20	-35.14	2425.06	-5.13
			Max. My	14	-35.14	4.51	-2421.49
			Max. Vy	20	-32.97	2425.06	-5.13
L40	56.25 - 56	Pole	Max. Vx	14	32.92	4.51	-2421.49
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.88	1.65	-2.87
			Max. Mx	20	-35.26	2433.30	-5.14
			Max. My	14	-35.26	4.52	-2429.72
			Max. Vy	20	-32.99	2433.30	-5.14
L41	56 - 55.75	Pole	Max. Vx	14	32.94	4.52	-2429.72
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.00	1.65	-2.87
			Max. Mx	20	-35.36	2441.55	-5.15
			Max. My	14	-35.36	4.53	-2437.97
			Max. Vy	20	-33.02	2441.55	-5.15
L42	55.75 - 50.75	Pole	Max. Vx	14	32.97	4.53	-2437.97
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.25	1.65	-2.98
			Max. Mx	20	-37.32	2607.84	-5.44
			Max. My	14	-37.32	4.75	-2604.08
			Max. Vy	20	-33.52	2607.84	-5.44
L43	50.75 -	Pole	Max. Vx	14	33.48	4.75	-2604.08
			Max. Torque	10			-3.92
			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
	44.6667		Max. Compression	26	-57.59	1.65	-2.99
			Max. Mx	20	-37.62	2632.99	-5.49
			Max. My	14	-37.62	4.78	-2629.21
			Max. Vy	20	-33.59	2632.99	-5.49
			Max. Vx	14	33.54	4.78	-2629.21
			Max. Torque	10			-3.92
L44	44.6667 - 43.6667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.66	1.65	-3.13
			Max. Mx	20	-42.03	2848.24	-5.86
			Max. My	14	-42.03	5.06	-2844.26
			Max. Vy	20	-34.39	2848.24	-5.86
			Max. Vx	14	34.34	5.06	-2844.26
			Max. Torque	10			-3.92
L45	43.6667 - 38.6667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.09	1.65	-3.24
			Max. Mx	20	-44.19	3021.20	-6.14
			Max. My	14	-44.19	5.28	-3017.05
			Max. Vy	20	-34.84	3021.20	-6.14
			Max. Vx	14	34.79	5.28	-3017.05
			Max. Torque	10			-3.92
L46	38.6667 - 34.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.13	1.65	-3.33
			Max. Mx	20	-46.00	3167.02	-6.38
			Max. My	14	-46.01	5.46	-3162.74
			Max. Vy	20	-35.20	3167.02	-6.38
			Max. Vx	14	35.16	5.46	-3162.74
			Max. Torque	10			-3.92
L47	34.5 - 34.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.28	1.65	-3.34
			Max. Mx	20	-46.15	3175.82	-6.40
			Max. My	14	-46.15	5.47	-3171.53
			Max. Vy	20	-35.21	3175.82	-6.40
			Max. Vx	14	35.16	5.47	-3171.53
			Max. Torque	10			-3.92
L48	34.25 - 33	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68.03	1.65	-3.36
			Max. Mx	20	-46.80	3219.90	-6.47
			Max. My	14	-46.81	5.53	-3215.57
			Max. Vy	20	-35.35	3219.90	-6.47
			Max. Vx	14	35.30	5.53	-3215.57
			Max. Torque	10			-3.92
L49	33 - 32.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68.17	1.65	-3.37
			Max. Mx	20	-46.95	3228.73	-6.49
			Max. My	14	-46.95	5.54	-3224.40
			Max. Vy	20	-35.35	3228.73	-6.49
			Max. Vx	14	35.31	5.54	-3224.40
			Max. Torque	10			-3.92
L50	32.75 - 29.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.96	1.65	-3.44
			Max. Mx	20	-48.54	3335.20	-6.66
			Max. My	14	-48.55	5.67	-3330.77
			Max. Vy	20	-35.65	3335.20	-6.66
			Max. Vx	14	35.61	5.67	-3330.77
			Max. Torque	10			-3.92
L51	29.75 - 29.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70.11	1.65	-3.44
			Max. Mx	20	-48.69	3344.11	-6.67
			Max. My	14	-48.70	5.68	-3339.68
			Max. Vy	20	-35.66	3344.11	-6.67
			Max. Vx	14	35.61	5.68	-3339.68
			Max. Torque	10			-3.92
L52	29.5 - 25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.87	1.65	-3.54

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L53	25 - 24.75	Pole	Max. Mx	20	-51.17	3505.50	-6.93
			Max. My	14	-51.17	5.87	-3500.92
			Max. Vy	20	-36.09	3505.50	-6.93
			Max. Vx	14	36.05	5.87	-3500.92
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-73.00	1.65	-3.55
			Max. Mx	20	-51.29	3514.52	-6.95
			Max. My	14	-51.30	5.88	-3509.93
			Max. Vy	20	-36.10	3514.52	-6.95
L54	24.75 - 19.75	Pole	Max. Vx	14	36.05	5.88	-3509.93
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-75.60	1.65	-3.67
			Max. Mx	20	-53.61	3695.90	-7.23
			Max. My	14	-53.61	6.10	-3691.17
			Max. Vy	20	-36.49	3695.90	-7.23
			Max. Vx	14	36.44	6.10	-3691.17
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
L55	19.75 - 14.75	Pole	Max. Compression	26	-78.21	1.65	-3.80
			Max. Mx	20	-55.96	3879.07	-7.52
			Max. My	14	-55.96	6.31	-3874.18
			Max. Vy	20	-36.83	3879.07	-7.52
			Max. Vx	14	36.78	6.31	-3874.18
			Max. Torque	10			-3.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-78.34	1.65	-3.81
			Max. Mx	20	-56.09	3888.27	-7.53
			Max. My	14	-56.10	6.32	-3883.38
L56	14.75 - 14.5	Pole	Max. Vy	20	-36.83	3888.27	-7.53
			Max. Vx	14	36.78	6.32	-3883.38
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-78.48	1.65	-3.81
			Max. Mx	20	-56.21	3897.48	-7.55
			Max. My	14	-56.21	6.33	-3892.58
			Max. Vy	20	-36.85	3897.48	-7.55
			Max. Vx	14	36.79	6.33	-3892.58
			Max. Torque	10			-3.91
L57	14.5 - 14.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-78.48	1.65	-3.81
			Max. Mx	20	-56.21	3897.48	-7.55
			Max. My	14	-56.21	6.33	-3892.58
			Max. Vy	20	-36.85	3897.48	-7.55
			Max. Vx	14	36.79	6.33	-3892.58
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-79.54	1.65	-3.88
			Max. Mx	20	-57.15	3971.36	-7.66
L58	14.25 - 12.25	Pole	Max. My	14	-57.15	6.41	-3966.31
			Max. Vy	20	-37.06	3971.36	-7.66
			Max. Vx	14	36.94	6.41	-3966.31
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-79.68	1.64	-3.88
			Max. Mx	20	-57.28	3980.62	-7.68
			Max. My	14	-57.29	6.42	-3975.55
			Max. Vy	20	-37.06	3980.62	-7.68
			Max. Vx	14	36.94	6.42	-3975.55
L59	12.25 - 12	Pole	Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-79.95	1.64	-3.90
			Max. Mx	20	-57.52	3999.16	-7.71
			Max. My	14	-57.52	6.44	-3994.03
			Max. Vy	20	-37.12	3999.16	-7.71
			Max. Vx	14	36.98	6.44	-3994.03
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-80.09	1.64	-3.91
L60	12 - 11.5	Pole	Max. Mx	20	-57.65	4008.44	-7.72
			Max. My	14	-57.65	6.45	-4003.27
			Max. Vy	20	-37.13	4008.44	-7.72
			Max. Mx	20	-57.65	4008.44	-7.72
			Max. My	14	-57.65	6.45	-4003.27
L61	11.5 - 11.25	Pole	Max. Vy	20	-37.13	4008.44	-7.72
			Max. Mx	20	-57.65	4008.44	-7.72
			Max. My	14	-57.65	6.45	-4003.27
			Max. Vy	20	-37.13	4008.44	-7.72
			Max. Mx	20	-57.65	4008.44	-7.72

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L62	11.25 - 9.25	Pole	Max. Vx	14	36.99	6.45	-4003.27
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-81.21	1.62	-3.96
			Max. Mx	20	-58.64	4082.89	-7.83
			Max. My	14	-58.64	6.54	-4077.40
			Max. Vy	20	-37.34	4082.89	-7.83
			Max. Vx	14	37.14	6.54	-4077.40
L63	9.25 - 9	Pole	Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-81.34	1.62	-3.97
			Max. Mx	20	-58.77	4092.22	-7.85
			Max. My	14	-58.77	6.55	-4086.68
			Max. Vy	20	-37.35	4092.22	-7.85
			Max. Vx	14	37.14	6.55	-4086.68
			Max. Torque	10			-3.91
L64	9 - 4.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.63	1.59	-4.01
			Max. Mx	20	-60.81	4261.21	-8.05
			Max. My	14	-60.81	6.73	-4254.43
			Max. Vy	20	-37.79	4261.21	-8.05
			Max. Vx	14	37.45	6.73	-4254.43
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
L65	4.5 - 4.25	Pole	Max. Compression	26	-83.76	1.59	-4.01
			Max. Mx	20	-60.94	4270.65	-8.06
			Max. My	14	-60.94	6.74	-4263.79
			Max. Vy	20	-37.79	4270.65	-8.06
			Max. Vx	14	37.44	6.74	-4263.79
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.42	1.59	-4.01
L66	4.25 - 3	Pole	Max. Mx	20	-61.52	4317.96	-8.11
			Max. My	14	-61.52	6.79	-4310.63
			Max. Vy	20	-37.94	4317.96	-8.11
			Max. Vx	14	37.55	6.79	-4310.63
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.55	1.59	-4.01
			Max. Mx	20	-61.65	4327.44	-8.12
L67	3 - 2.75	Pole	Max. My	14	-61.65	6.80	-4320.01
			Max. Vy	20	-37.94	4327.44	-8.12
			Max. Vx	14	37.54	6.80	-4320.01
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-85.91	1.59	-4.01
			Max. Mx	20	-62.88	4432.11	-8.23
			Max. My	14	-62.88	6.91	-4423.49
L68	2.75 - 0	Pole	Max. Vy	20	-38.23	4432.11	-8.23
			Max. Vx	14	37.75	6.91	-4423.49
			Max. Torque	10			-3.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-85.91	1.59	-4.01
			Max. Mx	20	-62.88	4432.11	-8.23
			Max. My	14	-62.88	6.91	-4423.49
			Max. Vy	20	-38.23	4432.11	-8.23

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	85.91	0.00	-7.79
	Max. H _x	21	47.18	38.19	-0.04
	Max. H _z	3	47.18	-0.04	37.72
	Max. M _x	2	4419.95	-0.04	37.72
	Max. M _z	8	4431.22	-38.19	0.04
	Max. Torsion	22	3.91	32.71	18.84
	Min. Vert	7	47.18	-32.72	18.89
	Min. H _x	8	62.91	-38.19	0.04

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. H _z	15	47.18	0.04	-37.72
	Min. M _x	14	-4423.49	0.04	-37.72
	Min. M _z	20	-4432.11	38.19	-0.04
	Min. Torsion	10	-3.91	-32.71	-18.84

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturing Moment, M _x kip-ft	Overturing Moment, M _z kip-ft	Torque kip-ft
Dead Only	52.42	0.00	0.00	1.41	0.34	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	62.91	0.04	-37.72	-4419.95	-6.09	-2.37
0.9 Dead+1.0 Wind 0 deg - No Ice	47.18	0.04	-37.72	-4364.11	-6.11	-2.36
1.2 Dead+1.0 Wind 30 deg - No Ice	62.91	19.49	-33.69	-3917.61	-2269.32	-0.48
0.9 Dead+1.0 Wind 30 deg - No Ice	47.18	19.49	-33.69	-3868.40	-2240.66	-0.47
1.2 Dead+1.0 Wind 60 deg - No Ice	62.91	32.72	-18.89	-2214.71	-3837.51	1.54
0.9 Dead+1.0 Wind 60 deg - No Ice	47.18	32.72	-18.89	-2186.93	-3788.75	1.54
1.2 Dead+1.0 Wind 90 deg - No Ice	62.91	38.19	-0.04	-4.78	-4431.22	3.15
0.9 Dead+1.0 Wind 90 deg - No Ice	47.18	38.19	-0.04	-5.13	-4374.94	3.14
1.2 Dead+1.0 Wind 120 deg - No Ice	62.91	32.71	18.84	2207.09	-3831.35	3.91
0.9 Dead+1.0 Wind 120 deg - No Ice	47.18	32.71	18.84	2178.58	-3782.67	3.90
1.2 Dead+1.0 Wind 150 deg - No Ice	62.91	19.03	32.96	3830.24	-2209.38	3.63
0.9 Dead+1.0 Wind 150 deg - No Ice	47.18	19.03	32.96	3781.07	-2181.36	3.61
1.2 Dead+1.0 Wind 180 deg - No Ice	62.91	-0.04	37.72	4423.49	6.91	2.37
0.9 Dead+1.0 Wind 180 deg - No Ice	47.18	-0.04	37.72	4366.72	6.71	2.36
1.2 Dead+1.0 Wind 210 deg - No Ice	62.91	-19.49	33.69	3921.16	2270.19	0.48
0.9 Dead+1.0 Wind 210 deg - No Ice	47.18	-19.49	33.69	3871.02	2241.30	0.47
1.2 Dead+1.0 Wind 240 deg - No Ice	62.91	-32.72	18.89	2218.21	3838.42	-1.54
0.9 Dead+1.0 Wind 240 deg - No Ice	47.18	-32.72	18.89	2189.52	3789.42	-1.54
1.2 Dead+1.0 Wind 270 deg - No Ice	62.91	-38.19	0.04	8.23	4432.11	-3.15
0.9 Dead+1.0 Wind 270 deg - No Ice	47.18	-38.19	0.04	7.69	4375.59	-3.14
1.2 Dead+1.0 Wind 300 deg - No Ice	62.91	-32.71	-18.84	-2203.65	3832.18	-3.91
0.9 Dead+1.0 Wind 300 deg - No Ice	47.18	-32.71	-18.84	-2176.03	3783.28	-3.90
1.2 Dead+1.0 Wind 330 deg - No Ice	62.91	-19.03	-32.96	-3826.75	2210.18	-3.63
0.9 Dead+1.0 Wind 330 deg - No Ice	47.18	-19.03	-32.96	-3778.49	2181.95	-3.61
1.2 Dead+1.0 Ice+1.0 Temp	85.91	-0.00	0.00	4.01	1.59	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	85.91	0.00	-7.79	-935.40	1.10	-0.50
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	85.91	3.89	-6.75	-809.81	-468.29	-0.12
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	85.91	6.74	-3.90	-466.11	-811.74	0.28

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 90	85.91	7.78	-0.00	3.61	-937.24	0.61
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120	85.91	6.74	3.89	473.49	-811.16	0.77
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 150	85.91	3.89	6.74	817.63	-467.28	0.73
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 180	85.91	-0.00	7.79	943.80	2.27	0.50
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210	85.91	-3.89	6.75	818.21	471.65	0.13
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 240	85.91	-6.74	3.90	474.50	815.11	-0.28
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270	85.91	-7.78	0.00	4.78	940.61	-0.61
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	85.91	-6.74	-3.89	-465.10	814.53	-0.77
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	85.91	-3.89	-6.74	-809.23	470.64	-0.73
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	52.42	0.01	-8.18	-952.18	-1.04	-0.52
Dead+Wind 30 deg - Service	52.42	4.23	-7.31	-843.93	-489.21	-0.11
Dead+Wind 60 deg - Service	52.42	7.10	-4.10	-476.57	-827.39	0.34
Dead+Wind 90 deg - Service	52.42	8.29	-0.01	0.07	-955.44	0.70
Dead+Wind 120 deg - Service	52.42	7.10	4.09	477.11	-826.05	0.87
Dead+Wind 150 deg - Service	52.42	4.13	7.15	827.18	-476.23	0.80
Dead+Wind 180 deg - Service	52.42	-0.01	8.18	955.12	1.77	0.52
Dead+Wind 210 deg - Service	52.42	-4.23	7.31	846.87	489.95	0.11
Dead+Wind 240 deg - Service	52.42	-7.10	4.10	479.51	828.13	-0.34
Dead+Wind 270 deg - Service	52.42	-8.29	0.01	2.87	956.18	-0.70
Dead+Wind 300 deg - Service	52.42	-7.10	-4.09	-474.17	826.78	-0.87
Dead+Wind 330 deg - Service	52.42	-4.13	-7.15	-824.24	476.96	-0.80

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-52.42	0.00	0.00	52.42	0.00	0.000%
2	0.04	-62.91	-37.72	-0.04	62.91	37.72	0.000%
3	0.04	-47.18	-37.72	-0.04	47.18	37.72	0.000%
4	19.49	-62.91	-33.69	-19.49	62.91	33.69	0.000%
5	19.49	-47.18	-33.69	-19.49	47.18	33.69	0.000%
6	32.72	-62.91	-18.89	-32.72	62.91	18.89	0.000%
7	32.72	-47.18	-18.89	-32.72	47.18	18.89	0.000%
8	38.19	-62.91	-0.04	-38.19	62.91	0.04	0.000%
9	38.19	-47.18	-0.04	-38.19	47.18	0.04	0.000%
10	32.71	-62.91	18.84	-32.71	62.91	-18.84	0.000%
11	32.71	-47.18	18.84	-32.71	47.18	-18.84	0.000%
12	19.03	-62.91	32.96	-19.03	62.91	-32.96	0.000%
13	19.03	-47.18	32.96	-19.03	47.18	-32.96	0.000%
14	-0.04	-62.91	37.72	0.04	62.91	-37.72	0.000%
15	-0.04	-47.18	37.72	0.04	47.18	-37.72	0.000%
16	-19.49	-62.91	33.69	19.49	62.91	-33.69	0.000%
17	-19.49	-47.18	33.69	19.49	47.18	-33.69	0.000%
18	-32.72	-62.91	18.89	32.72	62.91	-18.89	0.000%
19	-32.72	-47.18	18.89	32.72	47.18	-18.89	0.000%
20	-38.19	-62.91	0.04	38.19	62.91	-0.04	0.000%
21	-38.19	-47.18	0.04	38.19	47.18	-0.04	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
22	-32.71	-62.91	-18.84	32.71	62.91	18.84	0.000%
23	-32.71	-47.18	-18.84	32.71	47.18	18.84	0.000%
24	-19.03	-62.91	-32.96	19.03	62.91	32.96	0.000%
25	-19.03	-47.18	-32.96	19.03	47.18	32.96	0.000%
26	0.00	-85.91	0.00	0.00	85.91	-0.00	0.000%
27	0.00	-85.91	-7.79	-0.00	85.91	7.79	0.000%
28	3.89	-85.91	-6.75	-3.89	85.91	6.75	0.000%
29	6.74	-85.91	-3.90	-6.74	85.91	3.90	0.000%
30	7.78	-85.91	-0.00	-7.78	85.91	0.00	0.000%
31	6.74	-85.91	3.89	-6.74	85.91	-3.89	0.000%
32	3.89	-85.91	6.74	-3.89	85.91	-6.74	0.000%
33	-0.00	-85.91	7.79	0.00	85.91	-7.79	0.000%
34	-3.89	-85.91	6.75	3.89	85.91	-6.75	0.000%
35	-6.74	-85.91	3.90	6.74	85.91	-3.90	0.000%
36	-7.78	-85.91	0.00	7.78	85.91	-0.00	0.000%
37	-6.74	-85.91	-3.89	6.74	85.91	3.89	0.000%
38	-3.89	-85.91	-6.74	3.89	85.91	6.74	0.000%
39	0.01	-52.42	-8.18	-0.01	52.42	8.18	0.000%
40	4.23	-52.42	-7.31	-4.23	52.42	7.31	0.000%
41	7.10	-52.42	-4.10	-7.10	52.42	4.10	0.000%
42	8.29	-52.42	-0.01	-8.29	52.42	0.01	0.000%
43	7.10	-52.42	4.09	-7.10	52.42	-4.09	0.000%
44	4.13	-52.42	7.15	-4.13	52.42	-7.15	0.000%
45	-0.01	-52.42	8.18	0.01	52.42	-8.18	0.000%
46	-4.23	-52.42	7.31	4.23	52.42	-7.31	0.000%
47	-7.10	-52.42	4.10	7.10	52.42	-4.10	0.000%
48	-8.29	-52.42	0.01	8.29	52.42	-0.01	0.000%
49	-7.10	-52.42	-4.09	7.10	52.42	4.09	0.000%
50	-4.13	-52.42	-7.15	4.13	52.42	7.15	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	6	0.00000001	0.00009363
3	Yes	5	0.00000001	0.00080699
4	Yes	7	0.00000001	0.00011652
5	Yes	6	0.00000001	0.00069339
6	Yes	7	0.00000001	0.00011293
7	Yes	6	0.00000001	0.00067415
8	Yes	6	0.00000001	0.00012844
9	Yes	6	0.00000001	0.00004082
10	Yes	7	0.00000001	0.00012107
11	Yes	6	0.00000001	0.00072597
12	Yes	7	0.00000001	0.00010988
13	Yes	6	0.00000001	0.00065527
14	Yes	6	0.00000001	0.00011390
15	Yes	5	0.00000001	0.00097836
16	Yes	7	0.00000001	0.00011807
17	Yes	6	0.00000001	0.00070277
18	Yes	7	0.00000001	0.00011766
19	Yes	6	0.00000001	0.00070382
20	Yes	6	0.00000001	0.00014881
21	Yes	6	0.00000001	0.00004713
22	Yes	7	0.00000001	0.00010944
23	Yes	6	0.00000001	0.00065262
24	Yes	7	0.00000001	0.00012049
25	Yes	6	0.00000001	0.00072243
26	Yes	4	0.00000001	0.00081230
27	Yes	6	0.00000001	0.00096426
28	Yes	7	0.00000001	0.00012393
29	Yes	7	0.00000001	0.00012371
30	Yes	6	0.00000001	0.00096657
31	Yes	7	0.00000001	0.00012678

32	Yes	7	0.00000001	0.00012477
33	Yes	6	0.00000001	0.00097772
34	Yes	7	0.00000001	0.00012704
35	Yes	7	0.00000001	0.00012726
36	Yes	6	0.00000001	0.00097561
37	Yes	7	0.00000001	0.00012411
38	Yes	7	0.00000001	0.00012613
39	Yes	5	0.00000001	0.00012435
40	Yes	5	0.00000001	0.00069621
41	Yes	5	0.00000001	0.00064298
42	Yes	5	0.00000001	0.00016035
43	Yes	5	0.00000001	0.00077933
44	Yes	5	0.00000001	0.00061000
45	Yes	5	0.00000001	0.00012905
46	Yes	5	0.00000001	0.00072512
47	Yes	5	0.00000001	0.00072044
48	Yes	5	0.00000001	0.00016510
49	Yes	5	0.00000001	0.00060398
50	Yes	5	0.00000001	0.00076692

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	27.602	46	1.8593	0.0214
L2	145 - 140	25.665	46	1.8343	0.0162
L3	140 - 135	23.774	46	1.7723	0.0118
L4	135 - 133	21.966	46	1.6713	0.0082
L5	133 - 132.75	21.278	46	1.6174	0.0070
L6	132.75 - 127.75	21.193	46	1.6143	0.0069
L7	127.75 - 123.75	19.539	46	1.5430	0.0057
L8	123.75 - 123.5	18.275	46	1.4737	0.0048
L9	123.5 - 118.75	18.198	46	1.4691	0.0048
L10	118.75 - 118.5	16.763	46	1.4141	0.0042
L11	118.5 - 117	16.689	46	1.4118	0.0042
L12	117 - 116.75	16.248	46	1.3976	0.0041
L13	116.75 - 111.75	16.175	46	1.3944	0.0041
L14	111.75 - 106.75	14.751	46	1.3251	0.0036
L15	106.75 - 101.75	13.403	46	1.2497	0.0031
L16	101.75 - 95.1667	12.136	46	1.1691	0.0027
L17	99.5 - 94.5	11.594	46	1.1322	0.0025
L18	94.5 - 93.75	10.429	46	1.0885	0.0023
L19	93.75 - 93.5	10.259	46	1.0775	0.0023
L20	93.5 - 92.75	10.203	46	1.0742	0.0022
L21	92.75 - 92.5	10.035	46	1.0646	0.0022
L22	92.5 - 91.25	9.979	46	1.0619	0.0022
L23	91.25 - 91	9.703	46	1.0484	0.0021
L24	91 - 89.25	9.648	46	1.0457	0.0021
L25	89.25 - 89	9.268	46	1.0269	0.0021
L26	89 - 85.75	9.214	46	1.0244	0.0021
L27	85.75 - 85.5	8.529	46	0.9909	0.0019
L28	85.5 - 80.5	8.477	46	0.9875	0.0019
L29	80.5 - 75.5	7.479	46	0.9176	0.0017
L30	75.5 - 70.5	6.556	46	0.8464	0.0015
L31	70.5 - 68.083	5.708	46	0.7739	0.0013
L32	68.083 - 67.833	5.325	46	0.7392	0.0012
L33	67.833 - 67	5.286	46	0.7359	0.0012
L34	67 - 66.75	5.159	46	0.7247	0.0012
L35	66.75 - 63.25	5.121	46	0.7220	0.0012
L36	63.25 - 63	4.606	46	0.6835	0.0011
L37	63 - 59.5	4.570	46	0.6811	0.0011
L38	59.5 - 59.25	4.083	46	0.6474	0.0010
L39	59.25 - 56.25	4.049	46	0.6451	0.0010
L40	56.25 - 56	3.653	46	0.6171	0.0009
L41	56 - 55.75	3.621	46	0.6145	0.0009
L42	55.75 - 50.75	3.589	46	0.6112	0.0009
L43	50.75 - 44.6667	2.983	46	0.5461	0.0008

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L44	50 - 43.6667	2.898	46	0.5364	0.0008
L45	43.6667 - 38.6667	2.214	46	0.4896	0.0007
L46	38.6667 - 34.5	1.734	46	0.4268	0.0006
L47	34.5 - 34.25	1.384	46	0.3748	0.0005
L48	34.25 - 33	1.365	46	0.3723	0.0005
L49	33 - 32.75	1.269	46	0.3603	0.0005
L50	32.75 - 29.75	1.250	46	0.3579	0.0005
L51	29.75 - 29.5	1.034	46	0.3284	0.0004
L52	29.5 - 25	1.017	46	0.3261	0.0004
L53	25 - 24.75	0.730	46	0.2836	0.0004
L54	24.75 - 19.75	0.715	46	0.2807	0.0004
L55	19.75 - 14.75	0.452	46	0.2223	0.0003
L56	14.75 - 14.5	0.250	46	0.1635	0.0002
L57	14.5 - 14.25	0.241	46	0.1606	0.0002
L58	14.25 - 12.25	0.233	46	0.1577	0.0002
L59	12.25 - 12	0.172	46	0.1346	0.0002
L60	12 - 11.5	0.165	46	0.1316	0.0002
L61	11.5 - 11.25	0.151	46	0.1257	0.0001
L62	11.25 - 9.25	0.145	46	0.1230	0.0001
L63	9.25 - 9	0.098	46	0.1018	0.0001
L64	9 - 4.5	0.093	46	0.0990	0.0001
L65	4.5 - 4.25	0.023	46	0.0487	0.0001
L66	4.25 - 3	0.021	46	0.0460	0.0001
L67	3 - 2.75	0.010	46	0.0327	0.0000
L68	2.75 - 0	0.009	46	0.0300	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
150.0000	KS24019-L112A	46	27.602	1.8593	0.0214	6461
138.0000	7770.00 w/ Mount Pipe	46	23.038	1.7408	0.0103	2953
128.0000	KRY 112 144/1	46	19.620	1.5470	0.0058	3652

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	127.369	16	8.5756	0.0981
L2	145 - 140	118.485	16	8.4682	0.0741
L3	140 - 135	109.804	16	8.1894	0.0538
L4	135 - 133	101.493	16	7.7286	0.0375
L5	133 - 132.75	98.323	16	7.4815	0.0319
L6	132.75 - 127.75	97.934	16	7.4673	0.0316
L7	127.75 - 123.75	90.316	16	7.1397	0.0260
L8	123.75 - 123.5	84.490	16	6.8210	0.0219
L9	123.5 - 118.75	84.135	16	6.7997	0.0217
L10	118.75 - 118.5	77.520	16	6.5462	0.0192
L11	118.5 - 117	77.179	16	6.5355	0.0191
L12	117 - 116.75	75.144	16	6.4699	0.0186
L13	116.75 - 111.75	74.807	16	6.4552	0.0184
L14	111.75 - 106.75	68.235	16	6.1355	0.0161
L15	106.75 - 101.75	62.011	16	5.7874	0.0140
L16	101.75 - 95.1667	56.161	16	5.4148	0.0121
L17	99.5 - 94.5	53.656	16	5.2444	0.0113
L18	94.5 - 93.75	48.271	16	5.0424	0.0104
L19	93.75 - 93.5	47.485	16	4.9913	0.0102
L20	93.5 - 92.75	47.224	16	4.9763	0.0102

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L21	92.75 - 92.5	46.448	16	4.9316	0.0100
L22	92.5 - 91.25	46.191	16	4.9192	0.0100
L23	91.25 - 91	44.914	16	4.8569	0.0097
L24	91 - 89.25	44.660	16	4.8443	0.0097
L25	89.25 - 89	42.904	16	4.7575	0.0094
L26	89 - 85.75	42.656	16	4.7458	0.0093
L27	85.75 - 85.5	39.484	16	4.5908	0.0088
L28	85.5 - 80.5	39.245	16	4.5750	0.0087
L29	80.5 - 75.5	34.631	16	4.2514	0.0077
L30	75.5 - 70.5	30.359	16	3.9216	0.0068
L31	70.5 - 68.083	26.433	16	3.5860	0.0059
L32	68.083 - 67.833	24.660	16	3.4254	0.0055
L33	67.833 - 67	24.481	16	3.4098	0.0055
L34	67 - 66.75	23.892	16	3.3582	0.0053
L35	66.75 - 63.25	23.716	16	3.3457	0.0053
L36	63.25 - 63	21.332	16	3.1671	0.0049
L37	63 - 59.5	21.166	16	3.1561	0.0049
L38	59.5 - 59.25	18.912	16	2.9998	0.0045
L39	59.25 - 56.25	18.755	16	2.9892	0.0045
L40	56.25 - 56	16.919	16	2.8594	0.0042
L41	56 - 55.75	16.770	16	2.8473	0.0042
L42	55.75 - 50.75	16.621	16	2.8323	0.0042
L43	50.75 - 44.6667	13.816	16	2.5308	0.0036
L44	50 - 43.6667	13.422	16	2.4854	0.0035
L45	43.6667 - 38.6667	10.253	16	2.2688	0.0031
L46	38.6667 - 34.5	8.031	16	1.9776	0.0026
L47	34.5 - 34.25	6.412	16	1.7365	0.0023
L48	34.25 - 33	6.321	16	1.7252	0.0022
L49	33 - 32.75	5.877	16	1.6695	0.0022
L50	32.75 - 29.75	5.790	16	1.6583	0.0021
L51	29.75 - 29.5	4.791	16	1.5218	0.0019
L52	29.5 - 25	4.711	16	1.5110	0.0019
L53	25 - 24.75	3.381	16	1.3141	0.0016
L54	24.75 - 19.75	3.312	16	1.3006	0.0016
L55	19.75 - 14.75	2.093	16	1.0296	0.0012
L56	14.75 - 14.5	1.158	16	0.7573	0.0009
L57	14.5 - 14.25	1.118	16	0.7439	0.0009
L58	14.25 - 12.25	1.080	16	0.7305	0.0009
L59	12.25 - 12	0.796	16	0.6236	0.0007
L60	12 - 11.5	0.764	16	0.6097	0.0007
L61	11.5 - 11.25	0.702	16	0.5821	0.0007
L62	11.25 - 9.25	0.671	16	0.5699	0.0007
L63	9.25 - 9	0.453	16	0.4715	0.0005
L64	9 - 4.5	0.429	16	0.4588	0.0005
L65	4.5 - 4.25	0.107	16	0.2255	0.0003
L66	4.25 - 3	0.095	16	0.2131	0.0002
L67	3 - 2.75	0.048	16	0.1515	0.0002
L68	2.75 - 0	0.040	16	0.1390	0.0002

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
150.0000	KS24019-L112A	16	127.369	8.5756	0.0981	1522
138.0000	7770.00 w/ Mount Pipe	16	106.423	8.0459	0.0472	673
128.0000	KRY 112 144/1	16	90.689	7.1582	0.0262	819

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)	TP16.9374x16x0.1875	5.0000	0.0000	0.0	10.1127	-2.45	591.60	0.004
L2	145 - 140 (2)	TP17.8748x16.9374x0.1875	5.0000	0.0000	0.0	10.6787	-2.68	624.70	0.004
L3	140 - 135 (3)	TP18.8122x17.8748x0.1875	5.0000	0.0000	0.0	11.2446	-6.42	657.81	0.010
L4	135 - 133 (4)	TP19.1871x18.8122x0.1875	2.0000	0.0000	0.0	11.4710	-6.61	671.05	0.010
L5	133 - 132.75 (5)	TP19.234x19.1871x0.45	0.2500	0.0000	0.0	27.2180	-6.66	1592.25	0.004
L6	132.75 - 127.75 (6)	TP20.1714x19.234x0.4375	5.0000	0.0000	0.0	27.8001	-11.45	1626.31	0.007
L7	127.75 - 123.75 (7)	TP20.9213x20.1714x0.425	4.0000	0.0000	0.0	28.0492	-12.10	1640.88	0.007
L8	123.75 - 123.5 (8)	TP20.9681x20.9213x0.425	0.2500	0.0000	0.0	28.1133	-12.16	1644.63	0.007
L9	123.5 - 118.75 (9)	TP21.8587x20.9681x0.7625	4.7500	0.0000	0.0	51.7964	-13.18	3030.09	0.004
L10	118.75 - 118.5 (10)	TP21.9055x21.8587x1.0375	0.2500	0.0000	0.0	69.7149	-13.26	4078.32	0.003
L11	118.5 - 117 (11)	TP22.1868x21.9055x1.0125	1.5000	0.0000	0.0	69.0333	-13.67	4038.45	0.003
L12	117 - 116.75 (12)	TP22.2336x22.1868x0.755	0.2500	0.0000	0.0	51.8829	-13.74	3035.15	0.005
L13	116.75 - 111.75 (13)	TP23.171x22.2336x0.7125	5.0000	0.0000	0.0	51.5254	-14.91	3014.24	0.005
L14	111.75 - 106.75 (14)	TP24.1084x23.171x0.6875	5.0000	0.0000	0.0	51.8480	-16.11	3033.11	0.005
L15	106.75 - 101.75 (15)	TP25.0458x24.1084x0.6625	5.0000	0.0000	0.0	52.0156	-17.36	3042.91	0.006
L16	101.75 - 95.1667 (16)	TP26.28x25.0458x0.6625	6.5833	0.0000	0.0	52.9155	-17.92	3095.56	0.006
L17	95.1667 - 94.5 (17)	TP26.0307x25.0926x0.7875	5.0000	0.0000	0.0	64.0104	-20.17	3744.61	0.005
L18	94.5 - 93.75 (18)	TP26.1714x26.0307x0.7875	0.7500	0.0000	0.0	64.3672	-20.39	3765.48	0.005
L19	93.75 - 93.5 (19)	TP26.2183x26.1714x0.9125	0.2500	0.0000	0.0	74.3547	-20.48	4349.75	0.005
L20	93.5 - 92.75 (20)	TP26.359x26.2183x0.9125	0.7500	0.0000	0.0	74.7681	-20.72	4373.94	0.005
L21	92.75 - 92.5 (21)	TP26.4059x26.359x1.1375	0.2500	0.0000	0.0	92.5518	-20.82	5414.28	0.004
L22	92.5 - 91.25 (22)	TP26.6404x26.4059x1.1125	1.2500	0.0000	0.0	91.4473	-21.28	5349.67	0.004
L23	91.25 - 91 (23)	TP26.6873x26.6404x1.1125	0.2500	0.0000	0.0	91.6154	-21.39	5359.50	0.004
L24	91 - 89.25 (24)	TP27.0156x26.6873x1.1125	1.7500	0.0000	0.0	92.7915	-22.04	5428.30	0.004
L25	89.25 - 89 (25)	TP27.0625x27.0156x1.2125	0.2500	0.0000	0.0	100.9250	-22.16	5904.11	0.004
L26	89 - 85.75 (26)	TP27.6723x27.0625x1.1875	3.2500	0.0000	0.0	101.2710	-23.49	5924.36	0.004
L27	85.75 - 85.5 (27)	TP27.7192x27.6723x0.8625	0.2500	0.0000	0.0	74.5877	-23.58	4363.38	0.005
L28	85.5 - 80.5 (28)	TP28.6572x27.7192x0.8375	5.0000	0.0000	0.0	75.0229	-25.24	4388.84	0.006
L29	80.5 - 75.5 (29)	TP29.5953x28.6572x0.8125	5.0000	0.0000	0.0	75.3030	-26.94	4405.23	0.006
L30	75.5 - 70.5 (30)	TP30.5334x29.5953x0.7875	5.0000	0.0000	0.0	75.4281	-28.66	4412.54	0.006
L31	70.5 - 68.083 (31)	TP30.9868x30.5334x0.7875	2.4170	0.0000	0.0	76.5779	-29.51	4479.81	0.007
L32	68.083 - 67.833 (32)	TP31.0337x30.9868x0.8375	0.2500	0.0000	0.0	81.4317	-29.62	4763.75	0.006
L33	67.833 - 67 (33)	TP31.19x31.0337x0.8375	0.8330	0.0000	0.0	81.8537	-29.92	4788.41	0.006

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L34	(33) 67 - 66.75	TP31.2369x31.19x1.0625	0.2500	0.0000	0.0	103.23	-30.04	6039.20	0.005
L35	(34) 66.75 - 63.25	TP31.8935x31.2369x1.03	3.5000	0.0000	0.0	103.08	-31.55	6030.32	0.005
L36	(35) 63.25 - 63	TP31.9404x31.8935x1.21	0.2500	0.0000	0.0	119.97	-31.69	7018.22	0.005
L37	(36) 63 - 59.5 (37)	TP32.5971x31.9404x1.18	3.5000	0.0000	0.0	120.10	-33.40	7025.99	0.005
L38	(38) 59.5 - 59.25	TP32.644x32.5971x1.237	0.2500	0.0000	0.0	125.14	-33.53	7321.10	0.005
L39	(39) 59.25 - 56.25	TP33.2068x32.644x1.212	3.0000	0.0000	0.0	124.91	-35.05	7307.46	0.005
L40	(40) 56.25 - 56	TP33.2537x33.2068x1.06	0.2500	0.0000	0.0	110.13	-35.18	6442.85	0.005
L41	(41) 56 - 55.75	TP33.3006x33.2537x0.83	0.2500	0.0000	0.0	87.545	-35.28	5121.38	0.007
L42	(42) 55.75 - 50.75	TP34.2387x33.3006x0.82	5.0000	0.0000	0.0	88.763	-37.24	5192.66	0.007
L43	(43) 50.75 - 44.6667	TP35.38x34.2387x0.8125	6.0833	0.0000	0.0	87.819	-37.55	5137.44	0.007
L44	(44) 44.6667 - 43.6667	TP34.942x33.7544x0.875	6.3333	0.0000	0.0	95.983	-41.96	5615.05	0.007
L45	(45) 43.6667 - 38.6667	TP35.8795x34.942x0.862	5.0000	0.0000	0.0	97.251	-44.12	5689.19	0.008
L46	(46) 38.6667 - 34.5	TP36.6608x35.8795x0.85	4.1667	0.0000	0.0	98.014	-45.95	5733.84	0.008
L47	(47) 34.5 - 34.25	TP36.7077x36.6608x1.1	0.2500	0.0000	0.0	126.12	-46.10	7378.17	0.006
L48	(48) 34.25 - 33	TP36.9421x36.7077x1.1	1.2500	0.0000	0.0	126.95	-46.75	7426.74	0.006
L49	(49) 33 - 32.75	TP36.989x36.9421x1.1	0.2500	0.0000	0.0	127.11	-46.90	7436.45	0.006
L50	(50) 32.75 - 29.75	TP37.5515x36.989x1.075	3.0000	0.0000	0.0	126.26	-48.50	7386.41	0.007
L51	(51) 29.75 - 29.5	TP37.5984x37.5515x1.12	0.2500	0.0000	0.0	132.12	-48.65	7729.31	0.006
L52	(52) 29.5 - 25	TP38.4422x37.5984x1.1	4.5000	0.0000	0.0	132.26	-51.12	7737.57	0.007
L53	(53) 25 - 24.75	TP38.4891x38.4422x0.86	0.2500	0.0000	0.0	104.49	-51.25	6113.16	0.008
L54	(54) 24.75 - 19.75	TP39.4266x38.4891x0.85	5.0000	0.0000	0.0	105.58	-53.57	6176.68	0.009
L55	(55) 19.75 - 14.75	TP40.3642x39.4266x0.82	5.0000	0.0000	0.0	105.03	-55.94	6144.60	0.009
L56	(56) 14.75 - 14.5	TP40.4111x40.3642x0.82	0.2500	0.0000	0.0	105.16	-56.07	6151.88	0.009
L57	(57) 14.5 - 14.25	TP40.458x40.4111x0.825	0.2500	0.0000	0.0	105.16	-56.08	6151.88	0.009
L58	(58) 14.25 - 12.25	TP40.833x40.458x0.825	2.0000	0.0000	0.0	105.28	-56.21	6159.17	0.009
L59	(59) 12.25 - 12	TP40.8799x40.833x0.787	0.2500	0.0000	0.0	101.54	-57.15	5940.40	0.010
L60	(60) 12 - 11.5	TP40.9736x40.8799x0.78	0.5000	0.0000	0.0	101.66	-57.28	5947.36	0.010
L61	(61) 11.5 - 11.25	TP41.0205x40.9736x0.9	0.2500	0.0000	0.0	116.13	-57.52	6793.80	0.008
L62	(62) 11.25 - 9.25	TP41.3955x41.0205x0.88	2.0000	0.0000	0.0	114.69	-57.65	6709.37	0.009
L63	(63) 9.25 - 9	TP41.4424x41.3955x0.85	0.2500	0.0000	0.0	110.97	-58.65	6491.93	0.009
L64	(64) 9 - 4.5	TP42.2862x41.4424x0.82	4.5000	0.0000	0.0	107.90	-58.78	6312.16	0.009
L65	(65) 4.5 - 4.25	TP42.3331x42.2862x0.85	0.2500	0.0000	0.0	113.41	-60.83	6634.54	0.009
L66	(66) 4.25 - 3	TP42.5675x42.3331x0.85	1.2500	0.0000	0.0	113.53	-60.96	6642.04	0.009
L67	(67) 3 - 2.75	TP42.6143x42.5675x0.83	0.2500	0.0000	0.0	112.53	-61.54	6583.31	0.009

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L68	2.75 - 0 (68)	TP43.13x42.6143x0.825	2.7500	0.0000	0.0	111.01 30	-61.68	6494.28	0.009

Pole Bending Design Data

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 $\frac{M_{uy}}{\phi M_{ny}}$
L1	150 - 145 (1)	TP16.9374x16x0.1875	51.45	246.96	0.208	0.00	246.96	0.000
L2	145 - 140 (2)	TP17.8748x16.9374x0.1875	104.43	270.48	0.386	0.00	270.48	0.000
L3	140 - 135 (3)	TP18.8122x17.8748x0.1875	203.62	294.47	0.691	0.00	294.47	0.000
L4	135 - 133 (4)	TP19.1871x18.8122x0.1875	242.76	304.18	0.798	0.00	304.18	0.000
L5	133 - 132.75 (5)	TP19.234x19.1871x0.45	247.68	755.73	0.328	0.00	755.73	0.000
L6	132.75 - 127.75 (6)	TP20.1714x19.234x0.4375	348.53	812.34	0.429	0.00	812.34	0.000
L7	127.75 - 123.75 (7)	TP20.9213x20.1714x0.425	450.63	852.48	0.529	0.00	852.48	0.000
L8	123.75 - 123.5 (8)	TP20.9681x20.9213x0.425	457.06	856.42	0.534	0.00	856.42	0.000
L9	123.5 - 118.75 (9)	TP21.8587x20.9681x0.7625	580.66	1596.19	0.364	0.00	1596.19	0.000
L10	118.75 - 118.5 (10)	TP21.9055x21.8587x1.0375	587.25	2097.67	0.280	0.00	2097.67	0.000
L11	118.5 - 117 (11)	TP22.1868x21.9055x1.0125	626.99	2111.46	0.297	0.00	2111.46	0.000
L12	117 - 116.75 (12)	TP22.2336x22.1868x0.75	633.64	1630.16	0.389	0.00	1630.16	0.000
L13	116.75 - 111.75 (13)	TP23.171x22.2336x0.7125	768.26	1697.62	0.453	0.00	1697.62	0.000
L14	111.75 - 106.75 (14)	TP24.1084x23.171x0.6875	905.88	1785.55	0.507	0.00	1785.55	0.000
L15	106.75 - 101.75 (15)	TP25.0458x24.1084x0.6625	1046.43	1868.89	0.560	0.00	1868.89	0.000
L16	101.75 - 95.1667 (16)	TP26.28x25.0458x0.6625	1110.63	1934.99	0.574	0.00	1934.99	0.000
L17	95.1667 - 94.5 (17)	TP26.0307x25.0926x0.7875	1255.78	2371.67	0.529	0.00	2371.67	0.000
L18	94.5 - 93.75 (18)	TP26.1714x26.0307x0.7875	1277.85	2398.58	0.533	0.00	2398.58	0.000
L19	93.75 - 93.5 (19)	TP26.2183x26.1714x0.9125	1285.22	2748.81	0.468	0.00	2748.81	0.000
L20	93.5 - 92.75 (20)	TP26.359x26.2183x0.9125	1307.38	2780.00	0.470	0.00	2780.00	0.000
L21	92.75 - 92.5 (21)	TP26.4059x26.359x1.1375	1314.78	3387.20	0.388	0.00	3387.20	0.000
L22	92.5 - 91.25 (22)	TP26.6404x26.4059x1.1125	1351.92	3385.81	0.399	0.00	3385.81	0.000
L23	91.25 - 91 (23)	TP26.6873x26.6404x1.1125	1359.37	3398.52	0.400	0.00	3398.52	0.000
L24	91 - 89.25 (24)	TP27.0156x26.6873x1.1125	1411.76	3488.18	0.405	0.00	3488.18	0.000
L25	89.25 - 89 (25)	TP27.0625x27.0156x1.2125	1419.28	3771.84	0.376	0.00	3771.84	0.000
L26	89 - 85.75 (26)	TP27.6723x27.0625x1.1875	1517.76	3885.39	0.391	0.00	3885.39	0.000
L27	85.75 - 85.5 (27)	TP27.7192x27.6723x0.8625	1525.39	2937.60	0.519	0.00	2937.60	0.000
L28	85.5 - 80.5 (28)	TP28.6572x27.7192x0.8375	1679.58	3066.67	0.548	0.00	3066.67	0.000
L29	80.5 - 75.5 (29)	TP29.5953x28.6572x0.8125	1836.66	3190.48	0.576	0.00	3190.48	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 $\frac{M_{uy}}{\phi M_{ny}}$
L30	75.5 - 70.5 (30)	TP30.5334x29.5953x0.78 75	1996.54	3308.36	0.603	0.00	3308.36	0.000
L31	70.5 - 68.083 (31)	TP30.9868x30.5334x0.78 75	2074.82	3411.32	0.608	0.00	3411.32	0.000
L32	68.083 - 67.833 (32)	TP31.0337x30.9868x0.83 75	2082.96	3621.31	0.575	0.00	3621.31	0.000
L33	67.833 - 67 (33)	TP31.19x31.0337x0.8375	2110.11	3659.40	0.577	0.00	3659.40	0.000
L34	67 - 66.75 (34)	TP31.2369x31.19x1.0625	2118.27	4554.43	0.465	0.00	4554.43	0.000
L35	66.75 - 63.25 (35)	TP31.8935x31.2369x1.03 75	2233.34	4657.61	0.480	0.00	4657.61	0.000
L36	63.25 - 63 (36)	TP31.9404x31.8935x1.21 25	2241.62	5367.82	0.418	0.00	5367.82	0.000
L37	63 - 59.5 (37)	TP32.5971x31.9404x1.18 75	2358.29	5501.73	0.429	0.00	5501.73	0.000
L38	59.5 - 59.25 (38)	TP32.644x32.5971x1.237 5	2366.68	5723.44	0.414	0.00	5723.44	0.000
L39	59.25 - 56.25 (39)	TP33.2068x32.644x1.212 5	2467.98	5828.15	0.423	0.00	5828.15	0.000
L40	56.25 - 56 (40)	TP33.2537x33.2068x1.06 25	2476.47	5194.68	0.477	0.00	5194.68	0.000
L41	56 - 55.75 (41)	TP33.3006x33.2537x0.83 75	2484.97	4193.35	0.593	0.00	4193.35	0.000
L42	55.75 - 50.75 (42)	TP34.2387x33.3006x0.82 5	2656.30	4380.94	0.606	0.00	4380.94	0.000
L43	50.75 - 44.6667 (43)	TP35.38x34.2387x0.8125	2682.22	4356.28	0.616	0.00	4356.28	0.000
L44	44.6667 - 43.6667 (44)	TP34.942x33.7544x0.875	2904.01	4825.23	0.602	0.00	4825.23	0.000
L45	43.6667 - 38.6667 (45)	TP35.8795x34.942x0.862 5	3082.20	5030.46	0.613	0.00	5030.46	0.000
L46	38.6667 - 34.5 (46)	TP36.6608x35.8795x0.85	3232.43	5189.40	0.623	0.00	5189.40	0.000
L47	34.5 - 34.25 (47)	TP36.7077x36.6608x1.1	3241.49	6593.63	0.492	0.00	6593.63	0.000
L48	34.25 - 33 (48)	TP36.9421x36.7077x1.1	3286.90	6682.03	0.492	0.00	6682.03	0.000
L49	33 - 32.75 (49)	TP36.989x36.9421x1.1	3296.00	6699.79	0.492	0.00	6699.79	0.000
L50	32.75 - 29.75 (50)	TP37.5515x36.989x1.075	3405.65	6771.40	0.503	0.00	6771.40	0.000
L51	29.75 - 29.5 (51)	TP37.5984x37.5515x1.12 5	3414.83	7075.70	0.483	0.00	7075.70	0.000
L52	29.5 - 25 (52)	TP38.4422x37.5984x1.1	3580.99	7261.75	0.493	0.00	7261.75	0.000
L53	25 - 24.75 (53)	TP38.4891x38.4422x0.86 25	3590.28	5817.86	0.617	0.00	5817.86	0.000
L54	24.75 - 19.75 (54)	TP39.4266x38.4891x0.85	3776.96	6031.97	0.626	0.00	6031.97	0.000
L55	19.75 - 14.75 (55)	TP40.3642x39.4266x0.82 5	3965.40	6157.42	0.644	0.00	6157.42	0.000
L56	14.75 - 14.5 (56)	TP40.4111x40.3642x0.82 5	3974.87	6172.17	0.644	0.00	6172.17	0.000
L57	14.5 - 14.25 (57)	TP40.458x40.4111x0.825	3974.87	6172.17	0.644	0.00	6172.17	0.000
L58	14.25 - 12.25 (58)	TP40.833x40.458x0.825	3984.33	6186.95	0.644	0.00	6186.95	0.000
L59	12.25 - 12 (59)	TP40.8799x40.833x0.787 5	4060.23	6036.11	0.673	0.00	6036.11	0.000
L60	12 - 11.5 (60)	TP40.9736x40.8799x0.78 75	4069.74	6050.39	0.673	0.00	6050.39	0.000
L61	11.5 - 11.25 (61)	TP41.0205x40.9736x0.9	4088.76	6889.23	0.594	0.00	6889.23	0.000
L62	11.25 - 9.25 (62)	TP41.3955x41.0205x0.88 75	4098.27	6816.00	0.601	0.00	6816.00	0.000
L63	9.25 - 9 (63)	TP41.4424x41.3955x0.85	4174.56	6670.39	0.626	0.00	6670.39	0.000
L64	9 - 4.5 (64)	TP42.2862x41.4424x0.82 5	4184.11	6501.33	0.644	0.00	6501.33	0.000
L65	4.5 - 4.25 (65)	TP42.3331x42.2862x0.85	4356.72	6969.75	0.625	0.00	6969.75	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 $\frac{M_{uy}}{\phi M_{ny}}$
L66	4.25 - 3 (66)	TP42.5675x42.3331x0.85	4366.35	6985.68	0.625	0.00	6985.68	0.000
L67	3 - 2.75 (67)	TP42.6143x42.5675x0.8375	4414.57	6968.00	0.634	0.00	6968.00	0.000
L68	2.75 - 0 (68)	TP43.13x42.6143x0.825	4424.24	6885.76	0.643	0.00	6885.76	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)	TP16.9374x16x0.1875	10.40	177.48	0.059	2.02	261.49	0.008
L2	145 - 140 (2)	TP17.8748x16.9374x0.1875	10.80	187.41	0.058	2.02	291.58	0.007
L3	140 - 135 (3)	TP18.8122x17.8748x0.1875	19.50	197.34	0.099	1.56	323.30	0.005
L4	135 - 133 (4)	TP19.1871x18.8122x0.1875	19.65	201.32	0.098	1.56	336.45	0.005
L5	133 - 132.75 (5)	TP19.234x19.1871x0.45	19.67	477.68	0.041	1.56	789.26	0.002
L6	132.75 - 127.75 (6)	TP20.1714x19.234x0.4375	25.35	487.89	0.052	1.56	846.91	0.002
L7	127.75 - 123.75 (7)	TP20.9213x20.1714x0.425	25.70	492.26	0.052	1.56	887.51	0.002
L8	123.75 - 123.5 (8)	TP20.9681x20.9213x0.425	25.72	493.39	0.052	1.56	891.57	0.002
L9	123.5 - 118.75 (9)	TP21.8587x20.9681x0.7625	26.36	909.03	0.029	0.48	1686.87	0.000
L10	118.75 - 118.5 (10)	TP21.9055x21.8587x1.0375	26.39	1223.50	0.022	0.48	2245.87	0.000
L11	118.5 - 117 (11)	TP22.1868x21.9055x1.0125	26.59	1211.54	0.022	0.48	2256.54	0.000
L12	117 - 116.75 (12)	TP22.2336x22.1868x0.75	26.62	910.55	0.029	0.48	1720.72	0.000
L13	116.75 - 111.75 (13)	TP23.171x22.2336x0.7125	27.23	904.27	0.030	0.48	1786.40	0.000
L14	111.75 - 106.75 (14)	TP24.1084x23.171x0.6875	27.82	909.93	0.031	0.48	1874.62	0.000
L15	106.75 - 101.75 (15)	TP25.0458x24.1084x0.6625	28.41	912.87	0.031	0.48	1957.96	0.000
L16	101.75 - 95.1667 (16)	TP26.28x25.0458x0.6625	28.66	928.67	0.031	0.48	2026.28	0.000
L17	95.1667 - 94.5 (17)	TP26.0307x25.0926x0.7875	29.38	1123.38	0.026	0.48	2494.43	0.000
L18	94.5 - 93.75 (18)	TP26.1714x26.0307x0.7875	29.47	1129.64	0.026	0.48	2522.32	0.000
L19	93.75 - 93.5 (19)	TP26.2183x26.1714x0.9125	29.50	1304.93	0.023	0.48	2904.72	0.000
L20	93.5 - 92.75 (20)	TP26.359x26.2183x0.9125	29.59	1312.18	0.023	0.48	2937.12	0.000
L21	92.75 - 92.5 (21)	TP26.4059x26.359x1.1375	29.62	1624.28	0.018	0.48	3610.27	0.000
L22	92.5 - 91.25 (22)	TP26.6404x26.4059x1.1125	29.79	1604.90	0.019	0.48	3603.82	0.000
L23	91.25 - 91 (23)	TP26.6873x26.6404x1.1125	29.82	1607.85	0.019	0.48	3617.07	0.000
L24	91 - 89.25 (24)	TP27.0156x26.6873x1.1125	30.06	1628.49	0.018	0.48	3710.54	0.000
L25	89.25 - 89 (25)	TP27.0625x27.0156x1.2125	30.08	1771.23	0.017	0.48	4027.51	0.000
L26	89 - 85.75 (26)	TP27.6723x27.0625x1.1875	30.52	1777.31	0.017	0.48	4140.56	0.000
L27	85.75 - 85.5 (27)	TP27.7192x27.6723x0.8625	30.54	1309.01	0.023	0.48	3092.41	0.000
L28	85.5 - 80.5 (28)	TP28.6572x27.7192x0.8375	31.14	1316.65	0.024	0.48	3221.98	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
L29	80.5 - 75.5 (29)	TP29.5953x28.6572x0.81 25	31.71	1321.57	0.024	0.48	3345.97	0.000
L30	75.5 - 70.5 (30)	TP30.5334x29.5953x0.78 75	32.26	1323.76	0.024	0.48	3463.67	0.000
L31	70.5 - 68.083 (31)	TP30.9868x30.5334x0.78 75	32.53	1343.94	0.024	0.48	3570.07	0.000
L32	68.083 - 67.833 (32)	TP31.0337x30.9868x0.83 75	32.54	1429.13	0.023	0.48	3795.97	0.000
L33	67.833 - 67 (33)	TP31.19x31.0337x0.8375	32.64	1436.52	0.023	0.48	3835.37	0.000
L34	67 - 66.75 (34)	TP31.2369x31.19x1.0625	32.66	1811.76	0.018	0.48	4808.82	0.000
L35	66.75 - 63.25 (35)	TP31.8935x31.2369x1.03 75	33.09	1809.10	0.018	0.48	4910.23	0.000
L36	63.25 - 63 (36)	TP31.9404x31.8935x1.21 25	33.11	2105.47	0.016	0.48	5690.91	0.000
L37	63 - 59.5 (37)	TP32.5971x31.9404x1.18 75	33.56	2107.80	0.016	0.48	5823.59	0.000
L38	59.5 - 59.25 (38)	TP32.644x32.5971x1.237 5	33.58	2196.33	0.015	0.48	6067.60	0.000
L39	59.25 - 56.25 (39)	TP33.2068x32.644x1.212 5	33.95	2192.24	0.015	0.48	6169.65	0.000
L40	56.25 - 56 (40)	TP33.2537x33.2068x1.06 25	33.97	1932.86	0.018	0.48	5473.15	0.000
L41	56 - 55.75 (41)	TP33.3006x33.2537x0.83 75	34.00	1536.41	0.022	0.48	4387.32	0.000
L42	55.75 - 50.75 (42)	TP34.2387x33.3006x0.82 5	34.53	1557.80	0.022	0.48	4578.63	0.000
L43	50.75 - 44.6667 (43)	TP35.38x34.2387x0.8125	34.60	1541.23	0.022	0.48	4550.71	0.000
L44	44.6667 - 43.6667 (44)	TP34.942x33.7544x0.875	35.42	1684.51	0.021	0.48	5047.87	0.000
L45	43.6667 - 38.6667 (45)	TP35.8795x34.942x0.862 5	35.88	1706.76	0.021	0.48	5257.15	0.000
L46	38.6667 - 34.5 (46)	TP36.6608x35.8795x0.85	36.25	1720.15	0.021	0.48	5418.52	0.000
L47	34.5 - 34.25 (47)	TP36.7077x36.6608x1.1	36.26	2213.45	0.016	0.48	6932.88	0.000
L48	34.25 - 33 (48)	TP36.9421x36.7077x1.1	36.40	2228.02	0.016	0.48	7024.46	0.000
L49	33 - 32.75 (49)	TP36.989x36.9421x1.1	36.40	2230.93	0.016	0.48	7042.84	0.000
L50	32.75 - 29.75 (50)	TP37.5515x36.989x1.075	36.70	2215.92	0.017	0.48	7109.97	0.000
L51	29.75 - 29.5 (51)	TP37.5984x37.5515x1.12 5	36.71	2318.79	0.016	0.48	7439.40	0.000
L52	29.5 - 25 (52)	TP38.4422x37.5984x1.1	37.14	2321.27	0.016	0.48	7624.75	0.000
L53	25 - 24.75 (53)	TP38.4891x38.4422x0.86 25	37.14	1833.95	0.020	0.48	6069.90	0.000
L54	24.75 - 19.75 (54)	TP39.4266x38.4891x0.85	37.53	1853.00	0.020	0.48	6287.82	0.000
L55	19.75 - 14.75 (55)	TP40.3642x39.4266x0.82 5	37.87	1843.38	0.021	0.48	6411.25	0.000
L56	14.75 - 14.5 (56)	TP40.4111x40.3642x0.82 5	37.86	1845.57	0.021	0.48	6426.46	0.000
L57	14.5 - 14.25 (57)	TP40.458x40.4111x0.825	37.88	1847.75	0.020	0.48	6426.46	0.000
L58	14.25 - 12.25 (58)	TP40.833x40.458x0.825	37.96	1856.49	0.020	0.48	6441.69	0.000
L59	12.25 - 12 (59)	TP40.8799x40.833x0.787 5	38.02	1784.21	0.021	0.48	6277.55	0.000
L60	12 - 11.5 (60)	TP40.9736x40.8799x0.78 75	38.06	1788.38	0.021	0.48	6292.26	0.000
L61	11.5 - 11.25 (61)	TP41.0205x40.9736x0.9	38.07	2040.52	0.019	0.48	7184.43	0.000
L62	11.25 - 9.25 (62)	TP41.3955x41.0205x0.88 75	38.15	2022.21	0.019	0.48	7105.66	0.000
L63	9.25 - 9 (63)	TP41.4424x41.3955x0.85	38.22	1949.83	0.020	0.48	6946.04	0.000
L64	9 - 4.5 (64)	TP42.2862x41.4424x0.82	38.31	1903.48	0.020	0.48	6765.67	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 $\frac{T_u}{\phi T_n}$
		5						
L65	4.5 - 4.25 (65)	TP42.3331x42.2862x0.85	38.53	1992.61	0.019	0.48	7254.57	0.000
L66	4.25 - 3 (66)	TP42.5675x42.3331x0.85	38.68	2003.87	0.019	0.48	7270.99	0.000
L67	3 - 2.75 (67)	TP42.6143x42.5675x0.83	38.67	1977.21	0.020	0.48	7249.59	0.000
		75						
L68	2.75 - 0 (68)	TP43.13x42.6143x0.825	38.83	1960.31	0.020	0.48	7161.72	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
L1	150 - 145 (1)	0.004	0.208	0.000	0.059	0.008	0.217	1.050	4.8.2
L2	145 - 140 (2)	0.004	0.386	0.000	0.058	0.007	0.395	1.050	4.8.2
L3	140 - 135 (3)	0.010	0.691	0.000	0.099	0.005	0.712	1.050	4.8.2
L4	135 - 133 (4)	0.010	0.798	0.000	0.098	0.005	0.818	1.050	4.8.2
L5	133 - 132.75 (5)	0.004	0.328	0.000	0.041	0.002	0.334	1.050	4.8.2
L6	132.75 - 127.75 (6)	0.007	0.429	0.000	0.052	0.002	0.439	1.050	4.8.2
L7	127.75 - 123.75 (7)	0.007	0.529	0.000	0.052	0.002	0.539	1.050	4.8.2
L8	123.75 - 123.5 (8)	0.007	0.534	0.000	0.052	0.002	0.544	1.050	4.8.2
L9	123.5 - 118.75 (9)	0.004	0.364	0.000	0.029	0.000	0.369	1.050	4.8.2
L10	118.75 - 118.5 (10)	0.003	0.280	0.000	0.022	0.000	0.284	1.050	4.8.2
L11	118.5 - 117 (11)	0.003	0.297	0.000	0.022	0.000	0.301	1.050	4.8.2
L12	117 - 116.75 (12)	0.005	0.389	0.000	0.029	0.000	0.394	1.050	4.8.2
L13	116.75 - 111.75 (13)	0.005	0.453	0.000	0.030	0.000	0.458	1.050	4.8.2
L14	111.75 - 106.75 (14)	0.005	0.507	0.000	0.031	0.000	0.514	1.050	4.8.2
L15	106.75 - 101.75 (15)	0.006	0.560	0.000	0.031	0.000	0.567	1.050	4.8.2
L16	101.75 - 95.1667 (16)	0.006	0.574	0.000	0.031	0.000	0.581	1.050	4.8.2
L17	95.1667 - 94.5 (17)	0.005	0.529	0.000	0.026	0.000	0.536	1.050	4.8.2
L18	94.5 - 93.75 (18)	0.005	0.533	0.000	0.026	0.000	0.539	1.050	4.8.2
L19	93.75 - 93.5 (19)	0.005	0.468	0.000	0.023	0.000	0.473	1.050	4.8.2
L20	93.5 - 92.75 (20)	0.005	0.470	0.000	0.023	0.000	0.476	1.050	4.8.2
L21	92.75 - 92.5 (21)	0.004	0.388	0.000	0.018	0.000	0.392	1.050	4.8.2
L22	92.5 - 91.25 (22)	0.004	0.399	0.000	0.019	0.000	0.404	1.050	4.8.2
L23	91.25 - 91 (23)	0.004	0.400	0.000	0.019	0.000	0.404	1.050	4.8.2
L24	91 - 89.25 (24)	0.004	0.405	0.000	0.018	0.000	0.409	1.050	4.8.2
L25	89.25 - 89 (25)	0.004	0.376	0.000	0.017	0.000	0.380	1.050	4.8.2
L26	89 - 85.75 (26)	0.004	0.391	0.000	0.017	0.000	0.395	1.050	4.8.2
L27	85.75 - 85.5 (27)	0.005	0.519	0.000	0.023	0.000	0.525	1.050	4.8.2
L28	85.5 - 80.5	0.006	0.548	0.000	0.024	0.000	0.554	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u ϕP_n	M_{ux} ϕM_{nx}	M_{uy} ϕM_{ny}	V_u ϕV_n	T_u ϕT_n			
L29	(28) 80.5 - 75.5	0.006	0.576	0.000	0.024	0.000	0.582	1.050	4.8.2
L30	(29) 75.5 - 70.5	0.006	0.603	0.000	0.024	0.000	0.611	1.050	4.8.2
L31	(30) 70.5 - 68.083	0.007	0.608	0.000	0.024	0.000	0.615	1.050	4.8.2
L32	(31) 68.083 -	0.006	0.575	0.000	0.023	0.000	0.582	1.050	4.8.2
L33	67.833 (32) 67.833 - 67	0.006	0.577	0.000	0.023	0.000	0.583	1.050	4.8.2
L34	(33) 67 - 66.75	0.005	0.465	0.000	0.018	0.000	0.470	1.050	4.8.2
L35	(34) 66.75 - 63.25	0.005	0.480	0.000	0.018	0.000	0.485	1.050	4.8.2
L36	(35) 63.25 - 63	0.005	0.418	0.000	0.016	0.000	0.422	1.050	4.8.2
L37	(36) 63 - 59.5 (37)	0.005	0.429	0.000	0.016	0.000	0.434	1.050	4.8.2
L38	59.5 - 59.25	0.005	0.414	0.000	0.015	0.000	0.418	1.050	4.8.2
L39	(38) 59.25 - 56.25	0.005	0.423	0.000	0.015	0.000	0.428	1.050	4.8.2
L40	(39) 56.25 - 56	0.005	0.477	0.000	0.018	0.000	0.483	1.050	4.8.2
L41	(40) 56 - 55.75	0.007	0.593	0.000	0.022	0.000	0.600	1.050	4.8.2
L42	(41) 55.75 - 50.75	0.007	0.606	0.000	0.022	0.000	0.614	1.050	4.8.2
L43	(42) 50.75 -	0.007	0.616	0.000	0.022	0.000	0.624	1.050	4.8.2
L44	44.6667 (43) 44.6667 -	0.007	0.602	0.000	0.021	0.000	0.610	1.050	4.8.2
L45	43.6667 (44) 43.6667 -	0.008	0.613	0.000	0.021	0.000	0.621	1.050	4.8.2
L46	38.6667 (45) 38.6667 -	0.008	0.623	0.000	0.021	0.000	0.631	1.050	4.8.2
L47	34.5 (46) 34.5 - 34.25	0.006	0.492	0.000	0.016	0.000	0.498	1.050	4.8.2
L48	(47) 34.25 - 33	0.006	0.492	0.000	0.016	0.000	0.498	1.050	4.8.2
L49	(48) 33 - 32.75	0.006	0.492	0.000	0.016	0.000	0.499	1.050	4.8.2
L50	(49) 32.75 - 29.75	0.007	0.503	0.000	0.017	0.000	0.510	1.050	4.8.2
L51	(50) 29.75 - 29.5	0.006	0.483	0.000	0.016	0.000	0.489	1.050	4.8.2
L52	(51) 29.5 - 25 (52)	0.007	0.493	0.000	0.016	0.000	0.500	1.050	4.8.2
L53	25 - 24.75	0.008	0.617	0.000	0.020	0.000	0.626	1.050	4.8.2
L54	(53) 24.75 - 19.75	0.009	0.626	0.000	0.020	0.000	0.635	1.050	4.8.2
L55	(54) 19.75 - 14.75	0.009	0.644	0.000	0.021	0.000	0.654	1.050	4.8.2
L56	(55) 14.75 - 14.5	0.009	0.644	0.000	0.021	0.000	0.654	1.050	4.8.2
L57	(56) 14.5 - 14.25	0.009	0.644	0.000	0.020	0.000	0.654	1.050	4.8.2
L58	(57) 14.25 - 12.25	0.009	0.644	0.000	0.020	0.000	0.654	1.050	4.8.2
L59	(58) 12.25 - 12	0.010	0.673	0.000	0.021	0.000	0.683	1.050	4.8.2
L60	(59) 12 - 11.5 (60)	0.010	0.673	0.000	0.021	0.000	0.683	1.050	4.8.2
L61	11.5 - 11.25	0.008	0.594	0.000	0.019	0.000	0.602	1.050	4.8.2
L62	(61) 11.25 - 9.25	0.009	0.601	0.000	0.019	0.000	0.610	1.050	4.8.2
L63	(62) 9.25 - 9 (63)	0.009	0.626	0.000	0.020	0.000	0.635	1.050	4.8.2
L64	9 - 4.5 (64)	0.009	0.644	0.000	0.020	0.000	0.653	1.050	4.8.2
L65	4.5 - 4.25 (65)	0.009	0.625	0.000	0.019	0.000	0.635	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
L66	4.25 - 3 (66)	0.009	0.625	0.000	0.019	0.000	0.635	1.050	4.8.2
L67	3 - 2.75 (67)	0.009	0.634	0.000	0.020	0.000	0.643	1.050	4.8.2
L68	2.75 - 0 (68)	0.009	0.643	0.000	0.020	0.000	0.652	1.050	4.8.2

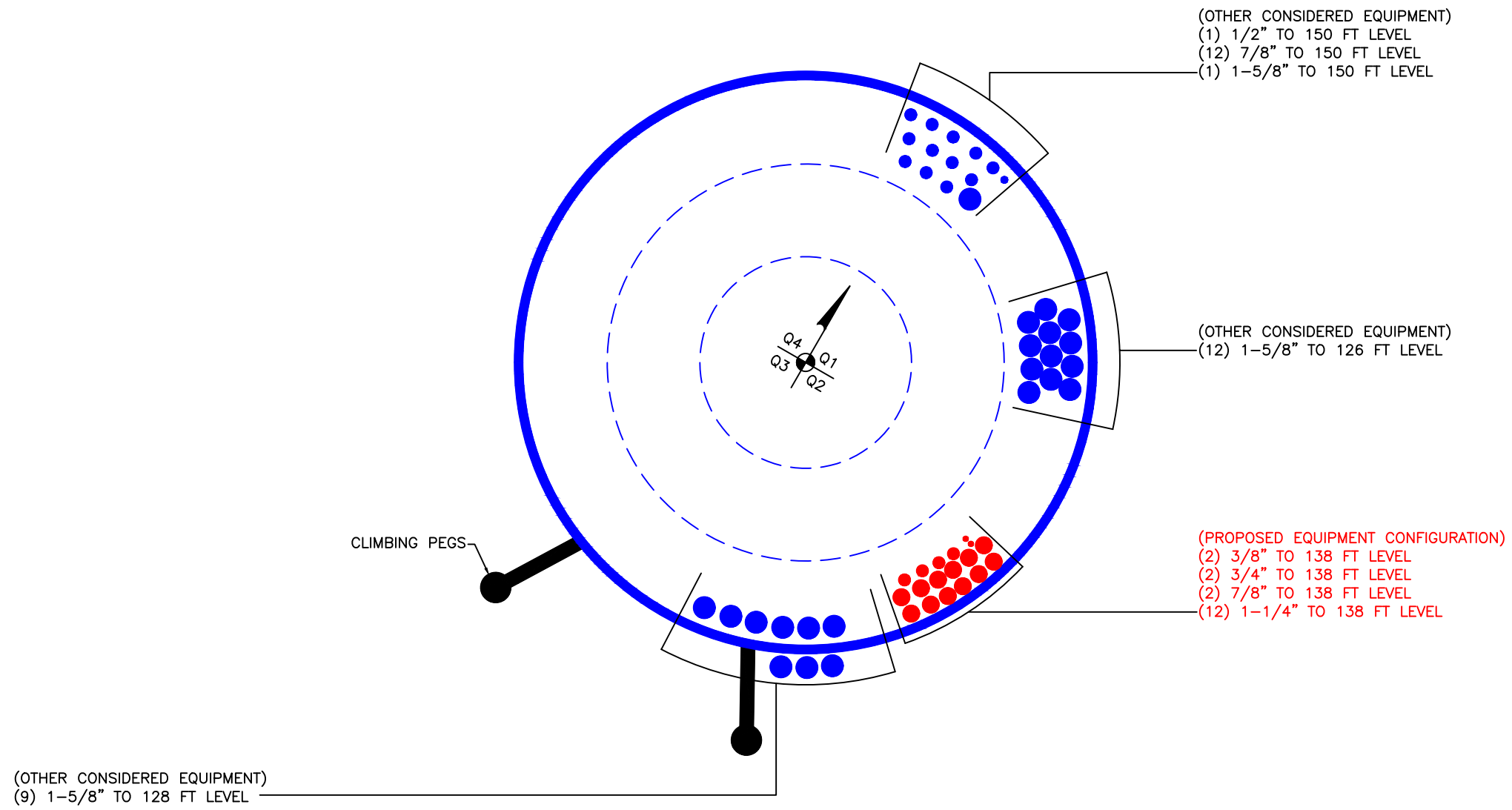
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 145	Pole	TP16.9374x16x0.1875	1	-2.45	621.18	20.7	Pass
L2	145 - 140	Pole	TP17.8748x16.9374x0.1875	2	-2.68	655.94	37.6	Pass
L3	140 - 135	Pole	TP18.8122x17.8748x0.1875	3	-6.42	690.70	67.8	Pass
L4	135 - 133	Pole	TP19.1871x18.8122x0.1875	4	-6.61	704.61	77.9	Pass
L5	133 - 132.75	Pole	TP19.234x19.1871x0.45	5	-6.66	1671.86	31.8	Pass
L6	132.75 - 127.75	Pole	TP20.1714x19.234x0.4375	6	-11.45	1707.63	41.8	Pass
L7	127.75 - 123.75	Pole	TP20.9213x20.1714x0.425	7	-12.10	1722.92	51.3	Pass
L8	123.75 - 123.5	Pole	TP20.9681x20.9213x0.425	8	-12.16	1726.86	51.8	Pass
L9	123.5 - 118.75	Pole	TP21.8587x20.9681x0.7625	9	-13.18	3181.59	35.1	Pass
L10	118.75 - 118.5	Pole	TP21.9055x21.8587x1.0375	10	-13.26	4282.24	27.0	Pass
L11	118.5 - 117	Pole	TP22.1868x21.9055x1.0125	11	-13.67	4240.37	28.6	Pass
L12	117 - 116.75	Pole	TP22.2336x22.1868x0.75	12	-13.74	3186.91	37.5	Pass
L13	116.75 - 111.75	Pole	TP23.171x22.2336x0.7125	13	-14.91	3164.95	43.7	Pass
L14	111.75 - 106.75	Pole	TP24.1084x23.171x0.6875	14	-16.11	3184.77	48.9	Pass
L15	106.75 - 101.75	Pole	TP25.0458x24.1084x0.6625	15	-17.36	3195.06	54.0	Pass
L16	101.75 - 95.1667	Pole	TP26.28x25.0458x0.6625	16	-17.92	3250.34	55.3	Pass
L17	95.1667 - 94.5	Pole	TP26.0307x25.0926x0.7875	17	-20.17	3931.84	51.0	Pass
L18	94.5 - 93.75	Pole	TP26.1714x26.0307x0.7875	18	-20.39	3953.75	51.3	Pass
L19	93.75 - 93.5	Pole	TP26.2183x26.1714x0.9125	19	-20.48	4567.24	45.0	Pass
L20	93.5 - 92.75	Pole	TP26.359x26.2183x0.9125	20	-20.72	4592.64	45.3	Pass
L21	92.75 - 92.5	Pole	TP26.4059x26.359x1.1375	21	-20.82	5684.99	37.4	Pass
L22	92.5 - 91.25	Pole	TP26.6404x26.4059x1.1125	22	-21.28	5617.15	38.4	Pass
L23	91.25 - 91	Pole	TP26.6873x26.6404x1.1125	23	-21.39	5627.47	38.5	Pass
L24	91 - 89.25	Pole	TP27.0156x26.6873x1.1125	24	-22.04	5699.71	39.0	Pass
L25	89.25 - 89	Pole	TP27.0625x27.0156x1.2125	25	-22.16	6199.32	36.2	Pass
L26	89 - 85.75	Pole	TP27.6723x27.0625x1.1875	26	-23.49	6220.58	37.6	Pass
L27	85.75 - 85.5	Pole	TP27.7192x27.6723x0.8625	27	-23.58	4581.55	50.0	Pass
L28	85.5 - 80.5	Pole	TP28.6572x27.7192x0.8375	28	-25.24	4608.28	52.8	Pass
L29	80.5 - 75.5	Pole	TP29.5953x28.6572x0.8125	29	-26.94	4625.49	55.5	Pass
L30	75.5 - 70.5	Pole	TP30.5334x29.5953x0.7875	30	-28.66	4633.17	58.2	Pass
L31	70.5 - 68.083	Pole	TP30.9868x30.5334x0.7875	31	-29.51	4703.80	58.6	Pass
L32	68.083 - 67.833	Pole	TP31.0337x30.9868x0.8375	32	-29.62	5001.94	55.4	Pass
L33	67.833 - 67	Pole	TP31.19x31.0337x0.8375	33	-29.92	5027.83	55.6	Pass
L34	67 - 66.75	Pole	TP31.2369x31.19x1.0625	34	-30.04	6341.16	44.8	Pass
L35	66.75 - 63.25	Pole	TP31.8935x31.2369x1.0375	35	-31.55	6331.84	46.2	Pass
L36	63.25 - 63	Pole	TP31.9404x31.8935x1.2125	36	-31.69	7369.13	40.2	Pass
L37	63 - 59.5	Pole	TP32.5971x31.9404x1.1875	37	-33.40	7377.29	41.3	Pass
L38	59.5 - 59.25	Pole	TP32.644x32.5971x1.2375	38	-33.53	7687.15	39.8	Pass
L39	59.25 - 56.25	Pole	TP33.2068x32.644x1.2125	39	-35.05	7672.83	40.8	Pass
L40	56.25 - 56	Pole	TP33.2537x33.2068x1.0625	40	-35.18	6764.99	46.0	Pass
L41	56 - 55.75	Pole	TP33.3006x33.2537x0.8375	41	-35.28	5377.45	57.1	Pass
L42	55.75 - 50.75	Pole	TP34.2387x33.3006x0.825	42	-37.24	5452.29	58.5	Pass
L43	50.75 - 44.6667	Pole	TP35.38x34.2387x0.8125	43	-37.55	5394.31	59.4	Pass
L44	44.6667 - 43.6667	Pole	TP34.942x33.7544x0.875	44	-41.96	5895.80	58.1	Pass
L45	43.6667 - 38.6667	Pole	TP35.8795x34.942x0.8625	45	-44.12	5973.65	59.1	Pass
L46	38.6667 - 34.5	Pole	TP36.6608x35.8795x0.85	46	-45.95	6020.53	60.1	Pass
L47	34.5 - 34.25	Pole	TP36.7077x36.6608x1.1	47	-46.10	7747.08	47.4	Pass
L48	34.25 - 33	Pole	TP36.9421x36.7077x1.1	48	-46.75	7798.08	47.5	Pass
L49	33 - 32.75	Pole	TP36.989x36.9421x1.1	49	-46.90	7808.27	47.5	Pass
L50	32.75 - 29.75	Pole	TP37.5515x36.989x1.075	50	-48.50	7755.73	48.6	Pass
L51	29.75 - 29.5	Pole	TP37.5984x37.5515x1.125	51	-48.65	8115.78	46.6	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
L52	29.5 - 25	Pole	TP38.4422x37.5984x1.1	52	-51.12	8124.45	47.6	Pass	
L53	25 - 24.75	Pole	TP38.4891x38.4422x0.8625	53	-51.25	6418.82	59.6	Pass	
L54	24.75 - 19.75	Pole	TP39.4266x38.4891x0.85	54	-53.57	6485.51	60.5	Pass	
L55	19.75 - 14.75	Pole	TP40.3642x39.4266x0.825	55	-55.94	6451.83	62.2	Pass	
L56	14.75 - 14.5	Pole	TP40.4111x40.3642x0.825	56	-56.07	6459.47	62.2	Pass	
L57	14.5 - 14.25	Pole	TP40.458x40.4111x0.825	57	-56.08	6459.47	62.2	Pass	
L58	14.25 - 12.25	Pole	TP40.833x40.458x0.825	58	-56.21	6467.13	62.2	Pass	
L59	12.25 - 12	Pole	TP40.8799x40.833x0.7875	59	-57.15	6237.42	65.0	Pass	
L60	12 - 11.5	Pole	TP40.9736x40.8799x0.7875	60	-57.28	6244.73	65.0	Pass	
L61	11.5 - 11.25	Pole	TP41.0205x40.9736x0.9	61	-57.52	7133.49	57.4	Pass	
L62	11.25 - 9.25	Pole	TP41.3955x41.0205x0.8875	62	-57.65	7044.84	58.1	Pass	
L63	9.25 - 9	Pole	TP41.4424x41.3955x0.85	63	-58.65	6816.53	60.5	Pass	
L64	9 - 4.5	Pole	TP42.2862x41.4424x0.825	64	-58.78	6627.77	62.2	Pass	
L65	4.5 - 4.25	Pole	TP42.3331x42.2862x0.85	65	-60.83	6966.27	60.4	Pass	
L66	4.25 - 3	Pole	TP42.5675x42.3331x0.85	66	-60.96	6974.14	60.4	Pass	
L67	3 - 2.75	Pole	TP42.6143x42.5675x0.8375	67	-61.54	6912.48	61.3	Pass	
L68	2.75 - 0	Pole	TP43.13x42.6143x0.825	68	-61.68	6818.99	62.1	Pass	
							Summary		
							Pole (L4)	77.9	Pass
							RATING =	77.9	Pass

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

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Pole Geometry

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	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	150	54.8333	4.3333	12	16	26.28	0.1875	Auto	A572-65
2	99.5	54.8333	5.3333	12	25.09	35.38	0.3125	Auto	A572-65
3	50	50	0	12	33.75	43.13	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	0	29.75	plate	PL9x1-1/4 {Bar #1}	3															
2	29.75	59.5	plate	PL8x1-1/4 {Bar #2}	3															
3	59.5	89.25	plate	PL7x1-1/4 {Bar #3}	3															
4	89.25	123.75	plate	PL5x1-1/4 {Bar #4}	3															
5	25	34.5	plate	MS-650 (1.1875")	3															
6	56	67	plate	MS-600 (1.1875")	3															
7	85.75	92.75	plate	MS-450 (1.1875")	3															
8	56.25	63.25	plate	CCI-SFP-045100	3															
9	85.75	93.75	plate	CCI-SFP-040075	3															
10	0	4.5	plate	transition Stiffener TS	1															
11	0	11.5	plate	transition Stiffener TS	1															
12	0	14.5	plate	transition Stiffener TS	1															
13	3	9.25	plate	CCI-AFP-060100	1															
14	9.25	12.25	plate	CCI-AFP-060100	2															
15	12.25	33	plate	CCI-AFP-060100	3															
16	33	68.083	plate	CCI-AFP-060100	3															
17	68.083	91.25	plate	CCI-AFP-045100	3															
18	91.25	117	plate	CCI-AFP-045100	3															
19	117	118.75	plate	CCI-AFP-045100	6															
20	118.75	133	plate	CCI-AFP-045100	3															
21																				

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	9	1.25	11.25	0.625	Welded	n/a	Capacity Input	n/a	15.000	9.647	1.2200	A572-65
2	8	1.25	10	0.625	Capacity Input	n/a	Capacity Input	n/a	18.000	8.397	1.2200	A572-65
3	7	1.25	8.75	0.625	Capacity Input	n/a	Capacity Input	n/a	18.000	7.147	1.2200	A572-65
4	5	1.25	6.25	0.625	Capacity Input	n/a	PC 8.8 - M20 (100)	15.000	18.000	4.647	1.2200	A572-65
5	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.250	6.563	1.1875	A572-65
6	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.375	4.750	1.1875	A572-65
7	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.625	3.250	1.1875	A572-65
8	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
9	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
10	1	6	6	3	Welded	n/a	Welded	n/a	0.000	6.000	0.0000	A572-65
11	1	6	6	3	Welded	n/a	Welded	n/a	0.000	6.000	0.0000	A572-65
12	1	6	6	3	Welded	n/a	Welded	n/a	0.000	6.000	0.0000	A572-65
13	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
14	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
15	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
16	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
17	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
18	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
19	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
20	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

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)
PL9x1-1/4 {Bar #1}	Top	-	0	-	-	-	-	-	-	-	-	-	-	565
	Bottom	-	-	-	-	80	CJP Groove	9	1.25	45	0	-	-	-
PL8x1-1/4 {Bar #2}	Top	-	0	-	-	-	-	-	-	-	-	-	-	494
	Bottom	-	0	-	-	-	0	-	-	-	-	-	-	565
PL7x1-1/4 {Bar #3}	Top	-	-	-	-	-	-	-	-	-	-	-	-	353
	Bottom	-	-	-	-	-	0	-	-	-	-	-	-	494
PL5x1-1/4 {Bar #4}	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	-	0	-	-	-	-	-	-	353
Transition Stiffener TS1	Top	-	-	-	-	70	None	-	-	-	-	191.25	0.375	-
	Bottom	-	-	-	-	80	CJP Groove	10.5	0.5	45	0.625	-	-	-
Transition Stiffener TS2	Top	-	-	-	-	70	None	-	-	-	-	155.25	0.375	-
	Bottom	-	-	-	-	80	CJP Groove	10.5	0.5	45	0.625	-	-	-
Transition Stiffener TS3	Top	-	-	-	-	70	None	-	-	-	-	71.25	0.375	-
	Bottom	-	-	-	-	80	CJP Groove	10.5	0.5	45	0.625	-	-	-

TNX Geometry Input

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

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	150 - 145	5		12	16.000	16.937	0.1875	A572-65	1.000
2	145 - 140	5		12	16.937	17.875	0.1875	A572-65	1.000
3	140 - 135	5		12	17.875	18.812	0.1875	A572-65	1.000
4	135 - 133	2		12	18.812	19.187	0.1875	A572-65	1.000
5	133 - 132.75	0.25		12	19.187	19.234	0.45	A572-65	0.919
6	132.75 - 127.75	5		12	19.234	20.171	0.4375	A572-65	0.920
7	127.75 - 123.75	4		12	20.171	20.921	0.425	A572-65	0.928
8	123.75 - 123.5	0.25		12	20.921	20.968	0.425	A572-65	0.927
9	123.5 - 118.75	4.75		12	20.968	21.859	0.7625	A572-65	0.876
10	118.75 - 118.5	0.25		12	21.859	21.906	1.0375	A572-65	0.845
11	118.5 - 117	1.5		12	21.906	22.187	1.0125	A572-65	0.856
12	117 - 116.75	0.25		12	22.187	22.234	0.75	A572-65	0.879
13	116.75 - 111.75	5		12	22.234	23.171	0.7125	A572-65	0.896
14	111.75 - 106.75	5		12	23.171	24.108	0.6875	A572-65	0.901
15	106.75 - 101.75	5		12	24.108	25.046	0.6625	A572-65	0.909
16	101.75 - 99.5	6.5833	4.3333	12	25.046	26.280	0.6625	A572-65	0.899
17	99.5 - 94.5	5		12	25.093	26.031	0.7875	A572-65	0.909
18	94.5 - 93.75	0.75		12	26.031	26.171	0.7875	A572-65	0.906
19	93.75 - 93.5	0.25		12	26.171	26.218	0.9125	A572-65	0.906
20	93.5 - 92.75	0.75		12	26.218	26.359	0.9125	A572-65	0.903
21	92.75 - 92.5	0.25		12	26.359	26.406	1.1375	A572-65	0.876
22	92.5 - 91.25	1.25		12	26.406	26.640	1.1125	A572-65	0.889
23	91.25 - 91	0.25		12	26.640	26.687	1.1125	A572-65	0.888
24	91 - 89.25	1.75		12	26.687	27.016	1.1125	A572-65	0.880
25	89.25 - 89	0.25		12	27.016	27.063	1.2125	A572-65	0.884
26	89 - 85.75	3.25		12	27.063	27.672	1.1875	A572-65	0.887
27	85.75 - 85.5	0.25		12	27.672	27.719	0.8625	A572-65	0.903
28	85.5 - 80.5	5		12	27.719	28.657	0.8375	A572-65	0.911
29	80.5 - 75.5	5		12	28.657	29.595	0.8125	A572-65	0.920
30	75.5 - 70.5	5		12	29.595	30.533	0.7875	A572-65	0.931
31	70.5 - 68.083	2.417		12	30.533	30.987	0.7875	A572-65	0.923
32	68.083 - 67.833	0.25		12	30.987	31.034	0.8375	A572-65	0.924
33	67.833 - 67	0.833		12	31.034	31.190	0.8375	A572-65	0.921
34	67 - 66.75	0.25		12	31.190	31.237	1.0625	A572-65	0.905
35	66.75 - 63.25	3.5		12	31.237	31.894	1.0375	A572-65	0.913
36	63.25 - 63	0.25		12	31.894	31.940	1.2125	A572-65	0.898
37	63 - 59.5	3.5		12	31.940	32.597	1.1875	A572-65	0.902
38	59.5 - 59.25	0.25		12	32.597	32.644	1.2375	A572-65	0.896
39	59.25 - 56.25	3		12	32.644	33.207	1.2125	A572-65	0.902
40	56.25 - 56	0.25		12	33.207	33.254	1.0625	A572-65	0.901
41	56 - 55.75	0.25		12	33.254	33.301	0.8375	A572-65	0.928
42	55.75 - 50.75	5		12	33.301	34.239	0.825	A572-65	0.926
43	50.75 - 50	6.0833	5.3333	12	34.239	35.380	0.8125	A572-65	0.938
44	50 - 43.6667	6.3333		12	33.754	34.942	0.875	A572-65	0.936
45	43.6667 - 38.6667	5		12	34.942	35.880	0.8625	A572-65	0.935
46	38.6667 - 34.5	4.1667		12	35.880	36.661	0.85	A572-65	0.937
47	34.5 - 34.25	0.25		12	36.661	36.708	1.1	A572-65	0.923
48	34.25 - 33	1.25		12	36.708	36.942	1.1	A572-65	0.919
49	33 - 32.75	0.25		12	36.942	36.989	1.1	A572-65	0.918
50	32.75 - 29.75	3		12	36.989	37.552	1.075	A572-65	0.930
51	29.75 - 29.5	0.25		12	37.552	37.598	1.125	A572-65	0.917
52	29.5 - 25	4.5		12	37.598	38.442	1.1	A572-65	0.924
53	25 - 24.75	0.25		12	38.442	38.489	0.8625	A572-65	0.936
54	24.75 - 19.75	5		12	38.489	39.427	0.85	A572-65	0.937
55	19.75 - 14.75	5		12	39.427	40.364	0.825	A572-65	0.953
56	14.75 - 14.5	0.25		12	40.364	40.411	0.825	A572-65	0.953
57	14.5 - 14.25	0.25		12	40.411	40.458	0.825	A572-65	0.952
58	14.25 - 12.25	2		12	40.458	40.833	0.825	A572-65	0.947
59	12.25 - 12	0.25		12	40.833	40.880	0.7875	A572-65	0.991
60	12 - 11.5	0.5		12	40.880	40.974	0.7875	A572-65	0.990
61	11.5 - 11.25	0.25		12	40.974	41.020	0.9	A572-65	0.920
62	11.25 - 9.25	2		12	41.020	41.396	0.8875	A572-65	0.927
63	9.25 - 9	0.25		12	41.396	41.442	0.85	A572-65	0.913
64	9 - 4.5	4.5		12	41.442	42.286	0.825	A572-65	0.930
65	4.5 - 4.25	0.25		12	42.286	42.333	0.85	A572-65	0.956
66	4.25 - 3	1.25		12	42.333	42.567	0.85	A572-65	0.953
67	3 - 2.75	0.25		12	42.567	42.614	0.8375	A572-65	0.913
68	2.75 - 0	2.75		12	42.614	43.130	0.825	A572-65	0.921

TNX Section Forces

Increment (ft): 5		TNX Output		
	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	150 - 145	2.45	51.45	10.40
2	145 - 140	2.68	104.43	10.80
3	140 - 135	6.42	203.62	19.50
4	135 - 133	6.61	242.76	19.65
5	133 - 132.75	6.66	247.68	19.67
6	132.75 - 127.75	11.45	348.53	25.35
7	127.75 - 123.75	12.10	450.63	25.70
8	123.75 - 123.5	12.16	457.06	25.72
9	123.5 - 118.75	13.18	580.66	26.36
10	118.75 - 118.5	13.26	587.25	26.39
11	118.5 - 117	13.67	626.99	26.59
12	117 - 116.75	13.74	633.64	26.62
13	116.75 - 111.75	14.91	768.26	27.23
14	111.75 - 106.75	16.11	905.88	27.82
15	106.75 - 101.75	17.36	1046.44	28.41
16	101.75 - 99.5	17.92	1110.63	28.66
17	99.5 - 94.5	20.17	1255.78	29.38
18	94.5 - 93.75	20.39	1277.85	29.47
19	93.75 - 93.5	20.48	1285.22	29.50
20	93.5 - 92.75	20.72	1307.38	29.59
21	92.75 - 92.5	20.82	1314.78	29.62
22	92.5 - 91.25	21.28	1351.92	29.79
23	91.25 - 91	21.39	1359.37	29.82
24	91 - 89.25	22.04	1411.76	30.06
25	89.25 - 89	22.16	1419.28	30.08
26	89 - 85.75	23.49	1517.76	30.52
27	85.75 - 85.5	23.58	1525.39	30.54
28	85.5 - 80.5	25.24	1679.58	31.14
29	80.5 - 75.5	26.94	1836.66	31.71
30	75.5 - 70.5	28.66	1996.55	32.26
31	70.5 - 68.083	29.51	2074.82	32.53
32	68.083 - 67.833	29.62	2082.96	32.54
33	67.833 - 67	29.92	2110.11	32.64
34	67 - 66.75	30.04	2118.27	32.66
35	66.75 - 63.25	31.55	2233.34	33.09
36	63.25 - 63	31.69	2241.62	33.11
37	63 - 59.5	33.40	2358.29	33.56
38	59.5 - 59.25	33.53	2366.69	33.58
39	59.25 - 56.25	35.05	2467.99	33.95
40	56.25 - 56	35.18	2476.48	33.97
41	56 - 55.75	35.28	2484.98	34.00
42	55.75 - 50.75	37.24	2656.30	34.53
43	50.75 - 50	37.55	2682.22	34.60
44	50 - 43.6667	41.96	2904.00	35.42
45	43.6667 - 38.6667	44.12	3082.20	35.88
46	38.6667 - 34.5	45.95	3232.43	36.25
47	34.5 - 34.25	46.10	3241.49	36.26
48	34.25 - 33	46.75	3286.90	36.40
49	33 - 32.75	46.90	3296.00	36.40
50	32.75 - 29.75	48.50	3405.65	36.70
51	29.75 - 29.5	48.65	3414.83	36.71
52	29.5 - 25	51.12	3580.99	37.14
53	25 - 24.75	51.25	3590.28	37.14
54	24.75 - 19.75	53.57	3776.96	37.53
55	19.75 - 14.75	55.94	3965.40	37.87
56	14.75 - 14.5	56.07	3974.87	37.86
57	14.5 - 14.25	56.19	3984.34	37.88
58	14.25 - 12.25	57.13	4060.23	38.02
59	12.25 - 12	57.27	4069.74	38.02
60	12 - 11.5	57.50	4088.76	38.06
61	11.5 - 11.25	57.63	4098.27	38.07
62	11.25 - 9.25	58.63	4174.55	38.22
63	9.25 - 9	58.76	4184.11	38.22
64	9 - 4.5	60.80	4356.72	38.53
65	4.5 - 4.25	60.94	4366.35	38.53
66	4.25 - 3	61.52	4414.58	38.68
67	3 - 2.75	61.65	4424.24	38.67
68	2.75 - 0	62.88	4530.92	38.96

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP16.937x16x0.1875	Pole	20.2%	Pass
145 - 140	Pole	TP17.875x16.937x0.1875	Pole	37.1%	Pass
140 - 135	Pole	TP18.812x17.875x0.1875	Pole	66.7%	Pass
135 - 133	Pole	TP19.187x18.812x0.1875	Pole	76.8%	Pass
133 - 132.75	Pole + Reinf.	TP19.234x19.187x0.45	Reinf. 20 Tension Rupture	54.0%	Pass
132.75 - 127.75	Pole + Reinf.	TP20.171x19.234x0.4375	Reinf. 20 Tension Rupture	71.2%	Pass
127.75 - 123.75	Pole + Reinf.	TP20.921x20.171x0.425	Reinf. 20 Tension Rupture	87.1%	Pass
123.75 - 123.5	Pole + Reinf.	TP20.968x20.921x0.425	Reinf. 20 Tension Rupture	88.1%	Pass
123.5 - 118.75	Pole + Reinf.	TP21.859x20.968x0.7625	Reinf. 20 Tension Rupture	59.9%	Pass
118.75 - 118.5	Pole + Reinf.	TP21.906x21.859x1.0375	Reinf. 19 Tension Rupture	46.4%	Pass
118.5 - 117	Pole + Reinf.	TP22.187x21.906x1.0125	Reinf. 19 Tension Rupture	48.8%	Pass
117 - 116.75	Pole + Reinf.	TP22.234x22.187x0.75	Reinf. 18 Tension Rupture	64.0%	Pass
116.75 - 111.75	Pole + Reinf.	TP23.171x22.234x0.7125	Reinf. 18 Tension Rupture	73.7%	Pass
111.75 - 106.75	Pole + Reinf.	TP24.108x23.171x0.6875	Reinf. 18 Tension Rupture	82.6%	Pass
106.75 - 101.75	Pole + Reinf.	TP25.046x24.108x0.6625	Reinf. 18 Tension Rupture	90.9%	Pass
101.75 - 99.5	Pole + Reinf.	TP26.28x25.046x0.6625	Reinf. 18 Tension Rupture	94.5%	Pass
99.5 - 94.5	Pole + Reinf.	TP26.031x25.093x0.7875	Reinf. 18 Tension Rupture	86.7%	Pass
94.5 - 93.75	Pole + Reinf.	TP26.171x26.031x0.7875	Reinf. 18 Tension Rupture	87.6%	Pass
93.75 - 93.5	Pole + Reinf.	TP26.218x26.171x0.9125	Reinf. 9 Tension Rupture	79.1%	Pass
93.5 - 92.75	Pole + Reinf.	TP26.359x26.218x0.9125	Reinf. 9 Tension Rupture	79.9%	Pass
92.75 - 92.5	Pole + Reinf.	TP26.406x26.359x1.1375	Reinf. 9 Tension Rupture	66.5%	Pass
92.5 - 91.25	Pole + Reinf.	TP26.64x26.406x1.1125	Reinf. 9 Tension Rupture	67.6%	Pass
91.25 - 91	Pole + Reinf.	TP26.687x26.64x1.1125	Reinf. 9 Tension Rupture	67.8%	Pass
91 - 89.25	Pole + Reinf.	TP27.016x26.687x1.1125	Reinf. 9 Tension Rupture	69.3%	Pass
89.25 - 89	Pole + Reinf.	TP27.063x27.016x1.2125	Reinf. 3 Connection	65.8%	Pass
89 - 85.75	Pole + Reinf.	TP27.672x27.063x1.1875	Reinf. 9 Tension Rupture	65.8%	Pass
85.75 - 85.5	Pole + Reinf.	TP27.719x27.672x0.8625	Reinf. 17 Tension Rupture	84.8%	Pass
85.5 - 80.5	Pole + Reinf.	TP28.657x27.719x0.8375	Reinf. 17 Tension Rupture	89.2%	Pass
80.5 - 75.5	Pole + Reinf.	TP29.595x28.657x0.8125	Reinf. 17 Tension Rupture	93.3%	Pass
75.5 - 70.5	Pole + Reinf.	TP30.533x29.595x0.7875	Reinf. 17 Tension Rupture	97.1%	Pass
70.5 - 68.08	Pole + Reinf.	TP30.987x30.533x0.7875	Reinf. 17 Tension Rupture	98.9%	Pass
68.08 - 67.83	Pole + Reinf.	TP31.034x30.987x0.8375	Reinf. 16 Tension Rupture	84.8%	Pass
67.83 - 67	Pole + Reinf.	TP31.193x31.034x0.8375	Reinf. 16 Tension Rupture	85.3%	Pass
67 - 66.75	Pole + Reinf.	TP31.237x31.193x1.0625	Reinf. 6 Tension Rupture	68.7%	Pass
66.75 - 63.25	Pole + Reinf.	TP31.894x31.237x1.0375	Reinf. 6 Tension Rupture	70.5%	Pass
63.25 - 63	Pole + Reinf.	TP31.94x31.894x1.2125	Reinf. 8 Tension Rupture	67.6%	Pass
63 - 59.5	Pole + Reinf.	TP32.597x31.94x1.1875	Reinf. 8 Tension Rupture	69.3%	Pass
59.5 - 59.25	Pole + Reinf.	TP32.644x32.597x1.2375	Reinf. 8 Tension Rupture	67.0%	Pass
59.25 - 56.25	Pole + Reinf.	TP33.207x32.644x1.2125	Reinf. 8 Tension Rupture	68.4%	Pass
56.25 - 56	Pole + Reinf.	TP33.254x33.207x1.0625	Reinf. 6 Tension Rupture	71.1%	Pass
56 - 55.75	Pole + Reinf.	TP33.301x33.254x0.8375	Reinf. 16 Tension Rupture	87.3%	Pass
55.75 - 50.75	Pole + Reinf.	TP34.239x33.301x0.825	Reinf. 16 Tension Rupture	89.8%	Pass
50.75 - 50	Pole + Reinf.	TP35.38x34.239x0.8125	Reinf. 16 Tension Rupture	90.2%	Pass
50 - 43.67	Pole + Reinf.	TP34.942x33.754x0.875	Reinf. 16 Tension Rupture	88.6%	Pass
43.67 - 38.67	Pole + Reinf.	TP35.88x34.942x0.8625	Reinf. 16 Tension Rupture	90.5%	Pass
38.67 - 34.5	Pole + Reinf.	TP36.661x35.88x0.85	Reinf. 16 Tension Rupture	92.0%	Pass
34.5 - 34.25	Pole + Reinf.	TP36.708x36.661x1.1	Reinf. 16 Tension Rupture	72.2%	Pass
34.25 - 33	Pole + Reinf.	TP36.942x36.708x1.1	Reinf. 16 Tension Rupture	72.6%	Pass
33 - 32.75	Pole + Reinf.	TP36.989x36.942x1.1	Reinf. 15 Tension Rupture	72.7%	Pass
32.75 - 29.75	Pole + Reinf.	TP37.552x36.989x1.075	Reinf. 15 Tension Rupture	73.6%	Pass
29.75 - 29.5	Pole + Reinf.	TP37.598x37.552x1.125	Reinf. 15 Tension Rupture	71.3%	Pass
29.5 - 25	Pole + Reinf.	TP38.442x37.598x1.1	Reinf. 15 Tension Rupture	72.6%	Pass
25 - 24.75	Pole + Reinf.	TP38.489x38.442x0.8625	Reinf. 15 Tension Rupture	91.3%	Pass
24.75 - 19.75	Pole + Reinf.	TP39.427x38.489x0.85	Reinf. 15 Tension Rupture	92.8%	Pass
19.75 - 14.75	Pole + Reinf.	TP40.364x39.427x0.825	Reinf. 15 Tension Rupture	94.1%	Pass
14.75 - 14.5	Pole + Reinf.	TP40.411x40.364x0.825	Reinf. 15 Tension Rupture	94.2%	Pass
14.5 - 14.25	Pole + Reinf.	TP40.458x40.411x0.825	Reinf. 15 Tension Rupture	94.3%	Pass
14.25 - 12.25	Pole + Reinf.	TP40.833x40.458x0.825	Reinf. 15 Tension Rupture	94.8%	Pass
12.25 - 12	Pole + Reinf.	TP40.88x40.833x0.7875	Reinf. 14 Tension Rupture	95.7%	Pass
12 - 11.5	Pole + Reinf.	TP40.974x40.88x0.7875	Reinf. 14 Tension Rupture	95.8%	Pass
11.5 - 11.25	Pole + Reinf.	TP41.02x40.974x0.9	Reinf. 14 Tension Rupture	90.8%	Pass
11.25 - 9.25	Pole + Reinf.	TP41.396x41.02x0.8875	Reinf. 14 Tension Rupture	91.3%	Pass
9.25 - 9	Pole + Reinf.	TP41.442x41.396x0.85	Reinf. 13 Tension Rupture	92.1%	Pass
9 - 4.5	Pole + Reinf.	TP42.286x41.442x0.825	Reinf. 13 Tension Rupture	93.1%	Pass
4.5 - 4.25	Pole + Reinf.	TP42.333x42.286x0.85	Reinf. 1 Tension Rupture	86.2%	Pass
4.25 - 3	Pole + Reinf.	TP42.567x42.333x0.85	Reinf. 1 Tension Rupture	86.5%	Pass
3 - 2.75	Pole + Reinf.	TP42.614x42.567x0.8375	Reinf. 1 Tension Rupture	86.7%	Pass
2.75 - 0	Pole + Reinf.	TP43.13x42.614x0.825	Reinf. 1 Tension Rupture	87.3%	Pass
				Summary	
			Pole	76.8%	Pass
			Reinforcement	98.9%	Pass
			Overall	98.9%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity*	Axial (kips)																			
	Pole	Reinf.	Total	Pole	Reinf.	Total		Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19
150 - 145	363	n/a	363	10.10	n/a	10.10	20.2%																				
145 - 140	427	n/a	427	10.66	n/a	10.66	37.1%																				
140 - 135	499	n/a	499	11.23	n/a	11.23	66.7%																				
135 - 133	529	n/a	529	11.45	n/a	11.45	76.8%																				
133 - 132.75	533	703	1236	11.48	13.50	24.98	32.6%																				110.7
132.75 - 127.75	616	768	1384	12.05	13.50	25.55	44.0%																				146.0
127.75 - 123.75	688	823	1511	12.50	13.50	26.00	54.8%																				178.7
123.75 - 123.5	692	826	1519	12.53	13.50	26.03	55.4%																				180.6
123.5 - 118.75	785	2166	2951	13.07	32.25	45.32	38.4%																				122.7
118.75 - 118.5	790	3072	3863	13.09	45.75	58.84	29.8%																				95.0
118.5 - 117	822	3147	3968	13.26	45.75	59.01	31.5%																				100.0
117 - 116.75	827	2236	3063	13.29	32.25	45.54	41.4%																				131.1
116.75 - 111.75	937	2416	3353	13.86	32.25	46.11	48.7%																				151.0
111.75 - 106.75	1056	2604	3660	14.42	32.25	46.67	55.9%																				169.3
106.75 - 101.75	1185	2798	3983	14.99	32.25	47.24	62.9%																				186.4
101.75 - 99.5	1247	2888	4135	15.24	32.25	47.49	66.1%																				193.7
99.5 - 94.5	2188	3010	5198	25.84	32.25	58.09	49.4%																				177.9
94.5 - 93.75	2224	3041	5265	25.98	32.25	58.23	50.0%																				179.6
93.75 - 93.5	2236	3876	6112	26.03	41.25	67.28	43.4%																				155.9
93.5 - 92.75	2273	3915	6188	26.17	41.25	67.42	43.9%																				157.5
92.75 - 92.5	2285	5208	7493	26.22	54.75	80.97	36.6%																				131.0
92.5 - 91.25	2347	5296	7644	26.45	54.75	81.20	37.3%																				133.2
91.25 - 91	2360	5314	7674	26.50	54.75	81.25	37.4%																				133.6
91 - 89.25	2449	5440	7889	26.83	54.75	81.58	38.4%																				136.6
89.25 - 89	2462	6244	8706	26.88	62.25	89.13	35.1%																				124.6
89 - 85.75	2634	6514	9148	27.49	62.25	89.74	36.8%																				129.6
85.75 - 85.5	2648	4213	6860	27.54	39.75	67.29	49.4%																				174.0
85.5 - 80.5	2929	4486	7415	28.48	39.75	68.23	52.5%																				183.0
80.5 - 75.5	3229	4769	7998	29.42	39.75	69.17	55.6%																				191.4
75.5 - 70.5	3550	5060	8610	30.37	39.75	70.12	58.6%																				199.3
70.5 - 68.08	3712	5204	8916	30.82	39.75	70.57	60.0%																				202.9
68.08 - 67.83	3729	5812	9541	30.87	44.25	75.12	56.4%																				254.1
67.83 - 67	3786	5868	9654	31.03	44.25	75.28	56.9%																				255.7
67 - 66.75	3803	8250	12054	31.07	62.25	93.32	45.8%																				205.9
66.75 - 63.25	4051	8584	12635	31.73	62.25	93.98	47.5%																				211.3
63.25 - 63	4069	10451	14520	31.78	75.75	107.53	41.6%																				184.8
63 - 59.5	4328	10866	15194	32.44	75.75	108.19	43.0%																				189.6
59.5 - 59.25	4347	11461	15808	32.49	79.50	111.99	41.6%																				183.1
59.25 - 56.25	4578	11842	16419	33.05	79.50	112.55	42.7%																				187.0
56.25 - 56	4597	9882	14479	33.10	66.00	99.10	48.7%																				213.0
56 - 55.75	4617	7233	11850	33.15	48.00	81.15	59.8%																				261.5
55.75 - 50.75	5022	7627	12649	34.09	48.00	82.09	62.3%																				269.1
50.75 - 50	5085	7886	12771	34.23	48.00	82.23	62.7%																				270.2
50 - 43.67	6375	7928	14303	41.68	48.00	89.68	57.8%																				265.5
43.67 - 38.67	6907	8340	15247	42.81	48.00	90.81	59.7%																				271.3
38.67 - 34.5	7373	8691	16064	43.75	48.00	91.75	61.2%																				275.8
34.5 - 34.25	7402	13146	20548	43.81	72.38	116.18	48.1%																				216.5
34.25 - 33	7546	13307	20854	44.09	72.38	116.47	48.5%																				217.7
33 - 32.75	7575	13340	20915	44.15	72.38	116.52	48.5%																				217.9
32.75 - 29.75	7930	13731	21661	44.83	72.38	117.20	49.4%																				220.7
29.75 - 29.5	7960	14506	22466	44.88	76.13	121.01	47.9%																				213.6
29.5 - 25	8514	15135	23649	45.90	76.13	122.03	49.2%																				217.5
25 - 24.75	8545	10315	18860	45.96	51.75	97.71	61.9%																				273.8
24.75 - 19.75	9191	10801	19993	47.09	51.75	98.84	63.6%																				278.2
19.75 - 14.75	9869	11299	21169	48.22	51.75	99.97	65.2%																				282.3
14.75 - 14.5	9904	11325	21229	48.27	51.75	100.02	65.2%																				282.5
14.5 - 14.25	9939	11350	21289	48.33	51.75	100.08	65.3%																				282.7
14.25 - 12.25	10220	11553	21773	48.78	51.75	100.53	66.0%																				284.2
12.25 - 12	10273	10673	20947	48.84	51.75	100.59	72.1%																				286.9
12 - 11.5	10345	10720	21065	48.95	51.75	100.70	72.3%																				287.3
11.5 - 11.25	10387	13354	23741	49.01	57.75	106.76	64.8%																				272.1
11.25 - 9.25	10677	13586	24263	49.46	57.75	107.21	65.4%																				273.6
9.25 - 9	10690	12521	23210	49.52	51.75	101.27	67.5%																				311.1
9 - 4.5	11362	13008	24370	50.54	51.75	102.29	68.9%																				314.2
4.5 - 4.25	11401	13451	24852	50.59	57.75	108.34	67.2%																				309.3
4.25 - 3	11593	13589	25181	50.87	57.75	108.62	67.6%																				310.2
3 - 2.75	11631	13579	25209	50.93	51.75	102.68	66.2%																				310.7
2.75 - 0	12062	13884	25946	51.55	51.75	103.30	67.1%																				312.5

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

Bolted Bridge Stiffeners Reinforcement Check

TIA Rev. H



Description:

This sheet is for the analysis of a reinforced flange connection using existing bolted bridge stiffeners.

Assumptions / Notes:

- 1. For analysis purposes, load is distributed between flange bolts and existing bridge stiffeners.*
- 2. The plastification of the pole is not considered.*
- 3. All shear and axial loads are taken by the flange bolts.*

1. PARAMETERS

Flange Elevation: 94' - 10"

1.1 tnxTower Reactions

Apply TIA-222-H Section 15.5?

No
Yes

Plate Compression Force: $P_{comp} := 177.9 \text{ kip}$

Plate Tension Force: $P_{tens} := 177.9 \text{ kip}$

1.2 Existing Bridge Stiffener Properties

(Verify existing bolted connection for reduced moment.)

Number of Existing Bridge Stiffeners: $N_{exist} := 1$

Existing Bridge Stiffener Grade: $F_{y_{Ex}} := 65 \text{ ksi}$ $F_{u_{Ex}} := 80 \text{ ksi}$

Thickness of Existing Bridge Stiffeners: $t_{exist} := 1 \text{ in}$

Width of Existing Bridge Stiffeners: $w_{exist} := 6 \text{ in}$

Gross Area of One Existing Bridge Stiffener: $A_{g_exist} := w_{exist} \cdot t_{exist} = 6 \cdot \text{in}^2$

Radius of Gyration about x-axis: $r_{x2} := \frac{t_{exist}}{\sqrt{12}} = 0.29 \cdot \text{in}$

2. Existing Bridge Stiffener Checks

2.1 Available Compression Strength

[AISC 15th Edition E3-1]

Resistance Factor: $\phi_c := 0.9$

Unbraced Length: $L_u := 24 \text{ in}$

Effective Length Factor: $K_{\text{eff}} := 1.0$

Effective Length of Member: $L_c := K \cdot L_u = 24 \cdot \text{in}$

[AISC 15th Edition E3-2]

Strength of Bridge Stiffener: $F_{y_{Ex}} = 65 \cdot \text{ksi}$ $F_{u_{Ex}} = 80 \cdot \text{ksi}$

Elastic Buckling Stress:
 [AISC 15th Ed., Eq. E3-4]

$$F_e := \frac{\pi^2 \cdot 29000 \text{ksi}}{\left(\frac{L_c}{r_{x2}}\right)^2} = 41.41 \cdot \text{ksi}$$

Determination of Critical Stress:
 [AISC 15th Ed., Eqs. E3-2 and E3-3]

$$F_{cr} := \begin{cases} \left(0.658 \frac{F_{y_{Ex}}}{F_e} \cdot F_{y_{Ex}}\right) & \text{if } 4.71 \cdot \sqrt{\frac{E}{F_{y_{Ex}}}} \geq \frac{L_c}{r_{x2}} \\ (0.877 \cdot F_e) & \text{otherwise} \end{cases}$$

$$F_{cr} = 33.7 \cdot \text{ksi}$$

Allowable Compressive Strength:
 [AISC 15th Ed., Eqs. J4-6 and E3-1]

$$\phi P_n := \begin{cases} (\phi_c \cdot F_{y_{Ex}} \cdot A_{g_exist}) & \text{if } \frac{L_c}{r_{x2}} \leq 25 \\ (\phi_c \cdot F_{cr} \cdot A_{g_exist}) & \text{otherwise} \end{cases}$$

$$\phi P_n = 181.96 \cdot \text{kip}$$

Check Compressive Strength:

$$\text{Check}_{\text{comp}} := \begin{cases} \text{"OK"} & \text{if } \frac{P_{\text{comp}}}{\phi P_n} \leq 100\% \\ \text{"N/G"} & \text{otherwise} \end{cases}$$

$$\text{Check}_{\text{comp}} = \text{"OK"}$$

$$\text{Capacity}_{\text{comp}} = 93.11 \cdot \%$$

2.2 Available Tension Strength

Gross Section Yield

[AISC 15th Edition Ch. D2]

Available Tension Yield Strength:

$$\phi P_{ty} := 0.9 \cdot F_{y_{Ex}} \cdot A_{g_exist} = 351 \cdot \text{kip}$$

Net Section Fracture

Bolt Hole Diameter:

$$BH := 1.1875 \text{in}$$

Thickness:

$$T := t_{\text{exist}} = 1 \cdot \text{in}$$

Net Area:

$$A_{\text{net}} := A_{g_exist} - \left(BH + \frac{1}{16} \text{in}\right) \cdot T = 4.75 \cdot \text{in}^2$$

Net Area Limitation:

$$A_e := A_{\text{net}} = 4.75 \cdot \text{in}^2$$

Available Fractile Strength: $\phi P_{tr} := 0.75 \cdot F_u_{EX} \cdot A_e = 285 \cdot \text{kip}$

Tension Check

Controlling Mode of Failure:
$$\text{Check}_{\text{mode}} := \begin{cases} \text{"Fracture Controls"} & \text{if } \frac{P_{\text{tens}}}{\phi P_{tr}} > \frac{P_{\text{tens}}}{\phi P_{ty}} \\ \text{"Yield Controls"} & \text{otherwise} \end{cases}$$

$\text{Check}_{\text{mode}} = \text{"Fracture Controls"}$

$$\phi P_{nt} := \begin{cases} \phi P_{tr} & \text{if } \text{Check}_{\text{mode}} = \text{"Fracture Controls"} \\ \phi P_{ty} & \text{otherwise} \end{cases}$$

Controlling Tension Mode Check:
$$\text{Check}_{\text{tension}} := \begin{cases} \text{"OK"} & \text{if } \frac{P_{\text{tens}}}{\phi P_{nt}} \leq 100\% \\ \text{"N/G"} & \text{otherwise} \end{cases}$$

$\text{Check}_{\text{tension}} = \text{"OK"}$

$\text{Capacity}_{\text{tension}} = 59.45\%$

SUMMARY

Number of Existing Bridge Stiffeners: $N_{\text{exist}} = 1$

Thickness: $t_{\text{exist}} = 1 \cdot \text{in}$

Width: $w_{\text{exist}} = 6 \cdot \text{in}$

Controlling Capacity of Existing Bridge Stiffeners: $\text{Capacity}_{\text{exist}} = 93.1\%$

Monopole Base Plate Connection

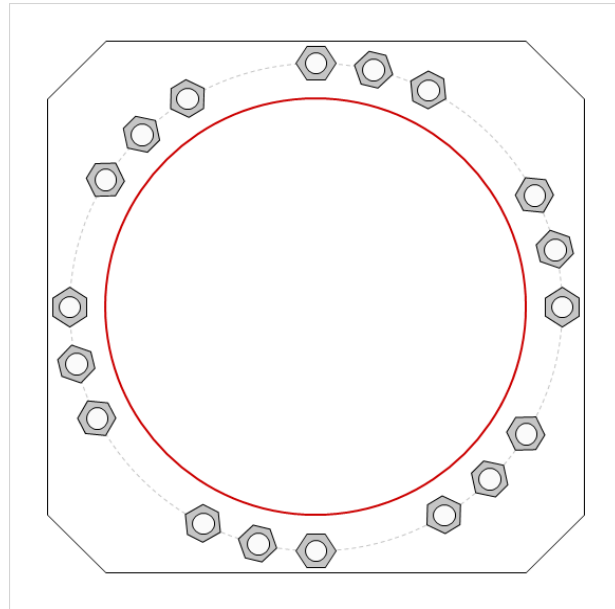


Site Info	
BU #	806361
Site Name	NHV 102 943127
Order #	527516 Rev 0

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

Applied Loads	
Moment (kip-ft)	4530.92
Axial Force (kips)	62.88
Shear Force (kips)	38.96

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
GROUP 1: (12) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 50.6" BC <i>pos. (deg): 62.8, 90, 121.4, 148.6, 242.8, 270, 301.4, 328.6, 0, 27.2, 1:</i>
GROUP 2: (6) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 50.6" BC <i>pos. (deg): 76.4, 135, 256.4, 315, 13.6, 193.6</i>
Base Plate Data
55.1" W x 2.5" Plate (A572-60; $F_y=60$ ksi, $F_u=75$ ksi); Clip: 6 in
Stiffener Data
N/A
Pole Data
43.13" x 0.375" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary			<i>(units of kips, kip-in)</i>
GROUP 1:			
$P_{u_t} = 238.58$	$\phi P_{n_t} = 243.75$	Stress Rating	
$V_u = 3.25$	$\phi V_n = 149.1$	91.3%	
$M_u = n/a$	$\phi M_n = n/a$	Pass	
GROUP 2:			
$P_{u_t} = 241.67$	$\phi P_{n_t} = 243.75$	Stress Rating	
$V_u = 0$	$\phi V_n = 149.1$	93.6%	
$M_u = n/a$	$\phi M_n = n/a$	Pass	
Base Plate Summary			
Max Stress (ksi):	41.7	(Flexural)	
Allowable Stress (ksi):	54		
Stress Rating:	73.5%	Pass	

Drilled Pier Foundation



BU # :	806361
Site Name:	NHV 102 943127
Order Number:	527516 Rev 0

TIA-222 Revision:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	4530.92	
Axial Force (kips)	62.88	
Shear Force (kips)	38.96	

Material Properties		
Concrete Strength, f _c :	3	ksi
Rebar Strength, F _y :	60	ksi
Tie Yield Strength, F _{yt} :	40	ksi

Pier Design Data		
Depth	33	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
<i>From 0.5' above grade to 23' below grade</i>		
Pier Diameter	6	ft
Rebar Quantity	32	
Rebar Size	11	
Rebar Cage Diameter	61	in
Tie Size	4	
Tie Spacing		in

Rebar & Pier Options
 Embedded Pole Inputs
 Belled Pier Inputs

Pier Section 2		
<i>From 23' below grade to 33' below grade</i>		
Pier Diameter	6	ft
Rebar Quantity	16	
Rebar Size	11	
Rebar Cage Diameter	61	in
Tie Size	4	
Tie Spacing		in

Analysis Results		
Soil Lateral Check		
	Compression	Uplift
D _{ve0} (ft from TOC)	7.60	-
Soil Safety Factor	5.18	-
Max Moment (kip-ft)	4831.32	-
Rating*	24.4%	-
Soil Vertical Check		
	Compression	Uplift
Skin Friction (kips)	418.46	-
End Bearing (kips)	783.03	-
Weight of Concrete (kips)	121.77	-
Total Capacity (kips)	1201.49	-
Axial (kips)	184.65	-
Rating*	14.6%	-
Reinforced Concrete Flexure		
	Compression	Uplift
Critical Depth (ft from TOC)	7.42	-
Critical Moment (kip-ft)	4831.08	-
Critical Moment Capacity	6116.76	-
Rating*	75.2%	-
Reinforced Concrete Shear		
	Compression	Uplift
Critical Depth (ft from TOC)	28.71	-
Critical Shear (kip)	202.56	-
Critical Shear Capacity	543.87	-
Rating*	35.5%	-

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
	N/A <input type="checkbox"/>
Shear Design Options	
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input checked="" type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Interaction Rating*	24.4%
Structural Foundation Rating*	75.2%

*Rating per TIA-222-H Section 15.5

Shear-Friction Methodology is Applied

Soil Profile				
Groundwater Depth	10	# of Layers	5	

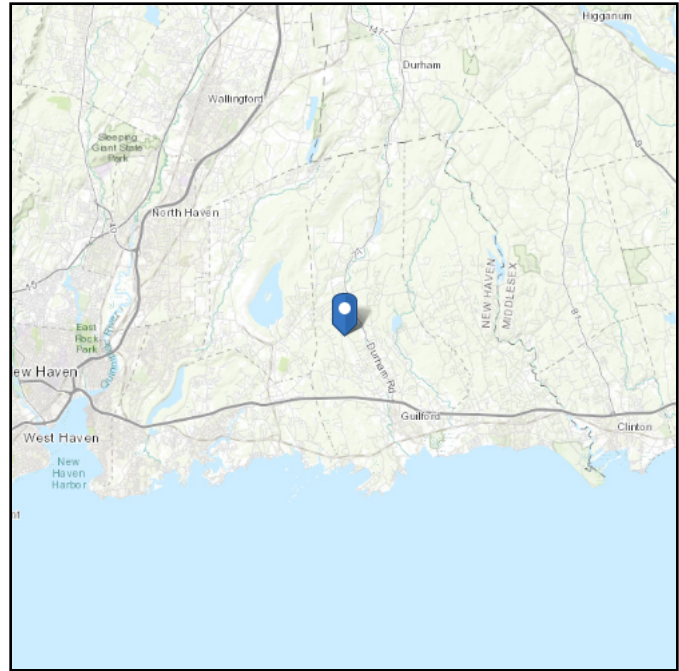
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ _{soil} (pcf)	γ _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3.33	3.33	135	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3.33	5	1.67	135	150	0	38	0.000	0.000	0.00	0.00			Cohesionless
3	5	10	5	135	150	0	38	0.000	0.000	0.80	0.80			Cohesionless
4	10	15	5	75	87.6	0	38	0.000	0.000	0.80	0.80			Cohesionless
5	15	33	18	75	87.6	0	38	0.000	0.000	1.20	1.20	36.92541		Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 281.72 ft (NAVD 88)
Latitude: 41.330025
Longitude: -72.721808



Wind

Results:

Wind Speed:	122 Vmph	Wind Speed Rounded Up to 125 Vmph
10-year MRI	75 Vmph	
25-year MRI	85 Vmph	
50-year MRI	93 Vmph	
100-year MRI	99 Vmph	

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4

Date Accessed: Fri Jan 29 2021

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.

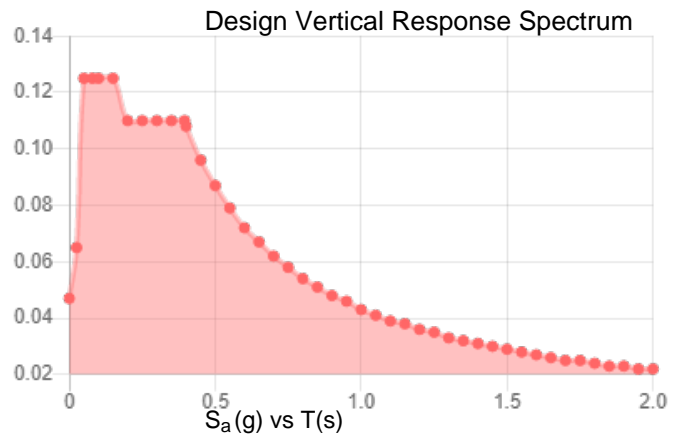
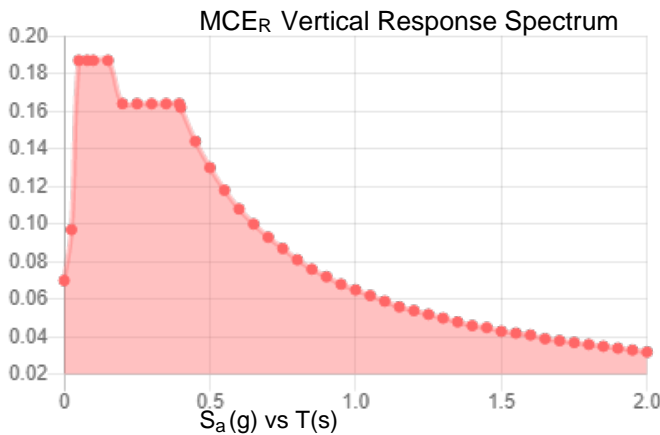
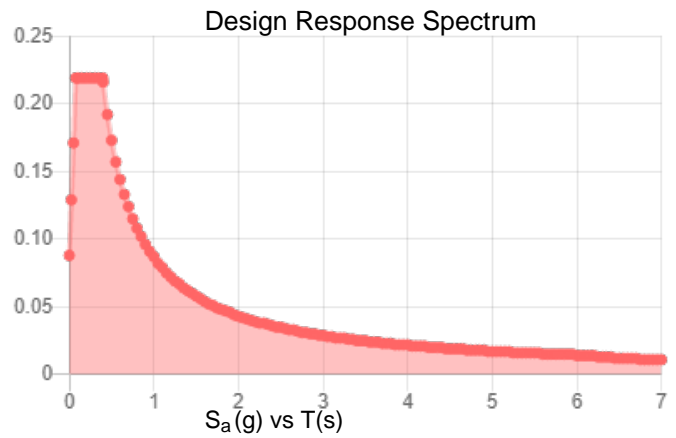
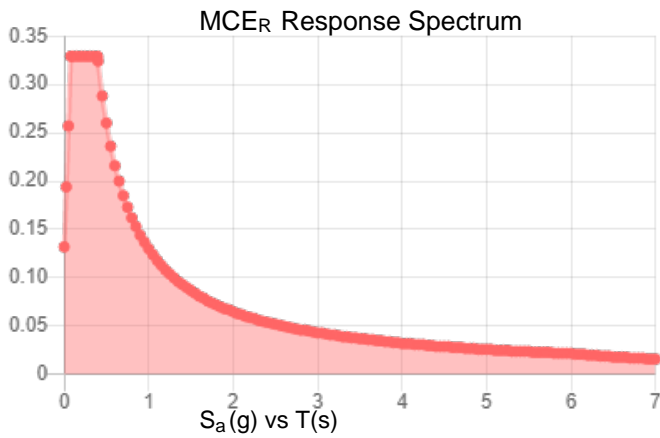
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_s :	0.206	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.115
F_v :	2.4	PGA _M :	0.181
S_{MS} :	0.329	F_{PGA} :	1.57
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.219	C_v :	0.711

Seismic Design Category B



Data Accessed:

Fri Jan 29 2021

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 29 2021

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 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.

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

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Exhibit E



Date: **October 13, 2020**

Kevin Morrow
Crown Castle
6325 Ardrey Kell Rd, Suite 600
Charlotte, NC 28277
(704) 405-6619

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
mhoudeshell@podgrp.com

Subject: Mount Modification Analysis Report

Carrier Designation: AT&T Mobility
Carrier Site Number: 61163
Carrier Site Name: CTV2030
FA Number: 10035042
Pace Number: MRCTB048592

Crown Castle Designation: Crown Castle BU Number: 806361
Crown Castle Site Name: NHV 102 943127
Crown Castle JDE Job Number: 617828
Crown Castle Order Number: 527516 Rev 0

Engineering Firm Designation: POD Report Designation: 20-70444

Site Data: 131 Manor Rd, Guilford, New Haven County, CT 06437
Latitude 41°19'48.09" Longitude -72°43'18.51"

Structure Information: Tower Height & Type: 150 ft Monopole
Mount Elevation: 138 ft
Mount Type: 13.5 ft. Platform with Support Rails

Dear Kevin Morrow,

POD Group is pleased to submit this "Mount Modification Analysis Report" to determine the structural integrity of AT&T Mobility's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned 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.

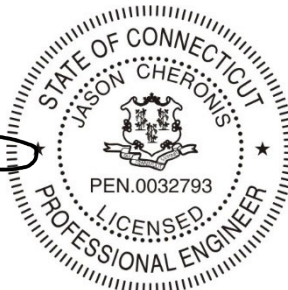
The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

13.5 ft. Platform with Support Rails(Multiple Sector) Sufficient*
***See Section 4.1 of this report for the loading and structural modifications required in order for the mount to support the loading listed in Table 1.**

The analysis has been performed in accordance with the TIA-222-H Standard based upon an ultimate 3-second gust wind speed of 122 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

Jason G. Cheronis P.E.
Connecticut PE#: 0032793



10/13/2020

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- 4) ANALYSIS RESULTS**
 - Table 3 - Mount Component Stresses vs. Capacity
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 - Table 4 – AT&T Specification
- 5) DISCLAIMER OF WARRANTIES**
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- 10) APPENDIX E**
 - Wind Speed Documentation
- 11) APPENDIX F**
 - Specification Sheets
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 - Mount Modification Design Drawings (MDD)

1) INTRODUCTION

This mount is an existing 13.5 ft. Platform with Support Rails. This mount is installed at the 138 ft elevation on the 150 ft Monopole.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	122 mph
Exposure Category:	C
Topographic Factor at Base:	1.00
Topographic Factor at Mount:	1.00
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.206
Seismic S₁:	0.054
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Final Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
138	142	3	CCI ANTENNAS	DMP65R-BU6D	13.5 ft. Platform with Support Rails	-
		3	CCI ANTENNAS	HPA-65R-BUU-H6		
		3	CCI ANTENNAS	OPA65R-BU6D		
		3	POWERWAVE TECHNOLOGIES	7770.00		
		3	ERICSSON	RRUS 4449 B5/B12		
		3	ERICSSON	RRUS 4478 B14		
		3	ERICSSON	RRUS 8843 B2/B66A		
		3	POWERWAVE TECHNOLOGIES	1001940		
		6	POWERWAVE TECHNOLOGIES	LGP21401		
		2	RAYCAP	DC6-48-60-18-8F		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App 527516 Rev 0 Dated: 09/30/2020	Crown Castle
RFDS	-	AT&T RFDS ID: 4093510 Dated: 08/14/2020	Crown Castle
Tower Manufacturer Drawings	-	Valmont Drawings #: DC0095Z Dated: 08/13/1986	Crown Castle
Previous Mount Analysis	-	POD Project #: 20-70234 Dated: 10/02/2020	POD
Mount Modification Drawings	-	POD Project #: 20-70444 Dated: 10/09/2020	POD
Crossover Kit Specification	-	Commscope Part #: XP-2020 Dated: 01/05/2005	Commscope
Stabilizer Specification Sheet	-	SitePro1 Part #: PRK-SFS_L Dated: 09/08/2017	SitePro1
Connection Specification Sheet	-	SitePro1 P/N: PUCK Dated: 09/01/2010	SitePro1

3.1) Analysis Method

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

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

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision B). In addition, this analysis is in accordance with AT&T's mount technical directive.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (13.5 ft. Platform with Support Rails)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
-	Plate	Tab7	138	85.0	Pass
	Stabilizer	SK6	138	74.2	Pass
	Rail	MID RAIL1	138	71.1	Pass
	Mount Pipe	MP GAMMA3	138	71.1	Pass
	Face	FACE3	138	61.3	Pass
	Pipe	PIPE2	138	59.6	Pass
	Vertical	VERT1	138	41.3	Pass
1	Flange Plate	-	-	72.1	Pass
	Flange Bolts	-	-	9.1	Pass

Structure Rating (max from all components) =	85.0 %
---	---------------

Notes:

- 1) See additional documentation in "Appendix D – Additional Calculations" for calculations supporting the % capacity

4.1) Recommendations

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

1. Install a 13.5 ft. P2 Std. Support Rail Attached to existing mount pipes using Crossover Kit Commscope Part #: XP-2020
2. Install a 4 ft. P2 Std. Support Brace connecting all three sectors using SitePro1 P/N: PUCK
2. Install a Stabilizer Kit SitePro1 P/N: PRK-SFS-L
3. Install an 8 ft. Mount attached to the existing Mid Rail and Top Rail with a 2.5x2.5x3/16 clip angle and 1/2" bolts attached to the existing face 4.66 ft. from the left end of the existing face when looking at the mount from the front and attached to the proposed support rail using Commscope Part #: XP-2020

Engineering detail drawings have been provided in Appendix G – Mount Modification Design Drawings. Connection from the mount to the tower and local stresses on the tower are sufficient.

Table 4 – AT&T Specification

Wind Speed (mph)	Ice Thickness (in)	Height (ft)	Exposure	Class	Topo	# of Pipes	Allowable EPA per Pipe (ft sq.)	Allowable Weight per Sector (lbs)
122	1	138	C	II	1	4	12.55	1600

5) DISCLAIMER OF WARRANTIES

POD Group has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by POD Group in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

POD Group does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. POD Group provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

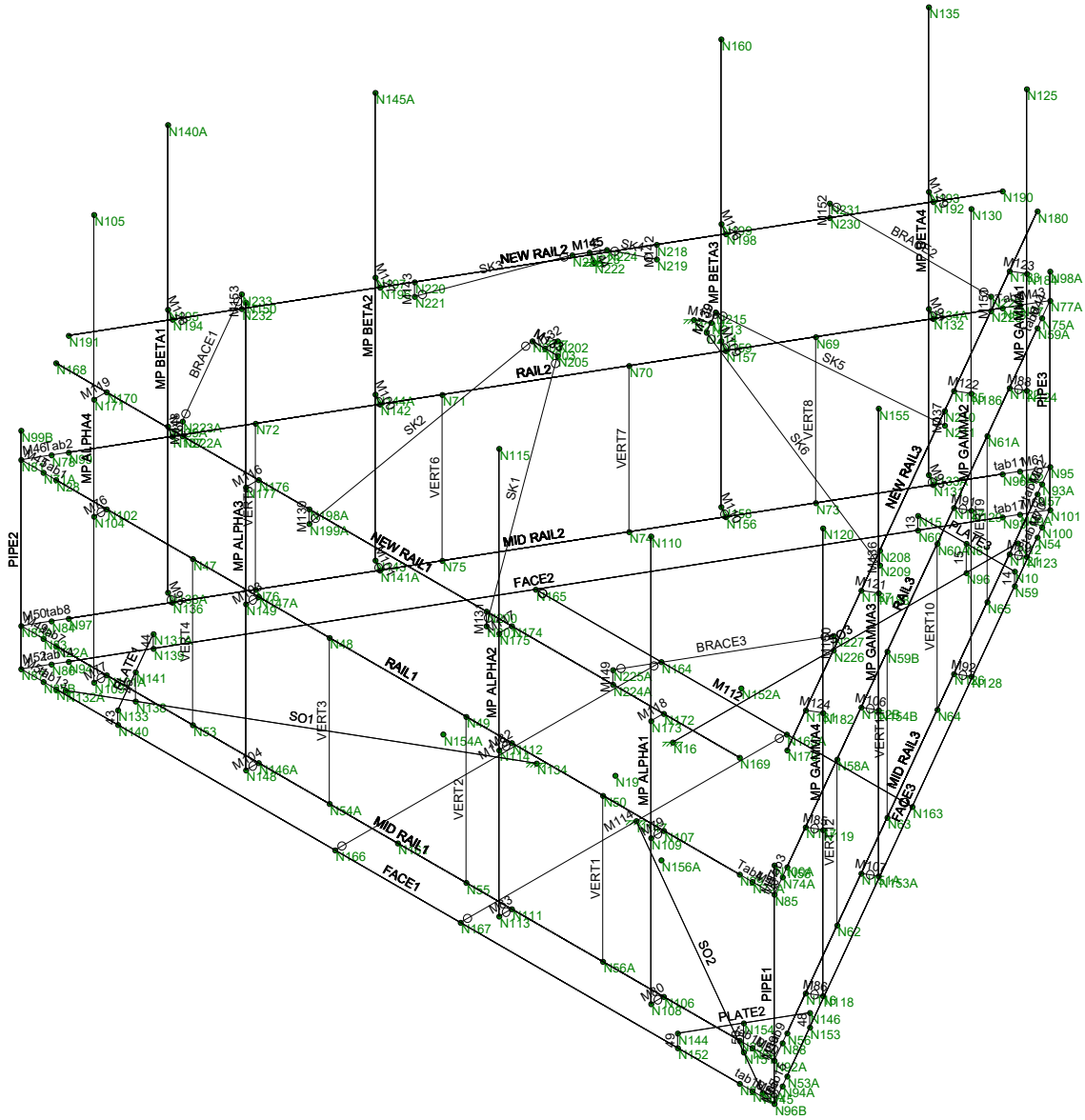
It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from POD Group, but are beyond the scope of this report.

POD Group makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. POD Group will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of POD Group pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Wire Frame and Rendered Models



POD

UT

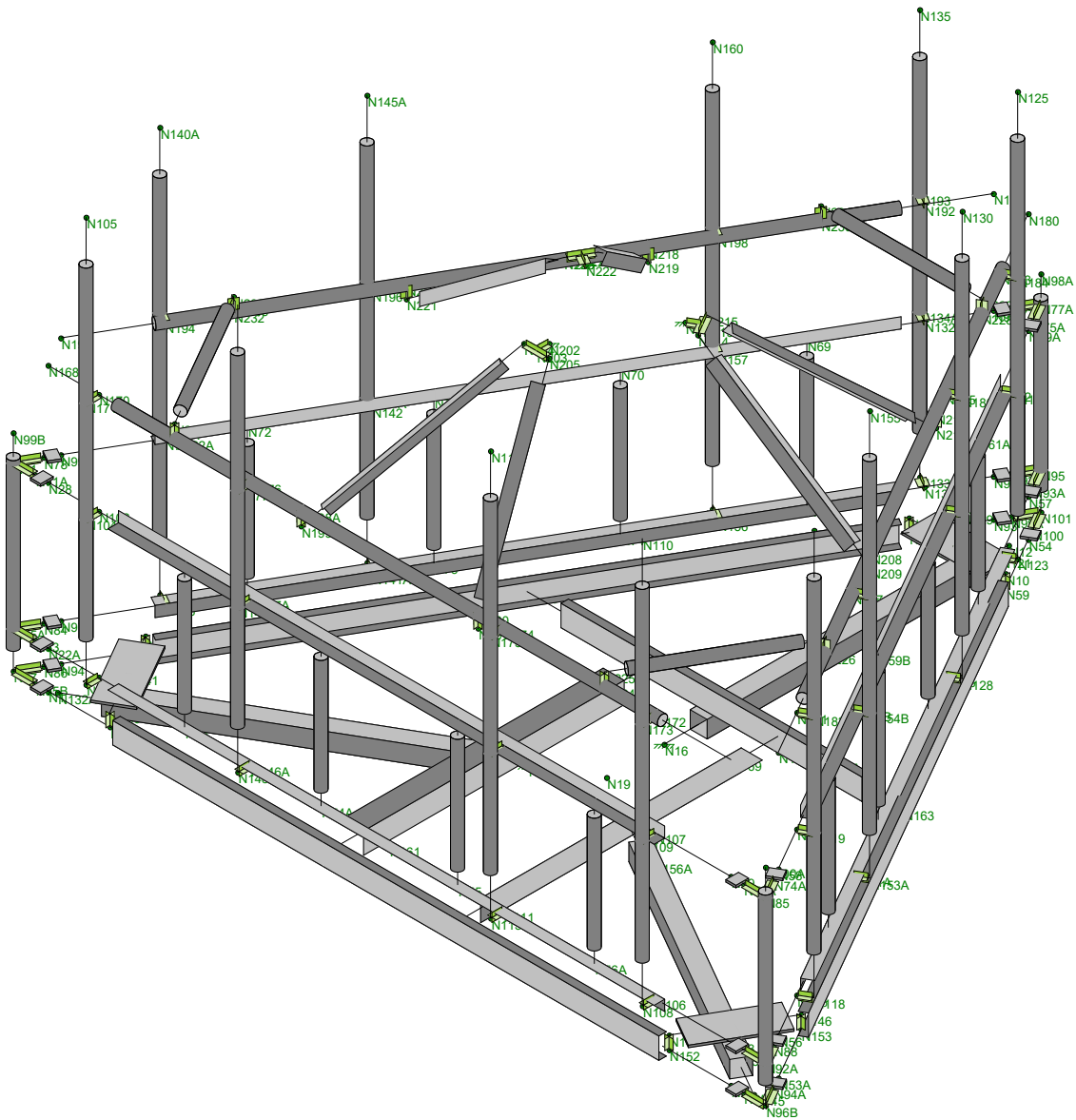
20-70444

806361

SK - 1

Oct 13, 2020 at 2:14 PM

(PL13) 10' Platform (Channel Face...



POD

UT

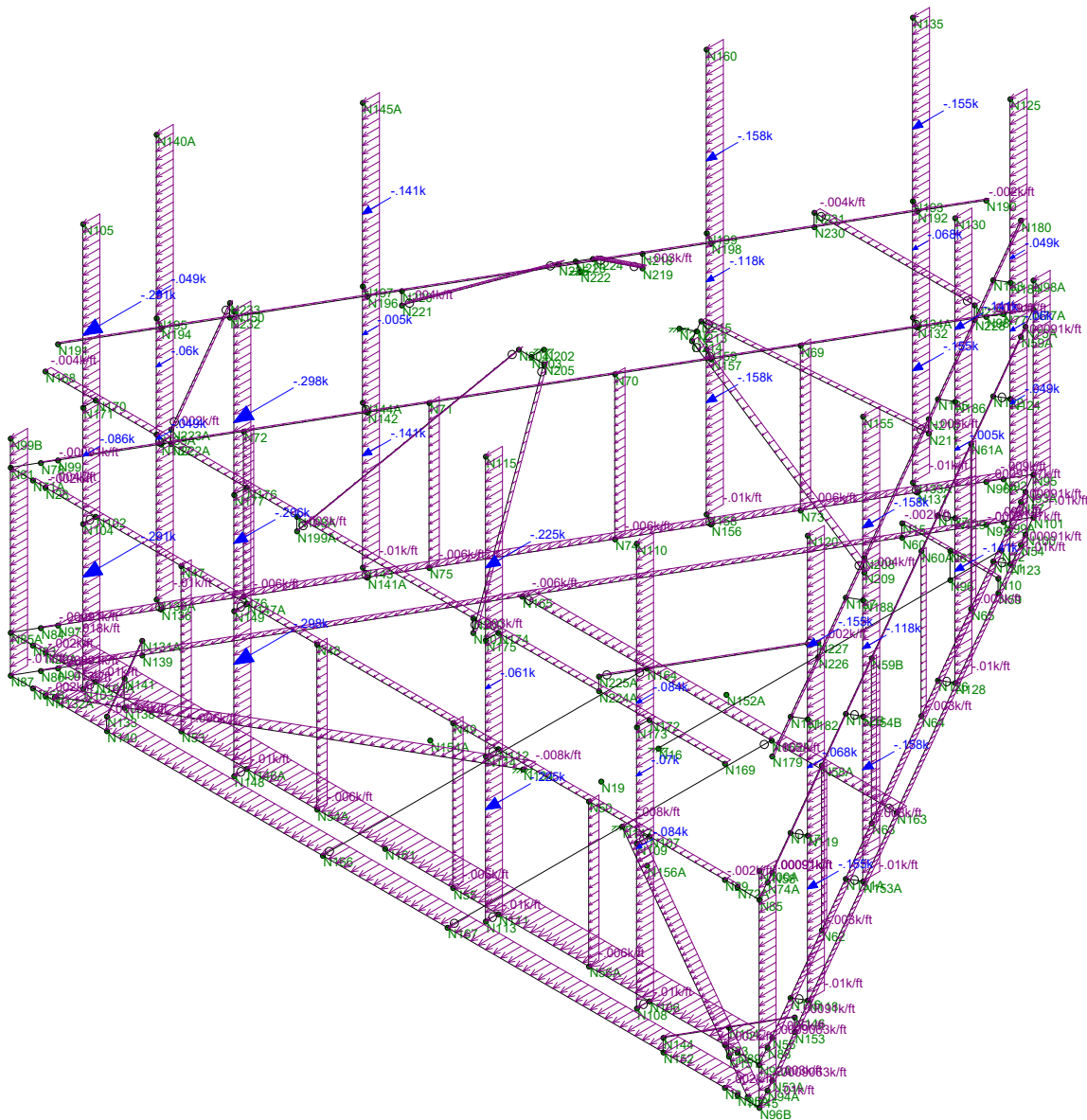
20-70444

806361

SK - 2

Oct 13, 2020 at 2:15 PM

(PL13) 10' Platform (Channel Face...



Loads: BLC 2, Wind Load (0)

POD

UT

20-70444

806361

SK - 1

Oct 13, 2020 at 3:23 PM

(PL13) 10' Platform (Channel Face...

APPENDIX B

Software Input Calculations



POD Job # 20-70234
 Site Number 806361
 Site Name NHV 102 943127

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1
V (Wind Speed)	122	I(ice)	1	Sms	0.330
Zs	281.72	Ss	4	Sm1	0.130
ti	1	S1	0.206	Sds	0.220
VI	50	S1	0.054	Sd1	0.086
Kzt	1	Soil Site Class	D	Seismic Design Category	
Exposure	C	Fa	1.600		B
zg	900	Fv	2.400	Seismic Analysis Not Required	
g	9.5	Tower Type	Monopole	R	2 TIA-222-H 16.7
Kmin	0.85	Tower Height	150	As	1 TIA-222-H 16.7
G _t	1			Cs, Min	0.03 TIA-222-H 2.7.7.1.1
Ke	0.99			Cs	0.10986667 TIA-222-H 2.7.7.1.1
K _o	0.95				
K _z	0.9				

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity	MP #
DMP6SR-BUGD			142	4	50		A/B/C	1	4
HPA-6SR-BUL-H6			142	4	50		A/B/C	1	2
OPA6SR-BUGD			142	4	50		A/B/C	1	3
7770			142	4	30		A/B/C	1	1
RRUS 4449 B5/B12			142	4			A/B/C	1	4
RRUS 4478 B14			142	4			A/B/C	1	3
RRUS 8843 B2/B66A			142	4			A/B/C	1	3
1001940			142	4			A/B/C	1	2
LGP21401			142	4			A/B/C	2	1
DC6-48-60-18-8F			142	4			A	1	2
									3

Mount Information

Elevation (ft)	138	Grating Thickness (in)	1
K _z	1.35	Grating ice Weight (k/ft ²)	0.014
K _z	1.15		
t _z	1.15		

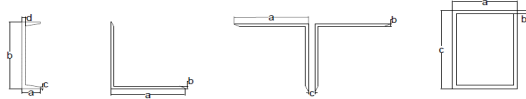
Mount Pipes	Length (ft)	Width (in)	Centerline
	8	2.375	140

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
Vertical On	2.84	2.375	Yes	8
Vertical Off	2.84	2.375	No	4
Rail On	13.5	2.375	Yes	2
Rail Off	13.5	2.375	No	1
Brace	3.25	2.375	No	3

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Tab	0.25	0.5	Channel	0	3	0	0.5	No	18
Standoff	6.812	4	Square HSS	4	0.25	4		No	3
Rail On	13.5	0.5	Channel	0	3	0	0.5	Yes	2
Rail Off	13.5	0.5	Channel	0	3	0	0.5	No	1
Plate	1.911	0.5	Channel	0	8	0	0.5	No	3
Mid Rail On	13.5	2.5	Angle	2.5	0.25			Yes	2
Mid Rail Off	13.5	2.5	Angle	2.5	0.25			No	1
Face On	13.5	1.75	Channel	1.75	5	0.32	0.19	Yes	2
Face Off	13.5	1.75	Channel	1.75	5	0.32	0.19	No	1
Stabilizer	4.25	2.5	Angle	2.5	0.1875			No	6



Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft ²)	[EPA] _w (ft ²)	[EPA] _e (ft ²)	Front	Side	Wind Force (Kips)		
											Alpha	Beta	Gamma
DMP6SR-BU6D	71.2	20.7	7.7	89.3	1.36	48.82	11.93	4.48	0.582	0.218	0.491	0.491	0.218
HPA-6SR-BUU-H6	72.0	14.8	9.0	47.9	1.36	48.82	9.22	4.65	0.450	0.227	0.394	0.394	0.227
OPA6SR-BU6D	71.2	21.0	7.8	63.5	1.36	48.82	12.22	4.54	0.597	0.222	0.503	0.503	0.222
7770	55.0	11.0	5.0	35.0	1.36	48.82	3.42	1.56	0.167	0.076	0.144	0.144	0.076
RRUS 4449 B5/B12	17.9	13.2	9.4	71.0	1.36	48.82	1.77	1.27	0.086	0.062	0.080	0.080	0.062
RRUS 4478 B14	16.5	13.4	7.7	59.9	1.36	48.82	1.66	0.95	0.081	0.047	0.072	0.072	0.047
RRUS 8843 B2/B66A	14.9	13.2	10.9	72.0	1.36	48.82	1.48	1.22	0.072	0.059	0.069	0.069	0.059
1001940	5.7	3.7	1.7	2.0	1.36	48.82	0.16	0.07	0.008	0.004	0.007	0.007	0.004
LGP21401	14.2	6.7	5.4	22.0	1.36	48.82	0.71	0.58	0.035	0.028	0.033	0.033	0.028
DC5-48-60-18-8F	31.3	11.0	11.0	32.8	1.36	48.82	1.09	1.21	0.053	0.059	0.055	0.055	0.059

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft ²)	[EPA] _w (ft ²)	[EPA] _e (ft ²)	Front	Side	Wind Force (Kips)		
												Alpha	Beta	Gamma
DMP6SR-BU6D	1.16	73.51	23.01	10.01	181.30	1.16	8.20	12.33	5.40	0.101	0.044	0.087	0.087	0.044
HPA-6SR-BUU-H6	1.16	74.31	17.11	11.31	155.54	1.16	8.20	9.94	5.70	0.082	0.047	0.073	0.073	0.047
OPA6SR-BU6D	1.16	73.51	23.31	10.11	183.83	1.16	8.20	12.60	5.47	0.103	0.045	0.089	0.089	0.045
7770	1.16	57.31	13.31	7.31	82.85	1.16	8.20	3.89	2.14	0.032	0.018	0.028	0.028	0.018
RRUS 4449 B5/B12	1.16	20.21	15.50	11.75	47.15	1.16	8.20	1.37	1.04	0.011	0.009	0.011	0.011	0.009
RRUS 4478 B14	1.16	18.81	15.71	10.01	40.78	1.16	8.20	1.30	0.83	0.011	0.007	0.010	0.010	0.007
RRUS 8843 B2/B66A	1.16	17.21	15.51	13.21	44.89	1.16	8.20	1.17	1.00	0.010	0.008	0.009	0.009	0.008
1001940	1.16	8.01	6.01	4.01	5.11	1.16	8.20	0.21	0.14	0.002	0.001	0.002	0.002	0.001
LGP21401	1.16	16.51	9.01	7.71	20.57	1.16	8.20	0.65	0.56	0.005	0.005	0.005	0.005	0.005
DC5-48-60-18-8F	1.16	33.56	13.31	13.31	70.28	1.16	8.20	1.96	1.96	0.016	0.016	0.016	0.016	0.016

Round Members

Member	q _i (lb/ft ²)	Ar	C	Wind Calculations				Ice Calculations							
				Rr	Cf	EPA (ft ²)	Load (k/ft)	Width (in)	Weight (k/ft)	q _i (lb/ft ²)	Arice	Rrice	Cf	EPA (ft ²)	Load (k/ft)
Vertical On	48.53	4.50	27.39	0.66	1.20	0.40	0.007	4.68	0.00	8.15	8.87	1.00	1.20	1.20	0.003
Vertical Off	48.53	2.25	27.39	0.66	1.20	0.40	0.003	4.68	0.00	8.15	4.43	1.00	1.20	1.20	0.002

Flat Members

Member	q _i (lb/ft ²)	Af	Cf	Wind Calculations			Ice Calculations						
				EPA	Load (k/ft)	EPA	Width (in)	Weight (k/ft)	q _i (lb/ft ²)	Arice	Rrice	Cf	EPA
Tab	48.53	0.19	2.00	0.02	0.002	2.81	0.01	8.15	1.05	1.00	2.00	0.11	0.002
Standoff	48.53	6.81	1.25	2.55	0.009	6.31	0.01	8.15	10.74	1.00	1.25	4.03	0.002
Rail On	48.53	1.13	1.96	0.99	0.004	2.81	0.01	8.15	6.32	1.00	1.96	5.58	0.003
Rail Off	48.53	0.56	2.00	1.01	0.002	2.81	0.01	8.15	3.16	1.00	2.00	5.69	0.002
Plate	48.53	0.24	2.00	0.14	0.002	2.81	0.01	8.15	1.34	1.00	2.00	0.80	0.002
Mid Rail On	48.53	5.63	1.96	4.97	0.018	4.81	0.01	8.15	10.82	1.00	1.96	9.56	0.006
Mid Rail Off	48.53	2.81	2.00	5.06	0.009	4.81	0.01	8.15	5.41	1.00	2.00	9.74	0.003
Face On	48.53	3.94	1.96	3.48	0.013	4.06	0.01	8.15	9.13	1.00	1.96	8.07	0.005
Face Off	48.53	1.97	2.00	3.54	0.006	4.06	0.01	8.15	4.56	1.00	2.00	8.22	0.002

Appurtenance Seismic Calculations

Model	Weight	Sds	p	Cs	As	Ev	Eh
DMP6SR-BU6D	89.3	0.220	1.000	0.110	1.000	0.004	0.010
HPA-6SR-BUU-H6	47.9	0.220	1.000	0.110	1.000	0.002	0.005
OPA6SR-BU6D	63.5	0.220	1.000	0.110	1.000	0.003	0.007
7770	35.0	0.220	1.000	0.110	1.000	0.002	0.004
RRUS 4449 B5/B12	71.0	0.220	1.000	0.110	1.000	0.003	0.008
RRUS 4478 B14	59.9	0.220	1.000	0.110	1.000	0.003	0.007
RRUS 8843 B2/B66A	72.0	0.220	1.000	0.110	1.000	0.003	0.008
1001940	2.0	0.220	1.000	0.110	1.000	0.000	0.000
LGP21401	22.0	0.220	1.000	0.110	1.000	0.001	0.002
DC5-48-60-18-8F	32.8	0.220	1.000	0.110	1.000	0.001	0.004

APPENDIX C
Software Analysis Output



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Hot Rolled Steel Design Parameters

	Label	Shape	Lengt...	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp ...	L-to...	Kyy	Kzz	Cb	Function
1	tab18	3x0.5	.249			Lbyy						Lateral
2	tab17	3x0.5	.25			Lbyy						Lateral
3	tab16	3x0.5	.25			Lbyy						Lateral
4	tab15	3x0.5	.25			Lbyy						Lateral
5	tab14	3x0.5	.25			Lbyy						Lateral
6	tab13	3x0.5	.25			Lbyy						Lateral
7	tab12	3x0.5	.249			Lbyy						Lateral
8	tab11	3x0.5	.25			Lbyy						Lateral
9	tab10	3x0.5	.25			Lbyy						Lateral
10	tab9	3x0.5	.25			Lbyy						Lateral
11	tab8	3x0.5	.25			Lbyy						Lateral
12	tab7	3x0.5	.25			Lbyy						Lateral
13	tab6	3x0.5	.25			Lbyy						Lateral
14	VERT12	PIPE 2.0	2.84			Lbyy						Lateral
15	VERT11	PIPE 2.0	2.84			Lbyy						Lateral
16	VERT10	PIPE 2.0	2.84			Lbyy						Lateral
17	VERT9	PIPE 2.0	2.84			Lbyy						Lateral
18	VERT8	PIPE 2.0	2.84			Lbyy						Lateral
19	VERT7	PIPE 2.0	2.84			Lbyy						Lateral
20	VERT6	PIPE 2.0	2.84			Lbyy						Lateral
21	VERT5	PIPE 2.0	2.84			Lbyy						Lateral
22	VERT4	PIPE 2.0	2.84			Lbyy						Lateral
23	VERT3	PIPE 2.0	2.84			Lbyy						Lateral
24	VERT2	PIPE 2.0	2.84			Lbyy						Lateral
25	VERT1	PIPE 2.0	2.84			Lbyy						Lateral
26	Tab5	3x0.5	.25			Lbyy						Lateral
27	Tab4	3x0.5	.25			Lbyy						Lateral
28	Tab3	3x0.5	.25			Lbyy						Lateral
29	Tab2	3x0.5	.25			Lbyy						Lateral
30	Tab1	3x0.5	.25			Lbyy						Lateral
31	SO3	HSS4X4X4	6.812			Lbyy						Lateral
32	SO2	HSS4X4X4	6.812			Lbyy						Lateral
33	SO1	HSS4X4X4	6.812			Lbyy						Lateral
34	RAIL3	L2.5x2.5x4	13.5			Lbyy						Lateral
35	RAIL2	L2.5x2.5x4	13.5			Lbyy						Lateral
36	RAIL1	L2.5x2.5x4	13.5			Lbyy						Lateral
37	PLATE3	8x0.5	1.911			Lbyy						Lateral
38	PLATE2	8x0.5	1.911			Lbyy						Lateral
39	PLATE1	8x0.5	1.911			Lbyy						Lateral
40	PIPE3	PIPE 2.0	4.078			Lbyy						Lateral
41	PIPE2	PIPE 2.0	4.078			Lbyy						Lateral
42	PIPE1	PIPE 2.0	4.078			Lbyy						Lateral
43	MP GAMMA4	PIPE 2.0	8			Lbyy						Lateral
44	MP GAMMA3	PIPE 2.0	8			Lbyy						Lateral
45	MP GAMMA2	PIPE 2.0	8			Lbyy						Lateral
46	MP GAMMA1	PIPE 2.0	8			Lbyy						Lateral
47	MP BETA4	PIPE 2.0	8			Lbyy						Lateral
48	MP BETA3	PIPE 2.0	8			Lbyy						Lateral
49	MP BETA2	PIPE 2.0	8			Lbyy						Lateral
50	MP BETA1	PIPE 2.0	8			Lbyy						Lateral
51	MP ALPHA4	PIPE 2.0	8			Lbyy						Lateral
52	MP ALPHA3	PIPE 2.0	8			Lbyy						Lateral
53	MP ALPHA2	PIPE 2.0	8			Lbyy						Lateral
54	MP ALPHA1	PIPE 2.0	8			Lbyy						Lateral
55	MID RAIL3	L2.5x2.5x4	13.5			Lbyy						Lateral
56	MID RAIL2	L2.5x2.5x4	13.5			Lbyy						Lateral



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Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp ...	L-to...	Kyy	Kzz	Cb	Function
57	MID RAIL1	L2.5x2.5x4	13.5			Lbyy						Lateral
58	FACE3	C5X6.7	13.5			Lbyy						Lateral
59	FACE2	C5X6.7	13.5			Lbyy						Lateral
60	FACE1	C5X6.7	13.5			Lbyy						Lateral
61	M112	C5X6.7	7.437			Lbyy						Lateral
62	M113	L5X5X5	6.441			Lbyy						Lateral
63	M114	L5X5X5	6.441			Lbyy						Lateral
64	NEW RAIL1	PIPE 2.0	13.5			Lbyy						Lateral
65	NEW RAIL3	PIPE 2.0	13.5			Lbyy						Lateral
66	NEW RAIL2	PIPE 2.0	13.5			Lbyy						Lateral
67	SK2	L2.5x2.5x3	4.07			Lbyy						Lateral
68	SK1	L2.5x2.5x3	4.07			Lbyy						Lateral
69	SK6	L2.5x2.5x3	4.07			Lbyy						Lateral
70	SK5	L2.5x2.5x3	4.07			Lbyy						Lateral
71	SK4	L2.5x2.5x3	4.07			Lbyy						Lateral
72	SK3	L2.5x2.5x3	4.07			Lbyy						Lateral
73	BRACE1	PIPE 2.0	3.187			Lbyy						Lateral
74	BRACE3	PIPE 2.0	3.187			Lbyy						Lateral
75	BRACE2	PIPE 2.0	3.187			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
1	tab18	N54	N100			3x0.5	Beam	RECT	A36 Gr.36	Typical
2	tab17	N93	N99A		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
3	tab16	N2	N95A		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
4	tab15	N53A	N94A		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
5	tab14	N94	N86			3x0.5	Beam	RECT	A36 Gr.36	Typical
6	tab13	N1	N85B			3x0.5	Beam	RECT	A36 Gr.36	Typical
7	tab12	N57	N93A			3x0.5	Beam	RECT	A36 Gr.36	Typical
8	tab11	N96A	N92		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
9	tab10	N23	N89		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
10	tab9	N56	N88		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
11	tab8	N97	N84			3x0.5	Beam	RECT	A36 Gr.36	Typical
12	tab7	N22A	N83			3x0.5	Beam	RECT	A36 Gr.36	Typical
13	tab6	N59A	N75A			3x0.5	Beam	RECT	A36 Gr.36	Typical
14	VERT12	N62	N58A		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
15	VERT11	N63	N59B		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
16	VERT10	N64	N60A		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
17	VERT9	N65	N61A		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
18	VERT8	N73	N69		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
19	VERT7	N74	N70		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
20	VERT6	N75	N71		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
21	VERT5	N76	N72		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
22	VERT4	N53	N47			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
23	VERT3	N54A	N48			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
24	VERT2	N55	N49			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
25	VERT1	N56A	N50			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
26	Tab5	N98	N77		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
27	Tab4	N29	N72A		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
28	Tab3	N58	N74A		180	3x0.5	Beam	RECT	A36 Gr.36	Typical
29	Tab2	N99	N78			3x0.5	Beam	RECT	A36 Gr.36	Typical
30	Tab1	N28	N71A			3x0.5	Beam	RECT	A36 Gr.36	Typical
31	SO3	N16	N12			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
32	SO2	N147	N145			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
33	SO1	N134	N132A			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
34	RAIL3	N58	N59A		270	L2.5x2.5x4	Beam	Single Ang...	A36 Gr.36	Typical
35	RAIL2	N98	N99		270	L2.5x2.5x4	Beam	Single Ang...	A36 Gr.36	Typical
36	RAIL1	N28	N29		90	L2.5x2.5x4	Beam	Single Ang...	A36 Gr.36	Typical
37	PLATE3	N15	N10			8x0.5	Beam	BAR	A36 Gr.36	Typical
38	PLATE2	N146	N144			8x0.5	Beam	BAR	A36 Gr.36	Typical
39	PLATE1	N133	N131A			8x0.5	Beam	BAR	A36 Gr.36	Typical
40	PIPE3	N101	N98A		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
41	PIPE2	N87	N99B			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
42	PIPE1	N96B	N100A		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
43	MP GAMMA4	N118	N120		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
44	MP GAMMA3	N153A	N155		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
45	MP GAMMA2	N128	N130		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
46	MP GAMMA1	N123	N125		120	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
47	MP BETA4	N133A	N135		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
48	MP BETA3	N158	N160		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
49	MP BETA2	N143	N145A		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
50	MP BETA1	N138A	N140A		240	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
51	MP ALPHA4	N103	N105			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
52	MP ALPHA3	N148	N150			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
53	MP ALPHA2	N113	N115			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
54	MP ALPHA1	N108	N110			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
55	MID RAIL3	N56	N57			L2.5x2.5x4	Beam	Single Ang...	A36 Gr.36	Typical
56	MID RAIL2	N96A	N97			L2.5x2.5x4	Beam	Single Ang...	A36 Gr.36	Typical
57	MID RAIL1	N22A	N23		180	L2.5x2.5x4	Beam	Single Ang...	A36 Gr.36	Typical
58	M110	N158	N156			RIGID	None	None	RIGID	Typical
59	M109	N159	N157			RIGID	None	None	RIGID	Typical
60	M107	N153A	N151A		180	RIGID	None	None	RIGID	Typical
61	M106	N154B	N152B		180	RIGID	None	None	RIGID	Typical
62	M104	N148	N146A			RIGID	None	None	RIGID	Typical
63	M103	N149	N147A			RIGID	None	None	RIGID	Typical
64	M101	N143	N141A			RIGID	None	None	RIGID	Typical
65	M100	N144A	N142			RIGID	None	None	RIGID	Typical
66	M98	N138A	N136			RIGID	None	None	RIGID	Typical
67	M97	N139A	N137			RIGID	None	None	RIGID	Typical
68	M95	N133A	N131			RIGID	None	None	RIGID	Typical
69	M94	N134A	N132			RIGID	None	None	RIGID	Typical
70	M92	N128	N126		180	RIGID	None	None	RIGID	Typical
71	M91	N129	N127		180	RIGID	None	None	RIGID	Typical
72	M89	N123	N121		180	RIGID	None	None	RIGID	Typical
73	M88	N124	N122		180	RIGID	None	None	RIGID	Typical
74	M86	N118	N116		180	RIGID	None	None	RIGID	Typical
75	M85	N119	N117		180	RIGID	None	None	RIGID	Typical
76	M83	N113	N111			RIGID	None	None	RIGID	Typical
77	M82	N114	N112			RIGID	None	None	RIGID	Typical
78	M80	N108	N106			RIGID	None	None	RIGID	Typical
79	M79	N109	N107			RIGID	None	None	RIGID	Typical
80	M77	N103	N101A			RIGID	None	None	RIGID	Typical
81	M76	N104	N102			RIGID	None	None	RIGID	Typical
82	M70	N101	N100			RIGID	None	None	RIGID	Typical
83	M69	N99A	N101		180	RIGID	None	None	RIGID	Typical
84	M66	N96B	N95A		180	RIGID	None	None	RIGID	Typical
85	M65	N94A	N96B		180	RIGID	None	None	RIGID	Typical
86	M62	N95	N93A			RIGID	None	None	RIGID	Typical
87	M61	N92	N95		180	RIGID	None	None	RIGID	Typical
88	M60	N92A	N89		180	RIGID	None	None	RIGID	Typical
89	M59	N88	N92A		180	RIGID	None	None	RIGID	Typical
90	M52	N87	N86			RIGID	None	None	RIGID	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
91	M51	N85B	N87			RIGID	None	None	RIGID	Typical
92	M50	N85A	N84			RIGID	None	None	RIGID	Typical
93	M49	N83	N85A			RIGID	None	None	RIGID	Typical
94	M48	N85	N72A			RIGID	None	None	RIGID	Typical
95	M47	N74A	N85			RIGID	None	None	RIGID	Typical
96	M46	N81	N78			RIGID	None	None	RIGID	Typical
97	M45	N71A	N81			RIGID	None	None	RIGID	Typical
98	M44	N77A	N75A			RIGID	None	None	RIGID	Typical
99	M43	N77	N77A			RIGID	None	None	RIGID	Typical
100	FACE3	N53A	N54		90	C5X6.7	Beam	Channel	A36 Gr.36	Typical
101	FACE2	N93	N94		90	C5X6.7	Beam	Channel	A36 Gr.36	Typical
102	FACE1	N1	N2		270	C5X6.7	Beam	Channel	A36 Gr.36	Typical
103	50	N151	N154			RIGID	None	None	RIGID	Typical
104	49	N152	N144			RIGID	None	None	RIGID	Typical
105	48	N153	N146			RIGID	None	None	RIGID	Typical
106	45	N138	N141			RIGID	None	None	RIGID	Typical
107	44	N139	N131A			RIGID	None	None	RIGID	Typical
108	43	N140	N133			RIGID	None	None	RIGID	Typical
109	15	N96	N61			RIGID	None	None	RIGID	Typical
110	14	N59	N10			RIGID	None	None	RIGID	Typical
111	13	N60	N15			RIGID	None	None	RIGID	Typical
112	M112	N165	N163		270	C5X6.7	Beam	Channel	A36 Gr.36	Typical
113	M113	N166	N164		270	L5X5X5	Beam	Single Ang...	A36 Gr.36	Typical
114	M114	N167	N165A		180	L5X5X5	Beam	Single Ang...	A36 Gr.36	Typical
115	NEW RAIL1	N168	N169		90	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
116	M116	N177	N176			RIGID	None	None	RIGID	Typical
117	M117	N175	N174			RIGID	None	None	RIGID	Typical
118	M118	N173	N172			RIGID	None	None	RIGID	Typical
119	M119	N171	N170			RIGID	None	None	RIGID	Typical
120	NEW RAIL3	N179	N180		270	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
121	M121	N188	N187		180	RIGID	None	None	RIGID	Typical
122	M122	N186	N185		180	RIGID	None	None	RIGID	Typical
123	M123	N184	N183		180	RIGID	None	None	RIGID	Typical
124	M124	N182	N181		180	RIGID	None	None	RIGID	Typical
125	NEW RAIL2	N190	N191		270	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
126	M126	N199	N198			RIGID	None	None	RIGID	Typical
127	M127	N197	N196			RIGID	None	None	RIGID	Typical
128	M128	N195	N194			RIGID	None	None	RIGID	Typical
129	M129	N193	N192			RIGID	None	None	RIGID	Typical
130	M130	N199A	N198A			RIGID	None	None	RIGID	Typical
131	M131	N201	N200			RIGID	None	None	RIGID	Typical
132	M132	N203	N202			RIGID	None	None	RIGID	Typical
133	M133	N204	N205			RIGID	None	None	RIGID	Typical
134	SK2	N199A	N204		210	L2.5x2.5x3	Beam	Single Ang...	A36 Gr.36	Typical
135	SK1	N201	N205		60	L2.5x2.5x3	Beam	Single Ang...	A36 Gr.36	Typical
136	M136	N209	N208		120	RIGID	None	None	RIGID	Typical
137	M137	N211	N210		120	RIGID	None	None	RIGID	Typical
138	M138	N213	N212		180	RIGID	None	None	RIGID	Typical
139	M139	N214	N215		180	RIGID	None	None	RIGID	Typical
140	SK6	N209	N214		30	L2.5x2.5x3	Beam	Single Ang...	A36 Gr.36	Typical
141	SK5	N211	N215		120	L2.5x2.5x3	Beam	Single Ang...	A36 Gr.36	Typical
142	M142	N219	N218		240	RIGID	None	None	RIGID	Typical
143	M143	N221	N220		240	RIGID	None	None	RIGID	Typical
144	M144	N223	N222			RIGID	None	None	RIGID	Typical
145	M145	N224	N225		180	RIGID	None	None	RIGID	Typical
146	SK4	N219	N224		120	L2.5x2.5x3	Beam	Single Ang...	A36 Gr.36	Typical
147	SK3	N221	N225		240	L2.5x2.5x3	Beam	Single Ang...	A36 Gr.36	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design R...
148	M148	N222A	N223A			RIGID	None	None	RIGID	Typical
149	M149	N224A	N225A			RIGID	None	None	RIGID	Typical
150	M150	N226	N227		120	RIGID	None	None	RIGID	Typical
151	M151	N228	N229		120	RIGID	None	None	RIGID	Typical
152	M152	N230	N231		240	RIGID	None	None	RIGID	Typical
153	M153	N232	N233		240	RIGID	None	None	RIGID	Typical
154	BRACE1	N223A	N233		90	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
155	BRACE3	N227	N225A		90	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
156	BRACE2	N231	N229		270	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Options	Analysis...	Inactive	Seismi...
1	tab18						Yes					None
2	tab17						Yes					None
3	tab16						Yes					None
4	tab15						Yes					None
5	tab14						Yes					None
6	tab13						Yes					None
7	tab12						Yes					None
8	tab11						Yes					None
9	tab10						Yes					None
10	tab9						Yes					None
11	tab8						Yes					None
12	tab7						Yes					None
13	tab6						Yes					None
14	VERT12						Yes					None
15	VERT11						Yes					None
16	VERT10						Yes					None
17	VERT9						Yes					None
18	VERT8						Yes					None
19	VERT7						Yes					None
20	VERT6						Yes					None
21	VERT5						Yes					None
22	VERT4						Yes					None
23	VERT3						Yes					None
24	VERT2						Yes					None
25	VERT1						Yes					None
26	Tab5						Yes					None
27	Tab4						Yes					None
28	Tab3						Yes					None
29	Tab2						Yes					None
30	Tab1						Yes					None
31	SO3						Yes					None
32	SO2						Yes					None
33	SO1						Yes					None
34	RAIL3						Yes					None
35	RAIL2						Yes					None
36	RAIL1						Yes					None
37	PLATE3						Yes					None
38	PLATE2						Yes					None
39	PLATE1						Yes					None
40	PIPE3						Yes					None
41	PIPE2						Yes					None
42	PIPE1						Yes					None
43	MP GAM...						Yes					None



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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Options	Analysis...	Inactive	Seismi...
44	MP GAM...						Yes					None
45	MP GAM...						Yes					None
46	MP GAM...						Yes					None
47	MP BETA4						Yes					None
48	MP BETA3						Yes					None
49	MP BETA2						Yes					None
50	MP BETA1						Yes					None
51	MP ALP...						Yes					None
52	MP ALP...						Yes					None
53	MP ALP...						Yes					None
54	MP ALP...						Yes					None
55	MID RAIL3						Yes					None
56	MID RAIL2						Yes					None
57	MID RAIL1						Yes					None
58	M110	000X00					Yes	**	NA	**		None
59	M109	000X00					Yes	**	NA	**		None
60	M107	000X00					Yes	**	NA	**		None
61	M106	000X00					Yes	**	NA	**		None
62	M104	000X00					Yes	**	NA	**		None
63	M103	000X00					Yes	**	NA	**		None
64	M101	000X00					Yes	**	NA	**		None
65	M100	000X00					Yes	**	NA	**		None
66	M98	000X00					Yes	**	NA	**		None
67	M97	000X00					Yes	**	NA	**		None
68	M95	000X00					Yes	**	NA	**		None
69	M94	000X00					Yes	**	NA	**		None
70	M92	000X00					Yes	**	NA	**		None
71	M91	000X00					Yes	**	NA	**		None
72	M89	000X00					Yes	**	NA	**		None
73	M88	000X00					Yes	**	NA	**		None
74	M86	000X00					Yes	**	NA	**		None
75	M85	000X00					Yes	**	NA	**		None
76	M83	000X00					Yes	**	NA	**		None
77	M82	000X00					Yes	**	NA	**		None
78	M80	000X00					Yes	**	NA	**		None
79	M79	000X00					Yes	**	NA	**		None
80	M77	000X00					Yes	**	NA	**		None
81	M76	000X00					Yes	**	NA	**		None
82	M70						Yes	**	NA	**		None
83	M69						Yes	**	NA	**		None
84	M66						Yes	**	NA	**		None
85	M65						Yes	**	NA	**		None
86	M62						Yes	**	NA	**		None
87	M61						Yes	**	NA	**		None
88	M60						Yes	**	NA	**		None
89	M59						Yes	**	NA	**		None
90	M52						Yes	**	NA	**		None
91	M51						Yes	**	NA	**		None
92	M50						Yes	**	NA	**		None
93	M49						Yes	**	NA	**		None
94	M48						Yes	**	NA	**		None
95	M47						Yes	**	NA	**		None
96	M46						Yes	**	NA	**		None
97	M45						Yes	**	NA	**		None
98	M44						Yes	**	NA	**		None
99	M43						Yes	**	NA	**		None
100	FACE3						Yes					None



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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Options	Analysis...	Inactive	Seismi...
101	FACE2						Yes					None
102	FACE1						Yes					None
103	50						Yes	**	NA **			None
104	49						Yes	**	NA **			None
105	48						Yes	**	NA **			None
106	45						Yes	**	NA **			None
107	44						Yes	**	NA **			None
108	43						Yes	**	NA **			None
109	15						Yes	**	NA **			None
110	14						Yes	**	NA **			None
111	13						Yes	**	NA **			None
112	M112	BenPIN	BenPIN				Yes		Default			None
113	M113	BenPIN	BenPIN				Yes		Default			None
114	M114	BenPIN	BenPIN				Yes		Default			None
115	NEW RAI...						Yes		Default			None
116	M116						Yes	**	NA **			None
117	M117						Yes	**	NA **			None
118	M118						Yes	**	NA **			None
119	M119						Yes	**	NA **			None
120	NEW RAI...						Yes					None
121	M121						Yes	**	NA **			None
122	M122						Yes	**	NA **			None
123	M123						Yes	**	NA **			None
124	M124						Yes	**	NA **			None
125	NEW RAI...						Yes					None
126	M126						Yes	**	NA **			None
127	M127						Yes	**	NA **			None
128	M128						Yes	**	NA **			None
129	M129						Yes	**	NA **			None
130	M130						Yes	**	NA **			None
131	M131						Yes	**	NA **			None
132	M132						Yes	**	NA **			None
133	M133						Yes	**	NA **			None
134	SK2	00000X	00000X				Yes		Default			None
135	SK1	00000X	00000X				Yes		Default			None
136	M136						Yes	**	NA **			None
137	M137						Yes	**	NA **			None
138	M138						Yes	**	NA **			None
139	M139						Yes	**	NA **			None
140	SK6	00000X	00000X				Yes		Default			None
141	SK5	00000X	00000X				Yes		Default			None
142	M142						Yes	**	NA **			None
143	M143						Yes	**	NA **			None
144	M144						Yes	**	NA **			None
145	M145						Yes	**	NA **			None
146	SK4	00000X	00000X				Yes		Default			None
147	SK3	00000X	00000X				Yes		Default			None
148	M148						Yes	**	NA **			None
149	M149						Yes	**	NA **			None
150	M150						Yes	**	NA **			None
151	M151						Yes	**	NA **			None
152	M152						Yes	**	NA **			None
153	M153						Yes	**	NA **			None
154	BRACE1	00000X	00000X				Yes		Default			None
155	BRACE3	00000X	00000X				Yes		Default			None
156	BRACE2	00000X	00000X				Yes		Default			None



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Hot Rolled Steel Properties

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

Member Point Loads (BLC 1 : Live Load)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	FACE1	Z	-.5	0

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP ALPHA4	Y	-.291	6.083
2	MP ALPHA4	Y	-.291	1.917
3	MP BETA4	Y	-.155	6.083
4	MP BETA4	Y	-.155	1.917
5	MP GAMMA4	Y	-.155	6.083
6	MP GAMMA4	Y	-.155	1.917
7	MP ALPHA2	Y	-.225	6.083
8	MP ALPHA2	Y	-.225	1.917
9	MP BETA2	Y	-.141	6.083
10	MP BETA2	Y	-.141	1.917
11	MP GAMMA2	Y	-.141	6.083
12	MP GAMMA2	Y	-.141	1.917
13	MP ALPHA3	Y	-.298	6.083
14	MP ALPHA3	Y	-.298	1.917
15	MP BETA3	Y	-.158	6.083
16	MP BETA3	Y	-.158	1.917
17	MP GAMMA3	Y	-.158	6.083
18	MP GAMMA3	Y	-.158	1.917
19	MP ALPHA1	Y	-.084	5.25
20	MP ALPHA1	Y	-.084	2.75
21	MP BETA1	Y	-.049	5.25
22	MP BETA1	Y	-.049	2.75
23	MP GAMMA1	Y	-.049	5.25
24	MP GAMMA1	Y	-.049	2.75
25	MP ALPHA4	Y	-.086	4
26	MP BETA4	Y	-.068	4
27	MP GAMMA4	Y	-.068	4
28	MP ALPHA3	Y	-.081	4
29	MP BETA3	Y	-.055	4
30	MP GAMMA3	Y	-.055	4
31	MP ALPHA3	Y	-.072	4
32	MP BETA3	Y	-.063	4
33	MP GAMMA3	Y	-.063	4
34	MP ALPHA2	Y	-.008	4
35	MP BETA2	Y	-.005	4
36	MP GAMMA2	Y	-.005	4
37	MP ALPHA1	Y	-.07	4
38	MP BETA1	Y	-.06	4
39	MP GAMMA1	Y	-.06	4
40	MP ALPHA2	Y	-.053	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
41	MP ALPHA3	Y	-0.53	4

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Z	-0.45	6.083
2	MP ALPHA4	Z	-0.45	1.917
3	MP BETA4	Z	-0.45	6.083
4	MP BETA4	Z	-0.45	1.917
5	MP GAMMA4	Z	-0.45	6.083
6	MP GAMMA4	Z	-0.45	1.917
7	MP ALPHA2	Z	-0.24	6.083
8	MP ALPHA2	Z	-0.24	1.917
9	MP BETA2	Z	-0.24	6.083
10	MP BETA2	Z	-0.24	1.917
11	MP GAMMA2	Z	-0.24	6.083
12	MP GAMMA2	Z	-0.24	1.917
13	MP ALPHA3	Z	-0.32	6.083
14	MP ALPHA3	Z	-0.32	1.917
15	MP BETA3	Z	-0.32	6.083
16	MP BETA3	Z	-0.32	1.917
17	MP GAMMA3	Z	-0.32	6.083
18	MP GAMMA3	Z	-0.32	1.917
19	MP ALPHA1	Z	-0.18	5.25
20	MP ALPHA1	Z	-0.18	2.75
21	MP BETA1	Z	-0.18	5.25
22	MP BETA1	Z	-0.18	2.75
23	MP GAMMA1	Z	-0.18	5.25
24	MP GAMMA1	Z	-0.18	2.75
25	MP ALPHA4	Z	-0.71	4
26	MP BETA4	Z	-0.71	4
27	MP GAMMA4	Z	-0.71	4
28	MP ALPHA3	Z	-0.06	4
29	MP BETA3	Z	-0.06	4
30	MP GAMMA3	Z	-0.06	4
31	MP ALPHA3	Z	-0.72	4
32	MP BETA3	Z	-0.72	4
33	MP GAMMA3	Z	-0.72	4
34	MP ALPHA2	Z	-0.02	4
35	MP BETA2	Z	-0.02	4
36	MP GAMMA2	Z	-0.02	4
37	MP ALPHA1	Z	-0.44	4
38	MP BETA1	Z	-0.44	4
39	MP GAMMA1	Z	-0.44	4
40	MP ALPHA2	Z	-0.33	4
41	MP ALPHA3	Z	-0.33	4

Member Point Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Y	-2.13	6.083
2	MP ALPHA4	Y	-2.13	1.917
3	MP ALPHA4	X	-1.23	6.083
4	MP ALPHA4	X	-1.23	1.917
5	MP BETA4	Y	-0.95	6.083
6	MP BETA4	Y	-0.95	1.917
7	MP BETA4	X	-0.55	6.083
8	MP BETA4	X	-0.55	1.917



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Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP GAMMA4	Y	-0.213	6.083
10	MP GAMMA4	Y	-0.213	1.917
11	MP GAMMA4	X	-0.123	6.083
12	MP GAMMA4	X	-0.123	1.917
13	MP ALPHA2	Y	-0.171	6.083
14	MP ALPHA2	Y	-0.171	1.917
15	MP ALPHA2	X	-0.099	6.083
16	MP ALPHA2	X	-0.099	1.917
17	MP BETA2	Y	-0.098	6.083
18	MP BETA2	Y	-0.098	1.917
19	MP BETA2	X	-0.057	6.083
20	MP BETA2	X	-0.057	1.917
21	MP GAMMA2	Y	-0.171	6.083
22	MP GAMMA2	Y	-0.171	1.917
23	MP GAMMA2	X	-0.099	6.083
24	MP GAMMA2	X	-0.099	1.917
25	MP ALPHA3	Y	-0.218	6.083
26	MP ALPHA3	Y	-0.218	1.917
27	MP ALPHA3	X	-0.126	6.083
28	MP ALPHA3	X	-0.126	1.917
29	MP BETA3	Y	-0.096	6.083
30	MP BETA3	Y	-0.096	1.917
31	MP BETA3	X	-0.055	6.083
32	MP BETA3	X	-0.055	1.917
33	MP GAMMA3	Y	-0.218	6.083
34	MP GAMMA3	Y	-0.218	1.917
35	MP GAMMA3	X	-0.126	6.083
36	MP GAMMA3	X	-0.126	1.917
37	MP ALPHA1	Y	-0.063	5.25
38	MP ALPHA1	Y	-0.063	2.75
39	MP ALPHA1	X	-0.036	5.25
40	MP ALPHA1	X	-0.036	2.75
41	MP BETA1	Y	-0.033	5.25
42	MP BETA1	Y	-0.033	2.75
43	MP BETA1	X	-0.019	5.25
44	MP BETA1	X	-0.019	2.75
45	MP GAMMA1	Y	-0.063	5.25
46	MP GAMMA1	Y	-0.063	2.75
47	MP GAMMA1	X	-0.036	5.25
48	MP GAMMA1	X	-0.036	2.75
49	MP ALPHA4	Y	-0.07	4
50	MP ALPHA4	X	-0.04	4
51	MP BETA4	Y	-0.054	4
52	MP BETA4	X	-0.031	4
53	MP GAMMA4	Y	-0.07	4
54	MP GAMMA4	X	-0.04	4
55	MP ALPHA3	Y	-0.063	4
56	MP ALPHA3	X	-0.036	4
57	MP BETA3	Y	-0.04	4
58	MP BETA3	X	-0.023	4
59	MP GAMMA3	Y	-0.063	4
60	MP GAMMA3	X	-0.036	4
61	MP ALPHA3	Y	-0.06	4
62	MP ALPHA3	X	-0.034	4
63	MP BETA3	Y	-0.052	4
64	MP BETA3	X	-0.03	4
65	MP GAMMA3	Y	-0.06	4



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Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP GAMMA3	X	-0.034	4
67	MP ALPHA2	Y	-0.006	4
68	MP ALPHA2	X	-0.003	4
69	MP BETA2	Y	-0.003	4
70	MP BETA2	X	-0.002	4
71	MP GAMMA2	Y	-0.006	4
72	MP GAMMA2	X	-0.003	4
73	MP ALPHA1	Y	-0.057	4
74	MP ALPHA1	X	-0.033	4
75	MP BETA1	Y	-0.049	4
76	MP BETA1	X	-0.028	4
77	MP GAMMA1	Y	-0.057	4
78	MP GAMMA1	X	-0.033	4
79	MP ALPHA2	Y	-0.047	4
80	MP ALPHA2	X	-0.027	4
81	MP ALPHA3	Y	-0.047	4
82	MP ALPHA3	X	-0.027	4

Member Point Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.077	6.083
2	MP ALPHA4	Y	-0.077	1.917
3	MP ALPHA4	X	-0.134	6.083
4	MP ALPHA4	X	-0.134	1.917
5	MP BETA4	Y	-0.077	6.083
6	MP BETA4	Y	-0.077	1.917
7	MP BETA4	X	-0.134	6.083
8	MP BETA4	X	-0.134	1.917
9	MP GAMMA4	Y	-0.146	6.083
10	MP GAMMA4	Y	-0.146	1.917
11	MP GAMMA4	X	-0.252	6.083
12	MP GAMMA4	X	-0.252	1.917
13	MP ALPHA2	Y	-0.071	6.083
14	MP ALPHA2	Y	-0.071	1.917
15	MP ALPHA2	X	-0.122	6.083
16	MP ALPHA2	X	-0.122	1.917
17	MP BETA2	Y	-0.071	6.083
18	MP BETA2	Y	-0.071	1.917
19	MP BETA2	X	-0.122	6.083
20	MP BETA2	X	-0.122	1.917
21	MP GAMMA2	Y	-0.113	6.083
22	MP GAMMA2	Y	-0.113	1.917
23	MP GAMMA2	X	-0.195	6.083
24	MP GAMMA2	X	-0.195	1.917
25	MP ALPHA3	Y	-0.079	6.083
26	MP ALPHA3	Y	-0.079	1.917
27	MP ALPHA3	X	-0.137	6.083
28	MP ALPHA3	X	-0.137	1.917
29	MP BETA3	Y	-0.079	6.083
30	MP BETA3	Y	-0.079	1.917
31	MP BETA3	X	-0.137	6.083
32	MP BETA3	X	-0.137	1.917
33	MP GAMMA3	Y	-0.149	6.083
34	MP GAMMA3	Y	-0.149	1.917
35	MP GAMMA3	X	-0.258	6.083
36	MP GAMMA3	X	-0.258	1.917



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Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP ALPHA1	Y	-0.25	5.25
38	MP ALPHA1	Y	-0.25	2.75
39	MP ALPHA1	X	-0.43	5.25
40	MP ALPHA1	X	-0.43	2.75
41	MP BETA1	Y	-0.25	5.25
42	MP BETA1	Y	-0.25	2.75
43	MP BETA1	X	-0.43	5.25
44	MP BETA1	X	-0.43	2.75
45	MP GAMMA1	Y	-0.42	5.25
46	MP GAMMA1	Y	-0.42	2.75
47	MP GAMMA1	X	-0.72	5.25
48	MP GAMMA1	X	-0.72	2.75
49	MP ALPHA4	Y	-0.34	4
50	MP ALPHA4	X	-0.59	4
51	MP BETA4	Y	-0.34	4
52	MP BETA4	X	-0.59	4
53	MP GAMMA4	Y	-0.43	4
54	MP GAMMA4	X	-0.75	4
55	MP ALPHA3	Y	-0.28	4
56	MP ALPHA3	X	-0.48	4
57	MP BETA3	Y	-0.28	4
58	MP BETA3	X	-0.48	4
59	MP GAMMA3	Y	-0.04	4
60	MP GAMMA3	X	-0.07	4
61	MP ALPHA3	Y	-0.31	4
62	MP ALPHA3	X	-0.54	4
63	MP BETA3	Y	-0.31	4
64	MP BETA3	X	-0.54	4
65	MP GAMMA3	Y	-0.36	4
66	MP GAMMA3	X	-0.62	4
67	MP ALPHA2	Y	-0.02	4
68	MP ALPHA2	X	-0.04	4
69	MP BETA2	Y	-0.02	4
70	MP BETA2	X	-0.04	4
71	MP GAMMA2	Y	-0.04	4
72	MP GAMMA2	X	-0.07	4
73	MP ALPHA1	Y	-0.03	4
74	MP ALPHA1	X	-0.52	4
75	MP BETA1	Y	-0.03	4
76	MP BETA1	X	-0.52	4
77	MP GAMMA1	Y	-0.35	4
78	MP GAMMA1	X	-0.06	4
79	MP ALPHA2	Y	-0.29	4
80	MP ALPHA2	X	-0.05	4
81	MP ALPHA3	Y	-0.29	4
82	MP ALPHA3	X	-0.05	4

Member Point Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-1.109	6.083
2	MP ALPHA4	X	-1.109	1.917
3	MP BETA4	X	-2.246	6.083
4	MP BETA4	X	-2.246	1.917
5	MP GAMMA4	X	-2.246	6.083
6	MP GAMMA4	X	-2.246	1.917
7	MP ALPHA2	X	-1.114	6.083



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Member Point Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
8	MP ALPHA2	X	-.114	1.917
9	MP BETA2	X	-.197	6.083
10	MP BETA2	X	-.197	1.917
11	MP GAMMA2	X	-.197	6.083
12	MP GAMMA2	X	-.197	1.917
13	MP ALPHA3	X	-.111	6.083
14	MP ALPHA3	X	-.111	1.917
15	MP BETA3	X	-.251	6.083
16	MP BETA3	X	-.251	1.917
17	MP GAMMA3	X	-.251	6.083
18	MP GAMMA3	X	-.251	1.917
19	MP ALPHA1	X	-.038	5.25
20	MP ALPHA1	X	-.038	2.75
21	MP BETA1	X	-.072	5.25
22	MP BETA1	X	-.072	2.75
23	MP GAMMA1	X	-.072	5.25
24	MP GAMMA1	X	-.072	2.75
25	MP ALPHA4	X	-.062	4
26	MP BETA4	X	-.08	4
27	MP GAMMA4	X	-.08	4
28	MP ALPHA3	X	-.047	4
29	MP BETA3	X	-.072	4
30	MP GAMMA3	X	-.072	4
31	MP ALPHA3	X	-.059	4
32	MP BETA3	X	-.069	4
33	MP GAMMA3	X	-.069	4
34	MP ALPHA2	X	-.004	4
35	MP BETA2	X	-.007	4
36	MP GAMMA2	X	-.007	4
37	MP ALPHA1	X	-.056	4
38	MP BETA1	X	-.066	4
39	MP GAMMA1	X	-.066	4
40	MP ALPHA2	X	-.059	4
41	MP ALPHA3	X	-.059	4

Member Point Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Y	.077	6.083
2	MP ALPHA4	Y	.077	1.917
3	MP ALPHA4	X	-.134	6.083
4	MP ALPHA4	X	-.134	1.917
5	MP BETA4	Y	.146	6.083
6	MP BETA4	Y	.146	1.917
7	MP BETA4	X	-.252	6.083
8	MP BETA4	X	-.252	1.917
9	MP GAMMA4	Y	.077	6.083
10	MP GAMMA4	Y	.077	1.917
11	MP GAMMA4	X	-.134	6.083
12	MP GAMMA4	X	-.134	1.917
13	MP ALPHA2	Y	.071	6.083
14	MP ALPHA2	Y	.071	1.917
15	MP ALPHA2	X	-.122	6.083
16	MP ALPHA2	X	-.122	1.917
17	MP BETA2	Y	.113	6.083
18	MP BETA2	Y	.113	1.917
19	MP BETA2	X	-.195	6.083



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Member Point Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP BETA2	X	-.195	1.917
21	MP GAMMA2	Y	.071	6.083
22	MP GAMMA2	Y	.071	1.917
23	MP GAMMA2	X	-.122	6.083
24	MP GAMMA2	X	-.122	1.917
25	MP ALPHA3	Y	.079	6.083
26	MP ALPHA3	Y	.079	1.917
27	MP ALPHA3	X	-.137	6.083
28	MP ALPHA3	X	-.137	1.917
29	MP BETA3	Y	.149	6.083
30	MP BETA3	Y	.149	1.917
31	MP BETA3	X	-.258	6.083
32	MP BETA3	X	-.258	1.917
33	MP GAMMA3	Y	.079	6.083
34	MP GAMMA3	Y	.079	1.917
35	MP GAMMA3	X	-.137	6.083
36	MP GAMMA3	X	-.137	1.917
37	MP ALPHA1	Y	.025	5.25
38	MP ALPHA1	Y	.025	2.75
39	MP ALPHA1	X	-.043	5.25
40	MP ALPHA1	X	-.043	2.75
41	MP BETA1	Y	.042	5.25
42	MP BETA1	Y	.042	2.75
43	MP BETA1	X	-.072	5.25
44	MP BETA1	X	-.072	2.75
45	MP GAMMA1	Y	.025	5.25
46	MP GAMMA1	Y	.025	2.75
47	MP GAMMA1	X	-.043	5.25
48	MP GAMMA1	X	-.043	2.75
49	MP ALPHA4	Y	.034	4
50	MP ALPHA4	X	-.059	4
51	MP BETA4	Y	.043	4
52	MP BETA4	X	-.075	4
53	MP GAMMA4	Y	.034	4
54	MP GAMMA4	X	-.059	4
55	MP ALPHA3	Y	.028	4
56	MP ALPHA3	X	-.048	4
57	MP BETA3	Y	.04	4
58	MP BETA3	X	-.07	4
59	MP GAMMA3	Y	.028	4
60	MP GAMMA3	X	-.048	4
61	MP ALPHA3	Y	.031	4
62	MP ALPHA3	X	-.054	4
63	MP BETA3	Y	.036	4
64	MP BETA3	X	-.062	4
65	MP GAMMA3	Y	.031	4
66	MP GAMMA3	X	-.054	4
67	MP ALPHA2	Y	.002	4
68	MP ALPHA2	X	-.004	4
69	MP BETA2	Y	.004	4
70	MP BETA2	X	-.007	4
71	MP GAMMA2	Y	.002	4
72	MP GAMMA2	X	-.004	4
73	MP ALPHA1	Y	.03	4
74	MP ALPHA1	X	-.052	4
75	MP BETA1	Y	.035	4
76	MP BETA1	X	-.06	4



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Member Point Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
77	MP GAMMA1	Y	.03	4
78	MP GAMMA1	X	-.052	4
79	MP ALPHA2	Y	.029	4
80	MP ALPHA2	X	-.05	4
81	MP ALPHA3	Y	.029	4
82	MP ALPHA3	X	-.05	4

Member Point Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.213	6.083
2	MP ALPHA4	Y	.213	1.917
3	MP ALPHA4	X	-.123	6.083
4	MP ALPHA4	X	-.123	1.917
5	MP BETA4	Y	.213	6.083
6	MP BETA4	Y	.213	1.917
7	MP BETA4	X	-.123	6.083
8	MP BETA4	X	-.123	1.917
9	MP GAMMA4	Y	.095	6.083
10	MP GAMMA4	Y	.095	1.917
11	MP GAMMA4	X	-.055	6.083
12	MP GAMMA4	X	-.055	1.917
13	MP ALPHA2	Y	.171	6.083
14	MP ALPHA2	Y	.171	1.917
15	MP ALPHA2	X	-.099	6.083
16	MP ALPHA2	X	-.099	1.917
17	MP BETA2	Y	.171	6.083
18	MP BETA2	Y	.171	1.917
19	MP BETA2	X	-.099	6.083
20	MP BETA2	X	-.099	1.917
21	MP GAMMA2	Y	.098	6.083
22	MP GAMMA2	Y	.098	1.917
23	MP GAMMA2	X	-.057	6.083
24	MP GAMMA2	X	-.057	1.917
25	MP ALPHA3	Y	.218	6.083
26	MP ALPHA3	Y	.218	1.917
27	MP ALPHA3	X	-.126	6.083
28	MP ALPHA3	X	-.126	1.917
29	MP BETA3	Y	.218	6.083
30	MP BETA3	Y	.218	1.917
31	MP BETA3	X	-.126	6.083
32	MP BETA3	X	-.126	1.917
33	MP GAMMA3	Y	.096	6.083
34	MP GAMMA3	Y	.096	1.917
35	MP GAMMA3	X	-.055	6.083
36	MP GAMMA3	X	-.055	1.917
37	MP ALPHA1	Y	.063	5.25
38	MP ALPHA1	Y	.063	2.75
39	MP ALPHA1	X	-.036	5.25
40	MP ALPHA1	X	-.036	2.75
41	MP BETA1	Y	.063	5.25
42	MP BETA1	Y	.063	2.75
43	MP BETA1	X	-.036	5.25
44	MP BETA1	X	-.036	2.75
45	MP GAMMA1	Y	.033	5.25
46	MP GAMMA1	Y	.033	2.75
47	MP GAMMA1	X	-.019	5.25



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Member Point Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
48	MP GAMMA1	X	-0.19	2.75
49	MP ALPHA4	Y	.07	4
50	MP ALPHA4	X	-.04	4
51	MP BETA4	Y	.07	4
52	MP BETA4	X	-.04	4
53	MP GAMMA4	Y	.054	4
54	MP GAMMA4	X	-.031	4
55	MP ALPHA3	Y	.063	4
56	MP ALPHA3	X	-.036	4
57	MP BETA3	Y	.063	4
58	MP BETA3	X	-.036	4
59	MP GAMMA3	Y	.04	4
60	MP GAMMA3	X	-.023	4
61	MP ALPHA3	Y	.06	4
62	MP ALPHA3	X	-.034	4
63	MP BETA3	Y	.06	4
64	MP BETA3	X	-.034	4
65	MP GAMMA3	Y	.052	4
66	MP GAMMA3	X	-.03	4
67	MP ALPHA2	Y	.006	4
68	MP ALPHA2	X	-.003	4
69	MP BETA2	Y	.006	4
70	MP BETA2	X	-.003	4
71	MP GAMMA2	Y	.003	4
72	MP GAMMA2	X	-.002	4
73	MP ALPHA1	Y	.057	4
74	MP ALPHA1	X	-.033	4
75	MP BETA1	Y	.057	4
76	MP BETA1	X	-.033	4
77	MP GAMMA1	Y	.049	4
78	MP GAMMA1	X	-.028	4
79	MP ALPHA2	Y	.047	4
80	MP ALPHA2	X	-.027	4
81	MP ALPHA3	Y	.047	4
82	MP ALPHA3	X	-.027	4

Member Point Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.291	6.083
2	MP ALPHA4	Y	.291	1.917
3	MP BETA4	Y	.155	6.083
4	MP BETA4	Y	.155	1.917
5	MP GAMMA4	Y	.155	6.083
6	MP GAMMA4	Y	.155	1.917
7	MP ALPHA2	Y	.225	6.083
8	MP ALPHA2	Y	.225	1.917
9	MP BETA2	Y	.141	6.083
10	MP BETA2	Y	.141	1.917
11	MP GAMMA2	Y	.141	6.083
12	MP GAMMA2	Y	.141	1.917
13	MP ALPHA3	Y	.298	6.083
14	MP ALPHA3	Y	.298	1.917
15	MP BETA3	Y	.158	6.083
16	MP BETA3	Y	.158	1.917
17	MP GAMMA3	Y	.158	6.083
18	MP GAMMA3	Y	.158	1.917



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Member Point Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP ALPHA1	Y	.084	5.25
20	MP ALPHA1	Y	.084	2.75
21	MP BETA1	Y	.049	5.25
22	MP BETA1	Y	.049	2.75
23	MP GAMMA1	Y	.049	5.25
24	MP GAMMA1	Y	.049	2.75
25	MP ALPHA4	Y	.086	4
26	MP BETA4	Y	.068	4
27	MP GAMMA4	Y	.068	4
28	MP ALPHA3	Y	.081	4
29	MP BETA3	Y	.055	4
30	MP GAMMA3	Y	.055	4
31	MP ALPHA3	Y	.072	4
32	MP BETA3	Y	.063	4
33	MP GAMMA3	Y	.063	4
34	MP ALPHA2	Y	.008	4
35	MP BETA2	Y	.005	4
36	MP GAMMA2	Y	.005	4
37	MP ALPHA1	Y	.07	4
38	MP BETA1	Y	.06	4
39	MP GAMMA1	Y	.06	4
40	MP ALPHA2	Y	.053	4
41	MP ALPHA3	Y	.053	4

Member Point Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.213	6.083
2	MP ALPHA4	Y	.213	1.917
3	MP ALPHA4	X	.123	6.083
4	MP ALPHA4	X	.123	1.917
5	MP BETA4	Y	.095	6.083
6	MP BETA4	Y	.095	1.917
7	MP BETA4	X	.055	6.083
8	MP BETA4	X	.055	1.917
9	MP GAMMA4	Y	.213	6.083
10	MP GAMMA4	Y	.213	1.917
11	MP GAMMA4	X	.123	6.083
12	MP GAMMA4	X	.123	1.917
13	MP ALPHA2	Y	.171	6.083
14	MP ALPHA2	Y	.171	1.917
15	MP ALPHA2	X	.099	6.083
16	MP ALPHA2	X	.099	1.917
17	MP BETA2	Y	.098	6.083
18	MP BETA2	Y	.098	1.917
19	MP BETA2	X	.057	6.083
20	MP BETA2	X	.057	1.917
21	MP GAMMA2	Y	.171	6.083
22	MP GAMMA2	Y	.171	1.917
23	MP GAMMA2	X	.099	6.083
24	MP GAMMA2	X	.099	1.917
25	MP ALPHA3	Y	.218	6.083
26	MP ALPHA3	Y	.218	1.917
27	MP ALPHA3	X	.126	6.083
28	MP ALPHA3	X	.126	1.917
29	MP BETA3	Y	.096	6.083
30	MP BETA3	Y	.096	1.917



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Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
31	MP BETA3	X	.055	6.083
32	MP BETA3	X	.055	1.917
33	MP GAMMA3	Y	.218	6.083
34	MP GAMMA3	Y	.218	1.917
35	MP GAMMA3	X	.126	6.083
36	MP GAMMA3	X	.126	1.917
37	MP ALPHA1	Y	.063	5.25
38	MP ALPHA1	Y	.063	2.75
39	MP ALPHA1	X	.036	5.25
40	MP ALPHA1	X	.036	2.75
41	MP BETA1	Y	.033	5.25
42	MP BETA1	Y	.033	2.75
43	MP BETA1	X	.019	5.25
44	MP BETA1	X	.019	2.75
45	MP GAMMA1	Y	.063	5.25
46	MP GAMMA1	Y	.063	2.75
47	MP GAMMA1	X	.036	5.25
48	MP GAMMA1	X	.036	2.75
49	MP ALPHA4	Y	.07	4
50	MP ALPHA4	X	.04	4
51	MP BETA4	Y	.054	4
52	MP BETA4	X	.031	4
53	MP GAMMA4	Y	.07	4
54	MP GAMMA4	X	.04	4
55	MP ALPHA3	Y	.063	4
56	MP ALPHA3	X	.036	4
57	MP BETA3	Y	.04	4
58	MP BETA3	X	.023	4
59	MP GAMMA3	Y	.063	4
60	MP GAMMA3	X	.036	4
61	MP ALPHA3	Y	.06	4
62	MP ALPHA3	X	.034	4
63	MP BETA3	Y	.052	4
64	MP BETA3	X	.03	4
65	MP GAMMA3	Y	.06	4
66	MP GAMMA3	X	.034	4
67	MP ALPHA2	Y	.006	4
68	MP ALPHA2	X	.003	4
69	MP BETA2	Y	.003	4
70	MP BETA2	X	.002	4
71	MP GAMMA2	Y	.006	4
72	MP GAMMA2	X	.003	4
73	MP ALPHA1	Y	.057	4
74	MP ALPHA1	X	.033	4
75	MP BETA1	Y	.049	4
76	MP BETA1	X	.028	4
77	MP GAMMA1	Y	.057	4
78	MP GAMMA1	X	.033	4
79	MP ALPHA2	Y	.047	4
80	MP ALPHA2	X	.027	4
81	MP ALPHA3	Y	.047	4
82	MP ALPHA3	X	.027	4

Member Point Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.077	6.083



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Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA4	Y	.077	1.917
3	MP ALPHA4	X	.134	6.083
4	MP ALPHA4	X	.134	1.917
5	MP BETA4	Y	.077	6.083
6	MP BETA4	Y	.077	1.917
7	MP BETA4	X	.134	6.083
8	MP BETA4	X	.134	1.917
9	MP GAMMA4	Y	.146	6.083
10	MP GAMMA4	Y	.146	1.917
11	MP GAMMA4	X	.252	6.083
12	MP GAMMA4	X	.252	1.917
13	MP ALPHA2	Y	.071	6.083
14	MP ALPHA2	Y	.071	1.917
15	MP ALPHA2	X	.122	6.083
16	MP ALPHA2	X	.122	1.917
17	MP BETA2	Y	.071	6.083
18	MP BETA2	Y	.071	1.917
19	MP BETA2	X	.122	6.083
20	MP BETA2	X	.122	1.917
21	MP GAMMA2	Y	.113	6.083
22	MP GAMMA2	Y	.113	1.917
23	MP GAMMA2	X	.195	6.083
24	MP GAMMA2	X	.195	1.917
25	MP ALPHA3	Y	.079	6.083
26	MP ALPHA3	Y	.079	1.917
27	MP ALPHA3	X	.137	6.083
28	MP ALPHA3	X	.137	1.917
29	MP BETA3	Y	.079	6.083
30	MP BETA3	Y	.079	1.917
31	MP BETA3	X	.137	6.083
32	MP BETA3	X	.137	1.917
33	MP GAMMA3	Y	.149	6.083
34	MP GAMMA3	Y	.149	1.917
35	MP GAMMA3	X	.258	6.083
36	MP GAMMA3	X	.258	1.917
37	MP ALPHA1	Y	.025	5.25
38	MP ALPHA1	Y	.025	2.75
39	MP ALPHA1	X	.043	5.25
40	MP ALPHA1	X	.043	2.75
41	MP BETA1	Y	.025	5.25
42	MP BETA1	Y	.025	2.75
43	MP BETA1	X	.043	5.25
44	MP BETA1	X	.043	2.75
45	MP GAMMA1	Y	.042	5.25
46	MP GAMMA1	Y	.042	2.75
47	MP GAMMA1	X	.072	5.25
48	MP GAMMA1	X	.072	2.75
49	MP ALPHA4	Y	.034	4
50	MP ALPHA4	X	.059	4
51	MP BETA4	Y	.034	4
52	MP BETA4	X	.059	4
53	MP GAMMA4	Y	.043	4
54	MP GAMMA4	X	.075	4
55	MP ALPHA3	Y	.028	4
56	MP ALPHA3	X	.048	4
57	MP BETA3	Y	.028	4
58	MP BETA3	X	.048	4



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Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP GAMMA3	Y	.04	4
60	MP GAMMA3	X	.07	4
61	MP ALPHA3	Y	.031	4
62	MP ALPHA3	X	.054	4
63	MP BETA3	Y	.031	4
64	MP BETA3	X	.054	4
65	MP GAMMA3	Y	.036	4
66	MP GAMMA3	X	.062	4
67	MP ALPHA2	Y	.002	4
68	MP ALPHA2	X	.004	4
69	MP BETA2	Y	.002	4
70	MP BETA2	X	.004	4
71	MP GAMMA2	Y	.004	4
72	MP GAMMA2	X	.007	4
73	MP ALPHA1	Y	.03	4
74	MP ALPHA1	X	.052	4
75	MP BETA1	Y	.03	4
76	MP BETA1	X	.052	4
77	MP GAMMA1	Y	.035	4
78	MP GAMMA1	X	.06	4
79	MP ALPHA2	Y	.029	4
80	MP ALPHA2	X	.05	4
81	MP ALPHA3	Y	.029	4
82	MP ALPHA3	X	.05	4

Member Point Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	.109	6.083
2	MP ALPHA4	X	.109	1.917
3	MP BETA4	X	.246	6.083
4	MP BETA4	X	.246	1.917
5	MP GAMMA4	X	.246	6.083
6	MP GAMMA4	X	.246	1.917
7	MP ALPHA2	X	.114	6.083
8	MP ALPHA2	X	.114	1.917
9	MP BETA2	X	.197	6.083
10	MP BETA2	X	.197	1.917
11	MP GAMMA2	X	.197	6.083
12	MP GAMMA2	X	.197	1.917
13	MP ALPHA3	X	.111	6.083
14	MP ALPHA3	X	.111	1.917
15	MP BETA3	X	.251	6.083
16	MP BETA3	X	.251	1.917
17	MP GAMMA3	X	.251	6.083
18	MP GAMMA3	X	.251	1.917
19	MP ALPHA1	X	.038	5.25
20	MP ALPHA1	X	.038	2.75
21	MP BETA1	X	.072	5.25
22	MP BETA1	X	.072	2.75
23	MP GAMMA1	X	.072	5.25
24	MP GAMMA1	X	.072	2.75
25	MP ALPHA4	X	.062	4
26	MP BETA4	X	.08	4
27	MP GAMMA4	X	.08	4
28	MP ALPHA3	X	.047	4
29	MP BETA3	X	.072	4



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Member Point Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP GAMMA3	X	.072	4
31	MP ALPHA3	X	.059	4
32	MP BETA3	X	.069	4
33	MP GAMMA3	X	.069	4
34	MP ALPHA2	X	.004	4
35	MP BETA2	X	.007	4
36	MP GAMMA2	X	.007	4
37	MP ALPHA1	X	.056	4
38	MP BETA1	X	.066	4
39	MP GAMMA1	X	.066	4
40	MP ALPHA2	X	.059	4
41	MP ALPHA3	X	.059	4

Member Point Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.077	6.083
2	MP ALPHA4	Y	-.077	1.917
3	MP ALPHA4	X	.134	6.083
4	MP ALPHA4	X	.134	1.917
5	MP BETA4	Y	-.146	6.083
6	MP BETA4	Y	-.146	1.917
7	MP BETA4	X	.252	6.083
8	MP BETA4	X	.252	1.917
9	MP GAMMA4	Y	-.077	6.083
10	MP GAMMA4	Y	-.077	1.917
11	MP GAMMA4	X	.134	6.083
12	MP GAMMA4	X	.134	1.917
13	MP ALPHA2	Y	-.071	6.083
14	MP ALPHA2	Y	-.071	1.917
15	MP ALPHA2	X	.122	6.083
16	MP ALPHA2	X	.122	1.917
17	MP BETA2	Y	-.113	6.083
18	MP BETA2	Y	-.113	1.917
19	MP BETA2	X	.195	6.083
20	MP BETA2	X	.195	1.917
21	MP GAMMA2	Y	-.071	6.083
22	MP GAMMA2	Y	-.071	1.917
23	MP GAMMA2	X	.122	6.083
24	MP GAMMA2	X	.122	1.917
25	MP ALPHA3	Y	-.079	6.083
26	MP ALPHA3	Y	-.079	1.917
27	MP ALPHA3	X	.137	6.083
28	MP ALPHA3	X	.137	1.917
29	MP BETA3	Y	-.149	6.083
30	MP BETA3	Y	-.149	1.917
31	MP BETA3	X	.258	6.083
32	MP BETA3	X	.258	1.917
33	MP GAMMA3	Y	-.079	6.083
34	MP GAMMA3	Y	-.079	1.917
35	MP GAMMA3	X	.137	6.083
36	MP GAMMA3	X	.137	1.917
37	MP ALPHA1	Y	-.025	5.25
38	MP ALPHA1	Y	-.025	2.75
39	MP ALPHA1	X	.043	5.25
40	MP ALPHA1	X	.043	2.75
41	MP BETA1	Y	-.042	5.25



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Member Point Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
42	MP BETA1	Y	-.042	2.75
43	MP BETA1	X	.072	5.25
44	MP BETA1	X	.072	2.75
45	MP GAMMA1	Y	-.025	5.25
46	MP GAMMA1	Y	-.025	2.75
47	MP GAMMA1	X	.043	5.25
48	MP GAMMA1	X	.043	2.75
49	MP ALPHA4	Y	-.034	4
50	MP ALPHA4	X	.059	4
51	MP BETA4	Y	-.043	4
52	MP BETA4	X	.075	4
53	MP GAMMA4	Y	-.034	4
54	MP GAMMA4	X	.059	4
55	MP ALPHA3	Y	-.028	4
56	MP ALPHA3	X	.048	4
57	MP BETA3	Y	-.04	4
58	MP BETA3	X	.07	4
59	MP GAMMA3	Y	-.028	4
60	MP GAMMA3	X	.048	4
61	MP ALPHA3	Y	-.031	4
62	MP ALPHA3	X	.054	4
63	MP BETA3	Y	-.036	4
64	MP BETA3	X	.062	4
65	MP GAMMA3	Y	-.031	4
66	MP GAMMA3	X	.054	4
67	MP ALPHA2	Y	-.002	4
68	MP ALPHA2	X	.004	4
69	MP BETA2	Y	-.004	4
70	MP BETA2	X	.007	4
71	MP GAMMA2	Y	-.002	4
72	MP GAMMA2	X	.004	4
73	MP ALPHA1	Y	-.03	4
74	MP ALPHA1	X	.052	4
75	MP BETA1	Y	-.035	4
76	MP BETA1	X	.06	4
77	MP GAMMA1	Y	-.03	4
78	MP GAMMA1	X	.052	4
79	MP ALPHA2	Y	-.029	4
80	MP ALPHA2	X	.05	4
81	MP ALPHA3	Y	-.029	4
82	MP ALPHA3	X	.05	4

Member Point Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.213	6.083
2	MP ALPHA4	Y	-.213	1.917
3	MP ALPHA4	X	.123	6.083
4	MP ALPHA4	X	.123	1.917
5	MP BETA4	Y	-.213	6.083
6	MP BETA4	Y	-.213	1.917
7	MP BETA4	X	.123	6.083
8	MP BETA4	X	.123	1.917
9	MP GAMMA4	Y	-.095	6.083
10	MP GAMMA4	Y	-.095	1.917
11	MP GAMMA4	X	.055	6.083
12	MP GAMMA4	X	.055	1.917



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Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP ALPHA2	Y	-.171	6.083
14	MP ALPHA2	Y	-.171	1.917
15	MP ALPHA2	X	.099	6.083
16	MP ALPHA2	X	.099	1.917
17	MP BETA2	Y	-.171	6.083
18	MP BETA2	Y	-.171	1.917
19	MP BETA2	X	.099	6.083
20	MP BETA2	X	.099	1.917
21	MP GAMMA2	Y	-.098	6.083
22	MP GAMMA2	Y	-.098	1.917
23	MP GAMMA2	X	.057	6.083
24	MP GAMMA2	X	.057	1.917
25	MP ALPHA3	Y	-.218	6.083
26	MP ALPHA3	Y	-.218	1.917
27	MP ALPHA3	X	.126	6.083
28	MP ALPHA3	X	.126	1.917
29	MP BETA3	Y	-.218	6.083
30	MP BETA3	Y	-.218	1.917
31	MP BETA3	X	.126	6.083
32	MP BETA3	X	.126	1.917
33	MP GAMMA3	Y	-.096	6.083
34	MP GAMMA3	Y	-.096	1.917
35	MP GAMMA3	X	.055	6.083
36	MP GAMMA3	X	.055	1.917
37	MP ALPHA1	Y	-.063	5.25
38	MP ALPHA1	Y	-.063	2.75
39	MP ALPHA1	X	.036	5.25
40	MP ALPHA1	X	.036	2.75
41	MP BETA1	Y	-.063	5.25
42	MP BETA1	Y	-.063	2.75
43	MP BETA1	X	.036	5.25
44	MP BETA1	X	.036	2.75
45	MP GAMMA1	Y	-.033	5.25
46	MP GAMMA1	Y	-.033	2.75
47	MP GAMMA1	X	.019	5.25
48	MP GAMMA1	X	.019	2.75
49	MP ALPHA4	Y	-.07	4
50	MP ALPHA4	X	.04	4
51	MP BETA4	Y	-.07	4
52	MP BETA4	X	.04	4
53	MP GAMMA4	Y	-.054	4
54	MP GAMMA4	X	.031	4
55	MP ALPHA3	Y	-.063	4
56	MP ALPHA3	X	.036	4
57	MP BETA3	Y	-.063	4
58	MP BETA3	X	.036	4
59	MP GAMMA3	Y	-.04	4
60	MP GAMMA3	X	.023	4
61	MP ALPHA3	Y	-.06	4
62	MP ALPHA3	X	.034	4
63	MP BETA3	Y	-.06	4
64	MP BETA3	X	.034	4
65	MP GAMMA3	Y	-.052	4
66	MP GAMMA3	X	.03	4
67	MP ALPHA2	Y	-.006	4
68	MP ALPHA2	X	.003	4
69	MP BETA2	Y	-.006	4



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Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
70	MP BETA2	X	.003	4
71	MP GAMMA2	Y	-.003	4
72	MP GAMMA2	X	.002	4
73	MP ALPHA1	Y	-.057	4
74	MP ALPHA1	X	.033	4
75	MP BETA1	Y	-.057	4
76	MP BETA1	X	.033	4
77	MP GAMMA1	Y	-.049	4
78	MP GAMMA1	X	.028	4
79	MP ALPHA2	Y	-.047	4
80	MP ALPHA2	X	.027	4
81	MP ALPHA3	Y	-.047	4
82	MP ALPHA3	X	.027	4

Member Point Loads (BLC 15 : Maintenance (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.018	6.083
2	MP ALPHA4	Y	-.018	1.917
3	MP BETA4	Y	-.009	6.083
4	MP BETA4	Y	-.009	1.917
5	MP GAMMA4	Y	-.009	6.083
6	MP GAMMA4	Y	-.009	1.917
7	MP ALPHA2	Y	-.014	6.083
8	MP ALPHA2	Y	-.014	1.917
9	MP BETA2	Y	-.009	6.083
10	MP BETA2	Y	-.009	1.917
11	MP GAMMA2	Y	-.009	6.083
12	MP GAMMA2	Y	-.009	1.917
13	MP ALPHA3	Y	-.018	6.083
14	MP ALPHA3	Y	-.018	1.917
15	MP BETA3	Y	-.01	6.083
16	MP BETA3	Y	-.01	1.917
17	MP GAMMA3	Y	-.01	6.083
18	MP GAMMA3	Y	-.01	1.917
19	MP ALPHA1	Y	-.005	5.25
20	MP ALPHA1	Y	-.005	2.75
21	MP BETA1	Y	-.003	5.25
22	MP BETA1	Y	-.003	2.75
23	MP GAMMA1	Y	-.003	5.25
24	MP GAMMA1	Y	-.003	2.75
25	MP ALPHA4	Y	-.005	4
26	MP BETA4	Y	-.004	4
27	MP GAMMA4	Y	-.004	4
28	MP ALPHA3	Y	-.005	4
29	MP BETA3	Y	-.003	4
30	MP GAMMA3	Y	-.003	4
31	MP ALPHA3	Y	-.004	4
32	MP BETA3	Y	-.004	4
33	MP GAMMA3	Y	-.004	4
34	MP ALPHA2	Y	-.000467	4
35	MP BETA2	Y	-.000283	4
36	MP GAMMA2	Y	-.000283	4
37	MP ALPHA1	Y	-.004	4
38	MP BETA1	Y	-.004	4
39	MP GAMMA1	Y	-.004	4
40	MP ALPHA2	Y	-.003	4



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Member Point Loads (BLC 15 : Maintenance (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP ALPHA3	Y	-0.03	4

Member Point Loads (BLC 16 : Maintenance (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.13	6.083
2	MP ALPHA4	Y	-0.13	1.917
3	MP ALPHA4	X	-0.07	6.083
4	MP ALPHA4	X	-0.07	1.917
5	MP BETA4	Y	-0.06	6.083
6	MP BETA4	Y	-0.06	1.917
7	MP BETA4	X	-0.03	6.083
8	MP BETA4	X	-0.03	1.917
9	MP GAMMA4	Y	-0.13	6.083
10	MP GAMMA4	Y	-0.13	1.917
11	MP GAMMA4	X	-0.07	6.083
12	MP GAMMA4	X	-0.07	1.917
13	MP ALPHA2	Y	-0.1	6.083
14	MP ALPHA2	Y	-0.1	1.917
15	MP ALPHA2	X	-0.06	6.083
16	MP ALPHA2	X	-0.06	1.917
17	MP BETA2	Y	-0.06	6.083
18	MP BETA2	Y	-0.06	1.917
19	MP BETA2	X	-0.03	6.083
20	MP BETA2	X	-0.03	1.917
21	MP GAMMA2	Y	-0.1	6.083
22	MP GAMMA2	Y	-0.1	1.917
23	MP GAMMA2	X	-0.06	6.083
24	MP GAMMA2	X	-0.06	1.917
25	MP ALPHA3	Y	-0.13	6.083
26	MP ALPHA3	Y	-0.13	1.917
27	MP ALPHA3	X	-0.08	6.083
28	MP ALPHA3	X	-0.08	1.917
29	MP BETA3	Y	-0.06	6.083
30	MP BETA3	Y	-0.06	1.917
31	MP BETA3	X	-0.03	6.083
32	MP BETA3	X	-0.03	1.917
33	MP GAMMA3	Y	-0.13	6.083
34	MP GAMMA3	Y	-0.13	1.917
35	MP GAMMA3	X	-0.08	6.083
36	MP GAMMA3	X	-0.08	1.917
37	MP ALPHA1	Y	-0.04	5.25
38	MP ALPHA1	Y	-0.04	2.75
39	MP ALPHA1	X	-0.02	5.25
40	MP ALPHA1	X	-0.02	2.75
41	MP BETA1	Y	-0.02	5.25
42	MP BETA1	Y	-0.02	2.75
43	MP BETA1	X	-0.01	5.25
44	MP BETA1	X	-0.01	2.75
45	MP GAMMA1	Y	-0.04	5.25
46	MP GAMMA1	Y	-0.04	2.75
47	MP GAMMA1	X	-0.02	5.25
48	MP GAMMA1	X	-0.02	2.75
49	MP ALPHA4	Y	-0.04	4
50	MP ALPHA4	X	-0.02	4
51	MP BETA4	Y	-0.03	4
52	MP BETA4	X	-0.02	4



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Member Point Loads (BLC 16 : Maintenance (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA4	Y	-0.004	4
54	MP GAMMA4	X	-0.002	4
55	MP ALPHA3	Y	-0.004	4
56	MP ALPHA3	X	-0.002	4
57	MP BETA3	Y	-0.002	4
58	MP BETA3	X	-0.001	4
59	MP GAMMA3	Y	-0.004	4
60	MP GAMMA3	X	-0.002	4
61	MP ALPHA3	Y	-0.004	4
62	MP ALPHA3	X	-0.002	4
63	MP BETA3	Y	-0.003	4
64	MP BETA3	X	-0.002	4
65	MP GAMMA3	Y	-0.004	4
66	MP GAMMA3	X	-0.002	4
67	MP ALPHA2	Y	-0.000351	4
68	MP ALPHA2	X	-0.000203	4
69	MP BETA2	Y	-0.000192	4
70	MP BETA2	X	-0.000111	4
71	MP GAMMA2	Y	-0.000351	4
72	MP GAMMA2	X	-0.000203	4
73	MP ALPHA1	Y	-0.003	4
74	MP ALPHA1	X	-0.002	4
75	MP BETA1	Y	-0.003	4
76	MP BETA1	X	-0.002	4
77	MP GAMMA1	Y	-0.003	4
78	MP GAMMA1	X	-0.002	4
79	MP ALPHA2	Y	-0.003	4
80	MP ALPHA2	X	-0.002	4
81	MP ALPHA3	Y	-0.003	4
82	MP ALPHA3	X	-0.002	4

Member Point Loads (BLC 17 : Maintenance (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.005	6.083
2	MP ALPHA4	Y	-0.005	1.917
3	MP ALPHA4	X	-0.008	6.083
4	MP ALPHA4	X	-0.008	1.917
5	MP BETA4	Y	-0.005	6.083
6	MP BETA4	Y	-0.005	1.917
7	MP BETA4	X	-0.008	6.083
8	MP BETA4	X	-0.008	1.917
9	MP GAMMA4	Y	-0.009	6.083
10	MP GAMMA4	Y	-0.009	1.917
11	MP GAMMA4	X	-0.015	6.083
12	MP GAMMA4	X	-0.015	1.917
13	MP ALPHA2	Y	-0.004	6.083
14	MP ALPHA2	Y	-0.004	1.917
15	MP ALPHA2	X	-0.007	6.083
16	MP ALPHA2	X	-0.007	1.917
17	MP BETA2	Y	-0.004	6.083
18	MP BETA2	Y	-0.004	1.917
19	MP BETA2	X	-0.007	6.083
20	MP BETA2	X	-0.007	1.917
21	MP GAMMA2	Y	-0.007	6.083
22	MP GAMMA2	Y	-0.007	1.917
23	MP GAMMA2	X	-0.012	6.083



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Member Point Loads (BLC 17 : Maintenance (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP GAMMA2	X	-0.012	1.917
25	MP ALPHA3	Y	-0.005	6.083
26	MP ALPHA3	Y	-0.005	1.917
27	MP ALPHA3	X	-0.008	6.083
28	MP ALPHA3	X	-0.008	1.917
29	MP BETA3	Y	-0.005	6.083
30	MP BETA3	Y	-0.005	1.917
31	MP BETA3	X	-0.008	6.083
32	MP BETA3	X	-0.008	1.917
33	MP GAMMA3	Y	-0.009	6.083
34	MP GAMMA3	Y	-0.009	1.917
35	MP GAMMA3	X	-0.016	6.083
36	MP GAMMA3	X	-0.016	1.917
37	MP ALPHA1	Y	-0.001	5.25
38	MP ALPHA1	Y	-0.001	2.75
39	MP ALPHA1	X	-0.003	5.25
40	MP ALPHA1	X	-0.003	2.75
41	MP BETA1	Y	-0.001	5.25
42	MP BETA1	Y	-0.001	2.75
43	MP BETA1	X	-0.003	5.25
44	MP BETA1	X	-0.003	2.75
45	MP GAMMA1	Y	-0.003	5.25
46	MP GAMMA1	Y	-0.003	2.75
47	MP GAMMA1	X	-0.004	5.25
48	MP GAMMA1	X	-0.004	2.75
49	MP ALPHA4	Y	-0.002	4
50	MP ALPHA4	X	-0.004	4
51	MP BETA4	Y	-0.002	4
52	MP BETA4	X	-0.004	4
53	MP GAMMA4	Y	-0.003	4
54	MP GAMMA4	X	-0.005	4
55	MP ALPHA3	Y	-0.002	4
56	MP ALPHA3	X	-0.003	4
57	MP BETA3	Y	-0.002	4
58	MP BETA3	X	-0.003	4
59	MP GAMMA3	Y	-0.002	4
60	MP GAMMA3	X	-0.004	4
61	MP ALPHA3	Y	-0.002	4
62	MP ALPHA3	X	-0.003	4
63	MP BETA3	Y	-0.002	4
64	MP BETA3	X	-0.003	4
65	MP GAMMA3	Y	-0.002	4
66	MP GAMMA3	X	-0.004	4
67	MP ALPHA2	Y	-0.000141	4
68	MP ALPHA2	X	-0.000245	4
69	MP BETA2	Y	-0.000141	4
70	MP BETA2	X	-0.000245	4
71	MP GAMMA2	Y	-0.000233	4
72	MP GAMMA2	X	-0.000404	4
73	MP ALPHA1	Y	-0.002	4
74	MP ALPHA1	X	-0.003	4
75	MP BETA1	Y	-0.002	4
76	MP BETA1	X	-0.003	4
77	MP GAMMA1	Y	-0.002	4
78	MP GAMMA1	X	-0.004	4
79	MP ALPHA2	Y	-0.002	4
80	MP ALPHA2	X	-0.003	4



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Member Point Loads (BLC 17 : Maintenance (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
81	MP ALPHA3	Y	-0.02	4
82	MP ALPHA3	X	-0.03	4

Member Point Loads (BLC 18 : Maintenance (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-0.07	6.083
2	MP ALPHA4	X	-0.07	1.917
3	MP BETA4	X	-0.15	6.083
4	MP BETA4	X	-0.15	1.917
5	MP GAMMA4	X	-0.15	6.083
6	MP GAMMA4	X	-0.15	1.917
7	MP ALPHA2	X	-0.07	6.083
8	MP ALPHA2	X	-0.07	1.917
9	MP BETA2	X	-0.12	6.083
10	MP BETA2	X	-0.12	1.917
11	MP GAMMA2	X	-0.12	6.083
12	MP GAMMA2	X	-0.12	1.917
13	MP ALPHA3	X	-0.07	6.083
14	MP ALPHA3	X	-0.07	1.917
15	MP BETA3	X	-0.15	6.083
16	MP BETA3	X	-0.15	1.917
17	MP GAMMA3	X	-0.15	6.083
18	MP GAMMA3	X	-0.15	1.917
19	MP ALPHA1	X	-0.02	5.25
20	MP ALPHA1	X	-0.02	2.75
21	MP BETA1	X	-0.04	5.25
22	MP BETA1	X	-0.04	2.75
23	MP GAMMA1	X	-0.04	5.25
24	MP GAMMA1	X	-0.04	2.75
25	MP ALPHA4	X	-0.04	4
26	MP BETA4	X	-0.05	4
27	MP GAMMA4	X	-0.05	4
28	MP ALPHA3	X	-0.03	4
29	MP BETA3	X	-0.04	4
30	MP GAMMA3	X	-0.04	4
31	MP ALPHA3	X	-0.04	4
32	MP BETA3	X	-0.04	4
33	MP GAMMA3	X	-0.04	4
34	MP ALPHA2	X	-0.00221	4
35	MP BETA2	X	-0.00406	4
36	MP GAMMA2	X	-0.00406	4
37	MP ALPHA1	X	-0.03	4
38	MP BETA1	X	-0.04	4
39	MP GAMMA1	X	-0.04	4
40	MP ALPHA2	X	-0.04	4
41	MP ALPHA3	X	-0.04	4

Member Point Loads (BLC 19 : Maintenance (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.005	6.083
2	MP ALPHA4	Y	.005	1.917
3	MP ALPHA4	X	-0.008	6.083
4	MP ALPHA4	X	-0.008	1.917
5	MP BETA4	Y	.009	6.083
6	MP BETA4	Y	.009	1.917
7	MP BETA4	X	-0.015	6.083



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Member Point Loads (BLC 19 : Maintenance (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP BETA4	X	-.015	1.917
9	MP GAMMA4	Y	.005	6.083
10	MP GAMMA4	Y	.005	1.917
11	MP GAMMA4	X	-.008	6.083
12	MP GAMMA4	X	-.008	1.917
13	MP ALPHA2	Y	.004	6.083
14	MP ALPHA2	Y	.004	1.917
15	MP ALPHA2	X	-.007	6.083
16	MP ALPHA2	X	-.007	1.917
17	MP BETA2	Y	.007	6.083
18	MP BETA2	Y	.007	1.917
19	MP BETA2	X	-.012	6.083
20	MP BETA2	X	-.012	1.917
21	MP GAMMA2	Y	.004	6.083
22	MP GAMMA2	Y	.004	1.917
23	MP GAMMA2	X	-.007	6.083
24	MP GAMMA2	X	-.007	1.917
25	MP ALPHA3	Y	.005	6.083
26	MP ALPHA3	Y	.005	1.917
27	MP ALPHA3	X	-.008	6.083
28	MP ALPHA3	X	-.008	1.917
29	MP BETA3	Y	.009	6.083
30	MP BETA3	Y	.009	1.917
31	MP BETA3	X	-.016	6.083
32	MP BETA3	X	-.016	1.917
33	MP GAMMA3	Y	.005	6.083
34	MP GAMMA3	Y	.005	1.917
35	MP GAMMA3	X	-.008	6.083
36	MP GAMMA3	X	-.008	1.917
37	MP ALPHA1	Y	.001	5.25
38	MP ALPHA1	Y	.001	2.75
39	MP ALPHA1	X	-.003	5.25
40	MP ALPHA1	X	-.003	2.75
41	MP BETA1	Y	.003	5.25
42	MP BETA1	Y	.003	2.75
43	MP BETA1	X	-.004	5.25
44	MP BETA1	X	-.004	2.75
45	MP GAMMA1	Y	.001	5.25
46	MP GAMMA1	Y	.001	2.75
47	MP GAMMA1	X	-.003	5.25
48	MP GAMMA1	X	-.003	2.75
49	MP ALPHA4	Y	.002	4
50	MP ALPHA4	X	-.004	4
51	MP BETA4	Y	.003	4
52	MP BETA4	X	-.005	4
53	MP GAMMA4	Y	.002	4
54	MP GAMMA4	X	-.004	4
55	MP ALPHA3	Y	.002	4
56	MP ALPHA3	X	-.003	4
57	MP BETA3	Y	.002	4
58	MP BETA3	X	-.004	4
59	MP GAMMA3	Y	.002	4
60	MP GAMMA3	X	-.003	4
61	MP ALPHA3	Y	.002	4
62	MP ALPHA3	X	-.003	4
63	MP BETA3	Y	.002	4
64	MP BETA3	X	-.004	4



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Member Point Loads (BLC 19 : Maintenance (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
65	MP GAMMA3	Y	.002	4
66	MP GAMMA3	X	-.003	4
67	MP ALPHA2	Y	.000141	4
68	MP ALPHA2	X	-.000245	4
69	MP BETA2	Y	.000233	4
70	MP BETA2	X	-.000404	4
71	MP GAMMA2	Y	.000141	4
72	MP GAMMA2	X	-.000245	4
73	MP ALPHA1	Y	.002	4
74	MP ALPHA1	X	-.003	4
75	MP BETA1	Y	.002	4
76	MP BETA1	X	-.004	4
77	MP GAMMA1	Y	.002	4
78	MP GAMMA1	X	-.003	4
79	MP ALPHA2	Y	.002	4
80	MP ALPHA2	X	-.003	4
81	MP ALPHA3	Y	.002	4
82	MP ALPHA3	X	-.003	4

Member Point Loads (BLC 20 : Maintenance (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.013	6.083
2	MP ALPHA4	Y	.013	1.917
3	MP ALPHA4	X	-.007	6.083
4	MP ALPHA4	X	-.007	1.917
5	MP BETA4	Y	.013	6.083
6	MP BETA4	Y	.013	1.917
7	MP BETA4	X	-.007	6.083
8	MP BETA4	X	-.007	1.917
9	MP GAMMA4	Y	.006	6.083
10	MP GAMMA4	Y	.006	1.917
11	MP GAMMA4	X	-.003	6.083
12	MP GAMMA4	X	-.003	1.917
13	MP ALPHA2	Y	.01	6.083
14	MP ALPHA2	Y	.01	1.917
15	MP ALPHA2	X	-.006	6.083
16	MP ALPHA2	X	-.006	1.917
17	MP BETA2	Y	.01	6.083
18	MP BETA2	Y	.01	1.917
19	MP BETA2	X	-.006	6.083
20	MP BETA2	X	-.006	1.917
21	MP GAMMA2	Y	.006	6.083
22	MP GAMMA2	Y	.006	1.917
23	MP GAMMA2	X	-.003	6.083
24	MP GAMMA2	X	-.003	1.917
25	MP ALPHA3	Y	.013	6.083
26	MP ALPHA3	Y	.013	1.917
27	MP ALPHA3	X	-.008	6.083
28	MP ALPHA3	X	-.008	1.917
29	MP BETA3	Y	.013	6.083
30	MP BETA3	Y	.013	1.917
31	MP BETA3	X	-.008	6.083
32	MP BETA3	X	-.008	1.917
33	MP GAMMA3	Y	.006	6.083
34	MP GAMMA3	Y	.006	1.917
35	MP GAMMA3	X	-.003	6.083



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Member Point Loads (BLC 20 : Maintenance (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP GAMMA3	X	-0.03	1.917
37	MP ALPHA1	Y	.004	5.25
38	MP ALPHA1	Y	.004	2.75
39	MP ALPHA1	X	-.002	5.25
40	MP ALPHA1	X	-.002	2.75
41	MP BETA1	Y	.004	5.25
42	MP BETA1	Y	.004	2.75
43	MP BETA1	X	-.002	5.25
44	MP BETA1	X	-.002	2.75
45	MP GAMMA1	Y	.002	5.25
46	MP GAMMA1	Y	.002	2.75
47	MP GAMMA1	X	-.001	5.25
48	MP GAMMA1	X	-.001	2.75
49	MP ALPHA4	Y	.004	4
50	MP ALPHA4	X	-.002	4
51	MP BETA4	Y	.004	4
52	MP BETA4	X	-.002	4
53	MP GAMMA4	Y	.003	4
54	MP GAMMA4	X	-.002	4
55	MP ALPHA3	Y	.004	4
56	MP ALPHA3	X	-.002	4
57	MP BETA3	Y	.004	4
58	MP BETA3	X	-.002	4
59	MP GAMMA3	Y	.002	4
60	MP GAMMA3	X	-.001	4
61	MP ALPHA3	Y	.004	4
62	MP ALPHA3	X	-.002	4
63	MP BETA3	Y	.004	4
64	MP BETA3	X	-.002	4
65	MP GAMMA3	Y	.003	4
66	MP GAMMA3	X	-.002	4
67	MP ALPHA2	Y	.000351	4
68	MP ALPHA2	X	-.000203	4
69	MP BETA2	Y	.000351	4
70	MP BETA2	X	-.000203	4
71	MP GAMMA2	Y	.000192	4
72	MP GAMMA2	X	-.000111	4
73	MP ALPHA1	Y	.003	4
74	MP ALPHA1	X	-.002	4
75	MP BETA1	Y	.003	4
76	MP BETA1	X	-.002	4
77	MP GAMMA1	Y	.003	4
78	MP GAMMA1	X	-.002	4
79	MP ALPHA2	Y	.003	4
80	MP ALPHA2	X	-.002	4
81	MP ALPHA3	Y	.003	4
82	MP ALPHA3	X	-.002	4

Member Point Loads (BLC 21 : Maintenance (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.018	6.083
2	MP ALPHA4	Y	.018	1.917
3	MP BETA4	Y	.009	6.083
4	MP BETA4	Y	.009	1.917
5	MP GAMMA4	Y	.009	6.083
6	MP GAMMA4	Y	.009	1.917



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Member Point Loads (BLC 21 : Maintenance (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
7	MP ALPHA2	Y	.014	6.083
8	MP ALPHA2	Y	.014	1.917
9	MP BETA2	Y	.009	6.083
10	MP BETA2	Y	.009	1.917
11	MP GAMMA2	Y	.009	6.083
12	MP GAMMA2	Y	.009	1.917
13	MP ALPHA3	Y	.018	6.083
14	MP ALPHA3	Y	.018	1.917
15	MP BETA3	Y	.01	6.083
16	MP BETA3	Y	.01	1.917
17	MP GAMMA3	Y	.01	6.083
18	MP GAMMA3	Y	.01	1.917
19	MP ALPHA1	Y	.005	5.25
20	MP ALPHA1	Y	.005	2.75
21	MP BETA1	Y	.003	5.25
22	MP BETA1	Y	.003	2.75
23	MP GAMMA1	Y	.003	5.25
24	MP GAMMA1	Y	.003	2.75
25	MP ALPHA4	Y	.005	4
26	MP BETA4	Y	.004	4
27	MP GAMMA4	Y	.004	4
28	MP ALPHA3	Y	.005	4
29	MP BETA3	Y	.003	4
30	MP GAMMA3	Y	.003	4
31	MP ALPHA3	Y	.004	4
32	MP BETA3	Y	.004	4
33	MP GAMMA3	Y	.004	4
34	MP ALPHA2	Y	.000467	4
35	MP BETA2	Y	.000283	4
36	MP GAMMA2	Y	.000283	4
37	MP ALPHA1	Y	.004	4
38	MP BETA1	Y	.004	4
39	MP GAMMA1	Y	.004	4
40	MP ALPHA2	Y	.003	4
41	MP ALPHA3	Y	.003	4

Member Point Loads (BLC 22 : Maintenance (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Y	.013	6.083
2	MP ALPHA4	Y	.013	1.917
3	MP ALPHA4	X	.007	6.083
4	MP ALPHA4	X	.007	1.917
5	MP BETA4	Y	.006	6.083
6	MP BETA4	Y	.006	1.917
7	MP BETA4	X	.003	6.083
8	MP BETA4	X	.003	1.917
9	MP GAMMA4	Y	.013	6.083
10	MP GAMMA4	Y	.013	1.917
11	MP GAMMA4	X	.007	6.083
12	MP GAMMA4	X	.007	1.917
13	MP ALPHA2	Y	.01	6.083
14	MP ALPHA2	Y	.01	1.917
15	MP ALPHA2	X	.006	6.083
16	MP ALPHA2	X	.006	1.917
17	MP BETA2	Y	.006	6.083
18	MP BETA2	Y	.006	1.917



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Member Point Loads (BLC 22 : Maintenance (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP BETA2	X	.003	6.083
20	MP BETA2	X	.003	1.917
21	MP GAMMA2	Y	.01	6.083
22	MP GAMMA2	Y	.01	1.917
23	MP GAMMA2	X	.006	6.083
24	MP GAMMA2	X	.006	1.917
25	MP ALPHA3	Y	.013	6.083
26	MP ALPHA3	Y	.013	1.917
27	MP ALPHA3	X	.008	6.083
28	MP ALPHA3	X	.008	1.917
29	MP BETA3	Y	.006	6.083
30	MP BETA3	Y	.006	1.917
31	MP BETA3	X	.003	6.083
32	MP BETA3	X	.003	1.917
33	MP GAMMA3	Y	.013	6.083
34	MP GAMMA3	Y	.013	1.917
35	MP GAMMA3	X	.008	6.083
36	MP GAMMA3	X	.008	1.917
37	MP ALPHA1	Y	.004	5.25
38	MP ALPHA1	Y	.004	2.75
39	MP ALPHA1	X	.002	5.25
40	MP ALPHA1	X	.002	2.75
41	MP BETA1	Y	.002	5.25
42	MP BETA1	Y	.002	2.75
43	MP BETA1	X	.001	5.25
44	MP BETA1	X	.001	2.75
45	MP GAMMA1	Y	.004	5.25
46	MP GAMMA1	Y	.004	2.75
47	MP GAMMA1	X	.002	5.25
48	MP GAMMA1	X	.002	2.75
49	MP ALPHA4	Y	.004	4
50	MP ALPHA4	X	.002	4
51	MP BETA4	Y	.003	4
52	MP BETA4	X	.002	4
53	MP GAMMA4	Y	.004	4
54	MP GAMMA4	X	.002	4
55	MP ALPHA3	Y	.004	4
56	MP ALPHA3	X	.002	4
57	MP BETA3	Y	.002	4
58	MP BETA3	X	.001	4
59	MP GAMMA3	Y	.004	4
60	MP GAMMA3	X	.002	4
61	MP ALPHA3	Y	.004	4
62	MP ALPHA3	X	.002	4
63	MP BETA3	Y	.003	4
64	MP BETA3	X	.002	4
65	MP GAMMA3	Y	.004	4
66	MP GAMMA3	X	.002	4
67	MP ALPHA2	Y	.000351	4
68	MP ALPHA2	X	.000203	4
69	MP BETA2	Y	.000192	4
70	MP BETA2	X	.000111	4
71	MP GAMMA2	Y	.000351	4
72	MP GAMMA2	X	.000203	4
73	MP ALPHA1	Y	.003	4
74	MP ALPHA1	X	.002	4
75	MP BETA1	Y	.003	4



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Member Point Loads (BLC 22 : Maintenance (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
76	MP BETA1	X	.002	4
77	MP GAMMA1	Y	.003	4
78	MP GAMMA1	X	.002	4
79	MP ALPHA2	Y	.003	4
80	MP ALPHA2	X	.002	4
81	MP ALPHA3	Y	.003	4
82	MP ALPHA3	X	.002	4

Member Point Loads (BLC 23 : Maintenance (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.005	6.083
2	MP ALPHA4	Y	.005	1.917
3	MP ALPHA4	X	.008	6.083
4	MP ALPHA4	X	.008	1.917
5	MP BETA4	Y	.005	6.083
6	MP BETA4	Y	.005	1.917
7	MP BETA4	X	.008	6.083
8	MP BETA4	X	.008	1.917
9	MP GAMMA4	Y	.009	6.083
10	MP GAMMA4	Y	.009	1.917
11	MP GAMMA4	X	.015	6.083
12	MP GAMMA4	X	.015	1.917
13	MP ALPHA2	Y	.004	6.083
14	MP ALPHA2	Y	.004	1.917
15	MP ALPHA2	X	.007	6.083
16	MP ALPHA2	X	.007	1.917
17	MP BETA2	Y	.004	6.083
18	MP BETA2	Y	.004	1.917
19	MP BETA2	X	.007	6.083
20	MP BETA2	X	.007	1.917
21	MP GAMMA2	Y	.007	6.083
22	MP GAMMA2	Y	.007	1.917
23	MP GAMMA2	X	.012	6.083
24	MP GAMMA2	X	.012	1.917
25	MP ALPHA3	Y	.005	6.083
26	MP ALPHA3	Y	.005	1.917
27	MP ALPHA3	X	.008	6.083
28	MP ALPHA3	X	.008	1.917
29	MP BETA3	Y	.005	6.083
30	MP BETA3	Y	.005	1.917
31	MP BETA3	X	.008	6.083
32	MP BETA3	X	.008	1.917
33	MP GAMMA3	Y	.009	6.083
34	MP GAMMA3	Y	.009	1.917
35	MP GAMMA3	X	.016	6.083
36	MP GAMMA3	X	.016	1.917
37	MP ALPHA1	Y	.001	5.25
38	MP ALPHA1	Y	.001	2.75
39	MP ALPHA1	X	.003	5.25
40	MP ALPHA1	X	.003	2.75
41	MP BETA1	Y	.001	5.25
42	MP BETA1	Y	.001	2.75
43	MP BETA1	X	.003	5.25
44	MP BETA1	X	.003	2.75
45	MP GAMMA1	Y	.003	5.25
46	MP GAMMA1	Y	.003	2.75



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Member Point Loads (BLC 23 : Maintenance (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
47	MP GAMMA1	X	.004	5.25
48	MP GAMMA1	X	.004	2.75
49	MP ALPHA4	Y	.002	4
50	MP ALPHA4	X	.004	4
51	MP BETA4	Y	.002	4
52	MP BETA4	X	.004	4
53	MP GAMMA4	Y	.003	4
54	MP GAMMA4	X	.005	4
55	MP ALPHA3	Y	.002	4
56	MP ALPHA3	X	.003	4
57	MP BETA3	Y	.002	4
58	MP BETA3	X	.003	4
59	MP GAMMA3	Y	.002	4
60	MP GAMMA3	X	.004	4
61	MP ALPHA3	Y	.002	4
62	MP ALPHA3	X	.003	4
63	MP BETA3	Y	.002	4
64	MP BETA3	X	.003	4
65	MP GAMMA3	Y	.002	4
66	MP GAMMA3	X	.004	4
67	MP ALPHA2	Y	.000141	4
68	MP ALPHA2	X	.000245	4
69	MP BETA2	Y	.000141	4
70	MP BETA2	X	.000245	4
71	MP GAMMA2	Y	.000233	4
72	MP GAMMA2	X	.000404	4
73	MP ALPHA1	Y	.002	4
74	MP ALPHA1	X	.003	4
75	MP BETA1	Y	.002	4
76	MP BETA1	X	.003	4
77	MP GAMMA1	Y	.002	4
78	MP GAMMA1	X	.004	4
79	MP ALPHA2	Y	.002	4
80	MP ALPHA2	X	.003	4
81	MP ALPHA3	Y	.002	4
82	MP ALPHA3	X	.003	4

Member Point Loads (BLC 24 : Maintenance (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	X	.007	6.083
2	MP ALPHA4	X	.007	1.917
3	MP BETA4	X	.015	6.083
4	MP BETA4	X	.015	1.917
5	MP GAMMA4	X	.015	6.083
6	MP GAMMA4	X	.015	1.917
7	MP ALPHA2	X	.007	6.083
8	MP ALPHA2	X	.007	1.917
9	MP BETA2	X	.012	6.083
10	MP BETA2	X	.012	1.917
11	MP GAMMA2	X	.012	6.083
12	MP GAMMA2	X	.012	1.917
13	MP ALPHA3	X	.007	6.083
14	MP ALPHA3	X	.007	1.917
15	MP BETA3	X	.015	6.083
16	MP BETA3	X	.015	1.917
17	MP GAMMA3	X	.015	6.083



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Member Point Loads (BLC 24 : Maintenance (270)) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
18	MP GAMMA3	X	.015	1.917
19	MP ALPHA1	X	.002	5.25
20	MP ALPHA1	X	.002	2.75
21	MP BETA1	X	.004	5.25
22	MP BETA1	X	.004	2.75
23	MP GAMMA1	X	.004	5.25
24	MP GAMMA1	X	.004	2.75
25	MP ALPHA4	X	.004	4
26	MP BETA4	X	.005	4
27	MP GAMMA4	X	.005	4
28	MP ALPHA3	X	.003	4
29	MP BETA3	X	.004	4
30	MP GAMMA3	X	.004	4
31	MP ALPHA3	X	.004	4
32	MP BETA3	X	.004	4
33	MP GAMMA3	X	.004	4
34	MP ALPHA2	X	.000221	4
35	MP BETA2	X	.000406	4
36	MP GAMMA2	X	.000406	4
37	MP ALPHA1	X	.003	4
38	MP BETA1	X	.004	4
39	MP GAMMA1	X	.004	4
40	MP ALPHA2	X	.004	4
41	MP ALPHA3	X	.004	4

Member Point Loads (BLC 25 : Maintenance (300))

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP ALPHA4	Y	-.005	6.083
2	MP ALPHA4	Y	-.005	1.917
3	MP ALPHA4	X	.008	6.083
4	MP ALPHA4	X	.008	1.917
5	MP BETA4	Y	-.009	6.083
6	MP BETA4	Y	-.009	1.917
7	MP BETA4	X	.015	6.083
8	MP BETA4	X	.015	1.917
9	MP GAMMA4	Y	-.005	6.083
10	MP GAMMA4	Y	-.005	1.917
11	MP GAMMA4	X	.008	6.083
12	MP GAMMA4	X	.008	1.917
13	MP ALPHA2	Y	-.004	6.083
14	MP ALPHA2	Y	-.004	1.917
15	MP ALPHA2	X	.007	6.083
16	MP ALPHA2	X	.007	1.917
17	MP BETA2	Y	-.007	6.083
18	MP BETA2	Y	-.007	1.917
19	MP BETA2	X	.012	6.083
20	MP BETA2	X	.012	1.917
21	MP GAMMA2	Y	-.004	6.083
22	MP GAMMA2	Y	-.004	1.917
23	MP GAMMA2	X	.007	6.083
24	MP GAMMA2	X	.007	1.917
25	MP ALPHA3	Y	-.005	6.083
26	MP ALPHA3	Y	-.005	1.917
27	MP ALPHA3	X	.008	6.083
28	MP ALPHA3	X	.008	1.917
29	MP BETA3	Y	-.009	6.083



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Member Point Loads (BLC 25 : Maintenance (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA3	Y	-0.009	1.917
31	MP BETA3	X	.016	6.083
32	MP BETA3	X	.016	1.917
33	MP GAMMA3	Y	-0.005	6.083
34	MP GAMMA3	Y	-0.005	1.917
35	MP GAMMA3	X	.008	6.083
36	MP GAMMA3	X	.008	1.917
37	MP ALPHA1	Y	-0.001	5.25
38	MP ALPHA1	Y	-0.001	2.75
39	MP ALPHA1	X	.003	5.25
40	MP ALPHA1	X	.003	2.75
41	MP BETA1	Y	-0.003	5.25
42	MP BETA1	Y	-0.003	2.75
43	MP BETA1	X	.004	5.25
44	MP BETA1	X	.004	2.75
45	MP GAMMA1	Y	-0.001	5.25
46	MP GAMMA1	Y	-0.001	2.75
47	MP GAMMA1	X	.003	5.25
48	MP GAMMA1	X	.003	2.75
49	MP ALPHA4	Y	-0.002	4
50	MP ALPHA4	X	.004	4
51	MP BETA4	Y	-0.003	4
52	MP BETA4	X	.005	4
53	MP GAMMA4	Y	-0.002	4
54	MP GAMMA4	X	.004	4
55	MP ALPHA3	Y	-0.002	4
56	MP ALPHA3	X	.003	4
57	MP BETA3	Y	-0.002	4
58	MP BETA3	X	.004	4
59	MP GAMMA3	Y	-0.002	4
60	MP GAMMA3	X	.003	4
61	MP ALPHA3	Y	-0.002	4
62	MP ALPHA3	X	.003	4
63	MP BETA3	Y	-0.002	4
64	MP BETA3	X	.004	4
65	MP GAMMA3	Y	-0.002	4
66	MP GAMMA3	X	.003	4
67	MP ALPHA2	Y	-0.000141	4
68	MP ALPHA2	X	.000245	4
69	MP BETA2	Y	-0.000233	4
70	MP BETA2	X	.000404	4
71	MP GAMMA2	Y	-0.000141	4
72	MP GAMMA2	X	.000245	4
73	MP ALPHA1	Y	-0.002	4
74	MP ALPHA1	X	.003	4
75	MP BETA1	Y	-0.002	4
76	MP BETA1	X	.004	4
77	MP GAMMA1	Y	-0.002	4
78	MP GAMMA1	X	.003	4
79	MP ALPHA2	Y	-0.002	4
80	MP ALPHA2	X	.003	4
81	MP ALPHA3	Y	-0.002	4
82	MP ALPHA3	X	.003	4

Member Point Loads (BLC 26 : Maintenance (330))

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.13	6.083
2	MP ALPHA4	Y	-0.13	1.917
3	MP ALPHA4	X	.007	6.083
4	MP ALPHA4	X	.007	1.917
5	MP BETA4	Y	-0.13	6.083
6	MP BETA4	Y	-0.13	1.917
7	MP BETA4	X	.007	6.083
8	MP BETA4	X	.007	1.917
9	MP GAMMA4	Y	-.006	6.083
10	MP GAMMA4	Y	-.006	1.917
11	MP GAMMA4	X	.003	6.083
12	MP GAMMA4	X	.003	1.917
13	MP ALPHA2	Y	-.01	6.083
14	MP ALPHA2	Y	-.01	1.917
15	MP ALPHA2	X	.006	6.083
16	MP ALPHA2	X	.006	1.917
17	MP BETA2	Y	-.01	6.083
18	MP BETA2	Y	-.01	1.917
19	MP BETA2	X	.006	6.083
20	MP BETA2	X	.006	1.917
21	MP GAMMA2	Y	-.006	6.083
22	MP GAMMA2	Y	-.006	1.917
23	MP GAMMA2	X	.003	6.083
24	MP GAMMA2	X	.003	1.917
25	MP ALPHA3	Y	-0.13	6.083
26	MP ALPHA3	Y	-0.13	1.917
27	MP ALPHA3	X	.008	6.083
28	MP ALPHA3	X	.008	1.917
29	MP BETA3	Y	-0.13	6.083
30	MP BETA3	Y	-0.13	1.917
31	MP BETA3	X	.008	6.083
32	MP BETA3	X	.008	1.917
33	MP GAMMA3	Y	-.006	6.083
34	MP GAMMA3	Y	-.006	1.917
35	MP GAMMA3	X	.003	6.083
36	MP GAMMA3	X	.003	1.917
37	MP ALPHA1	Y	-0.004	5.25
38	MP ALPHA1	Y	-0.004	2.75
39	MP ALPHA1	X	.002	5.25
40	MP ALPHA1	X	.002	2.75
41	MP BETA1	Y	-0.004	5.25
42	MP BETA1	Y	-0.004	2.75
43	MP BETA1	X	.002	5.25
44	MP BETA1	X	.002	2.75
45	MP GAMMA1	Y	-.002	5.25
46	MP GAMMA1	Y	-.002	2.75
47	MP GAMMA1	X	.001	5.25
48	MP GAMMA1	X	.001	2.75
49	MP ALPHA4	Y	-0.004	4
50	MP ALPHA4	X	.002	4
51	MP BETA4	Y	-0.004	4
52	MP BETA4	X	.002	4
53	MP GAMMA4	Y	-.003	4
54	MP GAMMA4	X	.002	4
55	MP ALPHA3	Y	-0.004	4
56	MP ALPHA3	X	.002	4
57	MP BETA3	Y	-0.004	4



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Member Point Loads (BLC 26 : Maintenance (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA3	X	.002	4
59	MP GAMMA3	Y	-.002	4
60	MP GAMMA3	X	.001	4
61	MP ALPHA3	Y	-.004	4
62	MP ALPHA3	X	.002	4
63	MP BETA3	Y	-.004	4
64	MP BETA3	X	.002	4
65	MP GAMMA3	Y	-.003	4
66	MP GAMMA3	X	.002	4
67	MP ALPHA2	Y	-.000351	4
68	MP ALPHA2	X	.000203	4
69	MP BETA2	Y	-.000351	4
70	MP BETA2	X	.000203	4
71	MP GAMMA2	Y	-.000192	4
72	MP GAMMA2	X	.000111	4
73	MP ALPHA1	Y	-.003	4
74	MP ALPHA1	X	.002	4
75	MP BETA1	Y	-.003	4
76	MP BETA1	X	.002	4
77	MP GAMMA1	Y	-.003	4
78	MP GAMMA1	X	.002	4
79	MP ALPHA2	Y	-.003	4
80	MP ALPHA2	X	.002	4
81	MP ALPHA3	Y	-.003	4
82	MP ALPHA3	X	.002	4

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Z	-.091	6.083
2	MP ALPHA4	Z	-.091	1.917
3	MP BETA4	Z	-.091	6.083
4	MP BETA4	Z	-.091	1.917
5	MP GAMMA4	Z	-.091	6.083
6	MP GAMMA4	Z	-.091	1.917
7	MP ALPHA2	Z	-.078	6.083
8	MP ALPHA2	Z	-.078	1.917
9	MP BETA2	Z	-.078	6.083
10	MP BETA2	Z	-.078	1.917
11	MP GAMMA2	Z	-.078	6.083
12	MP GAMMA2	Z	-.078	1.917
13	MP ALPHA3	Z	-.092	6.083
14	MP ALPHA3	Z	-.092	1.917
15	MP BETA3	Z	-.092	6.083
16	MP BETA3	Z	-.092	1.917
17	MP GAMMA3	Z	-.092	6.083
18	MP GAMMA3	Z	-.092	1.917
19	MP ALPHA1	Z	-.041	5.25
20	MP ALPHA1	Z	-.041	2.75
21	MP BETA1	Z	-.041	5.25
22	MP BETA1	Z	-.041	2.75
23	MP GAMMA1	Z	-.041	5.25
24	MP GAMMA1	Z	-.041	2.75
25	MP ALPHA4	Z	-.047	4
26	MP BETA4	Z	-.047	4
27	MP GAMMA4	Z	-.047	4
28	MP ALPHA3	Z	-.041	4



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Member Point Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP BETA3	Z	-0.41	4
30	MP GAMMA3	Z	-0.41	4
31	MP ALPHA3	Z	-0.45	4
32	MP BETA3	Z	-0.45	4
33	MP GAMMA3	Z	-0.45	4
34	MP ALPHA2	Z	-0.05	4
35	MP BETA2	Z	-0.05	4
36	MP GAMMA2	Z	-0.05	4
37	MP ALPHA1	Z	-0.41	4
38	MP BETA1	Z	-0.41	4
39	MP GAMMA1	Z	-0.41	4
40	MP ALPHA2	Z	-0.07	4
41	MP ALPHA3	Z	-0.07	4

Member Point Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.51	6.083
2	MP ALPHA4	Y	-0.51	1.917
3	MP BETA4	Y	-0.29	6.083
4	MP BETA4	Y	-0.29	1.917
5	MP GAMMA4	Y	-0.29	6.083
6	MP GAMMA4	Y	-0.29	1.917
7	MP ALPHA2	Y	-0.41	6.083
8	MP ALPHA2	Y	-0.41	1.917
9	MP BETA2	Y	-0.28	6.083
10	MP BETA2	Y	-0.28	1.917
11	MP GAMMA2	Y	-0.28	6.083
12	MP GAMMA2	Y	-0.28	1.917
13	MP ALPHA3	Y	-0.52	6.083
14	MP ALPHA3	Y	-0.52	1.917
15	MP BETA3	Y	-0.03	6.083
16	MP BETA3	Y	-0.03	1.917
17	MP GAMMA3	Y	-0.03	6.083
18	MP GAMMA3	Y	-0.03	1.917
19	MP ALPHA1	Y	-0.16	5.25
20	MP ALPHA1	Y	-0.16	2.75
21	MP BETA1	Y	-0.11	5.25
22	MP BETA1	Y	-0.11	2.75
23	MP GAMMA1	Y	-0.11	5.25
24	MP GAMMA1	Y	-0.11	2.75
25	MP ALPHA4	Y	-0.11	4
26	MP BETA4	Y	-0.09	4
27	MP GAMMA4	Y	-0.09	4
28	MP ALPHA3	Y	-0.11	4
29	MP BETA3	Y	-0.08	4
30	MP GAMMA3	Y	-0.08	4
31	MP ALPHA3	Y	-0.01	4
32	MP BETA3	Y	-0.09	4
33	MP GAMMA3	Y	-0.09	4
34	MP ALPHA2	Y	-0.02	4
35	MP BETA2	Y	-0.01	4
36	MP GAMMA2	Y	-0.01	4
37	MP ALPHA1	Y	-0.11	4
38	MP BETA1	Y	-0.01	4
39	MP GAMMA1	Y	-0.01	4
40	MP ALPHA2	Y	-0.16	4



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Member Point Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP ALPHA3	Y	-0.16	4

Member Point Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.38	6.083
2	MP ALPHA4	Y	-0.38	1.917
3	MP ALPHA4	X	-0.22	6.083
4	MP ALPHA4	X	-0.22	1.917
5	MP BETA4	Y	-0.19	6.083
6	MP BETA4	Y	-0.19	1.917
7	MP BETA4	X	-0.11	6.083
8	MP BETA4	X	-0.11	1.917
9	MP GAMMA4	Y	-0.38	6.083
10	MP GAMMA4	Y	-0.38	1.917
11	MP GAMMA4	X	-0.22	6.083
12	MP GAMMA4	X	-0.22	1.917
13	MP ALPHA2	Y	-0.32	6.083
14	MP ALPHA2	Y	-0.32	1.917
15	MP ALPHA2	X	-0.18	6.083
16	MP ALPHA2	X	-0.18	1.917
17	MP BETA2	Y	-0.02	6.083
18	MP BETA2	Y	-0.02	1.917
19	MP BETA2	X	-0.12	6.083
20	MP BETA2	X	-0.12	1.917
21	MP GAMMA2	Y	-0.32	6.083
22	MP GAMMA2	Y	-0.32	1.917
23	MP GAMMA2	X	-0.18	6.083
24	MP GAMMA2	X	-0.18	1.917
25	MP ALPHA3	Y	-0.38	6.083
26	MP ALPHA3	Y	-0.38	1.917
27	MP ALPHA3	X	-0.22	6.083
28	MP ALPHA3	X	-0.22	1.917
29	MP BETA3	Y	-0.19	6.083
30	MP BETA3	Y	-0.19	1.917
31	MP BETA3	X	-0.11	6.083
32	MP BETA3	X	-0.11	1.917
33	MP GAMMA3	Y	-0.38	6.083
34	MP GAMMA3	Y	-0.38	1.917
35	MP GAMMA3	X	-0.22	6.083
36	MP GAMMA3	X	-0.22	1.917
37	MP ALPHA1	Y	-0.12	5.25
38	MP ALPHA1	Y	-0.12	2.75
39	MP ALPHA1	X	-0.07	5.25
40	MP ALPHA1	X	-0.07	2.75
41	MP BETA1	Y	-0.08	5.25
42	MP BETA1	Y	-0.08	2.75
43	MP BETA1	X	-0.04	5.25
44	MP BETA1	X	-0.04	2.75
45	MP GAMMA1	Y	-0.12	5.25
46	MP GAMMA1	Y	-0.12	2.75
47	MP GAMMA1	X	-0.07	5.25
48	MP GAMMA1	X	-0.07	2.75
49	MP ALPHA4	Y	-0.09	4
50	MP ALPHA4	X	-0.05	4
51	MP BETA4	Y	-0.07	4
52	MP BETA4	X	-0.04	4



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Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP GAMMA4	Y	-0.009	4
54	MP GAMMA4	X	-0.005	4
55	MP ALPHA3	Y	-0.008	4
56	MP ALPHA3	X	-0.005	4
57	MP BETA3	Y	-0.006	4
58	MP BETA3	X	-0.003	4
59	MP GAMMA3	Y	-0.008	4
60	MP GAMMA3	X	-0.005	4
61	MP ALPHA3	Y	-0.008	4
62	MP ALPHA3	X	-0.005	4
63	MP BETA3	Y	-0.007	4
64	MP BETA3	X	-0.004	4
65	MP GAMMA3	Y	-0.008	4
66	MP GAMMA3	X	-0.005	4
67	MP ALPHA2	Y	-0.001	4
68	MP ALPHA2	X	-0.000802	4
69	MP BETA2	Y	-0.001	4
70	MP BETA2	X	-0.000587	4
71	MP GAMMA2	Y	-0.001	4
72	MP GAMMA2	X	-0.000802	4
73	MP ALPHA1	Y	-0.009	4
74	MP ALPHA1	X	-0.005	4
75	MP BETA1	Y	-0.008	4
76	MP BETA1	X	-0.005	4
77	MP GAMMA1	Y	-0.009	4
78	MP GAMMA1	X	-0.005	4
79	MP ALPHA2	Y	-0.014	4
80	MP ALPHA2	X	-0.008	4
81	MP ALPHA3	Y	-0.014	4
82	MP ALPHA3	X	-0.008	4

Member Point Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-0.015	6.083
2	MP ALPHA4	Y	-0.015	1.917
3	MP ALPHA4	X	-0.025	6.083
4	MP ALPHA4	X	-0.025	1.917
5	MP BETA4	Y	-0.015	6.083
6	MP BETA4	Y	-0.015	1.917
7	MP BETA4	X	-0.025	6.083
8	MP BETA4	X	-0.025	1.917
9	MP GAMMA4	Y	-0.025	6.083
10	MP GAMMA4	Y	-0.025	1.917
11	MP GAMMA4	X	-0.044	6.083
12	MP GAMMA4	X	-0.044	1.917
13	MP ALPHA2	Y	-0.014	6.083
14	MP ALPHA2	Y	-0.014	1.917
15	MP ALPHA2	X	-0.024	6.083
16	MP ALPHA2	X	-0.024	1.917
17	MP BETA2	Y	-0.014	6.083
18	MP BETA2	Y	-0.014	1.917
19	MP BETA2	X	-0.024	6.083
20	MP BETA2	X	-0.024	1.917
21	MP GAMMA2	Y	-0.02	6.083
22	MP GAMMA2	Y	-0.02	1.917
23	MP GAMMA2	X	-0.035	6.083



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Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP GAMMA2	X	-0.035	1.917
25	MP ALPHA3	Y	-0.015	6.083
26	MP ALPHA3	Y	-0.015	1.917
27	MP ALPHA3	X	-0.026	6.083
28	MP ALPHA3	X	-0.026	1.917
29	MP BETA3	Y	-0.015	6.083
30	MP BETA3	Y	-0.015	1.917
31	MP BETA3	X	-0.026	6.083
32	MP BETA3	X	-0.026	1.917
33	MP GAMMA3	Y	-0.026	6.083
34	MP GAMMA3	Y	-0.026	1.917
35	MP GAMMA3	X	-0.045	6.083
36	MP GAMMA3	X	-0.045	1.917
37	MP ALPHA1	Y	-0.005	5.25
38	MP ALPHA1	Y	-0.005	2.75
39	MP ALPHA1	X	-0.009	5.25
40	MP ALPHA1	X	-0.009	2.75
41	MP BETA1	Y	-0.005	5.25
42	MP BETA1	Y	-0.005	2.75
43	MP BETA1	X	-0.009	5.25
44	MP BETA1	X	-0.009	2.75
45	MP GAMMA1	Y	-0.008	5.25
46	MP GAMMA1	Y	-0.008	2.75
47	MP GAMMA1	X	-0.014	5.25
48	MP GAMMA1	X	-0.014	2.75
49	MP ALPHA4	Y	-0.005	4
50	MP ALPHA4	X	-0.008	4
51	MP BETA4	Y	-0.005	4
52	MP BETA4	X	-0.008	4
53	MP GAMMA4	Y	-0.006	4
54	MP GAMMA4	X	-0.01	4
55	MP ALPHA3	Y	-0.004	4
56	MP ALPHA3	X	-0.007	4
57	MP BETA3	Y	-0.004	4
58	MP BETA3	X	-0.007	4
59	MP GAMMA3	Y	-0.005	4
60	MP GAMMA3	X	-0.009	4
61	MP ALPHA3	Y	-0.004	4
62	MP ALPHA3	X	-0.007	4
63	MP BETA3	Y	-0.004	4
64	MP BETA3	X	-0.007	4
65	MP GAMMA3	Y	-0.005	4
66	MP GAMMA3	X	-0.008	4
67	MP ALPHA2	Y	-0.000658	4
68	MP ALPHA2	X	-0.001	4
69	MP BETA2	Y	-0.000658	4
70	MP BETA2	X	-0.001	4
71	MP GAMMA2	Y	-0.000874	4
72	MP GAMMA2	X	-0.002	4
73	MP ALPHA1	Y	-0.005	4
74	MP ALPHA1	X	-0.008	4
75	MP BETA1	Y	-0.005	4
76	MP BETA1	X	-0.008	4
77	MP GAMMA1	Y	-0.005	4
78	MP GAMMA1	X	-0.009	4
79	MP ALPHA2	Y	-0.008	4
80	MP ALPHA2	X	-0.014	4



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Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
81	MP ALPHA3	Y	-0.08	4
82	MP ALPHA3	X	-0.14	4

Member Point Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-0.22	6.083
2	MP ALPHA4	X	-0.22	1.917
3	MP BETA4	X	-0.43	6.083
4	MP BETA4	X	-0.43	1.917
5	MP GAMMA4	X	-0.43	6.083
6	MP GAMMA4	X	-0.43	1.917
7	MP ALPHA2	X	-0.23	6.083
8	MP ALPHA2	X	-0.23	1.917
9	MP BETA2	X	-0.36	6.083
10	MP BETA2	X	-0.36	1.917
11	MP GAMMA2	X	-0.36	6.083
12	MP GAMMA2	X	-0.36	1.917
13	MP ALPHA3	X	-0.22	6.083
14	MP ALPHA3	X	-0.22	1.917
15	MP BETA3	X	-0.44	6.083
16	MP BETA3	X	-0.44	1.917
17	MP GAMMA3	X	-0.44	6.083
18	MP GAMMA3	X	-0.44	1.917
19	MP ALPHA1	X	-0.09	5.25
20	MP ALPHA1	X	-0.09	2.75
21	MP BETA1	X	-0.14	5.25
22	MP BETA1	X	-0.14	2.75
23	MP GAMMA1	X	-0.14	5.25
24	MP GAMMA1	X	-0.14	2.75
25	MP ALPHA4	X	-0.09	4
26	MP BETA4	X	-0.11	4
27	MP GAMMA4	X	-0.11	4
28	MP ALPHA3	X	-0.07	4
29	MP BETA3	X	-0.01	4
30	MP GAMMA3	X	-0.01	4
31	MP ALPHA3	X	-0.08	4
32	MP BETA3	X	-0.09	4
33	MP GAMMA3	X	-0.09	4
34	MP ALPHA2	X	-0.01	4
35	MP BETA2	X	-0.02	4
36	MP GAMMA2	X	-0.02	4
37	MP ALPHA1	X	-0.09	4
38	MP BETA1	X	-0.01	4
39	MP GAMMA1	X	-0.01	4
40	MP ALPHA2	X	-0.16	4
41	MP ALPHA3	X	-0.16	4

Member Point Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.015	6.083
2	MP ALPHA4	Y	.015	1.917
3	MP ALPHA4	X	-0.25	6.083
4	MP ALPHA4	X	-0.25	1.917
5	MP BETA4	Y	.025	6.083
6	MP BETA4	Y	.025	1.917
7	MP BETA4	X	-0.44	6.083



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Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP BETA4	X	-044	1.917
9	MP GAMMA4	Y	.015	6.083
10	MP GAMMA4	Y	.015	1.917
11	MP GAMMA4	X	-.025	6.083
12	MP GAMMA4	X	-.025	1.917
13	MP ALPHA2	Y	.014	6.083
14	MP ALPHA2	Y	.014	1.917
15	MP ALPHA2	X	-.024	6.083
16	MP ALPHA2	X	-.024	1.917
17	MP BETA2	Y	.02	6.083
18	MP BETA2	Y	.02	1.917
19	MP BETA2	X	-.035	6.083
20	MP BETA2	X	-.035	1.917
21	MP GAMMA2	Y	.014	6.083
22	MP GAMMA2	Y	.014	1.917
23	MP GAMMA2	X	-.024	6.083
24	MP GAMMA2	X	-.024	1.917
25	MP ALPHA3	Y	.015	6.083
26	MP ALPHA3	Y	.015	1.917
27	MP ALPHA3	X	-.026	6.083
28	MP ALPHA3	X	-.026	1.917
29	MP BETA3	Y	.026	6.083
30	MP BETA3	Y	.026	1.917
31	MP BETA3	X	-.045	6.083
32	MP BETA3	X	-.045	1.917
33	MP GAMMA3	Y	.015	6.083
34	MP GAMMA3	Y	.015	1.917
35	MP GAMMA3	X	-.026	6.083
36	MP GAMMA3	X	-.026	1.917
37	MP ALPHA1	Y	.005	5.25
38	MP ALPHA1	Y	.005	2.75
39	MP ALPHA1	X	-.009	5.25
40	MP ALPHA1	X	-.009	2.75
41	MP BETA1	Y	.008	5.25
42	MP BETA1	Y	.008	2.75
43	MP BETA1	X	-.014	5.25
44	MP BETA1	X	-.014	2.75
45	MP GAMMA1	Y	.005	5.25
46	MP GAMMA1	Y	.005	2.75
47	MP GAMMA1	X	-.009	5.25
48	MP GAMMA1	X	-.009	2.75
49	MP ALPHA4	Y	.005	4
50	MP ALPHA4	X	-.008	4
51	MP BETA4	Y	.006	4
52	MP BETA4	X	-.01	4
53	MP GAMMA4	Y	.005	4
54	MP GAMMA4	X	-.008	4
55	MP ALPHA3	Y	.004	4
56	MP ALPHA3	X	-.007	4
57	MP BETA3	Y	.005	4
58	MP BETA3	X	-.009	4
59	MP GAMMA3	Y	.004	4
60	MP GAMMA3	X	-.007	4
61	MP ALPHA3	Y	.004	4
62	MP ALPHA3	X	-.007	4
63	MP BETA3	Y	.005	4
64	MP BETA3	X	-.008	4



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Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
65	MP GAMMA3	Y	.004	4
66	MP GAMMA3	X	-.007	4
67	MP ALPHA2	Y	.000658	4
68	MP ALPHA2	X	-.001	4
69	MP BETA2	Y	.000874	4
70	MP BETA2	X	-.002	4
71	MP GAMMA2	Y	.000658	4
72	MP GAMMA2	X	-.001	4
73	MP ALPHA1	Y	.005	4
74	MP ALPHA1	X	-.008	4
75	MP BETA1	Y	.005	4
76	MP BETA1	X	-.009	4
77	MP GAMMA1	Y	.005	4
78	MP GAMMA1	X	-.008	4
79	MP ALPHA2	Y	.008	4
80	MP ALPHA2	X	-.014	4
81	MP ALPHA3	Y	.008	4
82	MP ALPHA3	X	-.014	4

Member Point Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.038	6.083
2	MP ALPHA4	Y	.038	1.917
3	MP ALPHA4	X	-.022	6.083
4	MP ALPHA4	X	-.022	1.917
5	MP BETA4	Y	.038	6.083
6	MP BETA4	Y	.038	1.917
7	MP BETA4	X	-.022	6.083
8	MP BETA4	X	-.022	1.917
9	MP GAMMA4	Y	.019	6.083
10	MP GAMMA4	Y	.019	1.917
11	MP GAMMA4	X	-.011	6.083
12	MP GAMMA4	X	-.011	1.917
13	MP ALPHA2	Y	.032	6.083
14	MP ALPHA2	Y	.032	1.917
15	MP ALPHA2	X	-.018	6.083
16	MP ALPHA2	X	-.018	1.917
17	MP BETA2	Y	.032	6.083
18	MP BETA2	Y	.032	1.917
19	MP BETA2	X	-.018	6.083
20	MP BETA2	X	-.018	1.917
21	MP GAMMA2	Y	.02	6.083
22	MP GAMMA2	Y	.02	1.917
23	MP GAMMA2	X	-.012	6.083
24	MP GAMMA2	X	-.012	1.917
25	MP ALPHA3	Y	.038	6.083
26	MP ALPHA3	Y	.038	1.917
27	MP ALPHA3	X	-.022	6.083
28	MP ALPHA3	X	-.022	1.917
29	MP BETA3	Y	.038	6.083
30	MP BETA3	Y	.038	1.917
31	MP BETA3	X	-.022	6.083
32	MP BETA3	X	-.022	1.917
33	MP GAMMA3	Y	.019	6.083
34	MP GAMMA3	Y	.019	1.917
35	MP GAMMA3	X	-.011	6.083



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Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP GAMMA3	X	-0.11	1.917
37	MP ALPHA1	Y	.012	5.25
38	MP ALPHA1	Y	.012	2.75
39	MP ALPHA1	X	-.007	5.25
40	MP ALPHA1	X	-.007	2.75
41	MP BETA1	Y	.012	5.25
42	MP BETA1	Y	.012	2.75
43	MP BETA1	X	-.007	5.25
44	MP BETA1	X	-.007	2.75
45	MP GAMMA1	Y	.008	5.25
46	MP GAMMA1	Y	.008	2.75
47	MP GAMMA1	X	-.004	5.25
48	MP GAMMA1	X	-.004	2.75
49	MP ALPHA4	Y	.009	4
50	MP ALPHA4	X	-.005	4
51	MP BETA4	Y	.009	4
52	MP BETA4	X	-.005	4
53	MP GAMMA4	Y	.007	4
54	MP GAMMA4	X	-.004	4
55	MP ALPHA3	Y	.008	4
56	MP ALPHA3	X	-.005	4
57	MP BETA3	Y	.008	4
58	MP BETA3	X	-.005	4
59	MP GAMMA3	Y	.006	4
60	MP GAMMA3	X	-.003	4
61	MP ALPHA3	Y	.008	4
62	MP ALPHA3	X	-.005	4
63	MP BETA3	Y	.008	4
64	MP BETA3	X	-.005	4
65	MP GAMMA3	Y	.007	4
66	MP GAMMA3	X	-.004	4
67	MP ALPHA2	Y	.001	4
68	MP ALPHA2	X	-.000802	4
69	MP BETA2	Y	.001	4
70	MP BETA2	X	-.000802	4
71	MP GAMMA2	Y	.001	4
72	MP GAMMA2	X	-.000587	4
73	MP ALPHA1	Y	.009	4
74	MP ALPHA1	X	-.005	4
75	MP BETA1	Y	.009	4
76	MP BETA1	X	-.005	4
77	MP GAMMA1	Y	.008	4
78	MP GAMMA1	X	-.005	4
79	MP ALPHA2	Y	.014	4
80	MP ALPHA2	X	-.008	4
81	MP ALPHA3	Y	.014	4
82	MP ALPHA3	X	-.008	4

Member Point Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.051	6.083
2	MP ALPHA4	Y	.051	1.917
3	MP BETA4	Y	.029	6.083
4	MP BETA4	Y	.029	1.917
5	MP GAMMA4	Y	.029	6.083
6	MP GAMMA4	Y	.029	1.917



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Member Point Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
7	MP ALPHA2	Y	.041	6.083
8	MP ALPHA2	Y	.041	1.917
9	MP BETA2	Y	.028	6.083
10	MP BETA2	Y	.028	1.917
11	MP GAMMA2	Y	.028	6.083
12	MP GAMMA2	Y	.028	1.917
13	MP ALPHA3	Y	.052	6.083
14	MP ALPHA3	Y	.052	1.917
15	MP BETA3	Y	.03	6.083
16	MP BETA3	Y	.03	1.917
17	MP GAMMA3	Y	.03	6.083
18	MP GAMMA3	Y	.03	1.917
19	MP ALPHA1	Y	.016	5.25
20	MP ALPHA1	Y	.016	2.75
21	MP BETA1	Y	.011	5.25
22	MP BETA1	Y	.011	2.75
23	MP GAMMA1	Y	.011	5.25
24	MP GAMMA1	Y	.011	2.75
25	MP ALPHA4	Y	.011	4
26	MP BETA4	Y	.009	4
27	MP GAMMA4	Y	.009	4
28	MP ALPHA3	Y	.011	4
29	MP BETA3	Y	.008	4
30	MP GAMMA3	Y	.008	4
31	MP ALPHA3	Y	.01	4
32	MP BETA3	Y	.009	4
33	MP GAMMA3	Y	.009	4
34	MP ALPHA2	Y	.002	4
35	MP BETA2	Y	.001	4
36	MP GAMMA2	Y	.001	4
37	MP ALPHA1	Y	.011	4
38	MP BETA1	Y	.01	4
39	MP GAMMA1	Y	.01	4
40	MP ALPHA2	Y	.016	4
41	MP ALPHA3	Y	.016	4

Member Point Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Y	.038	6.083
2	MP ALPHA4	Y	.038	1.917
3	MP ALPHA4	X	.022	6.083
4	MP ALPHA4	X	.022	1.917
5	MP BETA4	Y	.019	6.083
6	MP BETA4	Y	.019	1.917
7	MP BETA4	X	.011	6.083
8	MP BETA4	X	.011	1.917
9	MP GAMMA4	Y	.038	6.083
10	MP GAMMA4	Y	.038	1.917
11	MP GAMMA4	X	.022	6.083
12	MP GAMMA4	X	.022	1.917
13	MP ALPHA2	Y	.032	6.083
14	MP ALPHA2	Y	.032	1.917
15	MP ALPHA2	X	.018	6.083
16	MP ALPHA2	X	.018	1.917
17	MP BETA2	Y	.02	6.083
18	MP BETA2	Y	.02	1.917



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Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP BETA2	X	.012	6.083
20	MP BETA2	X	.012	1.917
21	MP GAMMA2	Y	.032	6.083
22	MP GAMMA2	Y	.032	1.917
23	MP GAMMA2	X	.018	6.083
24	MP GAMMA2	X	.018	1.917
25	MP ALPHA3	Y	.038	6.083
26	MP ALPHA3	Y	.038	1.917
27	MP ALPHA3	X	.022	6.083
28	MP ALPHA3	X	.022	1.917
29	MP BETA3	Y	.019	6.083
30	MP BETA3	Y	.019	1.917
31	MP BETA3	X	.011	6.083
32	MP BETA3	X	.011	1.917
33	MP GAMMA3	Y	.038	6.083
34	MP GAMMA3	Y	.038	1.917
35	MP GAMMA3	X	.022	6.083
36	MP GAMMA3	X	.022	1.917
37	MP ALPHA1	Y	.012	5.25
38	MP ALPHA1	Y	.012	2.75
39	MP ALPHA1	X	.007	5.25
40	MP ALPHA1	X	.007	2.75
41	MP BETA1	Y	.008	5.25
42	MP BETA1	Y	.008	2.75
43	MP BETA1	X	.004	5.25
44	MP BETA1	X	.004	2.75
45	MP GAMMA1	Y	.012	5.25
46	MP GAMMA1	Y	.012	2.75
47	MP GAMMA1	X	.007	5.25
48	MP GAMMA1	X	.007	2.75
49	MP ALPHA4	Y	.009	4
50	MP ALPHA4	X	.005	4
51	MP BETA4	Y	.007	4
52	MP BETA4	X	.004	4
53	MP GAMMA4	Y	.009	4
54	MP GAMMA4	X	.005	4
55	MP ALPHA3	Y	.008	4
56	MP ALPHA3	X	.005	4
57	MP BETA3	Y	.006	4
58	MP BETA3	X	.003	4
59	MP GAMMA3	Y	.008	4
60	MP GAMMA3	X	.005	4
61	MP ALPHA3	Y	.008	4
62	MP ALPHA3	X	.005	4
63	MP BETA3	Y	.007	4
64	MP BETA3	X	.004	4
65	MP GAMMA3	Y	.008	4
66	MP GAMMA3	X	.005	4
67	MP ALPHA2	Y	.001	4
68	MP ALPHA2	X	.000802	4
69	MP BETA2	Y	.001	4
70	MP BETA2	X	.000587	4
71	MP GAMMA2	Y	.001	4
72	MP GAMMA2	X	.000802	4
73	MP ALPHA1	Y	.009	4
74	MP ALPHA1	X	.005	4
75	MP BETA1	Y	.008	4



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Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
76	MP BETA1	X	.005	4
77	MP GAMMA1	Y	.009	4
78	MP GAMMA1	X	.005	4
79	MP ALPHA2	Y	.014	4
80	MP ALPHA2	X	.008	4
81	MP ALPHA3	Y	.014	4
82	MP ALPHA3	X	.008	4

Member Point Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.015	6.083
2	MP ALPHA4	Y	.015	1.917
3	MP ALPHA4	X	.025	6.083
4	MP ALPHA4	X	.025	1.917
5	MP BETA4	Y	.015	6.083
6	MP BETA4	Y	.015	1.917
7	MP BETA4	X	.025	6.083
8	MP BETA4	X	.025	1.917
9	MP GAMMA4	Y	.025	6.083
10	MP GAMMA4	Y	.025	1.917
11	MP GAMMA4	X	.044	6.083
12	MP GAMMA4	X	.044	1.917
13	MP ALPHA2	Y	.014	6.083
14	MP ALPHA2	Y	.014	1.917
15	MP ALPHA2	X	.024	6.083
16	MP ALPHA2	X	.024	1.917
17	MP BETA2	Y	.014	6.083
18	MP BETA2	Y	.014	1.917
19	MP BETA2	X	.024	6.083
20	MP BETA2	X	.024	1.917
21	MP GAMMA2	Y	.02	6.083
22	MP GAMMA2	Y	.02	1.917
23	MP GAMMA2	X	.035	6.083
24	MP GAMMA2	X	.035	1.917
25	MP ALPHA3	Y	.015	6.083
26	MP ALPHA3	Y	.015	1.917
27	MP ALPHA3	X	.026	6.083
28	MP ALPHA3	X	.026	1.917
29	MP BETA3	Y	.015	6.083
30	MP BETA3	Y	.015	1.917
31	MP BETA3	X	.026	6.083
32	MP BETA3	X	.026	1.917
33	MP GAMMA3	Y	.026	6.083
34	MP GAMMA3	Y	.026	1.917
35	MP GAMMA3	X	.045	6.083
36	MP GAMMA3	X	.045	1.917
37	MP ALPHA1	Y	.005	5.25
38	MP ALPHA1	Y	.005	2.75
39	MP ALPHA1	X	.009	5.25
40	MP ALPHA1	X	.009	2.75
41	MP BETA1	Y	.005	5.25
42	MP BETA1	Y	.005	2.75
43	MP BETA1	X	.009	5.25
44	MP BETA1	X	.009	2.75
45	MP GAMMA1	Y	.008	5.25
46	MP GAMMA1	Y	.008	2.75



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Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
47	MP GAMMA1	X	.014	5.25
48	MP GAMMA1	X	.014	2.75
49	MP ALPHA4	Y	.005	4
50	MP ALPHA4	X	.008	4
51	MP BETA4	Y	.005	4
52	MP BETA4	X	.008	4
53	MP GAMMA4	Y	.006	4
54	MP GAMMA4	X	.01	4
55	MP ALPHA3	Y	.004	4
56	MP ALPHA3	X	.007	4
57	MP BETA3	Y	.004	4
58	MP BETA3	X	.007	4
59	MP GAMMA3	Y	.005	4
60	MP GAMMA3	X	.009	4
61	MP ALPHA3	Y	.004	4
62	MP ALPHA3	X	.007	4
63	MP BETA3	Y	.004	4
64	MP BETA3	X	.007	4
65	MP GAMMA3	Y	.005	4
66	MP GAMMA3	X	.008	4
67	MP ALPHA2	Y	.000658	4
68	MP ALPHA2	X	.001	4
69	MP BETA2	Y	.000658	4
70	MP BETA2	X	.001	4
71	MP GAMMA2	Y	.000874	4
72	MP GAMMA2	X	.002	4
73	MP ALPHA1	Y	.005	4
74	MP ALPHA1	X	.008	4
75	MP BETA1	Y	.005	4
76	MP BETA1	X	.008	4
77	MP GAMMA1	Y	.005	4
78	MP GAMMA1	X	.009	4
79	MP ALPHA2	Y	.008	4
80	MP ALPHA2	X	.014	4
81	MP ALPHA3	Y	.008	4
82	MP ALPHA3	X	.014	4

Member Point Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	X	.022	6.083
2	MP ALPHA4	X	.022	1.917
3	MP BETA4	X	.043	6.083
4	MP BETA4	X	.043	1.917
5	MP GAMMA4	X	.043	6.083
6	MP GAMMA4	X	.043	1.917
7	MP ALPHA2	X	.023	6.083
8	MP ALPHA2	X	.023	1.917
9	MP BETA2	X	.036	6.083
10	MP BETA2	X	.036	1.917
11	MP GAMMA2	X	.036	6.083
12	MP GAMMA2	X	.036	1.917
13	MP ALPHA3	X	.022	6.083
14	MP ALPHA3	X	.022	1.917
15	MP BETA3	X	.044	6.083
16	MP BETA3	X	.044	1.917
17	MP GAMMA3	X	.044	6.083



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Member Point Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP GAMMA3	X	.044	1.917
19	MP ALPHA1	X	.009	5.25
20	MP ALPHA1	X	.009	2.75
21	MP BETA1	X	.014	5.25
22	MP BETA1	X	.014	2.75
23	MP GAMMA1	X	.014	5.25
24	MP GAMMA1	X	.014	2.75
25	MP ALPHA4	X	.009	4
26	MP BETA4	X	.011	4
27	MP GAMMA4	X	.011	4
28	MP ALPHA3	X	.007	4
29	MP BETA3	X	.01	4
30	MP GAMMA3	X	.01	4
31	MP ALPHA3	X	.008	4
32	MP BETA3	X	.009	4
33	MP GAMMA3	X	.009	4
34	MP ALPHA2	X	.001	4
35	MP BETA2	X	.002	4
36	MP GAMMA2	X	.002	4
37	MP ALPHA1	X	.009	4
38	MP BETA1	X	.01	4
39	MP GAMMA1	X	.01	4
40	MP ALPHA2	X	.016	4
41	MP ALPHA3	X	.016	4

Member Point Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.015	6.083
2	MP ALPHA4	Y	-.015	1.917
3	MP ALPHA4	X	.025	6.083
4	MP ALPHA4	X	.025	1.917
5	MP BETA4	Y	-.025	6.083
6	MP BETA4	Y	-.025	1.917
7	MP BETA4	X	.044	6.083
8	MP BETA4	X	.044	1.917
9	MP GAMMA4	Y	-.015	6.083
10	MP GAMMA4	Y	-.015	1.917
11	MP GAMMA4	X	.025	6.083
12	MP GAMMA4	X	.025	1.917
13	MP ALPHA2	Y	-.014	6.083
14	MP ALPHA2	Y	-.014	1.917
15	MP ALPHA2	X	.024	6.083
16	MP ALPHA2	X	.024	1.917
17	MP BETA2	Y	-.02	6.083
18	MP BETA2	Y	-.02	1.917
19	MP BETA2	X	.035	6.083
20	MP BETA2	X	.035	1.917
21	MP GAMMA2	Y	-.014	6.083
22	MP GAMMA2	Y	-.014	1.917
23	MP GAMMA2	X	.024	6.083
24	MP GAMMA2	X	.024	1.917
25	MP ALPHA3	Y	-.015	6.083
26	MP ALPHA3	Y	-.015	1.917
27	MP ALPHA3	X	.026	6.083
28	MP ALPHA3	X	.026	1.917
29	MP BETA3	Y	-.026	6.083



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Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA3	Y	-.026	1.917
31	MP BETA3	X	.045	6.083
32	MP BETA3	X	.045	1.917
33	MP GAMMA3	Y	-.015	6.083
34	MP GAMMA3	Y	-.015	1.917
35	MP GAMMA3	X	.026	6.083
36	MP GAMMA3	X	.026	1.917
37	MP ALPHA1	Y	-.005	5.25
38	MP ALPHA1	Y	-.005	2.75
39	MP ALPHA1	X	.009	5.25
40	MP ALPHA1	X	.009	2.75
41	MP BETA1	Y	-.008	5.25
42	MP BETA1	Y	-.008	2.75
43	MP BETA1	X	.014	5.25
44	MP BETA1	X	.014	2.75
45	MP GAMMA1	Y	-.005	5.25
46	MP GAMMA1	Y	-.005	2.75
47	MP GAMMA1	X	.009	5.25
48	MP GAMMA1	X	.009	2.75
49	MP ALPHA4	Y	-.005	4
50	MP ALPHA4	X	.008	4
51	MP BETA4	Y	-.006	4
52	MP BETA4	X	.01	4
53	MP GAMMA4	Y	-.005	4
54	MP GAMMA4	X	.008	4
55	MP ALPHA3	Y	-.004	4
56	MP ALPHA3	X	.007	4
57	MP BETA3	Y	-.005	4
58	MP BETA3	X	.009	4
59	MP GAMMA3	Y	-.004	4
60	MP GAMMA3	X	.007	4
61	MP ALPHA3	Y	-.004	4
62	MP ALPHA3	X	.007	4
63	MP BETA3	Y	-.005	4
64	MP BETA3	X	.008	4
65	MP GAMMA3	Y	-.004	4
66	MP GAMMA3	X	.007	4
67	MP ALPHA2	Y	-.000658	4
68	MP ALPHA2	X	.001	4
69	MP BETA2	Y	-.000874	4
70	MP BETA2	X	.002	4
71	MP GAMMA2	Y	-.000658	4
72	MP GAMMA2	X	.001	4
73	MP ALPHA1	Y	-.005	4
74	MP ALPHA1	X	.008	4
75	MP BETA1	Y	-.005	4
76	MP BETA1	X	.009	4
77	MP GAMMA1	Y	-.005	4
78	MP GAMMA1	X	.008	4
79	MP ALPHA2	Y	-.008	4
80	MP ALPHA2	X	.014	4
81	MP ALPHA3	Y	-.008	4
82	MP ALPHA3	X	.014	4

Member Point Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
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Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-038	6.083
2	MP ALPHA4	Y	-038	1.917
3	MP ALPHA4	X	.022	6.083
4	MP ALPHA4	X	.022	1.917
5	MP BETA4	Y	-038	6.083
6	MP BETA4	Y	-038	1.917
7	MP BETA4	X	.022	6.083
8	MP BETA4	X	.022	1.917
9	MP GAMMA4	Y	-.019	6.083
10	MP GAMMA4	Y	-.019	1.917
11	MP GAMMA4	X	.011	6.083
12	MP GAMMA4	X	.011	1.917
13	MP ALPHA2	Y	-.032	6.083
14	MP ALPHA2	Y	-.032	1.917
15	MP ALPHA2	X	.018	6.083
16	MP ALPHA2	X	.018	1.917
17	MP BETA2	Y	-.032	6.083
18	MP BETA2	Y	-.032	1.917
19	MP BETA2	X	.018	6.083
20	MP BETA2	X	.018	1.917
21	MP GAMMA2	Y	-.02	6.083
22	MP GAMMA2	Y	-.02	1.917
23	MP GAMMA2	X	.012	6.083
24	MP GAMMA2	X	.012	1.917
25	MP ALPHA3	Y	-.038	6.083
26	MP ALPHA3	Y	-.038	1.917
27	MP ALPHA3	X	.022	6.083
28	MP ALPHA3	X	.022	1.917
29	MP BETA3	Y	-.038	6.083
30	MP BETA3	Y	-.038	1.917
31	MP BETA3	X	.022	6.083
32	MP BETA3	X	.022	1.917
33	MP GAMMA3	Y	-.019	6.083
34	MP GAMMA3	Y	-.019	1.917
35	MP GAMMA3	X	.011	6.083
36	MP GAMMA3	X	.011	1.917
37	MP ALPHA1	Y	-.012	5.25
38	MP ALPHA1	Y	-.012	2.75
39	MP ALPHA1	X	.007	5.25
40	MP ALPHA1	X	.007	2.75
41	MP BETA1	Y	-.012	5.25
42	MP BETA1	Y	-.012	2.75
43	MP BETA1	X	.007	5.25
44	MP BETA1	X	.007	2.75
45	MP GAMMA1	Y	-.008	5.25
46	MP GAMMA1	Y	-.008	2.75
47	MP GAMMA1	X	.004	5.25
48	MP GAMMA1	X	.004	2.75
49	MP ALPHA4	Y	-.009	4
50	MP ALPHA4	X	.005	4
51	MP BETA4	Y	-.009	4
52	MP BETA4	X	.005	4
53	MP GAMMA4	Y	-.007	4
54	MP GAMMA4	X	.004	4
55	MP ALPHA3	Y	-.008	4
56	MP ALPHA3	X	.005	4
57	MP BETA3	Y	-.008	4



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Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA3	X	.005	4
59	MP GAMMA3	Y	-.006	4
60	MP GAMMA3	X	.003	4
61	MP ALPHA3	Y	-.008	4
62	MP ALPHA3	X	.005	4
63	MP BETA3	Y	-.008	4
64	MP BETA3	X	.005	4
65	MP GAMMA3	Y	-.007	4
66	MP GAMMA3	X	.004	4
67	MP ALPHA2	Y	-.001	4
68	MP ALPHA2	X	.000802	4
69	MP BETA2	Y	-.001	4
70	MP BETA2	X	.000802	4
71	MP GAMMA2	Y	-.001	4
72	MP GAMMA2	X	.000587	4
73	MP ALPHA1	Y	-.009	4
74	MP ALPHA1	X	.005	4
75	MP BETA1	Y	-.009	4
76	MP BETA1	X	.005	4
77	MP GAMMA1	Y	-.008	4
78	MP GAMMA1	X	.005	4
79	MP ALPHA2	Y	-.014	4
80	MP ALPHA2	X	.008	4
81	MP ALPHA3	Y	-.014	4
82	MP ALPHA3	X	.008	4

Member Point Loads (BLC 40 : Earthquake (x-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-.005	6.083
2	MP ALPHA4	X	-.005	1.917
3	MP BETA4	X	-.005	6.083
4	MP BETA4	X	-.005	1.917
5	MP GAMMA4	X	-.005	6.083
6	MP GAMMA4	X	-.005	1.917
7	MP ALPHA2	X	-.003	6.083
8	MP ALPHA2	X	-.003	1.917
9	MP BETA2	X	-.003	6.083
10	MP BETA2	X	-.003	1.917
11	MP GAMMA2	X	-.003	6.083
12	MP GAMMA2	X	-.003	1.917
13	MP ALPHA3	X	-.003	6.083
14	MP ALPHA3	X	-.003	1.917
15	MP BETA3	X	-.003	6.083
16	MP BETA3	X	-.003	1.917
17	MP GAMMA3	X	-.003	6.083
18	MP GAMMA3	X	-.003	1.917
19	MP ALPHA1	X	-.002	5.25
20	MP ALPHA1	X	-.002	2.75
21	MP BETA1	X	-.002	5.25
22	MP BETA1	X	-.002	2.75
23	MP GAMMA1	X	-.002	5.25
24	MP GAMMA1	X	-.002	2.75
25	MP ALPHA4	X	-.008	4
26	MP BETA4	X	-.008	4
27	MP GAMMA4	X	-.008	4
28	MP ALPHA3	X	-.007	4



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Member Point Loads (BLC 40 : Earthquake (x-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
29	MP BETA3	X	-0.07	4
30	MP GAMMA3	X	-0.07	4
31	MP ALPHA3	X	-0.08	4
32	MP BETA3	X	-0.08	4
33	MP GAMMA3	X	-0.08	4
34	MP ALPHA2	X	-0.0022	4
35	MP BETA2	X	-0.0022	4
36	MP GAMMA2	X	-0.0022	4
37	MP ALPHA1	X	-0.05	4
38	MP BETA1	X	-0.05	4
39	MP GAMMA1	X	-0.05	4
40	MP ALPHA2	X	-0.04	4
41	MP ALPHA3	X	-0.04	4

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Y	-0.05	6.083
2	MP ALPHA4	Y	-0.05	1.917
3	MP BETA4	Y	-0.05	6.083
4	MP BETA4	Y	-0.05	1.917
5	MP GAMMA4	Y	-0.05	6.083
6	MP GAMMA4	Y	-0.05	1.917
7	MP ALPHA2	Y	-0.03	6.083
8	MP ALPHA2	Y	-0.03	1.917
9	MP BETA2	Y	-0.03	6.083
10	MP BETA2	Y	-0.03	1.917
11	MP GAMMA2	Y	-0.03	6.083
12	MP GAMMA2	Y	-0.03	1.917
13	MP ALPHA3	Y	-0.03	6.083
14	MP ALPHA3	Y	-0.03	1.917
15	MP BETA3	Y	-0.03	6.083
16	MP BETA3	Y	-0.03	1.917
17	MP GAMMA3	Y	-0.03	6.083
18	MP GAMMA3	Y	-0.03	1.917
19	MP ALPHA1	Y	-0.02	5.25
20	MP ALPHA1	Y	-0.02	2.75
21	MP BETA1	Y	-0.02	5.25
22	MP BETA1	Y	-0.02	2.75
23	MP GAMMA1	Y	-0.02	5.25
24	MP GAMMA1	Y	-0.02	2.75
25	MP ALPHA4	Y	-0.08	4
26	MP BETA4	Y	-0.08	4
27	MP GAMMA4	Y	-0.08	4
28	MP ALPHA3	Y	-0.07	4
29	MP BETA3	Y	-0.07	4
30	MP GAMMA3	Y	-0.07	4
31	MP ALPHA3	Y	-0.08	4
32	MP BETA3	Y	-0.08	4
33	MP GAMMA3	Y	-0.08	4
34	MP ALPHA2	Y	-0.0022	4
35	MP BETA2	Y	-0.0022	4
36	MP GAMMA2	Y	-0.0022	4
37	MP ALPHA1	Y	-0.05	4
38	MP BETA1	Y	-0.05	4
39	MP GAMMA1	Y	-0.05	4
40	MP ALPHA2	Y	-0.04	4



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Member Point Loads (BLC 41 : Earthquake (y-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
41	MP ALPHA3	Y	-0.04	4

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA4	Z	-0.02	6.083
2	MP ALPHA4	Z	-0.02	1.917
3	MP BETA4	Z	-0.02	6.083
4	MP BETA4	Z	-0.02	1.917
5	MP GAMMA4	Z	-0.02	6.083
6	MP GAMMA4	Z	-0.02	1.917
7	MP ALPHA2	Z	-0.01	6.083
8	MP ALPHA2	Z	-0.01	1.917
9	MP BETA2	Z	-0.01	6.083
10	MP BETA2	Z	-0.01	1.917
11	MP GAMMA2	Z	-0.01	6.083
12	MP GAMMA2	Z	-0.01	1.917
13	MP ALPHA3	Z	-0.01	6.083
14	MP ALPHA3	Z	-0.01	1.917
15	MP BETA3	Z	-0.01	6.083
16	MP BETA3	Z	-0.01	1.917
17	MP GAMMA3	Z	-0.01	6.083
18	MP GAMMA3	Z	-0.01	1.917
19	MP ALPHA1	Z	-0.000769	5.25
20	MP ALPHA1	Z	-0.000769	2.75
21	MP BETA1	Z	-0.000769	5.25
22	MP BETA1	Z	-0.000769	2.75
23	MP GAMMA1	Z	-0.000769	5.25
24	MP GAMMA1	Z	-0.000769	2.75
25	MP ALPHA4	Z	-0.003	4
26	MP BETA4	Z	-0.003	4
27	MP GAMMA4	Z	-0.003	4
28	MP ALPHA3	Z	-0.003	4
29	MP BETA3	Z	-0.003	4
30	MP GAMMA3	Z	-0.003	4
31	MP ALPHA3	Z	-0.003	4
32	MP BETA3	Z	-0.003	4
33	MP GAMMA3	Z	-0.003	4
34	MP ALPHA2	Z	-8.8e-5	4
35	MP BETA2	Z	-8.8e-5	4
36	MP GAMMA2	Z	-8.8e-5	4
37	MP ALPHA1	Z	-0.002	4
38	MP BETA1	Z	-0.002	4
39	MP GAMMA1	Z	-0.002	4
40	MP ALPHA2	Z	-0.001	4
41	MP ALPHA3	Z	-0.001	4

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

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...]	Start Location[ft, %]	End Location[ft, %]
1	tab18	PY	-0.002	-0.002	0	0
2	tab17	PY	-0.002	-0.002	0	0
3	tab16	PY	-0.002	-0.002	0	0
4	tab15	PY	-0.002	-0.002	0	0
5	tab14	PY	-0.002	-0.002	0	0
6	tab13	PY	-0.002	-0.002	0	0
7	tab12	PY	-0.002	-0.002	0	0



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]	
8	tab11	PY	-0.02	-0.02	0	0
9	tab10	PY	-0.02	-0.02	0	0
10	tab9	PY	-0.02	-0.02	0	0
11	tab8	PY	-0.02	-0.02	0	0
12	tab7	PY	-0.02	-0.02	0	0
13	tab6	PY	-0.02	-0.02	0	0
14	VERT12	PY	-0.03	-0.03	0	0
15	VERT11	PY	-0.03	-0.03	0	0
16	VERT10	PY	-0.03	-0.03	0	0
17	VERT9	PY	-0.03	-0.03	0	0
18	VERT8	PY	-0.06	-0.06	0	0
19	VERT7	PY	-0.06	-0.06	0	0
20	VERT6	PY	-0.06	-0.06	0	0
21	VERT5	PY	-0.06	-0.06	0	0
22	VERT4	PY	-0.06	-0.06	0	0
23	VERT3	PY	-0.06	-0.06	0	0
24	VERT2	PY	-0.06	-0.06	0	0
25	VERT1	PY	-0.06	-0.06	0	0
26	Tab5	PY	-0.02	-0.02	0	0
27	Tab4	PY	-0.02	-0.02	0	0
28	Tab3	PY	-0.02	-0.02	0	0
29	Tab2	PY	-0.02	-0.02	0	0
30	Tab1	PY	-0.02	-0.02	0	0
31	SO3	PY	-0.09	-0.09	0	0
32	SO2	PY	-0.09	-0.09	0	0
33	SO1	PY	-0.09	-0.09	0	0
34	RAIL3	PY	-0.02	-0.02	0	0
35	RAIL2	PY	-0.04	-0.04	0	0
36	RAIL1	PY	-0.04	-0.04	0	0
37	PLATE3	PY	-0.02	-0.02	0	0
38	PLATE2	PY	-0.02	-0.02	0	0
39	PLATE1	PY	-0.02	-0.02	0	0
40	PIPE3	PY	-0.1	-0.1	0	0
41	PIPE2	PY	-0.1	-0.1	0	0
42	PIPE1	PY	-0.1	-0.1	0	0
43	MP GAMMA4	PY	-0.1	-0.1	0	0
44	MP GAMMA3	PY	-0.1	-0.1	0	0
45	MP GAMMA2	PY	-0.1	-0.1	0	0
46	MP GAMMA1	PY	-0.1	-0.1	0	0
47	MP BETA4	PY	-0.1	-0.1	0	0
48	MP BETA3	PY	-0.1	-0.1	0	0
49	MP BETA2	PY	-0.1	-0.1	0	0
50	MP BETA1	PY	-0.1	-0.1	0	0
51	MP ALPHA4	PY	-0.1	-0.1	0	0
52	MP ALPHA3	PY	-0.1	-0.1	0	0
53	MP ALPHA2	PY	-0.1	-0.1	0	0
54	MP ALPHA1	PY	-0.1	-0.1	0	0
55	MID RAIL3	PY	-0.09	-0.09	0	0
56	MID RAIL2	PY	-0.18	-0.18	0	0
57	MID RAIL1	PY	-0.18	-0.18	0	0
58	FACE3	PY	-0.06	-0.06	0	0
59	FACE2	PY	-0.13	-0.13	0	0
60	FACE1	PY	-0.13	-0.13	0	0
61	M112	PY	-0.06	-0.06	0	0
62	M113	PY	-0.06	-0.06	0	0
63	M114	PY	-0.06	-0.06	0	0
64	NEW RAIL1	PY	-0.04	-0.04	0	0



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

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
65	NEW RAIL3	PY	-0.04	-0.04	0	0
66	NEW RAIL2	PY	-0.04	-0.04	0	0
67	SK2	PY	-0.04	-0.04	0	0
68	SK1	PY	-0.04	-0.04	0	0
69	SK6	PY	-0.04	-0.04	0	0
70	SK5	PY	-0.04	-0.04	0	0
71	SK4	PY	-0.04	-0.04	0	0
72	SK3	PY	-0.04	-0.04	0	0
73	BRACE1	PY	-0.04	-0.04	0	0
74	BRACE3	PY	-0.04	-0.04	0	0
75	BRACE2	PY	-0.04	-0.04	0	0

Member Distributed Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-0.02	-0.02	0	0
2	tab17	PY	-0.02	-0.02	0	0
3	tab16	PY	-0.02	-0.02	0	0
4	tab15	PY	-0.02	-0.02	0	0
5	tab14	PY	-0.02	-0.02	0	0
6	tab13	PY	-0.02	-0.02	0	0
7	tab12	PY	-0.02	-0.02	0	0
8	tab11	PY	-0.02	-0.02	0	0
9	tab10	PY	-0.02	-0.02	0	0
10	tab9	PY	-0.02	-0.02	0	0
11	tab8	PY	-0.02	-0.02	0	0
12	tab7	PY	-0.02	-0.02	0	0
13	tab6	PY	-0.02	-0.02	0	0
14	VERT12	PY	-0.03	-0.03	0	0
15	VERT11	PY	-0.03	-0.03	0	0
16	VERT10	PY	-0.03	-0.03	0	0
17	VERT9	PY	-0.03	-0.03	0	0
18	VERT8	PY	-0.05	-0.05	0	0
19	VERT7	PY	-0.05	-0.05	0	0
20	VERT6	PY	-0.05	-0.05	0	0
21	VERT5	PY	-0.05	-0.05	0	0
22	VERT4	PY	-0.05	-0.05	0	0
23	VERT3	PY	-0.05	-0.05	0	0
24	VERT2	PY	-0.05	-0.05	0	0
25	VERT1	PY	-0.05	-0.05	0	0
26	Tab5	PY	-0.02	-0.02	0	0
27	Tab4	PY	-0.02	-0.02	0	0
28	Tab3	PY	-0.02	-0.02	0	0
29	Tab2	PY	-0.02	-0.02	0	0
30	Tab1	PY	-0.02	-0.02	0	0
31	SO3	PY	-0.08	-0.08	0	0
32	SO2	PY	-0.08	-0.08	0	0
33	SO1	PY	-0.08	-0.08	0	0
34	RAIL3	PY	-0.02	-0.02	0	0
35	RAIL2	PY	-0.03	-0.03	0	0
36	RAIL1	PY	-0.03	-0.03	0	0
37	PLATE3	PY	-0.02	-0.02	0	0
38	PLATE2	PY	-0.02	-0.02	0	0
39	PLATE1	PY	-0.02	-0.02	0	0
40	PIPE3	PY	-0.09	-0.09	0	0
41	PIPE2	PY	-0.09	-0.09	0	0
42	PIPE1	PY	-0.09	-0.09	0	0



Company : POD
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Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
43	MP GAMMA4	PY	-0.009	-0.009	0 0
44	MP GAMMA3	PY	-0.009	-0.009	0 0
45	MP GAMMA2	PY	-0.009	-0.009	0 0
46	MP GAMMA1	PY	-0.009	-0.009	0 0
47	MP BETA4	PY	-0.009	-0.009	0 0
48	MP BETA3	PY	-0.009	-0.009	0 0
49	MP BETA2	PY	-0.009	-0.009	0 0
50	MP BETA1	PY	-0.009	-0.009	0 0
51	MP ALPHA4	PY	-0.009	-0.009	0 0
52	MP ALPHA3	PY	-0.009	-0.009	0 0
53	MP ALPHA2	PY	-0.009	-0.009	0 0
54	MP ALPHA1	PY	-0.009	-0.009	0 0
55	MID RAIL3	PY	-0.008	-0.008	0 0
56	MID RAIL2	PY	-0.016	-0.016	0 0
57	MID RAIL1	PY	-0.016	-0.016	0 0
58	FACE3	PY	-0.006	-0.006	0 0
59	FACE2	PY	-0.011	-0.011	0 0
60	FACE1	PY	-0.011	-0.011	0 0
61	tab18	PX	-0.00091	-0.00091	0 0
62	tab17	PX	-0.00091	-0.00091	0 0
63	tab16	PX	-0.00091	-0.00091	0 0
64	tab15	PX	-0.00091	-0.00091	0 0
65	tab14	PX	-0.00091	-0.00091	0 0
66	tab13	PX	-0.00091	-0.00091	0 0
67	tab12	PX	-0.00091	-0.00091	0 0
68	tab11	PX	-0.00091	-0.00091	0 0
69	tab10	PX	-0.00091	-0.00091	0 0
70	tab9	PX	-0.00091	-0.00091	0 0
71	tab8	PX	-0.00091	-0.00091	0 0
72	tab7	PX	-0.00091	-0.00091	0 0
73	tab6	PX	-0.00091	-0.00091	0 0
74	VERT12	PX	-0.002	-0.002	0 0
75	VERT11	PX	-0.002	-0.002	0 0
76	VERT10	PX	-0.002	-0.002	0 0
77	VERT9	PX	-0.002	-0.002	0 0
78	VERT8	PX	-0.003	-0.003	0 0
79	VERT7	PX	-0.003	-0.003	0 0
80	VERT6	PX	-0.003	-0.003	0 0
81	VERT5	PX	-0.003	-0.003	0 0
82	VERT4	PX	-0.003	-0.003	0 0
83	VERT3	PX	-0.003	-0.003	0 0
84	VERT2	PX	-0.003	-0.003	0 0
85	VERT1	PX	-0.003	-0.003	0 0
86	Tab5	PX	-0.00091	-0.00091	0 0
87	Tab4	PX	-0.00091	-0.00091	0 0
88	Tab3	PX	-0.00091	-0.00091	0 0
89	Tab2	PX	-0.00091	-0.00091	0 0
90	Tab1	PX	-0.00091	-0.00091	0 0
91	SO3	PX	-0.005	-0.005	0 0
92	SO2	PX	-0.005	-0.005	0 0
93	SO1	PX	-0.005	-0.005	0 0
94	RAIL3	PX	-0.00091	-0.00091	0 0
95	RAIL2	PX	-0.002	-0.002	0 0
96	RAIL1	PX	-0.002	-0.002	0 0
97	PLATE3	PX	-0.00091	-0.00091	0 0
98	PLATE2	PX	-0.00091	-0.00091	0 0
99	PLATE1	PX	-0.00091	-0.00091	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
100	PIPE3	PX	-0.05	-0.05	0	0
101	PIPE2	PX	-0.05	-0.05	0	0
102	PIPE1	PX	-0.05	-0.05	0	0
103	MP GAMMA4	PX	-0.05	-0.05	0	0
104	MP GAMMA3	PX	-0.05	-0.05	0	0
105	MP GAMMA2	PX	-0.05	-0.05	0	0
106	MP GAMMA1	PX	-0.05	-0.05	0	0
107	MP BETA4	PX	-0.05	-0.05	0	0
108	MP BETA3	PX	-0.05	-0.05	0	0
109	MP BETA2	PX	-0.05	-0.05	0	0
110	MP BETA1	PX	-0.05	-0.05	0	0
111	MP ALPHA4	PX	-0.05	-0.05	0	0
112	MP ALPHA3	PX	-0.05	-0.05	0	0
113	MP ALPHA2	PX	-0.05	-0.05	0	0
114	MP ALPHA1	PX	-0.05	-0.05	0	0
115	MID RAIL3	PX	-0.05	-0.05	0	0
116	MID RAIL2	PX	-0.09	-0.09	0	0
117	MID RAIL1	PX	-0.09	-0.09	0	0
118	FACE3	PX	-0.03	-0.03	0	0
119	FACE2	PX	-0.06	-0.06	0	0
120	FACE1	PX	-0.06	-0.06	0	0
121	M112	PY	-0.05	-0.05	0	0
122	M112	PX	-0.03	-0.03	0	0
123	M113	PY	-0.05	-0.05	0	0
124	M113	PX	-0.03	-0.03	0	0
125	M114	PY	-0.05	-0.05	0	0
126	M114	PX	-0.03	-0.03	0	0
127	NEW RAIL1	PY	-0.03	-0.03	0	0
128	NEW RAIL1	PX	-0.02	-0.02	0	0
129	NEW RAIL3	PY	-0.03	-0.03	0	0
130	NEW RAIL3	PX	-0.02	-0.02	0	0
131	NEW RAIL2	PY	-0.03	-0.03	0	0
132	NEW RAIL2	PX	-0.02	-0.02	0	0
133	SK2	PY	-0.03	-0.03	0	0
134	SK2	PX	-0.02	-0.02	0	0
135	SK1	PY	-0.03	-0.03	0	0
136	SK1	PX	-0.02	-0.02	0	0
137	SK6	PY	-0.03	-0.03	0	0
138	SK6	PX	-0.02	-0.02	0	0
139	SK5	PY	-0.03	-0.03	0	0
140	SK5	PX	-0.02	-0.02	0	0
141	SK4	PY	-0.03	-0.03	0	0
142	SK4	PX	-0.02	-0.02	0	0
143	SK3	PY	-0.03	-0.03	0	0
144	SK3	PX	-0.02	-0.02	0	0
145	BRACE1	PY	-0.03	-0.03	0	0
146	BRACE1	PX	-0.02	-0.02	0	0
147	BRACE3	PY	-0.03	-0.03	0	0
148	BRACE3	PX	-0.02	-0.02	0	0
149	BRACE2	PY	-0.03	-0.03	0	0
150	BRACE2	PX	-0.02	-0.02	0	0

Member Distributed Loads (BLC 5 : Wind Load (60))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
1	tab18	PY	-0.0091	-0.0091	0	0
2	tab17	PY	-0.0091	-0.0091	0	0



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Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
3	tab16	PY	-0.0091	-0.0091	0	0
4	tab15	PY	-0.0091	-0.0091	0	0
5	tab14	PY	-0.0091	-0.0091	0	0
6	tab13	PY	-0.0091	-0.0091	0	0
7	tab12	PY	-0.0091	-0.0091	0	0
8	tab11	PY	-0.0091	-0.0091	0	0
9	tab10	PY	-0.0091	-0.0091	0	0
10	tab9	PY	-0.0091	-0.0091	0	0
11	tab8	PY	-0.0091	-0.0091	0	0
12	tab7	PY	-0.0091	-0.0091	0	0
13	tab6	PY	-0.0091	-0.0091	0	0
14	VERT12	PY	-0.002	-0.002	0	0
15	VERT11	PY	-0.002	-0.002	0	0
16	VERT10	PY	-0.002	-0.002	0	0
17	VERT9	PY	-0.002	-0.002	0	0
18	VERT8	PY	-0.003	-0.003	0	0
19	VERT7	PY	-0.003	-0.003	0	0
20	VERT6	PY	-0.003	-0.003	0	0
21	VERT5	PY	-0.003	-0.003	0	0
22	VERT4	PY	-0.003	-0.003	0	0
23	VERT3	PY	-0.003	-0.003	0	0
24	VERT2	PY	-0.003	-0.003	0	0
25	VERT1	PY	-0.003	-0.003	0	0
26	Tab5	PY	-0.0091	-0.0091	0	0
27	Tab4	PY	-0.0091	-0.0091	0	0
28	Tab3	PY	-0.0091	-0.0091	0	0
29	Tab2	PY	-0.0091	-0.0091	0	0
30	Tab1	PY	-0.0091	-0.0091	0	0
31	SO3	PY	-0.005	-0.005	0	0
32	SO2	PY	-0.005	-0.005	0	0
33	SO1	PY	-0.005	-0.005	0	0
34	RAIL3	PY	-0.0091	-0.0091	0	0
35	RAIL2	PY	-0.002	-0.002	0	0
36	RAIL1	PY	-0.002	-0.002	0	0
37	PLATE3	PY	-0.0091	-0.0091	0	0
38	PLATE2	PY	-0.0091	-0.0091	0	0
39	PLATE1	PY	-0.0091	-0.0091	0	0
40	PIPE3	PY	-0.005	-0.005	0	0
41	PIPE2	PY	-0.005	-0.005	0	0
42	PIPE1	PY	-0.005	-0.005	0	0
43	MP GAMMA4	PY	-0.005	-0.005	0	0
44	MP GAMMA3	PY	-0.005	-0.005	0	0
45	MP GAMMA2	PY	-0.005	-0.005	0	0
46	MP GAMMA1	PY	-0.005	-0.005	0	0
47	MP BETA4	PY	-0.005	-0.005	0	0
48	MP BETA3	PY	-0.005	-0.005	0	0
49	MP BETA2	PY	-0.005	-0.005	0	0
50	MP BETA1	PY	-0.005	-0.005	0	0
51	MP ALPHA4	PY	-0.005	-0.005	0	0
52	MP ALPHA3	PY	-0.005	-0.005	0	0
53	MP ALPHA2	PY	-0.005	-0.005	0	0
54	MP ALPHA1	PY	-0.005	-0.005	0	0
55	MID RAIL3	PY	-0.005	-0.005	0	0
56	MID RAIL2	PY	-0.009	-0.009	0	0
57	MID RAIL1	PY	-0.009	-0.009	0	0
58	FACE3	PY	-0.003	-0.003	0	0
59	FACE2	PY	-0.006	-0.006	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
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Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
60	FACE1	PY	-0.006	-0.006	0	0
61	tab18	PX	-0.002	-0.002	0	0
62	tab17	PX	-0.002	-0.002	0	0
63	tab16	PX	-0.002	-0.002	0	0
64	tab15	PX	-0.002	-0.002	0	0
65	tab14	PX	-0.002	-0.002	0	0
66	tab13	PX	-0.002	-0.002	0	0
67	tab12	PX	-0.002	-0.002	0	0
68	tab11	PX	-0.002	-0.002	0	0
69	tab10	PX	-0.002	-0.002	0	0
70	tab9	PX	-0.002	-0.002	0	0
71	tab8	PX	-0.002	-0.002	0	0
72	tab7	PX	-0.002	-0.002	0	0
73	tab6	PX	-0.002	-0.002	0	0
74	VERT12	PX	-0.003	-0.003	0	0
75	VERT11	PX	-0.003	-0.003	0	0
76	VERT10	PX	-0.003	-0.003	0	0
77	VERT9	PX	-0.003	-0.003	0	0
78	VERT8	PX	-0.005	-0.005	0	0
79	VERT7	PX	-0.005	-0.005	0	0
80	VERT6	PX	-0.005	-0.005	0	0
81	VERT5	PX	-0.005	-0.005	0	0
82	VERT4	PX	-0.005	-0.005	0	0
83	VERT3	PX	-0.005	-0.005	0	0
84	VERT2	PX	-0.005	-0.005	0	0
85	VERT1	PX	-0.005	-0.005	0	0
86	Tab5	PX	-0.002	-0.002	0	0
87	Tab4	PX	-0.002	-0.002	0	0
88	Tab3	PX	-0.002	-0.002	0	0
89	Tab2	PX	-0.002	-0.002	0	0
90	Tab1	PX	-0.002	-0.002	0	0
91	SO3	PX	-0.008	-0.008	0	0
92	SO2	PX	-0.008	-0.008	0	0
93	SO1	PX	-0.008	-0.008	0	0
94	RAIL3	PX	-0.002	-0.002	0	0
95	RAIL2	PX	-0.003	-0.003	0	0
96	RAIL1	PX	-0.003	-0.003	0	0
97	PLATE3	PX	-0.002	-0.002	0	0
98	PLATE2	PX	-0.002	-0.002	0	0
99	PLATE1	PX	-0.002	-0.002	0	0
100	PIPE3	PX	-0.009	-0.009	0	0
101	PIPE2	PX	-0.009	-0.009	0	0
102	PIPE1	PX	-0.009	-0.009	0	0
103	MP GAMMA4	PX	-0.009	-0.009	0	0
104	MP GAMMA3	PX	-0.009	-0.009	0	0
105	MP GAMMA2	PX	-0.009	-0.009	0	0
106	MP GAMMA1	PX	-0.009	-0.009	0	0
107	MP BETA4	PX	-0.009	-0.009	0	0
108	MP BETA3	PX	-0.009	-0.009	0	0
109	MP BETA2	PX	-0.009	-0.009	0	0
110	MP BETA1	PX	-0.009	-0.009	0	0
111	MP ALPHA4	PX	-0.009	-0.009	0	0
112	MP ALPHA3	PX	-0.009	-0.009	0	0
113	MP ALPHA2	PX	-0.009	-0.009	0	0
114	MP ALPHA1	PX	-0.009	-0.009	0	0
115	MID RAIL3	PX	-0.008	-0.008	0	0
116	MID RAIL2	PX	-0.016	-0.016	0	0



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Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
117	MID RAIL1	PX	-.016	-.016	0	0
118	FACE3	PX	-.006	-.006	0	0
119	FACE2	PX	-.011	-.011	0	0
120	FACE1	PX	-.011	-.011	0	0
121	M112	PY	-.003	-.003	0	0
122	M112	PX	-.005	-.005	0	0
123	M113	PY	-.003	-.003	0	0
124	M113	PX	-.005	-.005	0	0
125	M114	PY	-.003	-.003	0	0
126	M114	PX	-.005	-.005	0	0
127	NEW RAIL1	PY	-.002	-.002	0	0
128	NEW RAIL1	PX	-.003	-.003	0	0
129	NEW RAIL3	PY	-.002	-.002	0	0
130	NEW RAIL3	PX	-.003	-.003	0	0
131	NEW RAIL2	PY	-.002	-.002	0	0
132	NEW RAIL2	PX	-.003	-.003	0	0
133	SK2	PY	-.002	-.002	0	0
134	SK2	PX	-.003	-.003	0	0
135	SK1	PY	-.002	-.002	0	0
136	SK1	PX	-.003	-.003	0	0
137	SK6	PY	-.002	-.002	0	0
138	SK6	PX	-.003	-.003	0	0
139	SK5	PY	-.002	-.002	0	0
140	SK5	PX	-.003	-.003	0	0
141	SK4	PY	-.002	-.002	0	0
142	SK4	PX	-.003	-.003	0	0
143	SK3	PY	-.002	-.002	0	0
144	SK3	PX	-.003	-.003	0	0
145	BRACE1	PY	-.002	-.002	0	0
146	BRACE1	PX	-.003	-.003	0	0
147	BRACE3	PY	-.002	-.002	0	0
148	BRACE3	PX	-.003	-.003	0	0
149	BRACE2	PY	-.002	-.002	0	0
150	BRACE2	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PX	-.002	-.002	0	0
2	tab17	PX	-.002	-.002	0	0
3	tab16	PX	-.002	-.002	0	0
4	tab15	PX	-.002	-.002	0	0
5	tab14	PX	-.002	-.002	0	0
6	tab13	PX	-.002	-.002	0	0
7	tab12	PX	-.002	-.002	0	0
8	tab11	PX	-.002	-.002	0	0
9	tab10	PX	-.002	-.002	0	0
10	tab9	PX	-.002	-.002	0	0
11	tab8	PX	-.002	-.002	0	0
12	tab7	PX	-.002	-.002	0	0
13	tab6	PX	-.002	-.002	0	0
14	VERT12	PX	-.003	-.003	0	0
15	VERT11	PX	-.003	-.003	0	0
16	VERT10	PX	-.003	-.003	0	0
17	VERT9	PX	-.003	-.003	0	0
18	VERT8	PX	-.006	-.006	0	0
19	VERT7	PX	-.006	-.006	0	0



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Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]	
20	VERT6	PX	-0.06	-0.06	0	0
21	VERT5	PX	-0.06	-0.06	0	0
22	VERT4	PX	-0.06	-0.06	0	0
23	VERT3	PX	-0.06	-0.06	0	0
24	VERT2	PX	-0.06	-0.06	0	0
25	VERT1	PX	-0.06	-0.06	0	0
26	Tab5	PX	-0.02	-0.02	0	0
27	Tab4	PX	-0.02	-0.02	0	0
28	Tab3	PX	-0.02	-0.02	0	0
29	Tab2	PX	-0.02	-0.02	0	0
30	Tab1	PX	-0.02	-0.02	0	0
31	SO3	PX	-0.09	-0.09	0	0
32	SO2	PX	-0.09	-0.09	0	0
33	SO1	PX	-0.09	-0.09	0	0
34	RAIL3	PX	-0.02	-0.02	0	0
35	RAIL2	PX	-0.04	-0.04	0	0
36	RAIL1	PX	-0.04	-0.04	0	0
37	PLATE3	PX	-0.02	-0.02	0	0
38	PLATE2	PX	-0.02	-0.02	0	0
39	PLATE1	PX	-0.02	-0.02	0	0
40	PIPE3	PX	-0.01	-0.01	0	0
41	PIPE2	PX	-0.01	-0.01	0	0
42	PIPE1	PX	-0.01	-0.01	0	0
43	MP GAMMA4	PX	-0.01	-0.01	0	0
44	MP GAMMA3	PX	-0.01	-0.01	0	0
45	MP GAMMA2	PX	-0.01	-0.01	0	0
46	MP GAMMA1	PX	-0.01	-0.01	0	0
47	MP BETA4	PX	-0.01	-0.01	0	0
48	MP BETA3	PX	-0.01	-0.01	0	0
49	MP BETA2	PX	-0.01	-0.01	0	0
50	MP BETA1	PX	-0.01	-0.01	0	0
51	MP ALPHA4	PX	-0.01	-0.01	0	0
52	MP ALPHA3	PX	-0.01	-0.01	0	0
53	MP ALPHA2	PX	-0.01	-0.01	0	0
54	MP ALPHA1	PX	-0.01	-0.01	0	0
55	MID RAIL3	PX	-0.09	-0.09	0	0
56	MID RAIL2	PX	-0.18	-0.18	0	0
57	MID RAIL1	PX	-0.18	-0.18	0	0
58	FACE3	PX	-0.06	-0.06	0	0
59	FACE2	PX	-0.13	-0.13	0	0
60	FACE1	PX	-0.13	-0.13	0	0
61	M112	PX	-0.06	-0.06	0	0
62	M113	PX	-0.06	-0.06	0	0
63	M114	PX	-0.06	-0.06	0	0
64	NEW RAIL1	PX	-0.04	-0.04	0	0
65	NEW RAIL3	PX	-0.04	-0.04	0	0
66	NEW RAIL2	PX	-0.04	-0.04	0	0
67	SK2	PX	-0.04	-0.04	0	0
68	SK1	PX	-0.04	-0.04	0	0
69	SK6	PX	-0.04	-0.04	0	0
70	SK5	PX	-0.04	-0.04	0	0
71	SK4	PX	-0.04	-0.04	0	0
72	SK3	PX	-0.04	-0.04	0	0
73	BRACE1	PX	-0.04	-0.04	0	0
74	BRACE3	PX	-0.04	-0.04	0	0
75	BRACE2	PX	-0.04	-0.04	0	0



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Member Distributed Loads (BLC 7 : Wind Load (120))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
1	tab18	PY	.00091	.00091	0 0
2	tab17	PY	.00091	.00091	0 0
3	tab16	PY	.00091	.00091	0 0
4	tab15	PY	.00091	.00091	0 0
5	tab14	PY	.00091	.00091	0 0
6	tab13	PY	.00091	.00091	0 0
7	tab12	PY	.00091	.00091	0 0
8	tab11	PY	.00091	.00091	0 0
9	tab10	PY	.00091	.00091	0 0
10	tab9	PY	.00091	.00091	0 0
11	tab8	PY	.00091	.00091	0 0
12	tab7	PY	.00091	.00091	0 0
13	tab6	PY	.00091	.00091	0 0
14	VERT12	PY	.002	.002	0 0
15	VERT11	PY	.002	.002	0 0
16	VERT10	PY	.002	.002	0 0
17	VERT9	PY	.002	.002	0 0
18	VERT8	PY	.003	.003	0 0
19	VERT7	PY	.003	.003	0 0
20	VERT6	PY	.003	.003	0 0
21	VERT5	PY	.003	.003	0 0
22	VERT4	PY	.003	.003	0 0
23	VERT3	PY	.003	.003	0 0
24	VERT2	PY	.003	.003	0 0
25	VERT1	PY	.003	.003	0 0
26	Tab5	PY	.00091	.00091	0 0
27	Tab4	PY	.00091	.00091	0 0
28	Tab3	PY	.00091	.00091	0 0
29	Tab2	PY	.00091	.00091	0 0
30	Tab1	PY	.00091	.00091	0 0
31	SO3	PY	.005	.005	0 0
32	SO2	PY	.005	.005	0 0
33	SO1	PY	.005	.005	0 0
34	RAIL3	PY	.00091	.00091	0 0
35	RAIL2	PY	.002	.002	0 0
36	RAIL1	PY	.002	.002	0 0
37	PLATE3	PY	.00091	.00091	0 0
38	PLATE2	PY	.00091	.00091	0 0
39	PLATE1	PY	.00091	.00091	0 0
40	PIPE3	PY	.005	.005	0 0
41	PIPE2	PY	.005	.005	0 0
42	PIPE1	PY	.005	.005	0 0
43	MP GAMMA4	PY	.005	.005	0 0
44	MP GAMMA3	PY	.005	.005	0 0
45	MP GAMMA2	PY	.005	.005	0 0
46	MP GAMMA1	PY	.005	.005	0 0
47	MP BETA4	PY	.005	.005	0 0
48	MP BETA3	PY	.005	.005	0 0
49	MP BETA2	PY	.005	.005	0 0
50	MP BETA1	PY	.005	.005	0 0
51	MP ALPHA4	PY	.005	.005	0 0
52	MP ALPHA3	PY	.005	.005	0 0
53	MP ALPHA2	PY	.005	.005	0 0
54	MP ALPHA1	PY	.005	.005	0 0
55	MID RAIL3	PY	.005	.005	0 0
56	MID RAIL2	PY	.009	.009	0 0
57	MID RAIL1	PY	.009	.009	0 0



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Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
58	FACE3	PY	.003	.003	0	0
59	FACE2	PY	.006	.006	0	0
60	FACE1	PY	.006	.006	0	0
61	tab18	PX	-.002	-.002	0	0
62	tab17	PX	-.002	-.002	0	0
63	tab16	PX	-.002	-.002	0	0
64	tab15	PX	-.002	-.002	0	0
65	tab14	PX	-.002	-.002	0	0
66	tab13	PX	-.002	-.002	0	0
67	tab12	PX	-.002	-.002	0	0
68	tab11	PX	-.002	-.002	0	0
69	tab10	PX	-.002	-.002	0	0
70	tab9	PX	-.002	-.002	0	0
71	tab8	PX	-.002	-.002	0	0
72	tab7	PX	-.002	-.002	0	0
73	tab6	PX	-.002	-.002	0	0
74	VERT12	PX	-.003	-.003	0	0
75	VERT11	PX	-.003	-.003	0	0
76	VERT10	PX	-.003	-.003	0	0
77	VERT9	PX	-.003	-.003	0	0
78	VERT8	PX	-.005	-.005	0	0
79	VERT7	PX	-.005	-.005	0	0
80	VERT6	PX	-.005	-.005	0	0
81	VERT5	PX	-.005	-.005	0	0
82	VERT4	PX	-.005	-.005	0	0
83	VERT3	PX	-.005	-.005	0	0
84	VERT2	PX	-.005	-.005	0	0
85	VERT1	PX	-.005	-.005	0	0
86	Tab5	PX	-.002	-.002	0	0
87	Tab4	PX	-.002	-.002	0	0
88	Tab3	PX	-.002	-.002	0	0
89	Tab2	PX	-.002	-.002	0	0
90	Tab1	PX	-.002	-.002	0	0
91	SO3	PX	-.008	-.008	0	0
92	SO2	PX	-.008	-.008	0	0
93	SO1	PX	-.008	-.008	0	0
94	RAIL3	PX	-.002	-.002	0	0
95	RAIL2	PX	-.003	-.003	0	0
96	RAIL1	PX	-.003	-.003	0	0
97	PLATE3	PX	-.002	-.002	0	0
98	PLATE2	PX	-.002	-.002	0	0
99	PLATE1	PX	-.002	-.002	0	0
100	PIPE3	PX	-.009	-.009	0	0
101	PIPE2	PX	-.009	-.009	0	0
102	PIPE1	PX	-.009	-.009	0	0
103	MP GAMMA4	PX	-.009	-.009	0	0
104	MP GAMMA3	PX	-.009	-.009	0	0
105	MP GAMMA2	PX	-.009	-.009	0	0
106	MP GAMMA1	PX	-.009	-.009	0	0
107	MP BETA4	PX	-.009	-.009	0	0
108	MP BETA3	PX	-.009	-.009	0	0
109	MP BETA2	PX	-.009	-.009	0	0
110	MP BETA1	PX	-.009	-.009	0	0
111	MP ALPHA4	PX	-.009	-.009	0	0
112	MP ALPHA3	PX	-.009	-.009	0	0
113	MP ALPHA2	PX	-.009	-.009	0	0
114	MP ALPHA1	PX	-.009	-.009	0	0



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Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
115	MID RAIL3	PX	-.008	-.008	0	0
116	MID RAIL2	PX	-.016	-.016	0	0
117	MID RAIL1	PX	-.016	-.016	0	0
118	FACE3	PX	-.006	-.006	0	0
119	FACE2	PX	-.011	-.011	0	0
120	FACE1	PX	-.011	-.011	0	0
121	M112	PY	.003	.003	0	0
122	M112	PX	-.005	-.005	0	0
123	M113	PY	.003	.003	0	0
124	M113	PX	-.005	-.005	0	0
125	M114	PY	.003	.003	0	0
126	M114	PX	-.005	-.005	0	0
127	NEW RAIL1	PY	.002	.002	0	0
128	NEW RAIL1	PX	-.003	-.003	0	0
129	NEW RAIL3	PY	.002	.002	0	0
130	NEW RAIL3	PX	-.003	-.003	0	0
131	NEW RAIL2	PY	.002	.002	0	0
132	NEW RAIL2	PX	-.003	-.003	0	0
133	SK2	PY	.002	.002	0	0
134	SK2	PX	-.003	-.003	0	0
135	SK1	PY	.002	.002	0	0
136	SK1	PX	-.003	-.003	0	0
137	SK6	PY	.002	.002	0	0
138	SK6	PX	-.003	-.003	0	0
139	SK5	PY	.002	.002	0	0
140	SK5	PX	-.003	-.003	0	0
141	SK4	PY	.002	.002	0	0
142	SK4	PX	-.003	-.003	0	0
143	SK3	PY	.002	.002	0	0
144	SK3	PX	-.003	-.003	0	0
145	BRACE1	PY	.002	.002	0	0
146	BRACE1	PX	-.003	-.003	0	0
147	BRACE3	PY	.002	.002	0	0
148	BRACE3	PX	-.003	-.003	0	0
149	BRACE2	PY	.002	.002	0	0
150	BRACE2	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
1	tab18	PY	.002	.002	0	0
2	tab17	PY	.002	.002	0	0
3	tab16	PY	.002	.002	0	0
4	tab15	PY	.002	.002	0	0
5	tab14	PY	.002	.002	0	0
6	tab13	PY	.002	.002	0	0
7	tab12	PY	.002	.002	0	0
8	tab11	PY	.002	.002	0	0
9	tab10	PY	.002	.002	0	0
10	tab9	PY	.002	.002	0	0
11	tab8	PY	.002	.002	0	0
12	tab7	PY	.002	.002	0	0
13	tab6	PY	.002	.002	0	0
14	VERT12	PY	.003	.003	0	0
15	VERT11	PY	.003	.003	0	0
16	VERT10	PY	.003	.003	0	0
17	VERT9	PY	.003	.003	0	0



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Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
18	VERT8	PY	.005	.005	0 0
19	VERT7	PY	.005	.005	0 0
20	VERT6	PY	.005	.005	0 0
21	VERT5	PY	.005	.005	0 0
22	VERT4	PY	.005	.005	0 0
23	VERT3	PY	.005	.005	0 0
24	VERT2	PY	.005	.005	0 0
25	VERT1	PY	.005	.005	0 0
26	Tab5	PY	.002	.002	0 0
27	Tab4	PY	.002	.002	0 0
28	Tab3	PY	.002	.002	0 0
29	Tab2	PY	.002	.002	0 0
30	Tab1	PY	.002	.002	0 0
31	SO3	PY	.008	.008	0 0
32	SO2	PY	.008	.008	0 0
33	SO1	PY	.008	.008	0 0
34	RAIL3	PY	.002	.002	0 0
35	RAIL2	PY	.003	.003	0 0
36	RAIL1	PY	.003	.003	0 0
37	PLATE3	PY	.002	.002	0 0
38	PLATE2	PY	.002	.002	0 0
39	PLATE1	PY	.002	.002	0 0
40	PIPE3	PY	.009	.009	0 0
41	PIPE2	PY	.009	.009	0 0
42	PIPE1	PY	.009	.009	0 0
43	MP GAMMA4	PY	.009	.009	0 0
44	MP GAMMA3	PY	.009	.009	0 0
45	MP GAMMA2	PY	.009	.009	0 0
46	MP GAMMA1	PY	.009	.009	0 0
47	MP BETA4	PY	.009	.009	0 0
48	MP BETA3	PY	.009	.009	0 0
49	MP BETA2	PY	.009	.009	0 0
50	MP BETA1	PY	.009	.009	0 0
51	MP ALPHA4	PY	.009	.009	0 0
52	MP ALPHA3	PY	.009	.009	0 0
53	MP ALPHA2	PY	.009	.009	0 0
54	MP ALPHA1	PY	.009	.009	0 0
55	MID RAIL3	PY	.008	.008	0 0
56	MID RAIL2	PY	.016	.016	0 0
57	MID RAIL1	PY	.016	.016	0 0
58	FACE3	PY	.006	.006	0 0
59	FACE2	PY	.011	.011	0 0
60	FACE1	PY	.011	.011	0 0
61	tab18	PX	-.00091	-.00091	0 0
62	tab17	PX	-.00091	-.00091	0 0
63	tab16	PX	-.00091	-.00091	0 0
64	tab15	PX	-.00091	-.00091	0 0
65	tab14	PX	-.00091	-.00091	0 0
66	tab13	PX	-.00091	-.00091	0 0
67	tab12	PX	-.00091	-.00091	0 0
68	tab11	PX	-.00091	-.00091	0 0
69	tab10	PX	-.00091	-.00091	0 0
70	tab9	PX	-.00091	-.00091	0 0
71	tab8	PX	-.00091	-.00091	0 0
72	tab7	PX	-.00091	-.00091	0 0
73	tab6	PX	-.00091	-.00091	0 0
74	VERT12	PX	-.002	-.002	0 0



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Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
75	VERT11	PX	-.002	-.002	0 0
76	VERT10	PX	-.002	-.002	0 0
77	VERT9	PX	-.002	-.002	0 0
78	VERT8	PX	-.003	-.003	0 0
79	VERT7	PX	-.003	-.003	0 0
80	VERT6	PX	-.003	-.003	0 0
81	VERT5	PX	-.003	-.003	0 0
82	VERT4	PX	-.003	-.003	0 0
83	VERT3	PX	-.003	-.003	0 0
84	VERT2	PX	-.003	-.003	0 0
85	VERT1	PX	-.003	-.003	0 0
86	Tab5	PX	-.00091	-.00091	0 0
87	Tab4	PX	-.00091	-.00091	0 0
88	Tab3	PX	-.00091	-.00091	0 0
89	Tab2	PX	-.00091	-.00091	0 0
90	Tab1	PX	-.00091	-.00091	0 0
91	SO3	PX	-.005	-.005	0 0
92	SO2	PX	-.005	-.005	0 0
93	SO1	PX	-.005	-.005	0 0
94	RAIL3	PX	-.00091	-.00091	0 0
95	RAIL2	PX	-.002	-.002	0 0
96	RAIL1	PX	-.002	-.002	0 0
97	PLATE3	PX	-.00091	-.00091	0 0
98	PLATE2	PX	-.00091	-.00091	0 0
99	PLATE1	PX	-.00091	-.00091	0 0
100	PIPE3	PX	-.005	-.005	0 0
101	PIPE2	PX	-.005	-.005	0 0
102	PIPE1	PX	-.005	-.005	0 0
103	MP GAMMA4	PX	-.005	-.005	0 0
104	MP GAMMA3	PX	-.005	-.005	0 0
105	MP GAMMA2	PX	-.005	-.005	0 0
106	MP GAMMA1	PX	-.005	-.005	0 0
107	MP BETA4	PX	-.005	-.005	0 0
108	MP BETA3	PX	-.005	-.005	0 0
109	MP BETA2	PX	-.005	-.005	0 0
110	MP BETA1	PX	-.005	-.005	0 0
111	MP ALPHA4	PX	-.005	-.005	0 0
112	MP ALPHA3	PX	-.005	-.005	0 0
113	MP ALPHA2	PX	-.005	-.005	0 0
114	MP ALPHA1	PX	-.005	-.005	0 0
115	MID RAIL3	PX	-.005	-.005	0 0
116	MID RAIL2	PX	-.009	-.009	0 0
117	MID RAIL1	PX	-.009	-.009	0 0
118	FACE3	PX	-.003	-.003	0 0
119	FACE2	PX	-.006	-.006	0 0
120	FACE1	PX	-.006	-.006	0 0
121	M112	PY	.005	.005	0 0
122	M112	PX	-.003	-.003	0 0
123	M113	PY	.005	.005	0 0
124	M113	PX	-.003	-.003	0 0
125	M114	PY	.005	.005	0 0
126	M114	PX	-.003	-.003	0 0
127	NEW RAIL1	PY	.003	.003	0 0
128	NEW RAIL1	PX	-.002	-.002	0 0
129	NEW RAIL3	PY	.003	.003	0 0
130	NEW RAIL3	PX	-.002	-.002	0 0
131	NEW RAIL2	PY	.003	.003	0 0



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Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
132	NEW RAIL2	PX	-.002	-.002	0	0
133	SK2	PY	.003	.003	0	0
134	SK2	PX	-.002	-.002	0	0
135	SK1	PY	.003	.003	0	0
136	SK1	PX	-.002	-.002	0	0
137	SK6	PY	.003	.003	0	0
138	SK6	PX	-.002	-.002	0	0
139	SK5	PY	.003	.003	0	0
140	SK5	PX	-.002	-.002	0	0
141	SK4	PY	.003	.003	0	0
142	SK4	PX	-.002	-.002	0	0
143	SK3	PY	.003	.003	0	0
144	SK3	PX	-.002	-.002	0	0
145	BRACE1	PY	.003	.003	0	0
146	BRACE1	PX	-.002	-.002	0	0
147	BRACE3	PY	.003	.003	0	0
148	BRACE3	PX	-.002	-.002	0	0
149	BRACE2	PY	.003	.003	0	0
150	BRACE2	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	.002	.002	0	0
2	tab17	PY	.002	.002	0	0
3	tab16	PY	.002	.002	0	0
4	tab15	PY	.002	.002	0	0
5	tab14	PY	.002	.002	0	0
6	tab13	PY	.002	.002	0	0
7	tab12	PY	.002	.002	0	0
8	tab11	PY	.002	.002	0	0
9	tab10	PY	.002	.002	0	0
10	tab9	PY	.002	.002	0	0
11	tab8	PY	.002	.002	0	0
12	tab7	PY	.002	.002	0	0
13	tab6	PY	.002	.002	0	0
14	VERT12	PY	.003	.003	0	0
15	VERT11	PY	.003	.003	0	0
16	VERT10	PY	.003	.003	0	0
17	VERT9	PY	.003	.003	0	0
18	VERT8	PY	.006	.006	0	0
19	VERT7	PY	.006	.006	0	0
20	VERT6	PY	.006	.006	0	0
21	VERT5	PY	.006	.006	0	0
22	VERT4	PY	.006	.006	0	0
23	VERT3	PY	.006	.006	0	0
24	VERT2	PY	.006	.006	0	0
25	VERT1	PY	.006	.006	0	0
26	Tab5	PY	.002	.002	0	0
27	Tab4	PY	.002	.002	0	0
28	Tab3	PY	.002	.002	0	0
29	Tab2	PY	.002	.002	0	0
30	Tab1	PY	.002	.002	0	0
31	SO3	PY	.009	.009	0	0
32	SO2	PY	.009	.009	0	0
33	SO1	PY	.009	.009	0	0
34	RAIL3	PY	.002	.002	0	0



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Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
35	RAIL2	PY	.004	.004	0	0
36	RAIL1	PY	.004	.004	0	0
37	PLATE3	PY	.002	.002	0	0
38	PLATE2	PY	.002	.002	0	0
39	PLATE1	PY	.002	.002	0	0
40	PIPE3	PY	.01	.01	0	0
41	PIPE2	PY	.01	.01	0	0
42	PIPE1	PY	.01	.01	0	0
43	MP GAMMA4	PY	.01	.01	0	0
44	MP GAMMA3	PY	.01	.01	0	0
45	MP GAMMA2	PY	.01	.01	0	0
46	MP GAMMA1	PY	.01	.01	0	0
47	MP BETA4	PY	.01	.01	0	0
48	MP BETA3	PY	.01	.01	0	0
49	MP BETA2	PY	.01	.01	0	0
50	MP BETA1	PY	.01	.01	0	0
51	MP ALPHA4	PY	.01	.01	0	0
52	MP ALPHA3	PY	.01	.01	0	0
53	MP ALPHA2	PY	.01	.01	0	0
54	MP ALPHA1	PY	.01	.01	0	0
55	MID RAIL3	PY	.009	.009	0	0
56	MID RAIL2	PY	.018	.018	0	0
57	MID RAIL1	PY	.018	.018	0	0
58	FACE3	PY	.006	.006	0	0
59	FACE2	PY	.013	.013	0	0
60	FACE1	PY	.013	.013	0	0
61	M112	PY	.006	.006	0	0
62	M113	PY	.006	.006	0	0
63	M114	PY	.006	.006	0	0
64	NEW RAIL1	PY	.004	.004	0	0
65	NEW RAIL3	PY	.004	.004	0	0
66	NEW RAIL2	PY	.004	.004	0	0
67	SK2	PY	.004	.004	0	0
68	SK1	PY	.004	.004	0	0
69	SK6	PY	.004	.004	0	0
70	SK5	PY	.004	.004	0	0
71	SK4	PY	.004	.004	0	0
72	SK3	PY	.004	.004	0	0
73	BRACE1	PY	.004	.004	0	0
74	BRACE3	PY	.004	.004	0	0
75	BRACE2	PY	.004	.004	0	0

Member Distributed Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
1	tab18	PY	.002	.002	0	0
2	tab17	PY	.002	.002	0	0
3	tab16	PY	.002	.002	0	0
4	tab15	PY	.002	.002	0	0
5	tab14	PY	.002	.002	0	0
6	tab13	PY	.002	.002	0	0
7	tab12	PY	.002	.002	0	0
8	tab11	PY	.002	.002	0	0
9	tab10	PY	.002	.002	0	0
10	tab9	PY	.002	.002	0	0
11	tab8	PY	.002	.002	0	0
12	tab7	PY	.002	.002	0	0



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Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
13	tab6	PY	.002	.002	0 0
14	VERT12	PY	.003	.003	0 0
15	VERT11	PY	.003	.003	0 0
16	VERT10	PY	.003	.003	0 0
17	VERT9	PY	.003	.003	0 0
18	VERT8	PY	.005	.005	0 0
19	VERT7	PY	.005	.005	0 0
20	VERT6	PY	.005	.005	0 0
21	VERT5	PY	.005	.005	0 0
22	VERT4	PY	.005	.005	0 0
23	VERT3	PY	.005	.005	0 0
24	VERT2	PY	.005	.005	0 0
25	VERT1	PY	.005	.005	0 0
26	Tab5	PY	.002	.002	0 0
27	Tab4	PY	.002	.002	0 0
28	Tab3	PY	.002	.002	0 0
29	Tab2	PY	.002	.002	0 0
30	Tab1	PY	.002	.002	0 0
31	SO3	PY	.008	.008	0 0
32	SO2	PY	.008	.008	0 0
33	SO1	PY	.008	.008	0 0
34	RAIL3	PY	.002	.002	0 0
35	RAIL2	PY	.003	.003	0 0
36	RAIL1	PY	.003	.003	0 0
37	PLATE3	PY	.002	.002	0 0
38	PLATE2	PY	.002	.002	0 0
39	PLATE1	PY	.002	.002	0 0
40	PIPE3	PY	.009	.009	0 0
41	PIPE2	PY	.009	.009	0 0
42	PIPE1	PY	.009	.009	0 0
43	MP GAMMA4	PY	.009	.009	0 0
44	MP GAMMA3	PY	.009	.009	0 0
45	MP GAMMA2	PY	.009	.009	0 0
46	MP GAMMA1	PY	.009	.009	0 0
47	MP BETA4	PY	.009	.009	0 0
48	MP BETA3	PY	.009	.009	0 0
49	MP BETA2	PY	.009	.009	0 0
50	MP BETA1	PY	.009	.009	0 0
51	MP ALPHA4	PY	.009	.009	0 0
52	MP ALPHA3	PY	.009	.009	0 0
53	MP ALPHA2	PY	.009	.009	0 0
54	MP ALPHA1	PY	.009	.009	0 0
55	MID RAIL3	PY	.008	.008	0 0
56	MID RAIL2	PY	.016	.016	0 0
57	MID RAIL1	PY	.016	.016	0 0
58	FACE3	PY	.006	.006	0 0
59	FACE2	PY	.011	.011	0 0
60	FACE1	PY	.011	.011	0 0
61	tab18	PX	.00091	.00091	0 0
62	tab17	PX	.00091	.00091	0 0
63	tab16	PX	.00091	.00091	0 0
64	tab15	PX	.00091	.00091	0 0
65	tab14	PX	.00091	.00091	0 0
66	tab13	PX	.00091	.00091	0 0
67	tab12	PX	.00091	.00091	0 0
68	tab11	PX	.00091	.00091	0 0
69	tab10	PX	.00091	.00091	0 0



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Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
70	tab9	PX	.00091	.00091	0 0
71	tab8	PX	.00091	.00091	0 0
72	tab7	PX	.00091	.00091	0 0
73	tab6	PX	.00091	.00091	0 0
74	VERT12	PX	.002	.002	0 0
75	VERT11	PX	.002	.002	0 0
76	VERT10	PX	.002	.002	0 0
77	VERT9	PX	.002	.002	0 0
78	VERT8	PX	.003	.003	0 0
79	VERT7	PX	.003	.003	0 0
80	VERT6	PX	.003	.003	0 0
81	VERT5	PX	.003	.003	0 0
82	VERT4	PX	.003	.003	0 0
83	VERT3	PX	.003	.003	0 0
84	VERT2	PX	.003	.003	0 0
85	VERT1	PX	.003	.003	0 0
86	Tab5	PX	.00091	.00091	0 0
87	Tab4	PX	.00091	.00091	0 0
88	Tab3	PX	.00091	.00091	0 0
89	Tab2	PX	.00091	.00091	0 0
90	Tab1	PX	.00091	.00091	0 0
91	SO3	PX	.005	.005	0 0
92	SO2	PX	.005	.005	0 0
93	SO1	PX	.005	.005	0 0
94	RAIL3	PX	.00091	.00091	0 0
95	RAIL2	PX	.002	.002	0 0
96	RAIL1	PX	.002	.002	0 0
97	PLATE3	PX	.00091	.00091	0 0
98	PLATE2	PX	.00091	.00091	0 0
99	PLATE1	PX	.00091	.00091	0 0
100	PIPE3	PX	.005	.005	0 0
101	PIPE2	PX	.005	.005	0 0
102	PIPE1	PX	.005	.005	0 0
103	MP GAMMA4	PX	.005	.005	0 0
104	MP GAMMA3	PX	.005	.005	0 0
105	MP GAMMA2	PX	.005	.005	0 0
106	MP GAMMA1	PX	.005	.005	0 0
107	MP BETA4	PX	.005	.005	0 0
108	MP BETA3	PX	.005	.005	0 0
109	MP BETA2	PX	.005	.005	0 0
110	MP BETA1	PX	.005	.005	0 0
111	MP ALPHA4	PX	.005	.005	0 0
112	MP ALPHA3	PX	.005	.005	0 0
113	MP ALPHA2	PX	.005	.005	0 0
114	MP ALPHA1	PX	.005	.005	0 0
115	MID RAIL3	PX	.005	.005	0 0
116	MID RAIL2	PX	.009	.009	0 0
117	MID RAIL1	PX	.009	.009	0 0
118	FACE3	PX	.003	.003	0 0
119	FACE2	PX	.006	.006	0 0
120	FACE1	PX	.006	.006	0 0
121	M112	PY	.005	.005	0 0
122	M112	PX	.003	.003	0 0
123	M113	PY	.005	.005	0 0
124	M113	PX	.003	.003	0 0
125	M114	PY	.005	.005	0 0
126	M114	PX	.003	.003	0 0



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Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
127	NEW RAIL1	PY	.003	.003	0	0
128	NEW RAIL1	PX	.002	.002	0	0
129	NEW RAIL3	PY	.003	.003	0	0
130	NEW RAIL3	PX	.002	.002	0	0
131	NEW RAIL2	PY	.003	.003	0	0
132	NEW RAIL2	PX	.002	.002	0	0
133	SK2	PY	.003	.003	0	0
134	SK2	PX	.002	.002	0	0
135	SK1	PY	.003	.003	0	0
136	SK1	PX	.002	.002	0	0
137	SK6	PY	.003	.003	0	0
138	SK6	PX	.002	.002	0	0
139	SK5	PY	.003	.003	0	0
140	SK5	PX	.002	.002	0	0
141	SK4	PY	.003	.003	0	0
142	SK4	PX	.002	.002	0	0
143	SK3	PY	.003	.003	0	0
144	SK3	PX	.002	.002	0	0
145	BRACE1	PY	.003	.003	0	0
146	BRACE1	PX	.002	.002	0	0
147	BRACE3	PY	.003	.003	0	0
148	BRACE3	PX	.002	.002	0	0
149	BRACE2	PY	.003	.003	0	0
150	BRACE2	PX	.002	.002	0	0

Member Distributed Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	.00091	.00091	0	0
2	tab17	PY	.00091	.00091	0	0
3	tab16	PY	.00091	.00091	0	0
4	tab15	PY	.00091	.00091	0	0
5	tab14	PY	.00091	.00091	0	0
6	tab13	PY	.00091	.00091	0	0
7	tab12	PY	.00091	.00091	0	0
8	tab11	PY	.00091	.00091	0	0
9	tab10	PY	.00091	.00091	0	0
10	tab9	PY	.00091	.00091	0	0
11	tab8	PY	.00091	.00091	0	0
12	tab7	PY	.00091	.00091	0	0
13	tab6	PY	.00091	.00091	0	0
14	VERT12	PY	.002	.002	0	0
15	VERT11	PY	.002	.002	0	0
16	VERT10	PY	.002	.002	0	0
17	VERT9	PY	.002	.002	0	0
18	VERT8	PY	.003	.003	0	0
19	VERT7	PY	.003	.003	0	0
20	VERT6	PY	.003	.003	0	0
21	VERT5	PY	.003	.003	0	0
22	VERT4	PY	.003	.003	0	0
23	VERT3	PY	.003	.003	0	0
24	VERT2	PY	.003	.003	0	0
25	VERT1	PY	.003	.003	0	0
26	Tab5	PY	.00091	.00091	0	0
27	Tab4	PY	.00091	.00091	0	0
28	Tab3	PY	.00091	.00091	0	0
29	Tab2	PY	.00091	.00091	0	0



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Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
30	Tab1	PY	.00091	.00091	0 0
31	SO3	PY	.005	.005	0 0
32	SO2	PY	.005	.005	0 0
33	SO1	PY	.005	.005	0 0
34	RAIL3	PY	.00091	.00091	0 0
35	RAIL2	PY	.002	.002	0 0
36	RAIL1	PY	.002	.002	0 0
37	PLATE3	PY	.00091	.00091	0 0
38	PLATE2	PY	.00091	.00091	0 0
39	PLATE1	PY	.00091	.00091	0 0
40	PIPE3	PY	.005	.005	0 0
41	PIPE2	PY	.005	.005	0 0
42	PIPE1	PY	.005	.005	0 0
43	MP GAMMA4	PY	.005	.005	0 0
44	MP GAMMA3	PY	.005	.005	0 0
45	MP GAMMA2	PY	.005	.005	0 0
46	MP GAMMA1	PY	.005	.005	0 0
47	MP BETA4	PY	.005	.005	0 0
48	MP BETA3	PY	.005	.005	0 0
49	MP BETA2	PY	.005	.005	0 0
50	MP BETA1	PY	.005	.005	0 0
51	MP ALPHA4	PY	.005	.005	0 0
52	MP ALPHA3	PY	.005	.005	0 0
53	MP ALPHA2	PY	.005	.005	0 0
54	MP ALPHA1	PY	.005	.005	0 0
55	MID RAIL3	PY	.005	.005	0 0
56	MID RAIL2	PY	.009	.009	0 0
57	MID RAIL1	PY	.009	.009	0 0
58	FACE3	PY	.003	.003	0 0
59	FACE2	PY	.006	.006	0 0
60	FACE1	PY	.006	.006	0 0
61	tab18	PX	.002	.002	0 0
62	tab17	PX	.002	.002	0 0
63	tab16	PX	.002	.002	0 0
64	tab15	PX	.002	.002	0 0
65	tab14	PX	.002	.002	0 0
66	tab13	PX	.002	.002	0 0
67	tab12	PX	.002	.002	0 0
68	tab11	PX	.002	.002	0 0
69	tab10	PX	.002	.002	0 0
70	tab9	PX	.002	.002	0 0
71	tab8	PX	.002	.002	0 0
72	tab7	PX	.002	.002	0 0
73	tab6	PX	.002	.002	0 0
74	VERT12	PX	.003	.003	0 0
75	VERT11	PX	.003	.003	0 0
76	VERT10	PX	.003	.003	0 0
77	VERT9	PX	.003	.003	0 0
78	VERT8	PX	.005	.005	0 0
79	VERT7	PX	.005	.005	0 0
80	VERT6	PX	.005	.005	0 0
81	VERT5	PX	.005	.005	0 0
82	VERT4	PX	.005	.005	0 0
83	VERT3	PX	.005	.005	0 0
84	VERT2	PX	.005	.005	0 0
85	VERT1	PX	.005	.005	0 0
86	Tab5	PX	.002	.002	0 0



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Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
87	Tab4	PX	.002	.002	0 0
88	Tab3	PX	.002	.002	0 0
89	Tab2	PX	.002	.002	0 0
90	Tab1	PX	.002	.002	0 0
91	SO3	PX	.008	.008	0 0
92	SO2	PX	.008	.008	0 0
93	SO1	PX	.008	.008	0 0
94	RAIL3	PX	.002	.002	0 0
95	RAIL2	PX	.003	.003	0 0
96	RAIL1	PX	.003	.003	0 0
97	PLATE3	PX	.002	.002	0 0
98	PLATE2	PX	.002	.002	0 0
99	PLATE1	PX	.002	.002	0 0
100	PIPE3	PX	.009	.009	0 0
101	PIPE2	PX	.009	.009	0 0
102	PIPE1	PX	.009	.009	0 0
103	MP GAMMA4	PX	.009	.009	0 0
104	MP GAMMA3	PX	.009	.009	0 0
105	MP GAMMA2	PX	.009	.009	0 0
106	MP GAMMA1	PX	.009	.009	0 0
107	MP BETA4	PX	.009	.009	0 0
108	MP BETA3	PX	.009	.009	0 0
109	MP BETA2	PX	.009	.009	0 0
110	MP BETA1	PX	.009	.009	0 0
111	MP ALPHA4	PX	.009	.009	0 0
112	MP ALPHA3	PX	.009	.009	0 0
113	MP ALPHA2	PX	.009	.009	0 0
114	MP ALPHA1	PX	.009	.009	0 0
115	MID RAIL3	PX	.008	.008	0 0
116	MID RAIL2	PX	.016	.016	0 0
117	MID RAIL1	PX	.016	.016	0 0
118	FACE3	PX	.006	.006	0 0
119	FACE2	PX	.011	.011	0 0
120	FACE1	PX	.011	.011	0 0
121	M112	PY	.003	.003	0 0
122	M112	PX	.005	.005	0 0
123	M113	PY	.003	.003	0 0
124	M113	PX	.005	.005	0 0
125	M114	PY	.003	.003	0 0
126	M114	PX	.005	.005	0 0
127	NEW RAIL1	PY	.002	.002	0 0
128	NEW RAIL1	PX	.003	.003	0 0
129	NEW RAIL3	PY	.002	.002	0 0
130	NEW RAIL3	PX	.003	.003	0 0
131	NEW RAIL2	PY	.002	.002	0 0
132	NEW RAIL2	PX	.003	.003	0 0
133	SK2	PY	.002	.002	0 0
134	SK2	PX	.003	.003	0 0
135	SK1	PY	.002	.002	0 0
136	SK1	PX	.003	.003	0 0
137	SK6	PY	.002	.002	0 0
138	SK6	PX	.003	.003	0 0
139	SK5	PY	.002	.002	0 0
140	SK5	PX	.003	.003	0 0
141	SK4	PY	.002	.002	0 0
142	SK4	PX	.003	.003	0 0
143	SK3	PY	.002	.002	0 0



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Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
144	SK3	PX	.003	.003	0	0
145	BRACE1	PY	.002	.002	0	0
146	BRACE1	PX	.003	.003	0	0
147	BRACE3	PY	.002	.002	0	0
148	BRACE3	PX	.003	.003	0	0
149	BRACE2	PY	.002	.002	0	0
150	BRACE2	PX	.003	.003	0	0

Member Distributed Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PX	.002	.002	0	0
2	tab17	PX	.002	.002	0	0
3	tab16	PX	.002	.002	0	0
4	tab15	PX	.002	.002	0	0
5	tab14	PX	.002	.002	0	0
6	tab13	PX	.002	.002	0	0
7	tab12	PX	.002	.002	0	0
8	tab11	PX	.002	.002	0	0
9	tab10	PX	.002	.002	0	0
10	tab9	PX	.002	.002	0	0
11	tab8	PX	.002	.002	0	0
12	tab7	PX	.002	.002	0	0
13	tab6	PX	.002	.002	0	0
14	VERT12	PX	.003	.003	0	0
15	VERT11	PX	.003	.003	0	0
16	VERT10	PX	.003	.003	0	0
17	VERT9	PX	.003	.003	0	0
18	VERT8	PX	.006	.006	0	0
19	VERT7	PX	.006	.006	0	0
20	VERT6	PX	.006	.006	0	0
21	VERT5	PX	.006	.006	0	0
22	VERT4	PX	.006	.006	0	0
23	VERT3	PX	.006	.006	0	0
24	VERT2	PX	.006	.006	0	0
25	VERT1	PX	.006	.006	0	0
26	Tab5	PX	.002	.002	0	0
27	Tab4	PX	.002	.002	0	0
28	Tab3	PX	.002	.002	0	0
29	Tab2	PX	.002	.002	0	0
30	Tab1	PX	.002	.002	0	0
31	SO3	PX	.009	.009	0	0
32	SO2	PX	.009	.009	0	0
33	SO1	PX	.009	.009	0	0
34	RAIL3	PX	.002	.002	0	0
35	RAIL2	PX	.004	.004	0	0
36	RAIL1	PX	.004	.004	0	0
37	PLATE3	PX	.002	.002	0	0
38	PLATE2	PX	.002	.002	0	0
39	PLATE1	PX	.002	.002	0	0
40	PIPE3	PX	.01	.01	0	0
41	PIPE2	PX	.01	.01	0	0
42	PIPE1	PX	.01	.01	0	0
43	MP GAMMA4	PX	.01	.01	0	0
44	MP GAMMA3	PX	.01	.01	0	0
45	MP GAMMA2	PX	.01	.01	0	0
46	MP GAMMA1	PX	.01	.01	0	0



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Member Distributed Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
47	MP BETA4	PX	.01	.01	0	0
48	MP BETA3	PX	.01	.01	0	0
49	MP BETA2	PX	.01	.01	0	0
50	MP BETA1	PX	.01	.01	0	0
51	MP ALPHA4	PX	.01	.01	0	0
52	MP ALPHA3	PX	.01	.01	0	0
53	MP ALPHA2	PX	.01	.01	0	0
54	MP ALPHA1	PX	.01	.01	0	0
55	MID RAIL3	PX	.009	.009	0	0
56	MID RAIL2	PX	.018	.018	0	0
57	MID RAIL1	PX	.018	.018	0	0
58	FACE3	PX	.006	.006	0	0
59	FACE2	PX	.013	.013	0	0
60	FACE1	PX	.013	.013	0	0
61	M112	PX	.006	.006	0	0
62	M113	PX	.006	.006	0	0
63	M114	PX	.006	.006	0	0
64	NEW RAIL1	PX	.004	.004	0	0
65	NEW RAIL3	PX	.004	.004	0	0
66	NEW RAIL2	PX	.004	.004	0	0
67	SK2	PX	.004	.004	0	0
68	SK1	PX	.004	.004	0	0
69	SK6	PX	.004	.004	0	0
70	SK5	PX	.004	.004	0	0
71	SK4	PX	.004	.004	0	0
72	SK3	PX	.004	.004	0	0
73	BRACE1	PX	.004	.004	0	0
74	BRACE3	PX	.004	.004	0	0
75	BRACE2	PX	.004	.004	0	0

Member Distributed Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-.00091	-.00091	0	0
2	tab17	PY	-.00091	-.00091	0	0
3	tab16	PY	-.00091	-.00091	0	0
4	tab15	PY	-.00091	-.00091	0	0
5	tab14	PY	-.00091	-.00091	0	0
6	tab13	PY	-.00091	-.00091	0	0
7	tab12	PY	-.00091	-.00091	0	0
8	tab11	PY	-.00091	-.00091	0	0
9	tab10	PY	-.00091	-.00091	0	0
10	tab9	PY	-.00091	-.00091	0	0
11	tab8	PY	-.00091	-.00091	0	0
12	tab7	PY	-.00091	-.00091	0	0
13	tab6	PY	-.00091	-.00091	0	0
14	VERT12	PY	-.002	-.002	0	0
15	VERT11	PY	-.002	-.002	0	0
16	VERT10	PY	-.002	-.002	0	0
17	VERT9	PY	-.002	-.002	0	0
18	VERT8	PY	-.003	-.003	0	0
19	VERT7	PY	-.003	-.003	0	0
20	VERT6	PY	-.003	-.003	0	0
21	VERT5	PY	-.003	-.003	0	0
22	VERT4	PY	-.003	-.003	0	0
23	VERT3	PY	-.003	-.003	0	0
24	VERT2	PY	-.003	-.003	0	0



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Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft,%]	End Location[ft,%]
25	VERT1	PY	-.003	-.003	0 0
26	Tab5	PY	-.00091	-.00091	0 0
27	Tab4	PY	-.00091	-.00091	0 0
28	Tab3	PY	-.00091	-.00091	0 0
29	Tab2	PY	-.00091	-.00091	0 0
30	Tab1	PY	-.00091	-.00091	0 0
31	SO3	PY	-.005	-.005	0 0
32	SO2	PY	-.005	-.005	0 0
33	SO1	PY	-.005	-.005	0 0
34	RAIL3	PY	-.00091	-.00091	0 0
35	RAIL2	PY	-.002	-.002	0 0
36	RAIL1	PY	-.002	-.002	0 0
37	PLATE3	PY	-.00091	-.00091	0 0
38	PLATE2	PY	-.00091	-.00091	0 0
39	PLATE1	PY	-.00091	-.00091	0 0
40	PIPE3	PY	-.005	-.005	0 0
41	PIPE2	PY	-.005	-.005	0 0
42	PIPE1	PY	-.005	-.005	0 0
43	MP GAMMA4	PY	-.005	-.005	0 0
44	MP GAMMA3	PY	-.005	-.005	0 0
45	MP GAMMA2	PY	-.005	-.005	0 0
46	MP GAMMA1	PY	-.005	-.005	0 0
47	MP BETA4	PY	-.005	-.005	0 0
48	MP BETA3	PY	-.005	-.005	0 0
49	MP BETA2	PY	-.005	-.005	0 0
50	MP BETA1	PY	-.005	-.005	0 0
51	MP ALPHA4	PY	-.005	-.005	0 0
52	MP ALPHA3	PY	-.005	-.005	0 0
53	MP ALPHA2	PY	-.005	-.005	0 0
54	MP ALPHA1	PY	-.005	-.005	0 0
55	MID RAIL3	PY	-.005	-.005	0 0
56	MID RAIL2	PY	-.009	-.009	0 0
57	MID RAIL1	PY	-.009	-.009	0 0
58	FACE3	PY	-.003	-.003	0 0
59	FACE2	PY	-.006	-.006	0 0
60	FACE1	PY	-.006	-.006	0 0
61	tab18	PX	.002	.002	0 0
62	tab17	PX	.002	.002	0 0
63	tab16	PX	.002	.002	0 0
64	tab15	PX	.002	.002	0 0
65	tab14	PX	.002	.002	0 0
66	tab13	PX	.002	.002	0 0
67	tab12	PX	.002	.002	0 0
68	tab11	PX	.002	.002	0 0
69	tab10	PX	.002	.002	0 0
70	tab9	PX	.002	.002	0 0
71	tab8	PX	.002	.002	0 0
72	tab7	PX	.002	.002	0 0
73	tab6	PX	.002	.002	0 0
74	VERT12	PX	.003	.003	0 0
75	VERT11	PX	.003	.003	0 0
76	VERT10	PX	.003	.003	0 0
77	VERT9	PX	.003	.003	0 0
78	VERT8	PX	.005	.005	0 0
79	VERT7	PX	.005	.005	0 0
80	VERT6	PX	.005	.005	0 0
81	VERT5	PX	.005	.005	0 0



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Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
82	VERT4	PX	.005	.005	0 0
83	VERT3	PX	.005	.005	0 0
84	VERT2	PX	.005	.005	0 0
85	VERT1	PX	.005	.005	0 0
86	Tab5	PX	.002	.002	0 0
87	Tab4	PX	.002	.002	0 0
88	Tab3	PX	.002	.002	0 0
89	Tab2	PX	.002	.002	0 0
90	Tab1	PX	.002	.002	0 0
91	SO3	PX	.008	.008	0 0
92	SO2	PX	.008	.008	0 0
93	SO1	PX	.008	.008	0 0
94	RAIL3	PX	.002	.002	0 0
95	RAIL2	PX	.003	.003	0 0
96	RAIL1	PX	.003	.003	0 0
97	PLATE3	PX	.002	.002	0 0
98	PLATE2	PX	.002	.002	0 0
99	PLATE1	PX	.002	.002	0 0
100	PIPE3	PX	.009	.009	0 0
101	PIPE2	PX	.009	.009	0 0
102	PIPE1	PX	.009	.009	0 0
103	MP GAMMA4	PX	.009	.009	0 0
104	MP GAMMA3	PX	.009	.009	0 0
105	MP GAMMA2	PX	.009	.009	0 0
106	MP GAMMA1	PX	.009	.009	0 0
107	MP BETA4	PX	.009	.009	0 0
108	MP BETA3	PX	.009	.009	0 0
109	MP BETA2	PX	.009	.009	0 0
110	MP BETA1	PX	.009	.009	0 0
111	MP ALPHA4	PX	.009	.009	0 0
112	MP ALPHA3	PX	.009	.009	0 0
113	MP ALPHA2	PX	.009	.009	0 0
114	MP ALPHA1	PX	.009	.009	0 0
115	MID RAIL3	PX	.008	.008	0 0
116	MID RAIL2	PX	.016	.016	0 0
117	MID RAIL1	PX	.016	.016	0 0
118	FACE3	PX	.006	.006	0 0
119	FACE2	PX	.011	.011	0 0
120	FACE1	PX	.011	.011	0 0
121	M112	PY	-.003	-.003	0 0
122	M112	PX	.005	.005	0 0
123	M113	PY	-.003	-.003	0 0
124	M113	PX	.005	.005	0 0
125	M114	PY	-.003	-.003	0 0
126	M114	PX	.005	.005	0 0
127	NEW RAIL1	PY	-.002	-.002	0 0
128	NEW RAIL1	PX	.003	.003	0 0
129	NEW RAIL3	PY	-.002	-.002	0 0
130	NEW RAIL3	PX	.003	.003	0 0
131	NEW RAIL2	PY	-.002	-.002	0 0
132	NEW RAIL2	PX	.003	.003	0 0
133	SK2	PY	-.002	-.002	0 0
134	SK2	PX	.003	.003	0 0
135	SK1	PY	-.002	-.002	0 0
136	SK1	PX	.003	.003	0 0
137	SK6	PY	-.002	-.002	0 0
138	SK6	PX	.003	.003	0 0



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Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
139	SK5	PY	-.002	-.002	0	0
140	SK5	PX	.003	.003	0	0
141	SK4	PY	-.002	-.002	0	0
142	SK4	PX	.003	.003	0	0
143	SK3	PY	-.002	-.002	0	0
144	SK3	PX	.003	.003	0	0
145	BRACE1	PY	-.002	-.002	0	0
146	BRACE1	PX	.003	.003	0	0
147	BRACE3	PY	-.002	-.002	0	0
148	BRACE3	PX	.003	.003	0	0
149	BRACE2	PY	-.002	-.002	0	0
150	BRACE2	PX	.003	.003	0	0

Member Distributed Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-.002	-.002	0	0
2	tab17	PY	-.002	-.002	0	0
3	tab16	PY	-.002	-.002	0	0
4	tab15	PY	-.002	-.002	0	0
5	tab14	PY	-.002	-.002	0	0
6	tab13	PY	-.002	-.002	0	0
7	tab12	PY	-.002	-.002	0	0
8	tab11	PY	-.002	-.002	0	0
9	tab10	PY	-.002	-.002	0	0
10	tab9	PY	-.002	-.002	0	0
11	tab8	PY	-.002	-.002	0	0
12	tab7	PY	-.002	-.002	0	0
13	tab6	PY	-.002	-.002	0	0
14	VERT12	PY	-.003	-.003	0	0
15	VERT11	PY	-.003	-.003	0	0
16	VERT10	PY	-.003	-.003	0	0
17	VERT9	PY	-.003	-.003	0	0
18	VERT8	PY	-.005	-.005	0	0
19	VERT7	PY	-.005	-.005	0	0
20	VERT6	PY	-.005	-.005	0	0
21	VERT5	PY	-.005	-.005	0	0
22	VERT4	PY	-.005	-.005	0	0
23	VERT3	PY	-.005	-.005	0	0
24	VERT2	PY	-.005	-.005	0	0
25	VERT1	PY	-.005	-.005	0	0
26	Tab5	PY	-.002	-.002	0	0
27	Tab4	PY	-.002	-.002	0	0
28	Tab3	PY	-.002	-.002	0	0
29	Tab2	PY	-.002	-.002	0	0
30	Tab1	PY	-.002	-.002	0	0
31	SO3	PY	-.008	-.008	0	0
32	SO2	PY	-.008	-.008	0	0
33	SO1	PY	-.008	-.008	0	0
34	RAIL3	PY	-.002	-.002	0	0
35	RAIL2	PY	-.003	-.003	0	0
36	RAIL1	PY	-.003	-.003	0	0
37	PLATE3	PY	-.002	-.002	0	0
38	PLATE2	PY	-.002	-.002	0	0
39	PLATE1	PY	-.002	-.002	0	0
40	PIPE3	PY	-.009	-.009	0	0
41	PIPE2	PY	-.009	-.009	0	0



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Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft,%]	End Location[ft,%]
42	PIPE1	PY	-0.09	-0.09	0 0
43	MP GAMMA4	PY	-0.09	-0.09	0 0
44	MP GAMMA3	PY	-0.09	-0.09	0 0
45	MP GAMMA2	PY	-0.09	-0.09	0 0
46	MP GAMMA1	PY	-0.09	-0.09	0 0
47	MP BETA4	PY	-0.09	-0.09	0 0
48	MP BETA3	PY	-0.09	-0.09	0 0
49	MP BETA2	PY	-0.09	-0.09	0 0
50	MP BETA1	PY	-0.09	-0.09	0 0
51	MP ALPHA4	PY	-0.09	-0.09	0 0
52	MP ALPHA3	PY	-0.09	-0.09	0 0
53	MP ALPHA2	PY	-0.09	-0.09	0 0
54	MP ALPHA1	PY	-0.09	-0.09	0 0
55	MID RAIL3	PY	-0.08	-0.08	0 0
56	MID RAIL2	PY	-0.16	-0.16	0 0
57	MID RAIL1	PY	-0.16	-0.16	0 0
58	FACE3	PY	-0.06	-0.06	0 0
59	FACE2	PY	-0.11	-0.11	0 0
60	FACE1	PY	-0.11	-0.11	0 0
61	tab18	PX	.00091	.00091	0 0
62	tab17	PX	.00091	.00091	0 0
63	tab16	PX	.00091	.00091	0 0
64	tab15	PX	.00091	.00091	0 0
65	tab14	PX	.00091	.00091	0 0
66	tab13	PX	.00091	.00091	0 0
67	tab12	PX	.00091	.00091	0 0
68	tab11	PX	.00091	.00091	0 0
69	tab10	PX	.00091	.00091	0 0
70	tab9	PX	.00091	.00091	0 0
71	tab8	PX	.00091	.00091	0 0
72	tab7	PX	.00091	.00091	0 0
73	tab6	PX	.00091	.00091	0 0
74	VERT12	PX	.002	.002	0 0
75	VERT11	PX	.002	.002	0 0
76	VERT10	PX	.002	.002	0 0
77	VERT9	PX	.002	.002	0 0
78	VERT8	PX	.003	.003	0 0
79	VERT7	PX	.003	.003	0 0
80	VERT6	PX	.003	.003	0 0
81	VERT5	PX	.003	.003	0 0
82	VERT4	PX	.003	.003	0 0
83	VERT3	PX	.003	.003	0 0
84	VERT2	PX	.003	.003	0 0
85	VERT1	PX	.003	.003	0 0
86	Tab5	PX	.00091	.00091	0 0
87	Tab4	PX	.00091	.00091	0 0
88	Tab3	PX	.00091	.00091	0 0
89	Tab2	PX	.00091	.00091	0 0
90	Tab1	PX	.00091	.00091	0 0
91	SO3	PX	.005	.005	0 0
92	SO2	PX	.005	.005	0 0
93	SO1	PX	.005	.005	0 0
94	RAIL3	PX	.00091	.00091	0 0
95	RAIL2	PX	.002	.002	0 0
96	RAIL1	PX	.002	.002	0 0
97	PLATE3	PX	.00091	.00091	0 0
98	PLATE2	PX	.00091	.00091	0 0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
99	PLATE1	PX	.00091	.00091	0	0
100	PIPE3	PX	.005	.005	0	0
101	PIPE2	PX	.005	.005	0	0
102	PIPE1	PX	.005	.005	0	0
103	MP GAMMA4	PX	.005	.005	0	0
104	MP GAMMA3	PX	.005	.005	0	0
105	MP GAMMA2	PX	.005	.005	0	0
106	MP GAMMA1	PX	.005	.005	0	0
107	MP BETA4	PX	.005	.005	0	0
108	MP BETA3	PX	.005	.005	0	0
109	MP BETA2	PX	.005	.005	0	0
110	MP BETA1	PX	.005	.005	0	0
111	MP ALPHA4	PX	.005	.005	0	0
112	MP ALPHA3	PX	.005	.005	0	0
113	MP ALPHA2	PX	.005	.005	0	0
114	MP ALPHA1	PX	.005	.005	0	0
115	MID RAIL3	PX	.005	.005	0	0
116	MID RAIL2	PX	.009	.009	0	0
117	MID RAIL1	PX	.009	.009	0	0
118	FACE3	PX	.003	.003	0	0
119	FACE2	PX	.006	.006	0	0
120	FACE1	PX	.006	.006	0	0
121	M112	PY	-.005	-.005	0	0
122	M112	PX	.003	.003	0	0
123	M113	PY	-.005	-.005	0	0
124	M113	PX	.003	.003	0	0
125	M114	PY	-.005	-.005	0	0
126	M114	PX	.003	.003	0	0
127	NEW RAIL1	PY	-.003	-.003	0	0
128	NEW RAIL1	PX	.002	.002	0	0
129	NEW RAIL3	PY	-.003	-.003	0	0
130	NEW RAIL3	PX	.002	.002	0	0
131	NEW RAIL2	PY	-.003	-.003	0	0
132	NEW RAIL2	PX	.002	.002	0	0
133	SK2	PY	-.003	-.003	0	0
134	SK2	PX	.002	.002	0	0
135	SK1	PY	-.003	-.003	0	0
136	SK1	PX	.002	.002	0	0
137	SK6	PY	-.003	-.003	0	0
138	SK6	PX	.002	.002	0	0
139	SK5	PY	-.003	-.003	0	0
140	SK5	PX	.002	.002	0	0
141	SK4	PY	-.003	-.003	0	0
142	SK4	PX	.002	.002	0	0
143	SK3	PY	-.003	-.003	0	0
144	SK3	PX	.002	.002	0	0
145	BRACE1	PY	-.003	-.003	0	0
146	BRACE1	PX	.002	.002	0	0
147	BRACE3	PY	-.003	-.003	0	0
148	BRACE3	PX	.002	.002	0	0
149	BRACE2	PY	-.003	-.003	0	0
150	BRACE2	PX	.002	.002	0	0

Member Distributed Loads (BLC 15 : Maintenance (0))

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
1	tab18	PY	-.00011	-.00011	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 15 : Maintenance (0)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
2	tab17	PY	-0.0011	-0.0011	0	0
3	tab16	PY	-0.0011	-0.0011	0	0
4	tab15	PY	-0.0011	-0.0011	0	0
5	tab14	PY	-0.0011	-0.0011	0	0
6	tab13	PY	-0.0011	-0.0011	0	0
7	tab12	PY	-0.0011	-0.0011	0	0
8	tab11	PY	-0.0011	-0.0011	0	0
9	tab10	PY	-0.0011	-0.0011	0	0
10	tab9	PY	-0.0011	-0.0011	0	0
11	tab8	PY	-0.0011	-0.0011	0	0
12	tab7	PY	-0.0011	-0.0011	0	0
13	tab6	PY	-0.0011	-0.0011	0	0
14	VERT12	PY	-0.00192	-0.00192	0	0
15	VERT11	PY	-0.00192	-0.00192	0	0
16	VERT10	PY	-0.00192	-0.00192	0	0
17	VERT9	PY	-0.00192	-0.00192	0	0
18	VERT8	PY	-0.00384	-0.00384	0	0
19	VERT7	PY	-0.00384	-0.00384	0	0
20	VERT6	PY	-0.00384	-0.00384	0	0
21	VERT5	PY	-0.00384	-0.00384	0	0
22	VERT4	PY	-0.00384	-0.00384	0	0
23	VERT3	PY	-0.00384	-0.00384	0	0
24	VERT2	PY	-0.00384	-0.00384	0	0
25	VERT1	PY	-0.00384	-0.00384	0	0
26	Tab5	PY	-0.0011	-0.0011	0	0
27	Tab4	PY	-0.0011	-0.0011	0	0
28	Tab3	PY	-0.0011	-0.0011	0	0
29	Tab2	PY	-0.0011	-0.0011	0	0
30	Tab1	PY	-0.0011	-0.0011	0	0
31	SO3	PY	-0.0055	-0.0055	0	0
32	SO2	PY	-0.0055	-0.0055	0	0
33	SO1	PY	-0.0055	-0.0055	0	0
34	RAIL3	PY	-0.0011	-0.0011	0	0
35	RAIL2	PY	-0.0022	-0.0022	0	0
36	RAIL1	PY	-0.0022	-0.0022	0	0
37	PLATE3	PY	-0.0011	-0.0011	0	0
38	PLATE2	PY	-0.0011	-0.0011	0	0
39	PLATE1	PY	-0.0011	-0.0011	0	0
40	PIPE3	PY	-0.00629	-0.00629	0	0
41	PIPE2	PY	-0.00629	-0.00629	0	0
42	PIPE1	PY	-0.00629	-0.00629	0	0
43	MP GAMMA4	PY	-0.00629	-0.00629	0	0
44	MP GAMMA3	PY	-0.00629	-0.00629	0	0
45	MP GAMMA2	PY	-0.00629	-0.00629	0	0
46	MP GAMMA1	PY	-0.00629	-0.00629	0	0
47	MP BETA4	PY	-0.00629	-0.00629	0	0
48	MP BETA3	PY	-0.00629	-0.00629	0	0
49	MP BETA2	PY	-0.00629	-0.00629	0	0
50	MP BETA1	PY	-0.00629	-0.00629	0	0
51	MP ALPHA4	PY	-0.00629	-0.00629	0	0
52	MP ALPHA3	PY	-0.00629	-0.00629	0	0
53	MP ALPHA2	PY	-0.00629	-0.00629	0	0
54	MP ALPHA1	PY	-0.00629	-0.00629	0	0
55	MID RAIL3	PY	-0.0055	-0.0055	0	0
56	MID RAIL2	PY	-0.001	-0.001	0	0
57	MID RAIL1	PY	-0.001	-0.001	0	0
58	FACE3	PY	-0.00385	-0.00385	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 15 : Maintenance (0)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
59	FACE2	PY	-0.0077	-0.0077	0	0
60	FACE1	PY	-0.0077	-0.0077	0	0
61	M112	PY	-0.00384	-0.00384	0	0
62	M113	PY	-0.00384	-0.00384	0	0
63	M114	PY	-0.00384	-0.00384	0	0
64	NEW RAIL1	PY	-0.0022	-0.0022	0	0
65	NEW RAIL3	PY	-0.0022	-0.0022	0	0
66	NEW RAIL2	PY	-0.0022	-0.0022	0	0
67	SK2	PY	-0.0022	-0.0022	0	0
68	SK1	PY	-0.0022	-0.0022	0	0
69	SK6	PY	-0.0022	-0.0022	0	0
70	SK5	PY	-0.0022	-0.0022	0	0
71	SK4	PY	-0.0022	-0.0022	0	0
72	SK3	PY	-0.0022	-0.0022	0	0
73	BRACE1	PY	-0.0022	-0.0022	0	0
74	BRACE3	PY	-0.0022	-0.0022	0	0
75	BRACE2	PY	-0.0022	-0.0022	0	0

Member Distributed Loads (BLC 16 : Maintenance (30))

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
1	tab18	PY	-9.5e-5	-9.5e-5	0	0
2	tab17	PY	-9.5e-5	-9.5e-5	0	0
3	tab16	PY	-9.5e-5	-9.5e-5	0	0
4	tab15	PY	-9.5e-5	-9.5e-5	0	0
5	tab14	PY	-9.5e-5	-9.5e-5	0	0
6	tab13	PY	-9.5e-5	-9.5e-5	0	0
7	tab12	PY	-9.5e-5	-9.5e-5	0	0
8	tab11	PY	-9.5e-5	-9.5e-5	0	0
9	tab10	PY	-9.5e-5	-9.5e-5	0	0
10	tab9	PY	-9.5e-5	-9.5e-5	0	0
11	tab8	PY	-9.5e-5	-9.5e-5	0	0
12	tab7	PY	-9.5e-5	-9.5e-5	0	0
13	tab6	PY	-9.5e-5	-9.5e-5	0	0
14	VERT12	PY	-0.00166	-0.00166	0	0
15	VERT11	PY	-0.00166	-0.00166	0	0
16	VERT10	PY	-0.00166	-0.00166	0	0
17	VERT9	PY	-0.00166	-0.00166	0	0
18	VERT8	PY	-0.00332	-0.00332	0	0
19	VERT7	PY	-0.00332	-0.00332	0	0
20	VERT6	PY	-0.00332	-0.00332	0	0
21	VERT5	PY	-0.00332	-0.00332	0	0
22	VERT4	PY	-0.00332	-0.00332	0	0
23	VERT3	PY	-0.00332	-0.00332	0	0
24	VERT2	PY	-0.00332	-0.00332	0	0
25	VERT1	PY	-0.00332	-0.00332	0	0
26	Tab5	PY	-9.5e-5	-9.5e-5	0	0
27	Tab4	PY	-9.5e-5	-9.5e-5	0	0
28	Tab3	PY	-9.5e-5	-9.5e-5	0	0
29	Tab2	PY	-9.5e-5	-9.5e-5	0	0
30	Tab1	PY	-9.5e-5	-9.5e-5	0	0
31	SO3	PY	-0.00476	-0.00476	0	0
32	SO2	PY	-0.00476	-0.00476	0	0
33	SO1	PY	-0.00476	-0.00476	0	0
34	RAIL3	PY	-9.5e-5	-9.5e-5	0	0
35	RAIL2	PY	-0.00191	-0.00191	0	0
36	RAIL1	PY	-0.00191	-0.00191	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 16 : Maintenance (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
37	PLATE3	PY	-9.5e-5	-9.5e-5	0	0
38	PLATE2	PY	-9.5e-5	-9.5e-5	0	0
39	PLATE1	PY	-9.5e-5	-9.5e-5	0	0
40	PIPE3	PY	-0.000545	-0.000545	0	0
41	PIPE2	PY	-0.000545	-0.000545	0	0
42	PIPE1	PY	-0.000545	-0.000545	0	0
43	MP GAMMA4	PY	-0.000545	-0.000545	0	0
44	MP GAMMA3	PY	-0.000545	-0.000545	0	0
45	MP GAMMA2	PY	-0.000545	-0.000545	0	0
46	MP GAMMA1	PY	-0.000545	-0.000545	0	0
47	MP BETA4	PY	-0.000545	-0.000545	0	0
48	MP BETA3	PY	-0.000545	-0.000545	0	0
49	MP BETA2	PY	-0.000545	-0.000545	0	0
50	MP BETA1	PY	-0.000545	-0.000545	0	0
51	MP ALPHA4	PY	-0.000545	-0.000545	0	0
52	MP ALPHA3	PY	-0.000545	-0.000545	0	0
53	MP ALPHA2	PY	-0.000545	-0.000545	0	0
54	MP ALPHA1	PY	-0.000545	-0.000545	0	0
55	MID RAIL3	PY	-0.000476	-0.000476	0	0
56	MID RAIL2	PY	-0.000953	-0.000953	0	0
57	MID RAIL1	PY	-0.000953	-0.000953	0	0
58	FACE3	PY	-0.000334	-0.000334	0	0
59	FACE2	PY	-0.000667	-0.000667	0	0
60	FACE1	PY	-0.000667	-0.000667	0	0
61	tab18	PX	-5.5e-5	-5.5e-5	0	0
62	tab17	PX	-5.5e-5	-5.5e-5	0	0
63	tab16	PX	-5.5e-5	-5.5e-5	0	0
64	tab15	PX	-5.5e-5	-5.5e-5	0	0
65	tab14	PX	-5.5e-5	-5.5e-5	0	0
66	tab13	PX	-5.5e-5	-5.5e-5	0	0
67	tab12	PX	-5.5e-5	-5.5e-5	0	0
68	tab11	PX	-5.5e-5	-5.5e-5	0	0
69	tab10	PX	-5.5e-5	-5.5e-5	0	0
70	tab9	PX	-5.5e-5	-5.5e-5	0	0
71	tab8	PX	-5.5e-5	-5.5e-5	0	0
72	tab7	PX	-5.5e-5	-5.5e-5	0	0
73	tab6	PX	-5.5e-5	-5.5e-5	0	0
74	VERT12	PX	-9.6e-5	-9.6e-5	0	0
75	VERT11	PX	-9.6e-5	-9.6e-5	0	0
76	VERT10	PX	-9.6e-5	-9.6e-5	0	0
77	VERT9	PX	-9.6e-5	-9.6e-5	0	0
78	VERT8	PX	-0.000192	-0.000192	0	0
79	VERT7	PX	-0.000192	-0.000192	0	0
80	VERT6	PX	-0.000192	-0.000192	0	0
81	VERT5	PX	-0.000192	-0.000192	0	0
82	VERT4	PX	-0.000192	-0.000192	0	0
83	VERT3	PX	-0.000192	-0.000192	0	0
84	VERT2	PX	-0.000192	-0.000192	0	0
85	VERT1	PX	-0.000192	-0.000192	0	0
86	Tab5	PX	-5.5e-5	-5.5e-5	0	0
87	Tab4	PX	-5.5e-5	-5.5e-5	0	0
88	Tab3	PX	-5.5e-5	-5.5e-5	0	0
89	Tab2	PX	-5.5e-5	-5.5e-5	0	0
90	Tab1	PX	-5.5e-5	-5.5e-5	0	0
91	SO3	PX	-0.000275	-0.000275	0	0
92	SO2	PX	-0.000275	-0.000275	0	0
93	SO1	PX	-0.000275	-0.000275	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 16 : Maintenance (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]	
94	RAIL3	PX	-5.5e-5	-5.5e-5	0	0
95	RAIL2	PX	-0.0011	-0.0011	0	0
96	RAIL1	PX	-0.0011	-0.0011	0	0
97	PLATE3	PX	-5.5e-5	-5.5e-5	0	0
98	PLATE2	PX	-5.5e-5	-5.5e-5	0	0
99	PLATE1	PX	-5.5e-5	-5.5e-5	0	0
100	PIPE3	PX	-0.00315	-0.00315	0	0
101	PIPE2	PX	-0.00315	-0.00315	0	0
102	PIPE1	PX	-0.00315	-0.00315	0	0
103	MP GAMMA4	PX	-0.00315	-0.00315	0	0
104	MP GAMMA3	PX	-0.00315	-0.00315	0	0
105	MP GAMMA2	PX	-0.00315	-0.00315	0	0
106	MP GAMMA1	PX	-0.00315	-0.00315	0	0
107	MP BETA4	PX	-0.00315	-0.00315	0	0
108	MP BETA3	PX	-0.00315	-0.00315	0	0
109	MP BETA2	PX	-0.00315	-0.00315	0	0
110	MP BETA1	PX	-0.00315	-0.00315	0	0
111	MP ALPHA4	PX	-0.00315	-0.00315	0	0
112	MP ALPHA3	PX	-0.00315	-0.00315	0	0
113	MP ALPHA2	PX	-0.00315	-0.00315	0	0
114	MP ALPHA1	PX	-0.00315	-0.00315	0	0
115	MID RAIL3	PX	-0.00275	-0.00275	0	0
116	MID RAIL2	PX	-0.0055	-0.0055	0	0
117	MID RAIL1	PX	-0.0055	-0.0055	0	0
118	FACE3	PX	-0.00193	-0.00193	0	0
119	FACE2	PX	-0.00385	-0.00385	0	0
120	FACE1	PX	-0.00385	-0.00385	0	0
121	M112	PY	-0.00332	-0.00332	0	0
122	M112	PX	-0.00192	-0.00192	0	0
123	M113	PY	-0.00332	-0.00332	0	0
124	M113	PX	-0.00192	-0.00192	0	0
125	M114	PY	-0.00332	-0.00332	0	0
126	M114	PX	-0.00192	-0.00192	0	0
127	NEW RAIL1	PY	-0.00191	-0.00191	0	0
128	NEW RAIL1	PX	-0.0011	-0.0011	0	0
129	NEW RAIL3	PY	-0.00191	-0.00191	0	0
130	NEW RAIL3	PX	-0.0011	-0.0011	0	0
131	NEW RAIL2	PY	-0.00191	-0.00191	0	0
132	NEW RAIL2	PX	-0.0011	-0.0011	0	0
133	SK2	PY	-0.00191	-0.00191	0	0
134	SK2	PX	-0.0011	-0.0011	0	0
135	SK1	PY	-0.00191	-0.00191	0	0
136	SK1	PX	-0.0011	-0.0011	0	0
137	SK6	PY	-0.00191	-0.00191	0	0
138	SK6	PX	-0.0011	-0.0011	0	0
139	SK5	PY	-0.00191	-0.00191	0	0
140	SK5	PX	-0.0011	-0.0011	0	0
141	SK4	PY	-0.00191	-0.00191	0	0
142	SK4	PX	-0.0011	-0.0011	0	0
143	SK3	PY	-0.00191	-0.00191	0	0
144	SK3	PX	-0.0011	-0.0011	0	0
145	BRACE1	PY	-0.00191	-0.00191	0	0
146	BRACE1	PX	-0.0011	-0.0011	0	0
147	BRACE3	PY	-0.00191	-0.00191	0	0
148	BRACE3	PX	-0.0011	-0.0011	0	0
149	BRACE2	PY	-0.00191	-0.00191	0	0
150	BRACE2	PX	-0.0011	-0.0011	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 17 : Maintenance (60))

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
1	tab18	PY	-5.5e-5	-5.5e-5	0	0
2	tab17	PY	-5.5e-5	-5.5e-5	0	0
3	tab16	PY	-5.5e-5	-5.5e-5	0	0
4	tab15	PY	-5.5e-5	-5.5e-5	0	0
5	tab14	PY	-5.5e-5	-5.5e-5	0	0
6	tab13	PY	-5.5e-5	-5.5e-5	0	0
7	tab12	PY	-5.5e-5	-5.5e-5	0	0
8	tab11	PY	-5.5e-5	-5.5e-5	0	0
9	tab10	PY	-5.5e-5	-5.5e-5	0	0
10	tab9	PY	-5.5e-5	-5.5e-5	0	0
11	tab8	PY	-5.5e-5	-5.5e-5	0	0
12	tab7	PY	-5.5e-5	-5.5e-5	0	0
13	tab6	PY	-5.5e-5	-5.5e-5	0	0
14	VERT12	PY	-9.6e-5	-9.6e-5	0	0
15	VERT11	PY	-9.6e-5	-9.6e-5	0	0
16	VERT10	PY	-9.6e-5	-9.6e-5	0	0
17	VERT9	PY	-9.6e-5	-9.6e-5	0	0
18	VERT8	PY	-.000192	-.000192	0	0
19	VERT7	PY	-.000192	-.000192	0	0
20	VERT6	PY	-.000192	-.000192	0	0
21	VERT5	PY	-.000192	-.000192	0	0
22	VERT4	PY	-.000192	-.000192	0	0
23	VERT3	PY	-.000192	-.000192	0	0
24	VERT2	PY	-.000192	-.000192	0	0
25	VERT1	PY	-.000192	-.000192	0	0
26	Tab5	PY	-5.5e-5	-5.5e-5	0	0
27	Tab4	PY	-5.5e-5	-5.5e-5	0	0
28	Tab3	PY	-5.5e-5	-5.5e-5	0	0
29	Tab2	PY	-5.5e-5	-5.5e-5	0	0
30	Tab1	PY	-5.5e-5	-5.5e-5	0	0
31	SO3	PY	-.000275	-.000275	0	0
32	SO2	PY	-.000275	-.000275	0	0
33	SO1	PY	-.000275	-.000275	0	0
34	RAIL3	PY	-5.5e-5	-5.5e-5	0	0
35	RAIL2	PY	-.00011	-.00011	0	0
36	RAIL1	PY	-.00011	-.00011	0	0
37	PLATE3	PY	-5.5e-5	-5.5e-5	0	0
38	PLATE2	PY	-5.5e-5	-5.5e-5	0	0
39	PLATE1	PY	-5.5e-5	-5.5e-5	0	0
40	PIPE3	PY	-.000315	-.000315	0	0
41	PIPE2	PY	-.000315	-.000315	0	0
42	PIPE1	PY	-.000315	-.000315	0	0
43	MP GAMMA4	PY	-.000315	-.000315	0	0
44	MP GAMMA3	PY	-.000315	-.000315	0	0
45	MP GAMMA2	PY	-.000315	-.000315	0	0
46	MP GAMMA1	PY	-.000315	-.000315	0	0
47	MP BETA4	PY	-.000315	-.000315	0	0
48	MP BETA3	PY	-.000315	-.000315	0	0
49	MP BETA2	PY	-.000315	-.000315	0	0
50	MP BETA1	PY	-.000315	-.000315	0	0
51	MP ALPHA4	PY	-.000315	-.000315	0	0
52	MP ALPHA3	PY	-.000315	-.000315	0	0
53	MP ALPHA2	PY	-.000315	-.000315	0	0
54	MP ALPHA1	PY	-.000315	-.000315	0	0
55	MID RAIL3	PY	-.000275	-.000275	0	0
56	MID RAIL2	PY	-.00055	-.00055	0	0
57	MID RAIL1	PY	-.00055	-.00055	0	0



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Member Distributed Loads (BLC 17 : Maintenance (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]	
58	FACE3	PY	-0.00193	-0.00193	0	0
59	FACE2	PY	-0.00385	-0.00385	0	0
60	FACE1	PY	-0.00385	-0.00385	0	0
61	tab18	PX	-9.5e-5	-9.5e-5	0	0
62	tab17	PX	-9.5e-5	-9.5e-5	0	0
63	tab16	PX	-9.5e-5	-9.5e-5	0	0
64	tab15	PX	-9.5e-5	-9.5e-5	0	0
65	tab14	PX	-9.5e-5	-9.5e-5	0	0
66	tab13	PX	-9.5e-5	-9.5e-5	0	0
67	tab12	PX	-9.5e-5	-9.5e-5	0	0
68	tab11	PX	-9.5e-5	-9.5e-5	0	0
69	tab10	PX	-9.5e-5	-9.5e-5	0	0
70	tab9	PX	-9.5e-5	-9.5e-5	0	0
71	tab8	PX	-9.5e-5	-9.5e-5	0	0
72	tab7	PX	-9.5e-5	-9.5e-5	0	0
73	tab6	PX	-9.5e-5	-9.5e-5	0	0
74	VERT12	PX	-0.00166	-0.00166	0	0
75	VERT11	PX	-0.00166	-0.00166	0	0
76	VERT10	PX	-0.00166	-0.00166	0	0
77	VERT9	PX	-0.00166	-0.00166	0	0
78	VERT8	PX	-0.00332	-0.00332	0	0
79	VERT7	PX	-0.00332	-0.00332	0	0
80	VERT6	PX	-0.00332	-0.00332	0	0
81	VERT5	PX	-0.00332	-0.00332	0	0
82	VERT4	PX	-0.00332	-0.00332	0	0
83	VERT3	PX	-0.00332	-0.00332	0	0
84	VERT2	PX	-0.00332	-0.00332	0	0
85	VERT1	PX	-0.00332	-0.00332	0	0
86	Tab5	PX	-9.5e-5	-9.5e-5	0	0
87	Tab4	PX	-9.5e-5	-9.5e-5	0	0
88	Tab3	PX	-9.5e-5	-9.5e-5	0	0
89	Tab2	PX	-9.5e-5	-9.5e-5	0	0
90	Tab1	PX	-9.5e-5	-9.5e-5	0	0
91	SO3	PX	-0.00476	-0.00476	0	0
92	SO2	PX	-0.00476	-0.00476	0	0
93	SO1	PX	-0.00476	-0.00476	0	0
94	RAIL3	PX	-9.5e-5	-9.5e-5	0	0
95	RAIL2	PX	-0.00191	-0.00191	0	0
96	RAIL1	PX	-0.00191	-0.00191	0	0
97	PLATE3	PX	-9.5e-5	-9.5e-5	0	0
98	PLATE2	PX	-9.5e-5	-9.5e-5	0	0
99	PLATE1	PX	-9.5e-5	-9.5e-5	0	0
100	PIPE3	PX	-0.00545	-0.00545	0	0
101	PIPE2	PX	-0.00545	-0.00545	0	0
102	PIPE1	PX	-0.00545	-0.00545	0	0
103	MP GAMMA4	PX	-0.00545	-0.00545	0	0
104	MP GAMMA3	PX	-0.00545	-0.00545	0	0
105	MP GAMMA2	PX	-0.00545	-0.00545	0	0
106	MP GAMMA1	PX	-0.00545	-0.00545	0	0
107	MP BETA4	PX	-0.00545	-0.00545	0	0
108	MP BETA3	PX	-0.00545	-0.00545	0	0
109	MP BETA2	PX	-0.00545	-0.00545	0	0
110	MP BETA1	PX	-0.00545	-0.00545	0	0
111	MP ALPHA4	PX	-0.00545	-0.00545	0	0
112	MP ALPHA3	PX	-0.00545	-0.00545	0	0
113	MP ALPHA2	PX	-0.00545	-0.00545	0	0
114	MP ALPHA1	PX	-0.00545	-0.00545	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
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Member Distributed Loads (BLC 17 : Maintenance (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
115	MID RAIL3	PX	-0.000476	-0.000476	0 0
116	MID RAIL2	PX	-0.000953	-0.000953	0 0
117	MID RAIL1	PX	-0.000953	-0.000953	0 0
118	FACE3	PX	-0.000334	-0.000334	0 0
119	FACE2	PX	-0.000667	-0.000667	0 0
120	FACE1	PX	-0.000667	-0.000667	0 0
121	M112	PY	-0.000192	-0.000192	0 0
122	M112	PX	-0.000332	-0.000332	0 0
123	M113	PY	-0.000192	-0.000192	0 0
124	M113	PX	-0.000332	-0.000332	0 0
125	M114	PY	-0.000192	-0.000192	0 0
126	M114	PX	-0.000332	-0.000332	0 0
127	NEW RAIL1	PY	-0.00011	-0.00011	0 0
128	NEW RAIL1	PX	-0.000191	-0.000191	0 0
129	NEW RAIL3	PY	-0.00011	-0.00011	0 0
130	NEW RAIL3	PX	-0.000191	-0.000191	0 0
131	NEW RAIL2	PY	-0.00011	-0.00011	0 0
132	NEW RAIL2	PX	-0.000191	-0.000191	0 0
133	SK2	PY	-0.00011	-0.00011	0 0
134	SK2	PX	-0.000191	-0.000191	0 0
135	SK1	PY	-0.00011	-0.00011	0 0
136	SK1	PX	-0.000191	-0.000191	0 0
137	SK6	PY	-0.00011	-0.00011	0 0
138	SK6	PX	-0.000191	-0.000191	0 0
139	SK5	PY	-0.00011	-0.00011	0 0
140	SK5	PX	-0.000191	-0.000191	0 0
141	SK4	PY	-0.00011	-0.00011	0 0
142	SK4	PX	-0.000191	-0.000191	0 0
143	SK3	PY	-0.00011	-0.00011	0 0
144	SK3	PX	-0.000191	-0.000191	0 0
145	BRACE1	PY	-0.00011	-0.00011	0 0
146	BRACE1	PX	-0.000191	-0.000191	0 0
147	BRACE3	PY	-0.00011	-0.00011	0 0
148	BRACE3	PX	-0.000191	-0.000191	0 0
149	BRACE2	PY	-0.00011	-0.00011	0 0
150	BRACE2	PX	-0.000191	-0.000191	0 0

Member Distributed Loads (BLC 18 : Maintenance (90))

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
1	tab18	PX	-0.00011	-0.00011	0 0
2	tab17	PX	-0.00011	-0.00011	0 0
3	tab16	PX	-0.00011	-0.00011	0 0
4	tab15	PX	-0.00011	-0.00011	0 0
5	tab14	PX	-0.00011	-0.00011	0 0
6	tab13	PX	-0.00011	-0.00011	0 0
7	tab12	PX	-0.00011	-0.00011	0 0
8	tab11	PX	-0.00011	-0.00011	0 0
9	tab10	PX	-0.00011	-0.00011	0 0
10	tab9	PX	-0.00011	-0.00011	0 0
11	tab8	PX	-0.00011	-0.00011	0 0
12	tab7	PX	-0.00011	-0.00011	0 0
13	tab6	PX	-0.00011	-0.00011	0 0
14	VERT12	PX	-0.000192	-0.000192	0 0
15	VERT11	PX	-0.000192	-0.000192	0 0
16	VERT10	PX	-0.000192	-0.000192	0 0
17	VERT9	PX	-0.000192	-0.000192	0 0



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Member Distributed Loads (BLC 18 : Maintenance (90)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
18	VERT8	PX	-0.00384	-0.00384	0 0
19	VERT7	PX	-0.00384	-0.00384	0 0
20	VERT6	PX	-0.00384	-0.00384	0 0
21	VERT5	PX	-0.00384	-0.00384	0 0
22	VERT4	PX	-0.00384	-0.00384	0 0
23	VERT3	PX	-0.00384	-0.00384	0 0
24	VERT2	PX	-0.00384	-0.00384	0 0
25	VERT1	PX	-0.00384	-0.00384	0 0
26	Tab5	PX	-0.0011	-0.0011	0 0
27	Tab4	PX	-0.0011	-0.0011	0 0
28	Tab3	PX	-0.0011	-0.0011	0 0
29	Tab2	PX	-0.0011	-0.0011	0 0
30	Tab1	PX	-0.0011	-0.0011	0 0
31	SO3	PX	-0.0055	-0.0055	0 0
32	SO2	PX	-0.0055	-0.0055	0 0
33	SO1	PX	-0.0055	-0.0055	0 0
34	RAIL3	PX	-0.0011	-0.0011	0 0
35	RAIL2	PX	-0.0022	-0.0022	0 0
36	RAIL1	PX	-0.0022	-0.0022	0 0
37	PLATE3	PX	-0.0011	-0.0011	0 0
38	PLATE2	PX	-0.0011	-0.0011	0 0
39	PLATE1	PX	-0.0011	-0.0011	0 0
40	PIPE3	PX	-0.00629	-0.00629	0 0
41	PIPE2	PX	-0.00629	-0.00629	0 0
42	PIPE1	PX	-0.00629	-0.00629	0 0
43	MP GAMMA4	PX	-0.00629	-0.00629	0 0
44	MP GAMMA3	PX	-0.00629	-0.00629	0 0
45	MP GAMMA2	PX	-0.00629	-0.00629	0 0
46	MP GAMMA1	PX	-0.00629	-0.00629	0 0
47	MP BETA4	PX	-0.00629	-0.00629	0 0
48	MP BETA3	PX	-0.00629	-0.00629	0 0
49	MP BETA2	PX	-0.00629	-0.00629	0 0
50	MP BETA1	PX	-0.00629	-0.00629	0 0
51	MP ALPHA4	PX	-0.00629	-0.00629	0 0
52	MP ALPHA3	PX	-0.00629	-0.00629	0 0
53	MP ALPHA2	PX	-0.00629	-0.00629	0 0
54	MP ALPHA1	PX	-0.00629	-0.00629	0 0
55	MID RAIL3	PX	-0.0055	-0.0055	0 0
56	MID RAIL2	PX	-0.001	-0.001	0 0
57	MID RAIL1	PX	-0.001	-0.001	0 0
58	FACE3	PX	-0.00385	-0.00385	0 0
59	FACE2	PX	-0.0077	-0.0077	0 0
60	FACE1	PX	-0.0077	-0.0077	0 0
61	M112	PX	-0.00384	-0.00384	0 0
62	M113	PX	-0.00384	-0.00384	0 0
63	M114	PX	-0.00384	-0.00384	0 0
64	NEW RAIL1	PX	-0.0022	-0.0022	0 0
65	NEW RAIL3	PX	-0.0022	-0.0022	0 0
66	NEW RAIL2	PX	-0.0022	-0.0022	0 0
67	SK2	PX	-0.0022	-0.0022	0 0
68	SK1	PX	-0.0022	-0.0022	0 0
69	SK6	PX	-0.0022	-0.0022	0 0
70	SK5	PX	-0.0022	-0.0022	0 0
71	SK4	PX	-0.0022	-0.0022	0 0
72	SK3	PX	-0.0022	-0.0022	0 0
73	BRACE1	PX	-0.0022	-0.0022	0 0
74	BRACE3	PX	-0.0022	-0.0022	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 18 : Maintenance (90)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
75	BRACE2	PX	-0.0022	-0.0022	0 0

Member Distributed Loads (BLC 19 : Maintenance (120))

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
1	tab18	PY	5.5e-5	5.5e-5	0 0
2	tab17	PY	5.5e-5	5.5e-5	0 0
3	tab16	PY	5.5e-5	5.5e-5	0 0
4	tab15	PY	5.5e-5	5.5e-5	0 0
5	tab14	PY	5.5e-5	5.5e-5	0 0
6	tab13	PY	5.5e-5	5.5e-5	0 0
7	tab12	PY	5.5e-5	5.5e-5	0 0
8	tab11	PY	5.5e-5	5.5e-5	0 0
9	tab10	PY	5.5e-5	5.5e-5	0 0
10	tab9	PY	5.5e-5	5.5e-5	0 0
11	tab8	PY	5.5e-5	5.5e-5	0 0
12	tab7	PY	5.5e-5	5.5e-5	0 0
13	tab6	PY	5.5e-5	5.5e-5	0 0
14	VERT12	PY	9.6e-5	9.6e-5	0 0
15	VERT11	PY	9.6e-5	9.6e-5	0 0
16	VERT10	PY	9.6e-5	9.6e-5	0 0
17	VERT9	PY	9.6e-5	9.6e-5	0 0
18	VERT8	PY	.000192	.000192	0 0
19	VERT7	PY	.000192	.000192	0 0
20	VERT6	PY	.000192	.000192	0 0
21	VERT5	PY	.000192	.000192	0 0
22	VERT4	PY	.000192	.000192	0 0
23	VERT3	PY	.000192	.000192	0 0
24	VERT2	PY	.000192	.000192	0 0
25	VERT1	PY	.000192	.000192	0 0
26	Tab5	PY	5.5e-5	5.5e-5	0 0
27	Tab4	PY	5.5e-5	5.5e-5	0 0
28	Tab3	PY	5.5e-5	5.5e-5	0 0
29	Tab2	PY	5.5e-5	5.5e-5	0 0
30	Tab1	PY	5.5e-5	5.5e-5	0 0
31	SO3	PY	.000275	.000275	0 0
32	SO2	PY	.000275	.000275	0 0
33	SO1	PY	.000275	.000275	0 0
34	RAIL3	PY	5.5e-5	5.5e-5	0 0
35	RAIL2	PY	.00011	.00011	0 0
36	RAIL1	PY	.00011	.00011	0 0
37	PLATE3	PY	5.5e-5	5.5e-5	0 0
38	PLATE2	PY	5.5e-5	5.5e-5	0 0
39	PLATE1	PY	5.5e-5	5.5e-5	0 0
40	PIPE3	PY	.000315	.000315	0 0
41	PIPE2	PY	.000315	.000315	0 0
42	PIPE1	PY	.000315	.000315	0 0
43	MP GAMMA4	PY	.000315	.000315	0 0
44	MP GAMMA3	PY	.000315	.000315	0 0
45	MP GAMMA2	PY	.000315	.000315	0 0
46	MP GAMMA1	PY	.000315	.000315	0 0
47	MP BETA4	PY	.000315	.000315	0 0
48	MP BETA3	PY	.000315	.000315	0 0
49	MP BETA2	PY	.000315	.000315	0 0
50	MP BETA1	PY	.000315	.000315	0 0
51	MP ALPHA4	PY	.000315	.000315	0 0
52	MP ALPHA3	PY	.000315	.000315	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 19 : Maintenance (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
53	MP ALPHA2	PY	.000315	.000315	0 0
54	MP ALPHA1	PY	.000315	.000315	0 0
55	MID RAIL3	PY	.000275	.000275	0 0
56	MID RAIL2	PY	.00055	.00055	0 0
57	MID RAIL1	PY	.00055	.00055	0 0
58	FACE3	PY	.000193	.000193	0 0
59	FACE2	PY	.000385	.000385	0 0
60	FACE1	PY	.000385	.000385	0 0
61	tab18	PX	-9.5e-5	-9.5e-5	0 0
62	tab17	PX	-9.5e-5	-9.5e-5	0 0
63	tab16	PX	-9.5e-5	-9.5e-5	0 0
64	tab15	PX	-9.5e-5	-9.5e-5	0 0
65	tab14	PX	-9.5e-5	-9.5e-5	0 0
66	tab13	PX	-9.5e-5	-9.5e-5	0 0
67	tab12	PX	-9.5e-5	-9.5e-5	0 0
68	tab11	PX	-9.5e-5	-9.5e-5	0 0
69	tab10	PX	-9.5e-5	-9.5e-5	0 0
70	tab9	PX	-9.5e-5	-9.5e-5	0 0
71	tab8	PX	-9.5e-5	-9.5e-5	0 0
72	tab7	PX	-9.5e-5	-9.5e-5	0 0
73	tab6	PX	-9.5e-5	-9.5e-5	0 0
74	VERT12	PX	-.000166	-.000166	0 0
75	VERT11	PX	-.000166	-.000166	0 0
76	VERT10	PX	-.000166	-.000166	0 0
77	VERT9	PX	-.000166	-.000166	0 0
78	VERT8	PX	-.000332	-.000332	0 0
79	VERT7	PX	-.000332	-.000332	0 0
80	VERT6	PX	-.000332	-.000332	0 0
81	VERT5	PX	-.000332	-.000332	0 0
82	VERT4	PX	-.000332	-.000332	0 0
83	VERT3	PX	-.000332	-.000332	0 0
84	VERT2	PX	-.000332	-.000332	0 0
85	VERT1	PX	-.000332	-.000332	0 0
86	Tab5	PX	-9.5e-5	-9.5e-5	0 0
87	Tab4	PX	-9.5e-5	-9.5e-5	0 0
88	Tab3	PX	-9.5e-5	-9.5e-5	0 0
89	Tab2	PX	-9.5e-5	-9.5e-5	0 0
90	Tab1	PX	-9.5e-5	-9.5e-5	0 0
91	SO3	PX	-.000476	-.000476	0 0
92	SO2	PX	-.000476	-.000476	0 0
93	SO1	PX	-.000476	-.000476	0 0
94	RAIL3	PX	-9.5e-5	-9.5e-5	0 0
95	RAIL2	PX	-.000191	-.000191	0 0
96	RAIL1	PX	-.000191	-.000191	0 0
97	PLATE3	PX	-9.5e-5	-9.5e-5	0 0
98	PLATE2	PX	-9.5e-5	-9.5e-5	0 0
99	PLATE1	PX	-9.5e-5	-9.5e-5	0 0
100	PIPE3	PX	-.000545	-.000545	0 0
101	PIPE2	PX	-.000545	-.000545	0 0
102	PIPE1	PX	-.000545	-.000545	0 0
103	MP GAMMA4	PX	-.000545	-.000545	0 0
104	MP GAMMA3	PX	-.000545	-.000545	0 0
105	MP GAMMA2	PX	-.000545	-.000545	0 0
106	MP GAMMA1	PX	-.000545	-.000545	0 0
107	MP BETA4	PX	-.000545	-.000545	0 0
108	MP BETA3	PX	-.000545	-.000545	0 0
109	MP BETA2	PX	-.000545	-.000545	0 0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 19 : Maintenance (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
110	MP BETA1	PX	-0.000545	-0.000545	0 0
111	MP ALPHA4	PX	-0.000545	-0.000545	0 0
112	MP ALPHA3	PX	-0.000545	-0.000545	0 0
113	MP ALPHA2	PX	-0.000545	-0.000545	0 0
114	MP ALPHA1	PX	-0.000545	-0.000545	0 0
115	MID RAIL3	PX	-0.000476	-0.000476	0 0
116	MID RAIL2	PX	-0.000953	-0.000953	0 0
117	MID RAIL1	PX	-0.000953	-0.000953	0 0
118	FACE3	PX	-0.000334	-0.000334	0 0
119	FACE2	PX	-0.000667	-0.000667	0 0
120	FACE1	PX	-0.000667	-0.000667	0 0
121	M112	PY	.000192	.000192	0 0
122	M112	PX	-0.000332	-0.000332	0 0
123	M113	PY	.000192	.000192	0 0
124	M113	PX	-0.000332	-0.000332	0 0
125	M114	PY	.000192	.000192	0 0
126	M114	PX	-0.000332	-0.000332	0 0
127	NEW RAIL1	PY	.00011	.00011	0 0
128	NEW RAIL1	PX	-0.000191	-0.000191	0 0
129	NEW RAIL3	PY	.00011	.00011	0 0
130	NEW RAIL3	PX	-0.000191	-0.000191	0 0
131	NEW RAIL2	PY	.00011	.00011	0 0
132	NEW RAIL2	PX	-0.000191	-0.000191	0 0
133	SK2	PY	.00011	.00011	0 0
134	SK2	PX	-0.000191	-0.000191	0 0
135	SK1	PY	.00011	.00011	0 0
136	SK1	PX	-0.000191	-0.000191	0 0
137	SK6	PY	.00011	.00011	0 0
138	SK6	PX	-0.000191	-0.000191	0 0
139	SK5	PY	.00011	.00011	0 0
140	SK5	PX	-0.000191	-0.000191	0 0
141	SK4	PY	.00011	.00011	0 0
142	SK4	PX	-0.000191	-0.000191	0 0
143	SK3	PY	.00011	.00011	0 0
144	SK3	PX	-0.000191	-0.000191	0 0
145	BRACE1	PY	.00011	.00011	0 0
146	BRACE1	PX	-0.000191	-0.000191	0 0
147	BRACE3	PY	.00011	.00011	0 0
148	BRACE3	PX	-0.000191	-0.000191	0 0
149	BRACE2	PY	.00011	.00011	0 0
150	BRACE2	PX	-0.000191	-0.000191	0 0

Member Distributed Loads (BLC 20 : Maintenance (150))

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
1	tab18	PY	9.5e-5	9.5e-5	0 0
2	tab17	PY	9.5e-5	9.5e-5	0 0
3	tab16	PY	9.5e-5	9.5e-5	0 0
4	tab15	PY	9.5e-5	9.5e-5	0 0
5	tab14	PY	9.5e-5	9.5e-5	0 0
6	tab13	PY	9.5e-5	9.5e-5	0 0
7	tab12	PY	9.5e-5	9.5e-5	0 0
8	tab11	PY	9.5e-5	9.5e-5	0 0
9	tab10	PY	9.5e-5	9.5e-5	0 0
10	tab9	PY	9.5e-5	9.5e-5	0 0
11	tab8	PY	9.5e-5	9.5e-5	0 0
12	tab7	PY	9.5e-5	9.5e-5	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 20 : Maintenance (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
13	tab6	PY	9.5e-5	9.5e-5	0 0
14	VERT12	PY	.000166	.000166	0 0
15	VERT11	PY	.000166	.000166	0 0
16	VERT10	PY	.000166	.000166	0 0
17	VERT9	PY	.000166	.000166	0 0
18	VERT8	PY	.000332	.000332	0 0
19	VERT7	PY	.000332	.000332	0 0
20	VERT6	PY	.000332	.000332	0 0
21	VERT5	PY	.000332	.000332	0 0
22	VERT4	PY	.000332	.000332	0 0
23	VERT3	PY	.000332	.000332	0 0
24	VERT2	PY	.000332	.000332	0 0
25	VERT1	PY	.000332	.000332	0 0
26	Tab5	PY	9.5e-5	9.5e-5	0 0
27	Tab4	PY	9.5e-5	9.5e-5	0 0
28	Tab3	PY	9.5e-5	9.5e-5	0 0
29	Tab2	PY	9.5e-5	9.5e-5	0 0
30	Tab1	PY	9.5e-5	9.5e-5	0 0
31	SO3	PY	.000476	.000476	0 0
32	SO2	PY	.000476	.000476	0 0
33	SO1	PY	.000476	.000476	0 0
34	RAIL3	PY	9.5e-5	9.5e-5	0 0
35	RAIL2	PY	.000191	.000191	0 0
36	RAIL1	PY	.000191	.000191	0 0
37	PLATE3	PY	9.5e-5	9.5e-5	0 0
38	PLATE2	PY	9.5e-5	9.5e-5	0 0
39	PLATE1	PY	9.5e-5	9.5e-5	0 0
40	PIPE3	PY	.000545	.000545	0 0
41	PIPE2	PY	.000545	.000545	0 0
42	PIPE1	PY	.000545	.000545	0 0
43	MP GAMMA4	PY	.000545	.000545	0 0
44	MP GAMMA3	PY	.000545	.000545	0 0
45	MP GAMMA2	PY	.000545	.000545	0 0
46	MP GAMMA1	PY	.000545	.000545	0 0
47	MP BETA4	PY	.000545	.000545	0 0
48	MP BETA3	PY	.000545	.000545	0 0
49	MP BETA2	PY	.000545	.000545	0 0
50	MP BETA1	PY	.000545	.000545	0 0
51	MP ALPHA4	PY	.000545	.000545	0 0
52	MP ALPHA3	PY	.000545	.000545	0 0
53	MP ALPHA2	PY	.000545	.000545	0 0
54	MP ALPHA1	PY	.000545	.000545	0 0
55	MID RAIL3	PY	.000476	.000476	0 0
56	MID RAIL2	PY	.000953	.000953	0 0
57	MID RAIL1	PY	.000953	.000953	0 0
58	FACE3	PY	.000334	.000334	0 0
59	FACE2	PY	.000667	.000667	0 0
60	FACE1	PY	.000667	.000667	0 0
61	tab18	PX	-5.5e-5	-5.5e-5	0 0
62	tab17	PX	-5.5e-5	-5.5e-5	0 0
63	tab16	PX	-5.5e-5	-5.5e-5	0 0
64	tab15	PX	-5.5e-5	-5.5e-5	0 0
65	tab14	PX	-5.5e-5	-5.5e-5	0 0
66	tab13	PX	-5.5e-5	-5.5e-5	0 0
67	tab12	PX	-5.5e-5	-5.5e-5	0 0
68	tab11	PX	-5.5e-5	-5.5e-5	0 0
69	tab10	PX	-5.5e-5	-5.5e-5	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 20 : Maintenance (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]
70	tab9	PX	-5.5e-5	-5.5e-5	0 0
71	tab8	PX	-5.5e-5	-5.5e-5	0 0
72	tab7	PX	-5.5e-5	-5.5e-5	0 0
73	tab6	PX	-5.5e-5	-5.5e-5	0 0
74	VERT12	PX	-9.6e-5	-9.6e-5	0 0
75	VERT11	PX	-9.6e-5	-9.6e-5	0 0
76	VERT10	PX	-9.6e-5	-9.6e-5	0 0
77	VERT9	PX	-9.6e-5	-9.6e-5	0 0
78	VERT8	PX	-.000192	-.000192	0 0
79	VERT7	PX	-.000192	-.000192	0 0
80	VERT6	PX	-.000192	-.000192	0 0
81	VERT5	PX	-.000192	-.000192	0 0
82	VERT4	PX	-.000192	-.000192	0 0
83	VERT3	PX	-.000192	-.000192	0 0
84	VERT2	PX	-.000192	-.000192	0 0
85	VERT1	PX	-.000192	-.000192	0 0
86	Tab5	PX	-5.5e-5	-5.5e-5	0 0
87	Tab4	PX	-5.5e-5	-5.5e-5	0 0
88	Tab3	PX	-5.5e-5	-5.5e-5	0 0
89	Tab2	PX	-5.5e-5	-5.5e-5	0 0
90	Tab1	PX	-5.5e-5	-5.5e-5	0 0
91	SO3	PX	-.000275	-.000275	0 0
92	SO2	PX	-.000275	-.000275	0 0
93	SO1	PX	-.000275	-.000275	0 0
94	RAIL3	PX	-5.5e-5	-5.5e-5	0 0
95	RAIL2	PX	-.00011	-.00011	0 0
96	RAIL1	PX	-.00011	-.00011	0 0
97	PLATE3	PX	-5.5e-5	-5.5e-5	0 0
98	PLATE2	PX	-5.5e-5	-5.5e-5	0 0
99	PLATE1	PX	-5.5e-5	-5.5e-5	0 0
100	PIPE3	PX	-.000315	-.000315	0 0
101	PIPE2	PX	-.000315	-.000315	0 0
102	PIPE1	PX	-.000315	-.000315	0 0
103	MP GAMMA4	PX	-.000315	-.000315	0 0
104	MP GAMMA3	PX	-.000315	-.000315	0 0
105	MP GAMMA2	PX	-.000315	-.000315	0 0
106	MP GAMMA1	PX	-.000315	-.000315	0 0
107	MP BETA4	PX	-.000315	-.000315	0 0
108	MP BETA3	PX	-.000315	-.000315	0 0
109	MP BETA2	PX	-.000315	-.000315	0 0
110	MP BETA1	PX	-.000315	-.000315	0 0
111	MP ALPHA4	PX	-.000315	-.000315	0 0
112	MP ALPHA3	PX	-.000315	-.000315	0 0
113	MP ALPHA2	PX	-.000315	-.000315	0 0
114	MP ALPHA1	PX	-.000315	-.000315	0 0
115	MID RAIL3	PX	-.000275	-.000275	0 0
116	MID RAIL2	PX	-.00055	-.00055	0 0
117	MID RAIL1	PX	-.00055	-.00055	0 0
118	FACE3	PX	-.000193	-.000193	0 0
119	FACE2	PX	-.000385	-.000385	0 0
120	FACE1	PX	-.000385	-.000385	0 0
121	M112	PY	.000332	.000332	0 0
122	M112	PX	-.000192	-.000192	0 0
123	M113	PY	.000332	.000332	0 0
124	M113	PX	-.000192	-.000192	0 0
125	M114	PY	.000332	.000332	0 0
126	M114	PX	-.000192	-.000192	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 20 : Maintenance (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
127	NEW RAIL1	PY	.000191	.000191	0	0
128	NEW RAIL1	PX	-.00011	-.00011	0	0
129	NEW RAIL3	PY	.000191	.000191	0	0
130	NEW RAIL3	PX	-.00011	-.00011	0	0
131	NEW RAIL2	PY	.000191	.000191	0	0
132	NEW RAIL2	PX	-.00011	-.00011	0	0
133	SK2	PY	.000191	.000191	0	0
134	SK2	PX	-.00011	-.00011	0	0
135	SK1	PY	.000191	.000191	0	0
136	SK1	PX	-.00011	-.00011	0	0
137	SK6	PY	.000191	.000191	0	0
138	SK6	PX	-.00011	-.00011	0	0
139	SK5	PY	.000191	.000191	0	0
140	SK5	PX	-.00011	-.00011	0	0
141	SK4	PY	.000191	.000191	0	0
142	SK4	PX	-.00011	-.00011	0	0
143	SK3	PY	.000191	.000191	0	0
144	SK3	PX	-.00011	-.00011	0	0
145	BRACE1	PY	.000191	.000191	0	0
146	BRACE1	PX	-.00011	-.00011	0	0
147	BRACE3	PY	.000191	.000191	0	0
148	BRACE3	PX	-.00011	-.00011	0	0
149	BRACE2	PY	.000191	.000191	0	0
150	BRACE2	PX	-.00011	-.00011	0	0

Member Distributed Loads (BLC 21 : Maintenance (180))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	.00011	.00011	0	0
2	tab17	PY	.00011	.00011	0	0
3	tab16	PY	.00011	.00011	0	0
4	tab15	PY	.00011	.00011	0	0
5	tab14	PY	.00011	.00011	0	0
6	tab13	PY	.00011	.00011	0	0
7	tab12	PY	.00011	.00011	0	0
8	tab11	PY	.00011	.00011	0	0
9	tab10	PY	.00011	.00011	0	0
10	tab9	PY	.00011	.00011	0	0
11	tab8	PY	.00011	.00011	0	0
12	tab7	PY	.00011	.00011	0	0
13	tab6	PY	.00011	.00011	0	0
14	VERT12	PY	.000192	.000192	0	0
15	VERT11	PY	.000192	.000192	0	0
16	VERT10	PY	.000192	.000192	0	0
17	VERT9	PY	.000192	.000192	0	0
18	VERT8	PY	.000384	.000384	0	0
19	VERT7	PY	.000384	.000384	0	0
20	VERT6	PY	.000384	.000384	0	0
21	VERT5	PY	.000384	.000384	0	0
22	VERT4	PY	.000384	.000384	0	0
23	VERT3	PY	.000384	.000384	0	0
24	VERT2	PY	.000384	.000384	0	0
25	VERT1	PY	.000384	.000384	0	0
26	Tab5	PY	.00011	.00011	0	0
27	Tab4	PY	.00011	.00011	0	0
28	Tab3	PY	.00011	.00011	0	0
29	Tab2	PY	.00011	.00011	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 21 : Maintenance (180)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]
30	Tab1	PY	.00011	.00011	0 0
31	SO3	PY	.00055	.00055	0 0
32	SO2	PY	.00055	.00055	0 0
33	SO1	PY	.00055	.00055	0 0
34	RAIL3	PY	.00011	.00011	0 0
35	RAIL2	PY	.00022	.00022	0 0
36	RAIL1	PY	.00022	.00022	0 0
37	PLATE3	PY	.00011	.00011	0 0
38	PLATE2	PY	.00011	.00011	0 0
39	PLATE1	PY	.00011	.00011	0 0
40	PIPE3	PY	.000629	.000629	0 0
41	PIPE2	PY	.000629	.000629	0 0
42	PIPE1	PY	.000629	.000629	0 0
43	MP GAMMA4	PY	.000629	.000629	0 0
44	MP GAMMA3	PY	.000629	.000629	0 0
45	MP GAMMA2	PY	.000629	.000629	0 0
46	MP GAMMA1	PY	.000629	.000629	0 0
47	MP BETA4	PY	.000629	.000629	0 0
48	MP BETA3	PY	.000629	.000629	0 0
49	MP BETA2	PY	.000629	.000629	0 0
50	MP BETA1	PY	.000629	.000629	0 0
51	MP ALPHA4	PY	.000629	.000629	0 0
52	MP ALPHA3	PY	.000629	.000629	0 0
53	MP ALPHA2	PY	.000629	.000629	0 0
54	MP ALPHA1	PY	.000629	.000629	0 0
55	MID RAIL3	PY	.00055	.00055	0 0
56	MID RAIL2	PY	.001	.001	0 0
57	MID RAIL1	PY	.001	.001	0 0
58	FACE3	PY	.000385	.000385	0 0
59	FACE2	PY	.00077	.00077	0 0
60	FACE1	PY	.00077	.00077	0 0
61	M112	PY	.000384	.000384	0 0
62	M113	PY	.000384	.000384	0 0
63	M114	PY	.000384	.000384	0 0
64	NEW RAIL1	PY	.00022	.00022	0 0
65	NEW RAIL3	PY	.00022	.00022	0 0
66	NEW RAIL2	PY	.00022	.00022	0 0
67	SK2	PY	.00022	.00022	0 0
68	SK1	PY	.00022	.00022	0 0
69	SK6	PY	.00022	.00022	0 0
70	SK5	PY	.00022	.00022	0 0
71	SK4	PY	.00022	.00022	0 0
72	SK3	PY	.00022	.00022	0 0
73	BRACE1	PY	.00022	.00022	0 0
74	BRACE3	PY	.00022	.00022	0 0
75	BRACE2	PY	.00022	.00022	0 0

Member Distributed Loads (BLC 22 : Maintenance (210))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	9.5e-5	9.5e-5	0 0
2	tab17	PY	9.5e-5	9.5e-5	0 0
3	tab16	PY	9.5e-5	9.5e-5	0 0
4	tab15	PY	9.5e-5	9.5e-5	0 0
5	tab14	PY	9.5e-5	9.5e-5	0 0
6	tab13	PY	9.5e-5	9.5e-5	0 0
7	tab12	PY	9.5e-5	9.5e-5	0 0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 22 : Maintenance (210)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
8	tab11	PY	9.5e-5	9.5e-5	0	0
9	tab10	PY	9.5e-5	9.5e-5	0	0
10	tab9	PY	9.5e-5	9.5e-5	0	0
11	tab8	PY	9.5e-5	9.5e-5	0	0
12	tab7	PY	9.5e-5	9.5e-5	0	0
13	tab6	PY	9.5e-5	9.5e-5	0	0
14	VERT12	PY	.000166	.000166	0	0
15	VERT11	PY	.000166	.000166	0	0
16	VERT10	PY	.000166	.000166	0	0
17	VERT9	PY	.000166	.000166	0	0
18	VERT8	PY	.000332	.000332	0	0
19	VERT7	PY	.000332	.000332	0	0
20	VERT6	PY	.000332	.000332	0	0
21	VERT5	PY	.000332	.000332	0	0
22	VERT4	PY	.000332	.000332	0	0
23	VERT3	PY	.000332	.000332	0	0
24	VERT2	PY	.000332	.000332	0	0
25	VERT1	PY	.000332	.000332	0	0
26	Tab5	PY	9.5e-5	9.5e-5	0	0
27	Tab4	PY	9.5e-5	9.5e-5	0	0
28	Tab3	PY	9.5e-5	9.5e-5	0	0
29	Tab2	PY	9.5e-5	9.5e-5	0	0
30	Tab1	PY	9.5e-5	9.5e-5	0	0
31	SO3	PY	.000476	.000476	0	0
32	SO2	PY	.000476	.000476	0	0
33	SO1	PY	.000476	.000476	0	0
34	RAIL3	PY	9.5e-5	9.5e-5	0	0
35	RAIL2	PY	.000191	.000191	0	0
36	RAIL1	PY	.000191	.000191	0	0
37	PLATE3	PY	9.5e-5	9.5e-5	0	0
38	PLATE2	PY	9.5e-5	9.5e-5	0	0
39	PLATE1	PY	9.5e-5	9.5e-5	0	0
40	PIPE3	PY	.000545	.000545	0	0
41	PIPE2	PY	.000545	.000545	0	0
42	PIPE1	PY	.000545	.000545	0	0
43	MP GAMMA4	PY	.000545	.000545	0	0
44	MP GAMMA3	PY	.000545	.000545	0	0
45	MP GAMMA2	PY	.000545	.000545	0	0
46	MP GAMMA1	PY	.000545	.000545	0	0
47	MP BETA4	PY	.000545	.000545	0	0
48	MP BETA3	PY	.000545	.000545	0	0
49	MP BETA2	PY	.000545	.000545	0	0
50	MP BETA1	PY	.000545	.000545	0	0
51	MP ALPHA4	PY	.000545	.000545	0	0
52	MP ALPHA3	PY	.000545	.000545	0	0
53	MP ALPHA2	PY	.000545	.000545	0	0
54	MP ALPHA1	PY	.000545	.000545	0	0
55	MID RAIL3	PY	.000476	.000476	0	0
56	MID RAIL2	PY	.000953	.000953	0	0
57	MID RAIL1	PY	.000953	.000953	0	0
58	FACE3	PY	.000334	.000334	0	0
59	FACE2	PY	.000667	.000667	0	0
60	FACE1	PY	.000667	.000667	0	0
61	tab18	PX	5.5e-5	5.5e-5	0	0
62	tab17	PX	5.5e-5	5.5e-5	0	0
63	tab16	PX	5.5e-5	5.5e-5	0	0
64	tab15	PX	5.5e-5	5.5e-5	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
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Member Distributed Loads (BLC 22 : Maintenance (210)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
65	tab14	PX	5.5e-5	5.5e-5	0	0
66	tab13	PX	5.5e-5	5.5e-5	0	0
67	tab12	PX	5.5e-5	5.5e-5	0	0
68	tab11	PX	5.5e-5	5.5e-5	0	0
69	tab10	PX	5.5e-5	5.5e-5	0	0
70	tab9	PX	5.5e-5	5.5e-5	0	0
71	tab8	PX	5.5e-5	5.5e-5	0	0
72	tab7	PX	5.5e-5	5.5e-5	0	0
73	tab6	PX	5.5e-5	5.5e-5	0	0
74	VERT12	PX	9.6e-5	9.6e-5	0	0
75	VERT11	PX	9.6e-5	9.6e-5	0	0
76	VERT10	PX	9.6e-5	9.6e-5	0	0
77	VERT9	PX	9.6e-5	9.6e-5	0	0
78	VERT8	PX	.000192	.000192	0	0
79	VERT7	PX	.000192	.000192	0	0
80	VERT6	PX	.000192	.000192	0	0
81	VERT5	PX	.000192	.000192	0	0
82	VERT4	PX	.000192	.000192	0	0
83	VERT3	PX	.000192	.000192	0	0
84	VERT2	PX	.000192	.000192	0	0
85	VERT1	PX	.000192	.000192	0	0
86	Tab5	PX	5.5e-5	5.5e-5	0	0
87	Tab4	PX	5.5e-5	5.5e-5	0	0
88	Tab3	PX	5.5e-5	5.5e-5	0	0
89	Tab2	PX	5.5e-5	5.5e-5	0	0
90	Tab1	PX	5.5e-5	5.5e-5	0	0
91	SO3	PX	.000275	.000275	0	0
92	SO2	PX	.000275	.000275	0	0
93	SO1	PX	.000275	.000275	0	0
94	RAIL3	PX	5.5e-5	5.5e-5	0	0
95	RAIL2	PX	.00011	.00011	0	0
96	RAIL1	PX	.00011	.00011	0	0
97	PLATE3	PX	5.5e-5	5.5e-5	0	0
98	PLATE2	PX	5.5e-5	5.5e-5	0	0
99	PLATE1	PX	5.5e-5	5.5e-5	0	0
100	PIPE3	PX	.000315	.000315	0	0
101	PIPE2	PX	.000315	.000315	0	0
102	PIPE1	PX	.000315	.000315	0	0
103	MP GAMMA4	PX	.000315	.000315	0	0
104	MP GAMMA3	PX	.000315	.000315	0	0
105	MP GAMMA2	PX	.000315	.000315	0	0
106	MP GAMMA1	PX	.000315	.000315	0	0
107	MP BETA4	PX	.000315	.000315	0	0
108	MP BETA3	PX	.000315	.000315	0	0
109	MP BETA2	PX	.000315	.000315	0	0
110	MP BETA1	PX	.000315	.000315	0	0
111	MP ALPHA4	PX	.000315	.000315	0	0
112	MP ALPHA3	PX	.000315	.000315	0	0
113	MP ALPHA2	PX	.000315	.000315	0	0
114	MP ALPHA1	PX	.000315	.000315	0	0
115	MID RAIL3	PX	.000275	.000275	0	0
116	MID RAIL2	PX	.00055	.00055	0	0
117	MID RAIL1	PX	.00055	.00055	0	0
118	FACE3	PX	.000193	.000193	0	0
119	FACE2	PX	.000385	.000385	0	0
120	FACE1	PX	.000385	.000385	0	0
121	M112	PY	.000332	.000332	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
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Member Distributed Loads (BLC 22 : Maintenance (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
122	M112	PX	.000192	.000192	0	0
123	M113	PY	.000332	.000332	0	0
124	M113	PX	.000192	.000192	0	0
125	M114	PY	.000332	.000332	0	0
126	M114	PX	.000192	.000192	0	0
127	NEW RAIL1	PY	.000191	.000191	0	0
128	NEW RAIL1	PX	.00011	.00011	0	0
129	NEW RAIL3	PY	.000191	.000191	0	0
130	NEW RAIL3	PX	.00011	.00011	0	0
131	NEW RAIL2	PY	.000191	.000191	0	0
132	NEW RAIL2	PX	.00011	.00011	0	0
133	SK2	PY	.000191	.000191	0	0
134	SK2	PX	.00011	.00011	0	0
135	SK1	PY	.000191	.000191	0	0
136	SK1	PX	.00011	.00011	0	0
137	SK6	PY	.000191	.000191	0	0
138	SK6	PX	.00011	.00011	0	0
139	SK5	PY	.000191	.000191	0	0
140	SK5	PX	.00011	.00011	0	0
141	SK4	PY	.000191	.000191	0	0
142	SK4	PX	.00011	.00011	0	0
143	SK3	PY	.000191	.000191	0	0
144	SK3	PX	.00011	.00011	0	0
145	BRACE1	PY	.000191	.000191	0	0
146	BRACE1	PX	.00011	.00011	0	0
147	BRACE3	PY	.000191	.000191	0	0
148	BRACE3	PX	.00011	.00011	0	0
149	BRACE2	PY	.000191	.000191	0	0
150	BRACE2	PX	.00011	.00011	0	0

Member Distributed Loads (BLC 23 : Maintenance (240))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	5.5e-5	5.5e-5	0	0
2	tab17	PY	5.5e-5	5.5e-5	0	0
3	tab16	PY	5.5e-5	5.5e-5	0	0
4	tab15	PY	5.5e-5	5.5e-5	0	0
5	tab14	PY	5.5e-5	5.5e-5	0	0
6	tab13	PY	5.5e-5	5.5e-5	0	0
7	tab12	PY	5.5e-5	5.5e-5	0	0
8	tab11	PY	5.5e-5	5.5e-5	0	0
9	tab10	PY	5.5e-5	5.5e-5	0	0
10	tab9	PY	5.5e-5	5.5e-5	0	0
11	tab8	PY	5.5e-5	5.5e-5	0	0
12	tab7	PY	5.5e-5	5.5e-5	0	0
13	tab6	PY	5.5e-5	5.5e-5	0	0
14	VERT12	PY	9.6e-5	9.6e-5	0	0
15	VERT11	PY	9.6e-5	9.6e-5	0	0
16	VERT10	PY	9.6e-5	9.6e-5	0	0
17	VERT9	PY	9.6e-5	9.6e-5	0	0
18	VERT8	PY	.000192	.000192	0	0
19	VERT7	PY	.000192	.000192	0	0
20	VERT6	PY	.000192	.000192	0	0
21	VERT5	PY	.000192	.000192	0	0
22	VERT4	PY	.000192	.000192	0	0
23	VERT3	PY	.000192	.000192	0	0
24	VERT2	PY	.000192	.000192	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
25	VERT1	PY	.000192	.000192	0 0
26	Tab5	PY	5.5e-5	5.5e-5	0 0
27	Tab4	PY	5.5e-5	5.5e-5	0 0
28	Tab3	PY	5.5e-5	5.5e-5	0 0
29	Tab2	PY	5.5e-5	5.5e-5	0 0
30	Tab1	PY	5.5e-5	5.5e-5	0 0
31	SO3	PY	.000275	.000275	0 0
32	SO2	PY	.000275	.000275	0 0
33	SO1	PY	.000275	.000275	0 0
34	RAIL3	PY	5.5e-5	5.5e-5	0 0
35	RAIL2	PY	.00011	.00011	0 0
36	RAIL1	PY	.00011	.00011	0 0
37	PLATE3	PY	5.5e-5	5.5e-5	0 0
38	PLATE2	PY	5.5e-5	5.5e-5	0 0
39	PLATE1	PY	5.5e-5	5.5e-5	0 0
40	PIPE3	PY	.000315	.000315	0 0
41	PIPE2	PY	.000315	.000315	0 0
42	PIPE1	PY	.000315	.000315	0 0
43	MP GAMMA4	PY	.000315	.000315	0 0
44	MP GAMMA3	PY	.000315	.000315	0 0
45	MP GAMMA2	PY	.000315	.000315	0 0
46	MP GAMMA1	PY	.000315	.000315	0 0
47	MP BETA4	PY	.000315	.000315	0 0
48	MP BETA3	PY	.000315	.000315	0 0
49	MP BETA2	PY	.000315	.000315	0 0
50	MP BETA1	PY	.000315	.000315	0 0
51	MP ALPHA4	PY	.000315	.000315	0 0
52	MP ALPHA3	PY	.000315	.000315	0 0
53	MP ALPHA2	PY	.000315	.000315	0 0
54	MP ALPHA1	PY	.000315	.000315	0 0
55	MID RAIL3	PY	.000275	.000275	0 0
56	MID RAIL2	PY	.00055	.00055	0 0
57	MID RAIL1	PY	.00055	.00055	0 0
58	FACE3	PY	.000193	.000193	0 0
59	FACE2	PY	.000385	.000385	0 0
60	FACE1	PY	.000385	.000385	0 0
61	tab18	PX	9.5e-5	9.5e-5	0 0
62	tab17	PX	9.5e-5	9.5e-5	0 0
63	tab16	PX	9.5e-5	9.5e-5	0 0
64	tab15	PX	9.5e-5	9.5e-5	0 0
65	tab14	PX	9.5e-5	9.5e-5	0 0
66	tab13	PX	9.5e-5	9.5e-5	0 0
67	tab12	PX	9.5e-5	9.5e-5	0 0
68	tab11	PX	9.5e-5	9.5e-5	0 0
69	tab10	PX	9.5e-5	9.5e-5	0 0
70	tab9	PX	9.5e-5	9.5e-5	0 0
71	tab8	PX	9.5e-5	9.5e-5	0 0
72	tab7	PX	9.5e-5	9.5e-5	0 0
73	tab6	PX	9.5e-5	9.5e-5	0 0
74	VERT12	PX	.000166	.000166	0 0
75	VERT11	PX	.000166	.000166	0 0
76	VERT10	PX	.000166	.000166	0 0
77	VERT9	PX	.000166	.000166	0 0
78	VERT8	PX	.000332	.000332	0 0
79	VERT7	PX	.000332	.000332	0 0
80	VERT6	PX	.000332	.000332	0 0
81	VERT5	PX	.000332	.000332	0 0



Company : POD
 Designer : UT
 Job Number : 20-70444
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Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]
82	VERT4	PX	.000332	.000332	0 0
83	VERT3	PX	.000332	.000332	0 0
84	VERT2	PX	.000332	.000332	0 0
85	VERT1	PX	.000332	.000332	0 0
86	Tab5	PX	9.5e-5	9.5e-5	0 0
87	Tab4	PX	9.5e-5	9.5e-5	0 0
88	Tab3	PX	9.5e-5	9.5e-5	0 0
89	Tab2	PX	9.5e-5	9.5e-5	0 0
90	Tab1	PX	9.5e-5	9.5e-5	0 0
91	SO3	PX	.000476	.000476	0 0
92	SO2	PX	.000476	.000476	0 0
93	SO1	PX	.000476	.000476	0 0
94	RAIL3	PX	9.5e-5	9.5e-5	0 0
95	RAIL2	PX	.000191	.000191	0 0
96	RAIL1	PX	.000191	.000191	0 0
97	PLATE3	PX	9.5e-5	9.5e-5	0 0
98	PLATE2	PX	9.5e-5	9.5e-5	0 0
99	PLATE1	PX	9.5e-5	9.5e-5	0 0
100	PIPE3	PX	.000545	.000545	0 0
101	PIPE2	PX	.000545	.000545	0 0
102	PIPE1	PX	.000545	.000545	0 0
103	MP GAMMA4	PX	.000545	.000545	0 0
104	MP GAMMA3	PX	.000545	.000545	0 0
105	MP GAMMA2	PX	.000545	.000545	0 0
106	MP GAMMA1	PX	.000545	.000545	0 0
107	MP BETA4	PX	.000545	.000545	0 0
108	MP BETA3	PX	.000545	.000545	0 0
109	MP BETA2	PX	.000545	.000545	0 0
110	MP BETA1	PX	.000545	.000545	0 0
111	MP ALPHA4	PX	.000545	.000545	0 0
112	MP ALPHA3	PX	.000545	.000545	0 0
113	MP ALPHA2	PX	.000545	.000545	0 0
114	MP ALPHA1	PX	.000545	.000545	0 0
115	MID RAIL3	PX	.000476	.000476	0 0
116	MID RAIL2	PX	.000953	.000953	0 0
117	MID RAIL1	PX	.000953	.000953	0 0
118	FACE3	PX	.000334	.000334	0 0
119	FACE2	PX	.000667	.000667	0 0
120	FACE1	PX	.000667	.000667	0 0
121	M112	PY	.000192	.000192	0 0
122	M112	PX	.000332	.000332	0 0
123	M113	PY	.000192	.000192	0 0
124	M113	PX	.000332	.000332	0 0
125	M114	PY	.000192	.000192	0 0
126	M114	PX	.000332	.000332	0 0
127	NEW RAIL1	PY	.00011	.00011	0 0
128	NEW RAIL1	PX	.000191	.000191	0 0
129	NEW RAIL3	PY	.00011	.00011	0 0
130	NEW RAIL3	PX	.000191	.000191	0 0
131	NEW RAIL2	PY	.00011	.00011	0 0
132	NEW RAIL2	PX	.000191	.000191	0 0
133	SK2	PY	.00011	.00011	0 0
134	SK2	PX	.000191	.000191	0 0
135	SK1	PY	.00011	.00011	0 0
136	SK1	PX	.000191	.000191	0 0
137	SK6	PY	.00011	.00011	0 0
138	SK6	PX	.000191	.000191	0 0



Company : POD
 Designer : UT
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 Model Name : 806361

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Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
139	SK5	PY	.00011	.00011	0	0
140	SK5	PX	.000191	.000191	0	0
141	SK4	PY	.00011	.00011	0	0
142	SK4	PX	.000191	.000191	0	0
143	SK3	PY	.00011	.00011	0	0
144	SK3	PX	.000191	.000191	0	0
145	BRACE1	PY	.00011	.00011	0	0
146	BRACE1	PX	.000191	.000191	0	0
147	BRACE3	PY	.00011	.00011	0	0
148	BRACE3	PX	.000191	.000191	0	0
149	BRACE2	PY	.00011	.00011	0	0
150	BRACE2	PX	.000191	.000191	0	0

Member Distributed Loads (BLC 24 : Maintenance (270))

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
1	tab18	PX	.00011	.00011	0	0
2	tab17	PX	.00011	.00011	0	0
3	tab16	PX	.00011	.00011	0	0
4	tab15	PX	.00011	.00011	0	0
5	tab14	PX	.00011	.00011	0	0
6	tab13	PX	.00011	.00011	0	0
7	tab12	PX	.00011	.00011	0	0
8	tab11	PX	.00011	.00011	0	0
9	tab10	PX	.00011	.00011	0	0
10	tab9	PX	.00011	.00011	0	0
11	tab8	PX	.00011	.00011	0	0
12	tab7	PX	.00011	.00011	0	0
13	tab6	PX	.00011	.00011	0	0
14	VERT12	PX	.000192	.000192	0	0
15	VERT11	PX	.000192	.000192	0	0
16	VERT10	PX	.000192	.000192	0	0
17	VERT9	PX	.000192	.000192	0	0
18	VERT8	PX	.000384	.000384	0	0
19	VERT7	PX	.000384	.000384	0	0
20	VERT6	PX	.000384	.000384	0	0
21	VERT5	PX	.000384	.000384	0	0
22	VERT4	PX	.000384	.000384	0	0
23	VERT3	PX	.000384	.000384	0	0
24	VERT2	PX	.000384	.000384	0	0
25	VERT1	PX	.000384	.000384	0	0
26	Tab5	PX	.00011	.00011	0	0
27	Tab4	PX	.00011	.00011	0	0
28	Tab3	PX	.00011	.00011	0	0
29	Tab2	PX	.00011	.00011	0	0
30	Tab1	PX	.00011	.00011	0	0
31	SO3	PX	.00055	.00055	0	0
32	SO2	PX	.00055	.00055	0	0
33	SO1	PX	.00055	.00055	0	0
34	RAIL3	PX	.00011	.00011	0	0
35	RAIL2	PX	.00022	.00022	0	0
36	RAIL1	PX	.00022	.00022	0	0
37	PLATE3	PX	.00011	.00011	0	0
38	PLATE2	PX	.00011	.00011	0	0
39	PLATE1	PX	.00011	.00011	0	0
40	PIPE3	PX	.000629	.000629	0	0
41	PIPE2	PX	.000629	.000629	0	0



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Member Distributed Loads (BLC 24 : Maintenance (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
42	PIPE1	PX	.000629	.000629	0	0
43	MP GAMMA4	PX	.000629	.000629	0	0
44	MP GAMMA3	PX	.000629	.000629	0	0
45	MP GAMMA2	PX	.000629	.000629	0	0
46	MP GAMMA1	PX	.000629	.000629	0	0
47	MP BETA4	PX	.000629	.000629	0	0
48	MP BETA3	PX	.000629	.000629	0	0
49	MP BETA2	PX	.000629	.000629	0	0
50	MP BETA1	PX	.000629	.000629	0	0
51	MP ALPHA4	PX	.000629	.000629	0	0
52	MP ALPHA3	PX	.000629	.000629	0	0
53	MP ALPHA2	PX	.000629	.000629	0	0
54	MP ALPHA1	PX	.000629	.000629	0	0
55	MID RAIL3	PX	.00055	.00055	0	0
56	MID RAIL2	PX	.001	.001	0	0
57	MID RAIL1	PX	.001	.001	0	0
58	FACE3	PX	.000385	.000385	0	0
59	FACE2	PX	.00077	.00077	0	0
60	FACE1	PX	.00077	.00077	0	0
61	M112	PX	.000384	.000384	0	0
62	M113	PX	.000384	.000384	0	0
63	M114	PX	.000384	.000384	0	0
64	NEW RAIL1	PX	.00022	.00022	0	0
65	NEW RAIL3	PX	.00022	.00022	0	0
66	NEW RAIL2	PX	.00022	.00022	0	0
67	SK2	PX	.00022	.00022	0	0
68	SK1	PX	.00022	.00022	0	0
69	SK6	PX	.00022	.00022	0	0
70	SK5	PX	.00022	.00022	0	0
71	SK4	PX	.00022	.00022	0	0
72	SK3	PX	.00022	.00022	0	0
73	BRACE1	PX	.00022	.00022	0	0
74	BRACE3	PX	.00022	.00022	0	0
75	BRACE2	PX	.00022	.00022	0	0

Member Distributed Loads (BLC 25 : Maintenance (300))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-5.5e-5	-5.5e-5	0	0
2	tab17	PY	-5.5e-5	-5.5e-5	0	0
3	tab16	PY	-5.5e-5	-5.5e-5	0	0
4	tab15	PY	-5.5e-5	-5.5e-5	0	0
5	tab14	PY	-5.5e-5	-5.5e-5	0	0
6	tab13	PY	-5.5e-5	-5.5e-5	0	0
7	tab12	PY	-5.5e-5	-5.5e-5	0	0
8	tab11	PY	-5.5e-5	-5.5e-5	0	0
9	tab10	PY	-5.5e-5	-5.5e-5	0	0
10	tab9	PY	-5.5e-5	-5.5e-5	0	0
11	tab8	PY	-5.5e-5	-5.5e-5	0	0
12	tab7	PY	-5.5e-5	-5.5e-5	0	0
13	tab6	PY	-5.5e-5	-5.5e-5	0	0
14	VERT12	PY	-9.6e-5	-9.6e-5	0	0
15	VERT11	PY	-9.6e-5	-9.6e-5	0	0
16	VERT10	PY	-9.6e-5	-9.6e-5	0	0
17	VERT9	PY	-9.6e-5	-9.6e-5	0	0
18	VERT8	PY	-.000192	-.000192	0	0
19	VERT7	PY	-.000192	-.000192	0	0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
20	VERT6	PY	-0.00192	-0.00192	0 0
21	VERT5	PY	-0.00192	-0.00192	0 0
22	VERT4	PY	-0.00192	-0.00192	0 0
23	VERT3	PY	-0.00192	-0.00192	0 0
24	VERT2	PY	-0.00192	-0.00192	0 0
25	VERT1	PY	-0.00192	-0.00192	0 0
26	Tab5	PY	-5.5e-5	-5.5e-5	0 0
27	Tab4	PY	-5.5e-5	-5.5e-5	0 0
28	Tab3	PY	-5.5e-5	-5.5e-5	0 0
29	Tab2	PY	-5.5e-5	-5.5e-5	0 0
30	Tab1	PY	-5.5e-5	-5.5e-5	0 0
31	SO3	PY	-0.00275	-0.00275	0 0
32	SO2	PY	-0.00275	-0.00275	0 0
33	SO1	PY	-0.00275	-0.00275	0 0
34	RAIL3	PY	-5.5e-5	-5.5e-5	0 0
35	RAIL2	PY	-0.0011	-0.0011	0 0
36	RAIL1	PY	-0.0011	-0.0011	0 0
37	PLATE3	PY	-5.5e-5	-5.5e-5	0 0
38	PLATE2	PY	-5.5e-5	-5.5e-5	0 0
39	PLATE1	PY	-5.5e-5	-5.5e-5	0 0
40	PIPE3	PY	-0.00315	-0.00315	0 0
41	PIPE2	PY	-0.00315	-0.00315	0 0
42	PIPE1	PY	-0.00315	-0.00315	0 0
43	MP GAMMA4	PY	-0.00315	-0.00315	0 0
44	MP GAMMA3	PY	-0.00315	-0.00315	0 0
45	MP GAMMA2	PY	-0.00315	-0.00315	0 0
46	MP GAMMA1	PY	-0.00315	-0.00315	0 0
47	MP BETA4	PY	-0.00315	-0.00315	0 0
48	MP BETA3	PY	-0.00315	-0.00315	0 0
49	MP BETA2	PY	-0.00315	-0.00315	0 0
50	MP BETA1	PY	-0.00315	-0.00315	0 0
51	MP ALPHA4	PY	-0.00315	-0.00315	0 0
52	MP ALPHA3	PY	-0.00315	-0.00315	0 0
53	MP ALPHA2	PY	-0.00315	-0.00315	0 0
54	MP ALPHA1	PY	-0.00315	-0.00315	0 0
55	MID RAIL3	PY	-0.00275	-0.00275	0 0
56	MID RAIL2	PY	-0.0055	-0.0055	0 0
57	MID RAIL1	PY	-0.0055	-0.0055	0 0
58	FACE3	PY	-0.00193	-0.00193	0 0
59	FACE2	PY	-0.00385	-0.00385	0 0
60	FACE1	PY	-0.00385	-0.00385	0 0
61	tab18	PX	9.5e-5	9.5e-5	0 0
62	tab17	PX	9.5e-5	9.5e-5	0 0
63	tab16	PX	9.5e-5	9.5e-5	0 0
64	tab15	PX	9.5e-5	9.5e-5	0 0
65	tab14	PX	9.5e-5	9.5e-5	0 0
66	tab13	PX	9.5e-5	9.5e-5	0 0
67	tab12	PX	9.5e-5	9.5e-5	0 0
68	tab11	PX	9.5e-5	9.5e-5	0 0
69	tab10	PX	9.5e-5	9.5e-5	0 0
70	tab9	PX	9.5e-5	9.5e-5	0 0
71	tab8	PX	9.5e-5	9.5e-5	0 0
72	tab7	PX	9.5e-5	9.5e-5	0 0
73	tab6	PX	9.5e-5	9.5e-5	0 0
74	VERT12	PX	.000166	.000166	0 0
75	VERT11	PX	.000166	.000166	0 0
76	VERT10	PX	.000166	.000166	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
77	VERT9	PX	.000166	.000166	0 0
78	VERT8	PX	.000332	.000332	0 0
79	VERT7	PX	.000332	.000332	0 0
80	VERT6	PX	.000332	.000332	0 0
81	VERT5	PX	.000332	.000332	0 0
82	VERT4	PX	.000332	.000332	0 0
83	VERT3	PX	.000332	.000332	0 0
84	VERT2	PX	.000332	.000332	0 0
85	VERT1	PX	.000332	.000332	0 0
86	Tab5	PX	9.5e-5	9.5e-5	0 0
87	Tab4	PX	9.5e-5	9.5e-5	0 0
88	Tab3	PX	9.5e-5	9.5e-5	0 0
89	Tab2	PX	9.5e-5	9.5e-5	0 0
90	Tab1	PX	9.5e-5	9.5e-5	0 0
91	SO3	PX	.000476	.000476	0 0
92	SO2	PX	.000476	.000476	0 0
93	SO1	PX	.000476	.000476	0 0
94	RAIL3	PX	9.5e-5	9.5e-5	0 0
95	RAIL2	PX	.000191	.000191	0 0
96	RAIL1	PX	.000191	.000191	0 0
97	PLATE3	PX	9.5e-5	9.5e-5	0 0
98	PLATE2	PX	9.5e-5	9.5e-5	0 0
99	PLATE1	PX	9.5e-5	9.5e-5	0 0
100	PIPE3	PX	.000545	.000545	0 0
101	PIPE2	PX	.000545	.000545	0 0
102	PIPE1	PX	.000545	.000545	0 0
103	MP GAMMA4	PX	.000545	.000545	0 0
104	MP GAMMA3	PX	.000545	.000545	0 0
105	MP GAMMA2	PX	.000545	.000545	0 0
106	MP GAMMA1	PX	.000545	.000545	0 0
107	MP BETA4	PX	.000545	.000545	0 0
108	MP BETA3	PX	.000545	.000545	0 0
109	MP BETA2	PX	.000545	.000545	0 0
110	MP BETA1	PX	.000545	.000545	0 0
111	MP ALPHA4	PX	.000545	.000545	0 0
112	MP ALPHA3	PX	.000545	.000545	0 0
113	MP ALPHA2	PX	.000545	.000545	0 0
114	MP ALPHA1	PX	.000545	.000545	0 0
115	MID RAIL3	PX	.000476	.000476	0 0
116	MID RAIL2	PX	.000953	.000953	0 0
117	MID RAIL1	PX	.000953	.000953	0 0
118	FACE3	PX	.000334	.000334	0 0
119	FACE2	PX	.000667	.000667	0 0
120	FACE1	PX	.000667	.000667	0 0
121	M112	PY	-.000192	-.000192	0 0
122	M112	PX	.000332	.000332	0 0
123	M113	PY	-.000192	-.000192	0 0
124	M113	PX	.000332	.000332	0 0
125	M114	PY	-.000192	-.000192	0 0
126	M114	PX	.000332	.000332	0 0
127	NEW RAIL1	PY	-.00011	-.00011	0 0
128	NEW RAIL1	PX	.000191	.000191	0 0
129	NEW RAIL3	PY	-.00011	-.00011	0 0
130	NEW RAIL3	PX	.000191	.000191	0 0
131	NEW RAIL2	PY	-.00011	-.00011	0 0
132	NEW RAIL2	PX	.000191	.000191	0 0
133	SK2	PY	-.00011	-.00011	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
134	SK2	PX	.000191	.000191	0	0
135	SK1	PY	-.00011	-.00011	0	0
136	SK1	PX	.000191	.000191	0	0
137	SK6	PY	-.00011	-.00011	0	0
138	SK6	PX	.000191	.000191	0	0
139	SK5	PY	-.00011	-.00011	0	0
140	SK5	PX	.000191	.000191	0	0
141	SK4	PY	-.00011	-.00011	0	0
142	SK4	PX	.000191	.000191	0	0
143	SK3	PY	-.00011	-.00011	0	0
144	SK3	PX	.000191	.000191	0	0
145	BRACE1	PY	-.00011	-.00011	0	0
146	BRACE1	PX	.000191	.000191	0	0
147	BRACE3	PY	-.00011	-.00011	0	0
148	BRACE3	PX	.000191	.000191	0	0
149	BRACE2	PY	-.00011	-.00011	0	0
150	BRACE2	PX	.000191	.000191	0	0

Member Distributed Loads (BLC 26 : Maintenance (330))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-9.5e-5	-9.5e-5	0	0
2	tab17	PY	-9.5e-5	-9.5e-5	0	0
3	tab16	PY	-9.5e-5	-9.5e-5	0	0
4	tab15	PY	-9.5e-5	-9.5e-5	0	0
5	tab14	PY	-9.5e-5	-9.5e-5	0	0
6	tab13	PY	-9.5e-5	-9.5e-5	0	0
7	tab12	PY	-9.5e-5	-9.5e-5	0	0
8	tab11	PY	-9.5e-5	-9.5e-5	0	0
9	tab10	PY	-9.5e-5	-9.5e-5	0	0
10	tab9	PY	-9.5e-5	-9.5e-5	0	0
11	tab8	PY	-9.5e-5	-9.5e-5	0	0
12	tab7	PY	-9.5e-5	-9.5e-5	0	0
13	tab6	PY	-9.5e-5	-9.5e-5	0	0
14	VERT12	PY	-.000166	-.000166	0	0
15	VERT11	PY	-.000166	-.000166	0	0
16	VERT10	PY	-.000166	-.000166	0	0
17	VERT9	PY	-.000166	-.000166	0	0
18	VERT8	PY	-.000332	-.000332	0	0
19	VERT7	PY	-.000332	-.000332	0	0
20	VERT6	PY	-.000332	-.000332	0	0
21	VERT5	PY	-.000332	-.000332	0	0
22	VERT4	PY	-.000332	-.000332	0	0
23	VERT3	PY	-.000332	-.000332	0	0
24	VERT2	PY	-.000332	-.000332	0	0
25	VERT1	PY	-.000332	-.000332	0	0
26	Tab5	PY	-9.5e-5	-9.5e-5	0	0
27	Tab4	PY	-9.5e-5	-9.5e-5	0	0
28	Tab3	PY	-9.5e-5	-9.5e-5	0	0
29	Tab2	PY	-9.5e-5	-9.5e-5	0	0
30	Tab1	PY	-9.5e-5	-9.5e-5	0	0
31	SO3	PY	-.000476	-.000476	0	0
32	SO2	PY	-.000476	-.000476	0	0
33	SO1	PY	-.000476	-.000476	0	0
34	RAIL3	PY	-9.5e-5	-9.5e-5	0	0
35	RAIL2	PY	-.000191	-.000191	0	0
36	RAIL1	PY	-.000191	-.000191	0	0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 26 : Maintenance (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
37	PLATE3	PY	-9.5e-5	-9.5e-5	0	0
38	PLATE2	PY	-9.5e-5	-9.5e-5	0	0
39	PLATE1	PY	-9.5e-5	-9.5e-5	0	0
40	PIPE3	PY	-.000545	-.000545	0	0
41	PIPE2	PY	-.000545	-.000545	0	0
42	PIPE1	PY	-.000545	-.000545	0	0
43	MP GAMMA4	PY	-.000545	-.000545	0	0
44	MP GAMMA3	PY	-.000545	-.000545	0	0
45	MP GAMMA2	PY	-.000545	-.000545	0	0
46	MP GAMMA1	PY	-.000545	-.000545	0	0
47	MP BETA4	PY	-.000545	-.000545	0	0
48	MP BETA3	PY	-.000545	-.000545	0	0
49	MP BETA2	PY	-.000545	-.000545	0	0
50	MP BETA1	PY	-.000545	-.000545	0	0
51	MP ALPHA4	PY	-.000545	-.000545	0	0
52	MP ALPHA3	PY	-.000545	-.000545	0	0
53	MP ALPHA2	PY	-.000545	-.000545	0	0
54	MP ALPHA1	PY	-.000545	-.000545	0	0
55	MID RAIL3	PY	-.000476	-.000476	0	0
56	MID RAIL2	PY	-.000953	-.000953	0	0
57	MID RAIL1	PY	-.000953	-.000953	0	0
58	FACE3	PY	-.000334	-.000334	0	0
59	FACE2	PY	-.000667	-.000667	0	0
60	FACE1	PY	-.000667	-.000667	0	0
61	tab18	PX	5.5e-5	5.5e-5	0	0
62	tab17	PX	5.5e-5	5.5e-5	0	0
63	tab16	PX	5.5e-5	5.5e-5	0	0
64	tab15	PX	5.5e-5	5.5e-5	0	0
65	tab14	PX	5.5e-5	5.5e-5	0	0
66	tab13	PX	5.5e-5	5.5e-5	0	0
67	tab12	PX	5.5e-5	5.5e-5	0	0
68	tab11	PX	5.5e-5	5.5e-5	0	0
69	tab10	PX	5.5e-5	5.5e-5	0	0
70	tab9	PX	5.5e-5	5.5e-5	0	0
71	tab8	PX	5.5e-5	5.5e-5	0	0
72	tab7	PX	5.5e-5	5.5e-5	0	0
73	tab6	PX	5.5e-5	5.5e-5	0	0
74	VERT12	PX	9.6e-5	9.6e-5	0	0
75	VERT11	PX	9.6e-5	9.6e-5	0	0
76	VERT10	PX	9.6e-5	9.6e-5	0	0
77	VERT9	PX	9.6e-5	9.6e-5	0	0
78	VERT8	PX	.000192	.000192	0	0
79	VERT7	PX	.000192	.000192	0	0
80	VERT6	PX	.000192	.000192	0	0
81	VERT5	PX	.000192	.000192	0	0
82	VERT4	PX	.000192	.000192	0	0
83	VERT3	PX	.000192	.000192	0	0
84	VERT2	PX	.000192	.000192	0	0
85	VERT1	PX	.000192	.000192	0	0
86	Tab5	PX	5.5e-5	5.5e-5	0	0
87	Tab4	PX	5.5e-5	5.5e-5	0	0
88	Tab3	PX	5.5e-5	5.5e-5	0	0
89	Tab2	PX	5.5e-5	5.5e-5	0	0
90	Tab1	PX	5.5e-5	5.5e-5	0	0
91	SO3	PX	.000275	.000275	0	0
92	SO2	PX	.000275	.000275	0	0
93	SO1	PX	.000275	.000275	0	0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 26 : Maintenance (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft,%]	End Location[ft,%]
94	RAIL3	PX	5.5e-5	5.5e-5	0 0
95	RAIL2	PX	.00011	.00011	0 0
96	RAIL1	PX	.00011	.00011	0 0
97	PLATE3	PX	5.5e-5	5.5e-5	0 0
98	PLATE2	PX	5.5e-5	5.5e-5	0 0
99	PLATE1	PX	5.5e-5	5.5e-5	0 0
100	PIPE3	PX	.000315	.000315	0 0
101	PIPE2	PX	.000315	.000315	0 0
102	PIPE1	PX	.000315	.000315	0 0
103	MP GAMMA4	PX	.000315	.000315	0 0
104	MP GAMMA3	PX	.000315	.000315	0 0
105	MP GAMMA2	PX	.000315	.000315	0 0
106	MP GAMMA1	PX	.000315	.000315	0 0
107	MP BETA4	PX	.000315	.000315	0 0
108	MP BETA3	PX	.000315	.000315	0 0
109	MP BETA2	PX	.000315	.000315	0 0
110	MP BETA1	PX	.000315	.000315	0 0
111	MP ALPHA4	PX	.000315	.000315	0 0
112	MP ALPHA3	PX	.000315	.000315	0 0
113	MP ALPHA2	PX	.000315	.000315	0 0
114	MP ALPHA1	PX	.000315	.000315	0 0
115	MID RAIL3	PX	.000275	.000275	0 0
116	MID RAIL2	PX	.00055	.00055	0 0
117	MID RAIL1	PX	.00055	.00055	0 0
118	FACE3	PX	.000193	.000193	0 0
119	FACE2	PX	.000385	.000385	0 0
120	FACE1	PX	.000385	.000385	0 0
121	M112	PY	-.000332	-.000332	0 0
122	M112	PX	.000192	.000192	0 0
123	M113	PY	-.000332	-.000332	0 0
124	M113	PX	.000192	.000192	0 0
125	M114	PY	-.000332	-.000332	0 0
126	M114	PX	.000192	.000192	0 0
127	NEW RAIL1	PY	-.000191	-.000191	0 0
128	NEW RAIL1	PX	.00011	.00011	0 0
129	NEW RAIL3	PY	-.000191	-.000191	0 0
130	NEW RAIL3	PX	.00011	.00011	0 0
131	NEW RAIL2	PY	-.000191	-.000191	0 0
132	NEW RAIL2	PX	.00011	.00011	0 0
133	SK2	PY	-.000191	-.000191	0 0
134	SK2	PX	.00011	.00011	0 0
135	SK1	PY	-.000191	-.000191	0 0
136	SK1	PX	.00011	.00011	0 0
137	SK6	PY	-.000191	-.000191	0 0
138	SK6	PX	.00011	.00011	0 0
139	SK5	PY	-.000191	-.000191	0 0
140	SK5	PX	.00011	.00011	0 0
141	SK4	PY	-.000191	-.000191	0 0
142	SK4	PX	.00011	.00011	0 0
143	SK3	PY	-.000191	-.000191	0 0
144	SK3	PX	.00011	.00011	0 0
145	BRACE1	PY	-.000191	-.000191	0 0
146	BRACE1	PX	.00011	.00011	0 0
147	BRACE3	PY	-.000191	-.000191	0 0
148	BRACE3	PX	.00011	.00011	0 0
149	BRACE2	PY	-.000191	-.000191	0 0
150	BRACE2	PX	.00011	.00011	0 0



Company : POD
 Designer : UT
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Member Distributed Loads (BLC 27 : Ice Dead Load)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]	
1	tab18	Z	-0.05	-0.05	0	0
2	tab17	Z	-0.05	-0.05	0	0
3	tab16	Z	-0.05	-0.05	0	0
4	tab15	Z	-0.05	-0.05	0	0
5	tab14	Z	-0.05	-0.05	0	0
6	tab13	Z	-0.05	-0.05	0	0
7	tab12	Z	-0.05	-0.05	0	0
8	tab11	Z	-0.05	-0.05	0	0
9	tab10	Z	-0.05	-0.05	0	0
10	tab9	Z	-0.05	-0.05	0	0
11	tab8	Z	-0.05	-0.05	0	0
12	tab7	Z	-0.05	-0.05	0	0
13	tab6	Z	-0.05	-0.05	0	0
14	VERT12	Z	-0.05	-0.05	0	0
15	VERT11	Z	-0.05	-0.05	0	0
16	VERT10	Z	-0.05	-0.05	0	0
17	VERT9	Z	-0.05	-0.05	0	0
18	VERT8	Z	-0.05	-0.05	0	0
19	VERT7	Z	-0.05	-0.05	0	0
20	VERT6	Z	-0.05	-0.05	0	0
21	VERT5	Z	-0.05	-0.05	0	0
22	VERT4	Z	-0.05	-0.05	0	0
23	VERT3	Z	-0.05	-0.05	0	0
24	VERT2	Z	-0.05	-0.05	0	0
25	VERT1	Z	-0.05	-0.05	0	0
26	Tab5	Z	-0.05	-0.05	0	0
27	Tab4	Z	-0.05	-0.05	0	0
28	Tab3	Z	-0.05	-0.05	0	0
29	Tab2	Z	-0.05	-0.05	0	0
30	Tab1	Z	-0.05	-0.05	0	0
31	SO3	Z	-0.09	-0.09	0	0
32	SO2	Z	-0.09	-0.09	0	0
33	SO1	Z	-0.09	-0.09	0	0
34	RAIL3	Z	-0.05	-0.05	0	0
35	RAIL2	Z	-0.05	-0.05	0	0
36	RAIL1	Z	-0.05	-0.05	0	0
37	PLATE3	Z	-0.01	-0.01	0	0
38	PLATE2	Z	-0.01	-0.01	0	0
39	PLATE1	Z	-0.01	-0.01	0	0
40	PIPE3	Z	-0.05	-0.05	0	0
41	PIPE2	Z	-0.05	-0.05	0	0
42	PIPE1	Z	-0.05	-0.05	0	0
43	MP GAMMA4	Z	-0.05	-0.05	0	0
44	MP GAMMA3	Z	-0.05	-0.05	0	0
45	MP GAMMA2	Z	-0.05	-0.05	0	0
46	MP GAMMA1	Z	-0.05	-0.05	0	0
47	MP BETA4	Z	-0.05	-0.05	0	0
48	MP BETA3	Z	-0.05	-0.05	0	0
49	MP BETA2	Z	-0.05	-0.05	0	0
50	MP BETA1	Z	-0.05	-0.05	0	0
51	MP ALPHA4	Z	-0.05	-0.05	0	0
52	MP ALPHA3	Z	-0.05	-0.05	0	0
53	MP ALPHA2	Z	-0.05	-0.05	0	0
54	MP ALPHA1	Z	-0.05	-0.05	0	0
55	MID RAIL3	Z	-0.07	-0.07	0	0
56	MID RAIL2	Z	-0.07	-0.07	0	0
57	MID RAIL1	Z	-0.07	-0.07	0	0



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Member Distributed Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
58	FACE3	Z	-.01	-.01	0	0
59	FACE2	Z	-.01	-.01	0	0
60	FACE1	Z	-.01	-.01	0	0
61	M112	Z	-.005	-.005	0	0
62	M113	Z	-.005	-.005	0	0
63	M114	Z	-.005	-.005	0	0
64	NEW RAIL1	Z	-.005	-.005	0	0
65	NEW RAIL3	Z	-.005	-.005	0	0
66	NEW RAIL2	Z	-.005	-.005	0	0
67	SK2	Z	-.005	-.005	0	0
68	SK1	Z	-.005	-.005	0	0
69	SK6	Z	-.005	-.005	0	0
70	SK5	Z	-.005	-.005	0	0
71	SK4	Z	-.005	-.005	0	0
72	SK3	Z	-.005	-.005	0	0
73	BRACE1	Z	-.005	-.005	0	0
74	BRACE3	Z	-.005	-.005	0	0
75	BRACE2	Z	-.005	-.005	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-.001	-.001	0	0
2	tab17	PY	-.001	-.001	0	0
3	tab16	PY	-.001	-.001	0	0
4	tab15	PY	-.001	-.001	0	0
5	tab14	PY	-.001	-.001	0	0
6	tab13	PY	-.001	-.001	0	0
7	tab12	PY	-.001	-.001	0	0
8	tab11	PY	-.001	-.001	0	0
9	tab10	PY	-.001	-.001	0	0
10	tab9	PY	-.001	-.001	0	0
11	tab8	PY	-.001	-.001	0	0
12	tab7	PY	-.001	-.001	0	0
13	tab6	PY	-.001	-.001	0	0
14	VERT12	PY	-.001	-.001	0	0
15	VERT11	PY	-.001	-.001	0	0
16	VERT10	PY	-.001	-.001	0	0
17	VERT9	PY	-.001	-.001	0	0
18	VERT8	PY	-.003	-.003	0	0
19	VERT7	PY	-.003	-.003	0	0
20	VERT6	PY	-.003	-.003	0	0
21	VERT5	PY	-.003	-.003	0	0
22	VERT4	PY	-.003	-.003	0	0
23	VERT3	PY	-.003	-.003	0	0
24	VERT2	PY	-.003	-.003	0	0
25	VERT1	PY	-.003	-.003	0	0
26	Tab5	PY	-.001	-.001	0	0
27	Tab4	PY	-.001	-.001	0	0
28	Tab3	PY	-.001	-.001	0	0
29	Tab2	PY	-.001	-.001	0	0
30	Tab1	PY	-.001	-.001	0	0
31	SO3	PY	-.002	-.002	0	0
32	SO2	PY	-.002	-.002	0	0
33	SO1	PY	-.002	-.002	0	0
34	RAIL3	PY	-.001	-.001	0	0
35	RAIL2	PY	-.003	-.003	0	0



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 Designer : UT
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Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
36	RAIL1	PY	-0.03	-0.03	0	0
37	PLATE3	PY	-0.01	-0.01	0	0
38	PLATE2	PY	-0.01	-0.01	0	0
39	PLATE1	PY	-0.01	-0.01	0	0
40	PIPE3	PY	-0.04	-0.04	0	0
41	PIPE2	PY	-0.04	-0.04	0	0
42	PIPE1	PY	-0.04	-0.04	0	0
43	MP GAMMA4	PY	-0.04	-0.04	0	0
44	MP GAMMA3	PY	-0.04	-0.04	0	0
45	MP GAMMA2	PY	-0.04	-0.04	0	0
46	MP GAMMA1	PY	-0.04	-0.04	0	0
47	MP BETA4	PY	-0.04	-0.04	0	0
48	MP BETA3	PY	-0.04	-0.04	0	0
49	MP BETA2	PY	-0.04	-0.04	0	0
50	MP BETA1	PY	-0.04	-0.04	0	0
51	MP ALPHA4	PY	-0.04	-0.04	0	0
52	MP ALPHA3	PY	-0.04	-0.04	0	0
53	MP ALPHA2	PY	-0.04	-0.04	0	0
54	MP ALPHA1	PY	-0.04	-0.04	0	0
55	MID RAIL3	PY	-0.02	-0.02	0	0
56	MID RAIL2	PY	-0.05	-0.05	0	0
57	MID RAIL1	PY	-0.05	-0.05	0	0
58	FACE3	PY	-0.02	-0.02	0	0
59	FACE2	PY	-0.04	-0.04	0	0
60	FACE1	PY	-0.04	-0.04	0	0
61	M112	PY	-0.03	-0.03	0	0
62	M113	PY	-0.03	-0.03	0	0
63	M114	PY	-0.03	-0.03	0	0
64	NEW RAIL1	PY	-0.03	-0.03	0	0
65	NEW RAIL3	PY	-0.03	-0.03	0	0
66	NEW RAIL2	PY	-0.03	-0.03	0	0
67	SK2	PY	-0.03	-0.03	0	0
68	SK1	PY	-0.03	-0.03	0	0
69	SK6	PY	-0.03	-0.03	0	0
70	SK5	PY	-0.03	-0.03	0	0
71	SK4	PY	-0.03	-0.03	0	0
72	SK3	PY	-0.03	-0.03	0	0
73	BRACE1	PY	-0.03	-0.03	0	0
74	BRACE3	PY	-0.03	-0.03	0	0
75	BRACE2	PY	-0.03	-0.03	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-0.01	-0.01	0	0
2	tab17	PY	-0.01	-0.01	0	0
3	tab16	PY	-0.01	-0.01	0	0
4	tab15	PY	-0.01	-0.01	0	0
5	tab14	PY	-0.01	-0.01	0	0
6	tab13	PY	-0.01	-0.01	0	0
7	tab12	PY	-0.01	-0.01	0	0
8	tab11	PY	-0.01	-0.01	0	0
9	tab10	PY	-0.01	-0.01	0	0
10	tab9	PY	-0.01	-0.01	0	0
11	tab8	PY	-0.01	-0.01	0	0
12	tab7	PY	-0.01	-0.01	0	0
13	tab6	PY	-0.01	-0.01	0	0



Company : POD
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Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]	
14	VERT12	PY	-0.001	-0.001	0	0
15	VERT11	PY	-0.001	-0.001	0	0
16	VERT10	PY	-0.001	-0.001	0	0
17	VERT9	PY	-0.001	-0.001	0	0
18	VERT8	PY	-0.002	-0.002	0	0
19	VERT7	PY	-0.002	-0.002	0	0
20	VERT6	PY	-0.002	-0.002	0	0
21	VERT5	PY	-0.002	-0.002	0	0
22	VERT4	PY	-0.002	-0.002	0	0
23	VERT3	PY	-0.002	-0.002	0	0
24	VERT2	PY	-0.002	-0.002	0	0
25	VERT1	PY	-0.002	-0.002	0	0
26	Tab5	PY	-0.001	-0.001	0	0
27	Tab4	PY	-0.001	-0.001	0	0
28	Tab3	PY	-0.001	-0.001	0	0
29	Tab2	PY	-0.001	-0.001	0	0
30	Tab1	PY	-0.001	-0.001	0	0
31	SO3	PY	-0.002	-0.002	0	0
32	SO2	PY	-0.002	-0.002	0	0
33	SO1	PY	-0.002	-0.002	0	0
34	RAIL3	PY	-0.001	-0.001	0	0
35	RAIL2	PY	-0.002	-0.002	0	0
36	RAIL1	PY	-0.002	-0.002	0	0
37	PLATE3	PY	-0.001	-0.001	0	0
38	PLATE2	PY	-0.001	-0.001	0	0
39	PLATE1	PY	-0.001	-0.001	0	0
40	PIPE3	PY	-0.003	-0.003	0	0
41	PIPE2	PY	-0.003	-0.003	0	0
42	PIPE1	PY	-0.003	-0.003	0	0
43	MP GAMMA4	PY	-0.003	-0.003	0	0
44	MP GAMMA3	PY	-0.003	-0.003	0	0
45	MP GAMMA2	PY	-0.003	-0.003	0	0
46	MP GAMMA1	PY	-0.003	-0.003	0	0
47	MP BETA4	PY	-0.003	-0.003	0	0
48	MP BETA3	PY	-0.003	-0.003	0	0
49	MP BETA2	PY	-0.003	-0.003	0	0
50	MP BETA1	PY	-0.003	-0.003	0	0
51	MP ALPHA4	PY	-0.003	-0.003	0	0
52	MP ALPHA3	PY	-0.003	-0.003	0	0
53	MP ALPHA2	PY	-0.003	-0.003	0	0
54	MP ALPHA1	PY	-0.003	-0.003	0	0
55	MID RAIL3	PY	-0.002	-0.002	0	0
56	MID RAIL2	PY	-0.004	-0.004	0	0
57	MID RAIL1	PY	-0.004	-0.004	0	0
58	FACE3	PY	-0.002	-0.002	0	0
59	FACE2	PY	-0.004	-0.004	0	0
60	FACE1	PY	-0.004	-0.004	0	0
61	tab18	PX	-0.000715	-0.000715	0	0
62	tab17	PX	-0.000715	-0.000715	0	0
63	tab16	PX	-0.000715	-0.000715	0	0
64	tab15	PX	-0.000715	-0.000715	0	0
65	tab14	PX	-0.000715	-0.000715	0	0
66	tab13	PX	-0.000715	-0.000715	0	0
67	tab12	PX	-0.000715	-0.000715	0	0
68	tab11	PX	-0.000715	-0.000715	0	0
69	tab10	PX	-0.000715	-0.000715	0	0
70	tab9	PX	-0.000715	-0.000715	0	0



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Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
71	tab8	PX	-0.000715	-0.000715	0	0
72	tab7	PX	-0.000715	-0.000715	0	0
73	tab6	PX	-0.000715	-0.000715	0	0
74	VERT12	PX	-0.000715	-0.000715	0	0
75	VERT11	PX	-0.000715	-0.000715	0	0
76	VERT10	PX	-0.000715	-0.000715	0	0
77	VERT9	PX	-0.000715	-0.000715	0	0
78	VERT8	PX	-0.001	-0.001	0	0
79	VERT7	PX	-0.001	-0.001	0	0
80	VERT6	PX	-0.001	-0.001	0	0
81	VERT5	PX	-0.001	-0.001	0	0
82	VERT4	PX	-0.001	-0.001	0	0
83	VERT3	PX	-0.001	-0.001	0	0
84	VERT2	PX	-0.001	-0.001	0	0
85	VERT1	PX	-0.001	-0.001	0	0
86	Tab5	PX	-0.000715	-0.000715	0	0
87	Tab4	PX	-0.000715	-0.000715	0	0
88	Tab3	PX	-0.000715	-0.000715	0	0
89	Tab2	PX	-0.000715	-0.000715	0	0
90	Tab1	PX	-0.000715	-0.000715	0	0
91	SO3	PX	-0.001	-0.001	0	0
92	SO2	PX	-0.001	-0.001	0	0
93	SO1	PX	-0.001	-0.001	0	0
94	RAIL3	PX	-0.000715	-0.000715	0	0
95	RAIL2	PX	-0.001	-0.001	0	0
96	RAIL1	PX	-0.001	-0.001	0	0
97	PLATE3	PX	-0.000715	-0.000715	0	0
98	PLATE2	PX	-0.000715	-0.000715	0	0
99	PLATE1	PX	-0.000715	-0.000715	0	0
100	PIPE3	PX	-0.002	-0.002	0	0
101	PIPE2	PX	-0.002	-0.002	0	0
102	PIPE1	PX	-0.002	-0.002	0	0
103	MP GAMMA4	PX	-0.002	-0.002	0	0
104	MP GAMMA3	PX	-0.002	-0.002	0	0
105	MP GAMMA2	PX	-0.002	-0.002	0	0
106	MP GAMMA1	PX	-0.002	-0.002	0	0
107	MP BETA4	PX	-0.002	-0.002	0	0
108	MP BETA3	PX	-0.002	-0.002	0	0
109	MP BETA2	PX	-0.002	-0.002	0	0
110	MP BETA1	PX	-0.002	-0.002	0	0
111	MP ALPHA4	PX	-0.002	-0.002	0	0
112	MP ALPHA3	PX	-0.002	-0.002	0	0
113	MP ALPHA2	PX	-0.002	-0.002	0	0
114	MP ALPHA1	PX	-0.002	-0.002	0	0
115	MID RAIL3	PX	-0.001	-0.001	0	0
116	MID RAIL2	PX	-0.002	-0.002	0	0
117	MID RAIL1	PX	-0.002	-0.002	0	0
118	FACE3	PX	-0.001	-0.001	0	0
119	FACE2	PX	-0.002	-0.002	0	0
120	FACE1	PX	-0.002	-0.002	0	0
121	M112	PY	-0.002	-0.002	0	0
122	M112	PX	-0.001	-0.001	0	0
123	M113	PY	-0.002	-0.002	0	0
124	M113	PX	-0.001	-0.001	0	0
125	M114	PY	-0.002	-0.002	0	0
126	M114	PX	-0.001	-0.001	0	0
127	NEW RAIL1	PY	-0.002	-0.002	0	0



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Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
128	NEW RAIL1	PX	-0.001	-0.001	0	0
129	NEW RAIL3	PY	-0.002	-0.002	0	0
130	NEW RAIL3	PX	-0.001	-0.001	0	0
131	NEW RAIL2	PY	-0.002	-0.002	0	0
132	NEW RAIL2	PX	-0.001	-0.001	0	0
133	SK2	PY	-0.002	-0.002	0	0
134	SK2	PX	-0.001	-0.001	0	0
135	SK1	PY	-0.002	-0.002	0	0
136	SK1	PX	-0.001	-0.001	0	0
137	SK6	PY	-0.002	-0.002	0	0
138	SK6	PX	-0.001	-0.001	0	0
139	SK5	PY	-0.002	-0.002	0	0
140	SK5	PX	-0.001	-0.001	0	0
141	SK4	PY	-0.002	-0.002	0	0
142	SK4	PX	-0.001	-0.001	0	0
143	SK3	PY	-0.002	-0.002	0	0
144	SK3	PX	-0.001	-0.001	0	0
145	BRACE1	PY	-0.002	-0.002	0	0
146	BRACE1	PX	-0.001	-0.001	0	0
147	BRACE3	PY	-0.002	-0.002	0	0
148	BRACE3	PX	-0.001	-0.001	0	0
149	BRACE2	PY	-0.002	-0.002	0	0
150	BRACE2	PX	-0.001	-0.001	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-0.000715	-0.000715	0	0
2	tab17	PY	-0.000715	-0.000715	0	0
3	tab16	PY	-0.000715	-0.000715	0	0
4	tab15	PY	-0.000715	-0.000715	0	0
5	tab14	PY	-0.000715	-0.000715	0	0
6	tab13	PY	-0.000715	-0.000715	0	0
7	tab12	PY	-0.000715	-0.000715	0	0
8	tab11	PY	-0.000715	-0.000715	0	0
9	tab10	PY	-0.000715	-0.000715	0	0
10	tab9	PY	-0.000715	-0.000715	0	0
11	tab8	PY	-0.000715	-0.000715	0	0
12	tab7	PY	-0.000715	-0.000715	0	0
13	tab6	PY	-0.000715	-0.000715	0	0
14	VERT12	PY	-0.000715	-0.000715	0	0
15	VERT11	PY	-0.000715	-0.000715	0	0
16	VERT10	PY	-0.000715	-0.000715	0	0
17	VERT9	PY	-0.000715	-0.000715	0	0
18	VERT8	PY	-0.001	-0.001	0	0
19	VERT7	PY	-0.001	-0.001	0	0
20	VERT6	PY	-0.001	-0.001	0	0
21	VERT5	PY	-0.001	-0.001	0	0
22	VERT4	PY	-0.001	-0.001	0	0
23	VERT3	PY	-0.001	-0.001	0	0
24	VERT2	PY	-0.001	-0.001	0	0
25	VERT1	PY	-0.001	-0.001	0	0
26	Tab5	PY	-0.000715	-0.000715	0	0
27	Tab4	PY	-0.000715	-0.000715	0	0
28	Tab3	PY	-0.000715	-0.000715	0	0
29	Tab2	PY	-0.000715	-0.000715	0	0
30	Tab1	PY	-0.000715	-0.000715	0	0



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Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
31	SO3	PY	-0.001	-0.001	0 0
32	SO2	PY	-0.001	-0.001	0 0
33	SO1	PY	-0.001	-0.001	0 0
34	RAIL3	PY	-0.000715	-0.000715	0 0
35	RAIL2	PY	-0.001	-0.001	0 0
36	RAIL1	PY	-0.001	-0.001	0 0
37	PLATE3	PY	-0.000715	-0.000715	0 0
38	PLATE2	PY	-0.000715	-0.000715	0 0
39	PLATE1	PY	-0.000715	-0.000715	0 0
40	PIPE3	PY	-0.002	-0.002	0 0
41	PIPE2	PY	-0.002	-0.002	0 0
42	PIPE1	PY	-0.002	-0.002	0 0
43	MP GAMMA4	PY	-0.002	-0.002	0 0
44	MP GAMMA3	PY	-0.002	-0.002	0 0
45	MP GAMMA2	PY	-0.002	-0.002	0 0
46	MP GAMMA1	PY	-0.002	-0.002	0 0
47	MP BETA4	PY	-0.002	-0.002	0 0
48	MP BETA3	PY	-0.002	-0.002	0 0
49	MP BETA2	PY	-0.002	-0.002	0 0
50	MP BETA1	PY	-0.002	-0.002	0 0
51	MP ALPHA4	PY	-0.002	-0.002	0 0
52	MP ALPHA3	PY	-0.002	-0.002	0 0
53	MP ALPHA2	PY	-0.002	-0.002	0 0
54	MP ALPHA1	PY	-0.002	-0.002	0 0
55	MID RAIL3	PY	-0.001	-0.001	0 0
56	MID RAIL2	PY	-0.002	-0.002	0 0
57	MID RAIL1	PY	-0.002	-0.002	0 0
58	FACE3	PY	-0.001	-0.001	0 0
59	FACE2	PY	-0.002	-0.002	0 0
60	FACE1	PY	-0.002	-0.002	0 0
61	tab18	PX	-0.001	-0.001	0 0
62	tab17	PX	-0.001	-0.001	0 0
63	tab16	PX	-0.001	-0.001	0 0
64	tab15	PX	-0.001	-0.001	0 0
65	tab14	PX	-0.001	-0.001	0 0
66	tab13	PX	-0.001	-0.001	0 0
67	tab12	PX	-0.001	-0.001	0 0
68	tab11	PX	-0.001	-0.001	0 0
69	tab10	PX	-0.001	-0.001	0 0
70	tab9	PX	-0.001	-0.001	0 0
71	tab8	PX	-0.001	-0.001	0 0
72	tab7	PX	-0.001	-0.001	0 0
73	tab6	PX	-0.001	-0.001	0 0
74	VERT12	PX	-0.001	-0.001	0 0
75	VERT11	PX	-0.001	-0.001	0 0
76	VERT10	PX	-0.001	-0.001	0 0
77	VERT9	PX	-0.001	-0.001	0 0
78	VERT8	PX	-0.002	-0.002	0 0
79	VERT7	PX	-0.002	-0.002	0 0
80	VERT6	PX	-0.002	-0.002	0 0
81	VERT5	PX	-0.002	-0.002	0 0
82	VERT4	PX	-0.002	-0.002	0 0
83	VERT3	PX	-0.002	-0.002	0 0
84	VERT2	PX	-0.002	-0.002	0 0
85	VERT1	PX	-0.002	-0.002	0 0
86	Tab5	PX	-0.001	-0.001	0 0
87	Tab4	PX	-0.001	-0.001	0 0



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Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft,%]	End Location[ft,%]
88	Tab3	PX	-0.01	-0.01	0 0
89	Tab2	PX	-0.01	-0.01	0 0
90	Tab1	PX	-0.01	-0.01	0 0
91	SO3	PX	-0.02	-0.02	0 0
92	SO2	PX	-0.02	-0.02	0 0
93	SO1	PX	-0.02	-0.02	0 0
94	RAIL3	PX	-0.01	-0.01	0 0
95	RAIL2	PX	-0.02	-0.02	0 0
96	RAIL1	PX	-0.02	-0.02	0 0
97	PLATE3	PX	-0.01	-0.01	0 0
98	PLATE2	PX	-0.01	-0.01	0 0
99	PLATE1	PX	-0.01	-0.01	0 0
100	PIPE3	PX	-0.03	-0.03	0 0
101	PIPE2	PX	-0.03	-0.03	0 0
102	PIPE1	PX	-0.03	-0.03	0 0
103	MP GAMMA4	PX	-0.03	-0.03	0 0
104	MP GAMMA3	PX	-0.03	-0.03	0 0
105	MP GAMMA2	PX	-0.03	-0.03	0 0
106	MP GAMMA1	PX	-0.03	-0.03	0 0
107	MP BETA4	PX	-0.03	-0.03	0 0
108	MP BETA3	PX	-0.03	-0.03	0 0
109	MP BETA2	PX	-0.03	-0.03	0 0
110	MP BETA1	PX	-0.03	-0.03	0 0
111	MP ALPHA4	PX	-0.03	-0.03	0 0
112	MP ALPHA3	PX	-0.03	-0.03	0 0
113	MP ALPHA2	PX	-0.03	-0.03	0 0
114	MP ALPHA1	PX	-0.03	-0.03	0 0
115	MID RAIL3	PX	-0.02	-0.02	0 0
116	MID RAIL2	PX	-0.04	-0.04	0 0
117	MID RAIL1	PX	-0.04	-0.04	0 0
118	FACE3	PX	-0.02	-0.02	0 0
119	FACE2	PX	-0.04	-0.04	0 0
120	FACE1	PX	-0.04	-0.04	0 0
121	M112	PY	-0.01	-0.01	0 0
122	M112	PX	-0.02	-0.02	0 0
123	M113	PY	-0.01	-0.01	0 0
124	M113	PX	-0.02	-0.02	0 0
125	M114	PY	-0.01	-0.01	0 0
126	M114	PX	-0.02	-0.02	0 0
127	NEW RAIL1	PY	-0.01	-0.01	0 0
128	NEW RAIL1	PX	-0.02	-0.02	0 0
129	NEW RAIL3	PY	-0.01	-0.01	0 0
130	NEW RAIL3	PX	-0.02	-0.02	0 0
131	NEW RAIL2	PY	-0.01	-0.01	0 0
132	NEW RAIL2	PX	-0.02	-0.02	0 0
133	SK2	PY	-0.01	-0.01	0 0
134	SK2	PX	-0.02	-0.02	0 0
135	SK1	PY	-0.01	-0.01	0 0
136	SK1	PX	-0.02	-0.02	0 0
137	SK6	PY	-0.01	-0.01	0 0
138	SK6	PX	-0.02	-0.02	0 0
139	SK5	PY	-0.01	-0.01	0 0
140	SK5	PX	-0.02	-0.02	0 0
141	SK4	PY	-0.01	-0.01	0 0
142	SK4	PX	-0.02	-0.02	0 0
143	SK3	PY	-0.01	-0.01	0 0
144	SK3	PX	-0.02	-0.02	0 0



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Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
145	BRACE1	PY	-0.01	-0.01	0	0
146	BRACE1	PX	-0.02	-0.02	0	0
147	BRACE3	PY	-0.01	-0.01	0	0
148	BRACE3	PX	-0.02	-0.02	0	0
149	BRACE2	PY	-0.01	-0.01	0	0
150	BRACE2	PX	-0.02	-0.02	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
1	tab18	PX	-0.01	-0.01	0	0
2	tab17	PX	-0.01	-0.01	0	0
3	tab16	PX	-0.01	-0.01	0	0
4	tab15	PX	-0.01	-0.01	0	0
5	tab14	PX	-0.01	-0.01	0	0
6	tab13	PX	-0.01	-0.01	0	0
7	tab12	PX	-0.01	-0.01	0	0
8	tab11	PX	-0.01	-0.01	0	0
9	tab10	PX	-0.01	-0.01	0	0
10	tab9	PX	-0.01	-0.01	0	0
11	tab8	PX	-0.01	-0.01	0	0
12	tab7	PX	-0.01	-0.01	0	0
13	tab6	PX	-0.01	-0.01	0	0
14	VERT12	PX	-0.01	-0.01	0	0
15	VERT11	PX	-0.01	-0.01	0	0
16	VERT10	PX	-0.01	-0.01	0	0
17	VERT9	PX	-0.01	-0.01	0	0
18	VERT8	PX	-0.03	-0.03	0	0
19	VERT7	PX	-0.03	-0.03	0	0
20	VERT6	PX	-0.03	-0.03	0	0
21	VERT5	PX	-0.03	-0.03	0	0
22	VERT4	PX	-0.03	-0.03	0	0
23	VERT3	PX	-0.03	-0.03	0	0
24	VERT2	PX	-0.03	-0.03	0	0
25	VERT1	PX	-0.03	-0.03	0	0
26	Tab5	PX	-0.01	-0.01	0	0
27	Tab4	PX	-0.01	-0.01	0	0
28	Tab3	PX	-0.01	-0.01	0	0
29	Tab2	PX	-0.01	-0.01	0	0
30	Tab1	PX	-0.01	-0.01	0	0
31	SO3	PX	-0.02	-0.02	0	0
32	SO2	PX	-0.02	-0.02	0	0
33	SO1	PX	-0.02	-0.02	0	0
34	RAIL3	PX	-0.01	-0.01	0	0
35	RAIL2	PX	-0.03	-0.03	0	0
36	RAIL1	PX	-0.03	-0.03	0	0
37	PLATE3	PX	-0.01	-0.01	0	0
38	PLATE2	PX	-0.01	-0.01	0	0
39	PLATE1	PX	-0.01	-0.01	0	0
40	PIPE3	PX	-0.04	-0.04	0	0
41	PIPE2	PX	-0.04	-0.04	0	0
42	PIPE1	PX	-0.04	-0.04	0	0
43	MP GAMMA4	PX	-0.04	-0.04	0	0
44	MP GAMMA3	PX	-0.04	-0.04	0	0
45	MP GAMMA2	PX	-0.04	-0.04	0	0
46	MP GAMMA1	PX	-0.04	-0.04	0	0
47	MP BETA4	PX	-0.04	-0.04	0	0



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Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
48	MP BETA3	PX	-.004	-.004	0	0
49	MP BETA2	PX	-.004	-.004	0	0
50	MP BETA1	PX	-.004	-.004	0	0
51	MP ALPHA4	PX	-.004	-.004	0	0
52	MP ALPHA3	PX	-.004	-.004	0	0
53	MP ALPHA2	PX	-.004	-.004	0	0
54	MP ALPHA1	PX	-.004	-.004	0	0
55	MID RAIL3	PX	-.002	-.002	0	0
56	MID RAIL2	PX	-.005	-.005	0	0
57	MID RAIL1	PX	-.005	-.005	0	0
58	FACE3	PX	-.002	-.002	0	0
59	FACE2	PX	-.004	-.004	0	0
60	FACE1	PX	-.004	-.004	0	0
61	M112	PX	-.003	-.003	0	0
62	M113	PX	-.003	-.003	0	0
63	M114	PX	-.003	-.003	0	0
64	NEW RAIL1	PX	-.003	-.003	0	0
65	NEW RAIL3	PX	-.003	-.003	0	0
66	NEW RAIL2	PX	-.003	-.003	0	0
67	SK2	PX	-.003	-.003	0	0
68	SK1	PX	-.003	-.003	0	0
69	SK6	PX	-.003	-.003	0	0
70	SK5	PX	-.003	-.003	0	0
71	SK4	PX	-.003	-.003	0	0
72	SK3	PX	-.003	-.003	0	0
73	BRACE1	PX	-.003	-.003	0	0
74	BRACE3	PX	-.003	-.003	0	0
75	BRACE2	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
1	tab18	PY	.000715	.000715	0	0
2	tab17	PY	.000715	.000715	0	0
3	tab16	PY	.000715	.000715	0	0
4	tab15	PY	.000715	.000715	0	0
5	tab14	PY	.000715	.000715	0	0
6	tab13	PY	.000715	.000715	0	0
7	tab12	PY	.000715	.000715	0	0
8	tab11	PY	.000715	.000715	0	0
9	tab10	PY	.000715	.000715	0	0
10	tab9	PY	.000715	.000715	0	0
11	tab8	PY	.000715	.000715	0	0
12	tab7	PY	.000715	.000715	0	0
13	tab6	PY	.000715	.000715	0	0
14	VERT12	PY	.000715	.000715	0	0
15	VERT11	PY	.000715	.000715	0	0
16	VERT10	PY	.000715	.000715	0	0
17	VERT9	PY	.000715	.000715	0	0
18	VERT8	PY	.001	.001	0	0
19	VERT7	PY	.001	.001	0	0
20	VERT6	PY	.001	.001	0	0
21	VERT5	PY	.001	.001	0	0
22	VERT4	PY	.001	.001	0	0
23	VERT3	PY	.001	.001	0	0
24	VERT2	PY	.001	.001	0	0
25	VERT1	PY	.001	.001	0	0



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Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
26	Tab5	PY	.000715	.000715	0 0
27	Tab4	PY	.000715	.000715	0 0
28	Tab3	PY	.000715	.000715	0 0
29	Tab2	PY	.000715	.000715	0 0
30	Tab1	PY	.000715	.000715	0 0
31	SO3	PY	.001	.001	0 0
32	SO2	PY	.001	.001	0 0
33	SO1	PY	.001	.001	0 0
34	RAIL3	PY	.000715	.000715	0 0
35	RAIL2	PY	.001	.001	0 0
36	RAIL1	PY	.001	.001	0 0
37	PLATE3	PY	.000715	.000715	0 0
38	PLATE2	PY	.000715	.000715	0 0
39	PLATE1	PY	.000715	.000715	0 0
40	PIPE3	PY	.002	.002	0 0
41	PIPE2	PY	.002	.002	0 0
42	PIPE1	PY	.002	.002	0 0
43	MP GAMMA4	PY	.002	.002	0 0
44	MP GAMMA3	PY	.002	.002	0 0
45	MP GAMMA2	PY	.002	.002	0 0
46	MP GAMMA1	PY	.002	.002	0 0
47	MP BETA4	PY	.002	.002	0 0
48	MP BETA3	PY	.002	.002	0 0
49	MP BETA2	PY	.002	.002	0 0
50	MP BETA1	PY	.002	.002	0 0
51	MP ALPHA4	PY	.002	.002	0 0
52	MP ALPHA3	PY	.002	.002	0 0
53	MP ALPHA2	PY	.002	.002	0 0
54	MP ALPHA1	PY	.002	.002	0 0
55	MID RAIL3	PY	.001	.001	0 0
56	MID RAIL2	PY	.002	.002	0 0
57	MID RAIL1	PY	.002	.002	0 0
58	FACE3	PY	.001	.001	0 0
59	FACE2	PY	.002	.002	0 0
60	FACE1	PY	.002	.002	0 0
61	tab18	PX	-.001	-.001	0 0
62	tab17	PX	-.001	-.001	0 0
63	tab16	PX	-.001	-.001	0 0
64	tab15	PX	-.001	-.001	0 0
65	tab14	PX	-.001	-.001	0 0
66	tab13	PX	-.001	-.001	0 0
67	tab12	PX	-.001	-.001	0 0
68	tab11	PX	-.001	-.001	0 0
69	tab10	PX	-.001	-.001	0 0
70	tab9	PX	-.001	-.001	0 0
71	tab8	PX	-.001	-.001	0 0
72	tab7	PX	-.001	-.001	0 0
73	tab6	PX	-.001	-.001	0 0
74	VERT12	PX	-.001	-.001	0 0
75	VERT11	PX	-.001	-.001	0 0
76	VERT10	PX	-.001	-.001	0 0
77	VERT9	PX	-.001	-.001	0 0
78	VERT8	PX	-.002	-.002	0 0
79	VERT7	PX	-.002	-.002	0 0
80	VERT6	PX	-.002	-.002	0 0
81	VERT5	PX	-.002	-.002	0 0
82	VERT4	PX	-.002	-.002	0 0



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Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
83	VERT3	PX	-.002	-.002	0 0
84	VERT2	PX	-.002	-.002	0 0
85	VERT1	PX	-.002	-.002	0 0
86	Tab5	PX	-.001	-.001	0 0
87	Tab4	PX	-.001	-.001	0 0
88	Tab3	PX	-.001	-.001	0 0
89	Tab2	PX	-.001	-.001	0 0
90	Tab1	PX	-.001	-.001	0 0
91	SO3	PX	-.002	-.002	0 0
92	SO2	PX	-.002	-.002	0 0
93	SO1	PX	-.002	-.002	0 0
94	RAIL3	PX	-.001	-.001	0 0
95	RAIL2	PX	-.002	-.002	0 0
96	RAIL1	PX	-.002	-.002	0 0
97	PLATE3	PX	-.001	-.001	0 0
98	PLATE2	PX	-.001	-.001	0 0
99	PLATE1	PX	-.001	-.001	0 0
100	PIPE3	PX	-.003	-.003	0 0
101	PIPE2	PX	-.003	-.003	0 0
102	PIPE1	PX	-.003	-.003	0 0
103	MP GAMMA4	PX	-.003	-.003	0 0
104	MP GAMMA3	PX	-.003	-.003	0 0
105	MP GAMMA2	PX	-.003	-.003	0 0
106	MP GAMMA1	PX	-.003	-.003	0 0
107	MP BETA4	PX	-.003	-.003	0 0
108	MP BETA3	PX	-.003	-.003	0 0
109	MP BETA2	PX	-.003	-.003	0 0
110	MP BETA1	PX	-.003	-.003	0 0
111	MP ALPHA4	PX	-.003	-.003	0 0
112	MP ALPHA3	PX	-.003	-.003	0 0
113	MP ALPHA2	PX	-.003	-.003	0 0
114	MP ALPHA1	PX	-.003	-.003	0 0
115	MID RAIL3	PX	-.002	-.002	0 0
116	MID RAIL2	PX	-.004	-.004	0 0
117	MID RAIL1	PX	-.004	-.004	0 0
118	FACE3	PX	-.002	-.002	0 0
119	FACE2	PX	-.004	-.004	0 0
120	FACE1	PX	-.004	-.004	0 0
121	M112	PY	.001	.001	0 0
122	M112	PX	-.002	-.002	0 0
123	M113	PY	.001	.001	0 0
124	M113	PX	-.002	-.002	0 0
125	M114	PY	.001	.001	0 0
126	M114	PX	-.002	-.002	0 0
127	NEW RAIL1	PY	.001	.001	0 0
128	NEW RAIL1	PX	-.002	-.002	0 0
129	NEW RAIL3	PY	.001	.001	0 0
130	NEW RAIL3	PX	-.002	-.002	0 0
131	NEW RAIL2	PY	.001	.001	0 0
132	NEW RAIL2	PX	-.002	-.002	0 0
133	SK2	PY	.001	.001	0 0
134	SK2	PX	-.002	-.002	0 0
135	SK1	PY	.001	.001	0 0
136	SK1	PX	-.002	-.002	0 0
137	SK6	PY	.001	.001	0 0
138	SK6	PX	-.002	-.002	0 0
139	SK5	PY	.001	.001	0 0



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Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
140	SK5	PX	-.002	-.002	0	0
141	SK4	PY	.001	.001	0	0
142	SK4	PX	-.002	-.002	0	0
143	SK3	PY	.001	.001	0	0
144	SK3	PX	-.002	-.002	0	0
145	BRACE1	PY	.001	.001	0	0
146	BRACE1	PX	-.002	-.002	0	0
147	BRACE3	PY	.001	.001	0	0
148	BRACE3	PX	-.002	-.002	0	0
149	BRACE2	PY	.001	.001	0	0
150	BRACE2	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
1	tab18	PY	.001	.001	0	0
2	tab17	PY	.001	.001	0	0
3	tab16	PY	.001	.001	0	0
4	tab15	PY	.001	.001	0	0
5	tab14	PY	.001	.001	0	0
6	tab13	PY	.001	.001	0	0
7	tab12	PY	.001	.001	0	0
8	tab11	PY	.001	.001	0	0
9	tab10	PY	.001	.001	0	0
10	tab9	PY	.001	.001	0	0
11	tab8	PY	.001	.001	0	0
12	tab7	PY	.001	.001	0	0
13	tab6	PY	.001	.001	0	0
14	VERT12	PY	.001	.001	0	0
15	VERT11	PY	.001	.001	0	0
16	VERT10	PY	.001	.001	0	0
17	VERT9	PY	.001	.001	0	0
18	VERT8	PY	.002	.002	0	0
19	VERT7	PY	.002	.002	0	0
20	VERT6	PY	.002	.002	0	0
21	VERT5	PY	.002	.002	0	0
22	VERT4	PY	.002	.002	0	0
23	VERT3	PY	.002	.002	0	0
24	VERT2	PY	.002	.002	0	0
25	VERT1	PY	.002	.002	0	0
26	Tab5	PY	.001	.001	0	0
27	Tab4	PY	.001	.001	0	0
28	Tab3	PY	.001	.001	0	0
29	Tab2	PY	.001	.001	0	0
30	Tab1	PY	.001	.001	0	0
31	SO3	PY	.002	.002	0	0
32	SO2	PY	.002	.002	0	0
33	SO1	PY	.002	.002	0	0
34	RAIL3	PY	.001	.001	0	0
35	RAIL2	PY	.002	.002	0	0
36	RAIL1	PY	.002	.002	0	0
37	PLATE3	PY	.001	.001	0	0
38	PLATE2	PY	.001	.001	0	0
39	PLATE1	PY	.001	.001	0	0
40	PIPE3	PY	.003	.003	0	0
41	PIPE2	PY	.003	.003	0	0
42	PIPE1	PY	.003	.003	0	0



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Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
43	MP GAMMA4	PY	.003	.003	0 0
44	MP GAMMA3	PY	.003	.003	0 0
45	MP GAMMA2	PY	.003	.003	0 0
46	MP GAMMA1	PY	.003	.003	0 0
47	MP BETA4	PY	.003	.003	0 0
48	MP BETA3	PY	.003	.003	0 0
49	MP BETA2	PY	.003	.003	0 0
50	MP BETA1	PY	.003	.003	0 0
51	MP ALPHA4	PY	.003	.003	0 0
52	MP ALPHA3	PY	.003	.003	0 0
53	MP ALPHA2	PY	.003	.003	0 0
54	MP ALPHA1	PY	.003	.003	0 0
55	MID RAIL3	PY	.002	.002	0 0
56	MID RAIL2	PY	.004	.004	0 0
57	MID RAIL1	PY	.004	.004	0 0
58	FACE3	PY	.002	.002	0 0
59	FACE2	PY	.004	.004	0 0
60	FACE1	PY	.004	.004	0 0
61	tab18	PX	-.000715	-.000715	0 0
62	tab17	PX	-.000715	-.000715	0 0
63	tab16	PX	-.000715	-.000715	0 0
64	tab15	PX	-.000715	-.000715	0 0
65	tab14	PX	-.000715	-.000715	0 0
66	tab13	PX	-.000715	-.000715	0 0
67	tab12	PX	-.000715	-.000715	0 0
68	tab11	PX	-.000715	-.000715	0 0
69	tab10	PX	-.000715	-.000715	0 0
70	tab9	PX	-.000715	-.000715	0 0
71	tab8	PX	-.000715	-.000715	0 0
72	tab7	PX	-.000715	-.000715	0 0
73	tab6	PX	-.000715	-.000715	0 0
74	VERT12	PX	-.000715	-.000715	0 0
75	VERT11	PX	-.000715	-.000715	0 0
76	VERT10	PX	-.000715	-.000715	0 0
77	VERT9	PX	-.000715	-.000715	0 0
78	VERT8	PX	-.001	-.001	0 0
79	VERT7	PX	-.001	-.001	0 0
80	VERT6	PX	-.001	-.001	0 0
81	VERT5	PX	-.001	-.001	0 0
82	VERT4	PX	-.001	-.001	0 0
83	VERT3	PX	-.001	-.001	0 0
84	VERT2	PX	-.001	-.001	0 0
85	VERT1	PX	-.001	-.001	0 0
86	Tab5	PX	-.000715	-.000715	0 0
87	Tab4	PX	-.000715	-.000715	0 0
88	Tab3	PX	-.000715	-.000715	0 0
89	Tab2	PX	-.000715	-.000715	0 0
90	Tab1	PX	-.000715	-.000715	0 0
91	SO3	PX	-.001	-.001	0 0
92	SO2	PX	-.001	-.001	0 0
93	SO1	PX	-.001	-.001	0 0
94	RAIL3	PX	-.000715	-.000715	0 0
95	RAIL2	PX	-.001	-.001	0 0
96	RAIL1	PX	-.001	-.001	0 0
97	PLATE3	PX	-.000715	-.000715	0 0
98	PLATE2	PX	-.000715	-.000715	0 0
99	PLATE1	PX	-.000715	-.000715	0 0



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Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
100	PIPE3	PX	-.002	-.002	0	0
101	PIPE2	PX	-.002	-.002	0	0
102	PIPE1	PX	-.002	-.002	0	0
103	MP GAMMA4	PX	-.002	-.002	0	0
104	MP GAMMA3	PX	-.002	-.002	0	0
105	MP GAMMA2	PX	-.002	-.002	0	0
106	MP GAMMA1	PX	-.002	-.002	0	0
107	MP BETA4	PX	-.002	-.002	0	0
108	MP BETA3	PX	-.002	-.002	0	0
109	MP BETA2	PX	-.002	-.002	0	0
110	MP BETA1	PX	-.002	-.002	0	0
111	MP ALPHA4	PX	-.002	-.002	0	0
112	MP ALPHA3	PX	-.002	-.002	0	0
113	MP ALPHA2	PX	-.002	-.002	0	0
114	MP ALPHA1	PX	-.002	-.002	0	0
115	MID RAIL3	PX	-.001	-.001	0	0
116	MID RAIL2	PX	-.002	-.002	0	0
117	MID RAIL1	PX	-.002	-.002	0	0
118	FACE3	PX	-.001	-.001	0	0
119	FACE2	PX	-.002	-.002	0	0
120	FACE1	PX	-.002	-.002	0	0
121	M112	PY	.002	.002	0	0
122	M112	PX	-.001	-.001	0	0
123	M113	PY	.002	.002	0	0
124	M113	PX	-.001	-.001	0	0
125	M114	PY	.002	.002	0	0
126	M114	PX	-.001	-.001	0	0
127	NEW RAIL1	PY	.002	.002	0	0
128	NEW RAIL1	PX	-.001	-.001	0	0
129	NEW RAIL3	PY	.002	.002	0	0
130	NEW RAIL3	PX	-.001	-.001	0	0
131	NEW RAIL2	PY	.002	.002	0	0
132	NEW RAIL2	PX	-.001	-.001	0	0
133	SK2	PY	.002	.002	0	0
134	SK2	PX	-.001	-.001	0	0
135	SK1	PY	.002	.002	0	0
136	SK1	PX	-.001	-.001	0	0
137	SK6	PY	.002	.002	0	0
138	SK6	PX	-.001	-.001	0	0
139	SK5	PY	.002	.002	0	0
140	SK5	PX	-.001	-.001	0	0
141	SK4	PY	.002	.002	0	0
142	SK4	PX	-.001	-.001	0	0
143	SK3	PY	.002	.002	0	0
144	SK3	PX	-.001	-.001	0	0
145	BRACE1	PY	.002	.002	0	0
146	BRACE1	PX	-.001	-.001	0	0
147	BRACE3	PY	.002	.002	0	0
148	BRACE3	PX	-.001	-.001	0	0
149	BRACE2	PY	.002	.002	0	0
150	BRACE2	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
1	tab18	PY	.001	.001	0	0
2	tab17	PY	.001	.001	0	0



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Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
3	tab16	PY	.001	.001	0 0
4	tab15	PY	.001	.001	0 0
5	tab14	PY	.001	.001	0 0
6	tab13	PY	.001	.001	0 0
7	tab12	PY	.001	.001	0 0
8	tab11	PY	.001	.001	0 0
9	tab10	PY	.001	.001	0 0
10	tab9	PY	.001	.001	0 0
11	tab8	PY	.001	.001	0 0
12	tab7	PY	.001	.001	0 0
13	tab6	PY	.001	.001	0 0
14	VERT12	PY	.001	.001	0 0
15	VERT11	PY	.001	.001	0 0
16	VERT10	PY	.001	.001	0 0
17	VERT9	PY	.001	.001	0 0
18	VERT8	PY	.003	.003	0 0
19	VERT7	PY	.003	.003	0 0
20	VERT6	PY	.003	.003	0 0
21	VERT5	PY	.003	.003	0 0
22	VERT4	PY	.003	.003	0 0
23	VERT3	PY	.003	.003	0 0
24	VERT2	PY	.003	.003	0 0
25	VERT1	PY	.003	.003	0 0
26	Tab5	PY	.001	.001	0 0
27	Tab4	PY	.001	.001	0 0
28	Tab3	PY	.001	.001	0 0
29	Tab2	PY	.001	.001	0 0
30	Tab1	PY	.001	.001	0 0
31	SO3	PY	.002	.002	0 0
32	SO2	PY	.002	.002	0 0
33	SO1	PY	.002	.002	0 0
34	RAIL3	PY	.001	.001	0 0
35	RAIL2	PY	.003	.003	0 0
36	RAIL1	PY	.003	.003	0 0
37	PLATE3	PY	.001	.001	0 0
38	PLATE2	PY	.001	.001	0 0
39	PLATE1	PY	.001	.001	0 0
40	PIPE3	PY	.004	.004	0 0
41	PIPE2	PY	.004	.004	0 0
42	PIPE1	PY	.004	.004	0 0
43	MP GAMMA4	PY	.004	.004	0 0
44	MP GAMMA3	PY	.004	.004	0 0
45	MP GAMMA2	PY	.004	.004	0 0
46	MP GAMMA1	PY	.004	.004	0 0
47	MP BETA4	PY	.004	.004	0 0
48	MP BETA3	PY	.004	.004	0 0
49	MP BETA2	PY	.004	.004	0 0
50	MP BETA1	PY	.004	.004	0 0
51	MP ALPHA4	PY	.004	.004	0 0
52	MP ALPHA3	PY	.004	.004	0 0
53	MP ALPHA2	PY	.004	.004	0 0
54	MP ALPHA1	PY	.004	.004	0 0
55	MID RAIL3	PY	.002	.002	0 0
56	MID RAIL2	PY	.005	.005	0 0
57	MID RAIL1	PY	.005	.005	0 0
58	FACE3	PY	.002	.002	0 0
59	FACE2	PY	.004	.004	0 0



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Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
60	FACE1	PY	.004	.004	0	0
61	M112	PY	.003	.003	0	0
62	M113	PY	.003	.003	0	0
63	M114	PY	.003	.003	0	0
64	NEW RAIL1	PY	.003	.003	0	0
65	NEW RAIL3	PY	.003	.003	0	0
66	NEW RAIL2	PY	.003	.003	0	0
67	SK2	PY	.003	.003	0	0
68	SK1	PY	.003	.003	0	0
69	SK6	PY	.003	.003	0	0
70	SK5	PY	.003	.003	0	0
71	SK4	PY	.003	.003	0	0
72	SK3	PY	.003	.003	0	0
73	BRACE1	PY	.003	.003	0	0
74	BRACE3	PY	.003	.003	0	0
75	BRACE2	PY	.003	.003	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
1	tab18	PY	.001	.001	0	0
2	tab17	PY	.001	.001	0	0
3	tab16	PY	.001	.001	0	0
4	tab15	PY	.001	.001	0	0
5	tab14	PY	.001	.001	0	0
6	tab13	PY	.001	.001	0	0
7	tab12	PY	.001	.001	0	0
8	tab11	PY	.001	.001	0	0
9	tab10	PY	.001	.001	0	0
10	tab9	PY	.001	.001	0	0
11	tab8	PY	.001	.001	0	0
12	tab7	PY	.001	.001	0	0
13	tab6	PY	.001	.001	0	0
14	VERT12	PY	.001	.001	0	0
15	VERT11	PY	.001	.001	0	0
16	VERT10	PY	.001	.001	0	0
17	VERT9	PY	.001	.001	0	0
18	VERT8	PY	.002	.002	0	0
19	VERT7	PY	.002	.002	0	0
20	VERT6	PY	.002	.002	0	0
21	VERT5	PY	.002	.002	0	0
22	VERT4	PY	.002	.002	0	0
23	VERT3	PY	.002	.002	0	0
24	VERT2	PY	.002	.002	0	0
25	VERT1	PY	.002	.002	0	0
26	Tab5	PY	.001	.001	0	0
27	Tab4	PY	.001	.001	0	0
28	Tab3	PY	.001	.001	0	0
29	Tab2	PY	.001	.001	0	0
30	Tab1	PY	.001	.001	0	0
31	SO3	PY	.002	.002	0	0
32	SO2	PY	.002	.002	0	0
33	SO1	PY	.002	.002	0	0
34	RAIL3	PY	.001	.001	0	0
35	RAIL2	PY	.002	.002	0	0
36	RAIL1	PY	.002	.002	0	0
37	PLATE3	PY	.001	.001	0	0



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Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
38	PLATE2	PY	.001	.001	0	0
39	PLATE1	PY	.001	.001	0	0
40	PIPE3	PY	.003	.003	0	0
41	PIPE2	PY	.003	.003	0	0
42	PIPE1	PY	.003	.003	0	0
43	MP GAMMA4	PY	.003	.003	0	0
44	MP GAMMA3	PY	.003	.003	0	0
45	MP GAMMA2	PY	.003	.003	0	0
46	MP GAMMA1	PY	.003	.003	0	0
47	MP BETA4	PY	.003	.003	0	0
48	MP BETA3	PY	.003	.003	0	0
49	MP BETA2	PY	.003	.003	0	0
50	MP BETA1	PY	.003	.003	0	0
51	MP ALPHA4	PY	.003	.003	0	0
52	MP ALPHA3	PY	.003	.003	0	0
53	MP ALPHA2	PY	.003	.003	0	0
54	MP ALPHA1	PY	.003	.003	0	0
55	MID RAIL3	PY	.002	.002	0	0
56	MID RAIL2	PY	.004	.004	0	0
57	MID RAIL1	PY	.004	.004	0	0
58	FACE3	PY	.002	.002	0	0
59	FACE2	PY	.004	.004	0	0
60	FACE1	PY	.004	.004	0	0
61	tab18	PX	.000715	.000715	0	0
62	tab17	PX	.000715	.000715	0	0
63	tab16	PX	.000715	.000715	0	0
64	tab15	PX	.000715	.000715	0	0
65	tab14	PX	.000715	.000715	0	0
66	tab13	PX	.000715	.000715	0	0
67	tab12	PX	.000715	.000715	0	0
68	tab11	PX	.000715	.000715	0	0
69	tab10	PX	.000715	.000715	0	0
70	tab9	PX	.000715	.000715	0	0
71	tab8	PX	.000715	.000715	0	0
72	tab7	PX	.000715	.000715	0	0
73	tab6	PX	.000715	.000715	0	0
74	VERT12	PX	.000715	.000715	0	0
75	VERT11	PX	.000715	.000715	0	0
76	VERT10	PX	.000715	.000715	0	0
77	VERT9	PX	.000715	.000715	0	0
78	VERT8	PX	.001	.001	0	0
79	VERT7	PX	.001	.001	0	0
80	VERT6	PX	.001	.001	0	0
81	VERT5	PX	.001	.001	0	0
82	VERT4	PX	.001	.001	0	0
83	VERT3	PX	.001	.001	0	0
84	VERT2	PX	.001	.001	0	0
85	VERT1	PX	.001	.001	0	0
86	Tab5	PX	.000715	.000715	0	0
87	Tab4	PX	.000715	.000715	0	0
88	Tab3	PX	.000715	.000715	0	0
89	Tab2	PX	.000715	.000715	0	0
90	Tab1	PX	.000715	.000715	0	0
91	SO3	PX	.001	.001	0	0
92	SO2	PX	.001	.001	0	0
93	SO1	PX	.001	.001	0	0
94	RAIL3	PX	.000715	.000715	0	0



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Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
95	RAIL2	PX	.001	.001	0 0
96	RAIL1	PX	.001	.001	0 0
97	PLATE3	PX	.000715	.000715	0 0
98	PLATE2	PX	.000715	.000715	0 0
99	PLATE1	PX	.000715	.000715	0 0
100	PIPE3	PX	.002	.002	0 0
101	PIPE2	PX	.002	.002	0 0
102	PIPE1	PX	.002	.002	0 0
103	MP GAMMA4	PX	.002	.002	0 0
104	MP GAMMA3	PX	.002	.002	0 0
105	MP GAMMA2	PX	.002	.002	0 0
106	MP GAMMA1	PX	.002	.002	0 0
107	MP BETA4	PX	.002	.002	0 0
108	MP BETA3	PX	.002	.002	0 0
109	MP BETA2	PX	.002	.002	0 0
110	MP BETA1	PX	.002	.002	0 0
111	MP ALPHA4	PX	.002	.002	0 0
112	MP ALPHA3	PX	.002	.002	0 0
113	MP ALPHA2	PX	.002	.002	0 0
114	MP ALPHA1	PX	.002	.002	0 0
115	MID RAIL3	PX	.001	.001	0 0
116	MID RAIL2	PX	.002	.002	0 0
117	MID RAIL1	PX	.002	.002	0 0
118	FACE3	PX	.001	.001	0 0
119	FACE2	PX	.002	.002	0 0
120	FACE1	PX	.002	.002	0 0
121	M112	PY	.002	.002	0 0
122	M112	PX	.001	.001	0 0
123	M113	PY	.002	.002	0 0
124	M113	PX	.001	.001	0 0
125	M114	PY	.002	.002	0 0
126	M114	PX	.001	.001	0 0
127	NEW RAIL1	PY	.002	.002	0 0
128	NEW RAIL1	PX	.001	.001	0 0
129	NEW RAIL3	PY	.002	.002	0 0
130	NEW RAIL3	PX	.001	.001	0 0
131	NEW RAIL2	PY	.002	.002	0 0
132	NEW RAIL2	PX	.001	.001	0 0
133	SK2	PY	.002	.002	0 0
134	SK2	PX	.001	.001	0 0
135	SK1	PY	.002	.002	0 0
136	SK1	PX	.001	.001	0 0
137	SK6	PY	.002	.002	0 0
138	SK6	PX	.001	.001	0 0
139	SK5	PY	.002	.002	0 0
140	SK5	PX	.001	.001	0 0
141	SK4	PY	.002	.002	0 0
142	SK4	PX	.001	.001	0 0
143	SK3	PY	.002	.002	0 0
144	SK3	PX	.001	.001	0 0
145	BRACE1	PY	.002	.002	0 0
146	BRACE1	PX	.001	.001	0 0
147	BRACE3	PY	.002	.002	0 0
148	BRACE3	PX	.001	.001	0 0
149	BRACE2	PY	.002	.002	0 0
150	BRACE2	PX	.001	.001	0 0



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Member Distributed Loads (BLC 36 : Ice Wind Load (240))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
1	tab18	PY	.000715	.000715	0 0
2	tab17	PY	.000715	.000715	0 0
3	tab16	PY	.000715	.000715	0 0
4	tab15	PY	.000715	.000715	0 0
5	tab14	PY	.000715	.000715	0 0
6	tab13	PY	.000715	.000715	0 0
7	tab12	PY	.000715	.000715	0 0
8	tab11	PY	.000715	.000715	0 0
9	tab10	PY	.000715	.000715	0 0
10	tab9	PY	.000715	.000715	0 0
11	tab8	PY	.000715	.000715	0 0
12	tab7	PY	.000715	.000715	0 0
13	tab6	PY	.000715	.000715	0 0
14	VERT12	PY	.000715	.000715	0 0
15	VERT11	PY	.000715	.000715	0 0
16	VERT10	PY	.000715	.000715	0 0
17	VERT9	PY	.000715	.000715	0 0
18	VERT8	PY	.001	.001	0 0
19	VERT7	PY	.001	.001	0 0
20	VERT6	PY	.001	.001	0 0
21	VERT5	PY	.001	.001	0 0
22	VERT4	PY	.001	.001	0 0
23	VERT3	PY	.001	.001	0 0
24	VERT2	PY	.001	.001	0 0
25	VERT1	PY	.001	.001	0 0
26	Tab5	PY	.000715	.000715	0 0
27	Tab4	PY	.000715	.000715	0 0
28	Tab3	PY	.000715	.000715	0 0
29	Tab2	PY	.000715	.000715	0 0
30	Tab1	PY	.000715	.000715	0 0
31	SO3	PY	.001	.001	0 0
32	SO2	PY	.001	.001	0 0
33	SO1	PY	.001	.001	0 0
34	RAIL3	PY	.000715	.000715	0 0
35	RAIL2	PY	.001	.001	0 0
36	RAIL1	PY	.001	.001	0 0
37	PLATE3	PY	.000715	.000715	0 0
38	PLATE2	PY	.000715	.000715	0 0
39	PLATE1	PY	.000715	.000715	0 0
40	PIPE3	PY	.002	.002	0 0
41	PIPE2	PY	.002	.002	0 0
42	PIPE1	PY	.002	.002	0 0
43	MP GAMMA4	PY	.002	.002	0 0
44	MP GAMMA3	PY	.002	.002	0 0
45	MP GAMMA2	PY	.002	.002	0 0
46	MP GAMMA1	PY	.002	.002	0 0
47	MP BETA4	PY	.002	.002	0 0
48	MP BETA3	PY	.002	.002	0 0
49	MP BETA2	PY	.002	.002	0 0
50	MP BETA1	PY	.002	.002	0 0
51	MP ALPHA4	PY	.002	.002	0 0
52	MP ALPHA3	PY	.002	.002	0 0
53	MP ALPHA2	PY	.002	.002	0 0
54	MP ALPHA1	PY	.002	.002	0 0
55	MID RAIL3	PY	.001	.001	0 0
56	MID RAIL2	PY	.002	.002	0 0
57	MID RAIL1	PY	.002	.002	0 0



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Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
58	FACE3	PY	.001	.001	0	0
59	FACE2	PY	.002	.002	0	0
60	FACE1	PY	.002	.002	0	0
61	tab18	PX	.001	.001	0	0
62	tab17	PX	.001	.001	0	0
63	tab16	PX	.001	.001	0	0
64	tab15	PX	.001	.001	0	0
65	tab14	PX	.001	.001	0	0
66	tab13	PX	.001	.001	0	0
67	tab12	PX	.001	.001	0	0
68	tab11	PX	.001	.001	0	0
69	tab10	PX	.001	.001	0	0
70	tab9	PX	.001	.001	0	0
71	tab8	PX	.001	.001	0	0
72	tab7	PX	.001	.001	0	0
73	tab6	PX	.001	.001	0	0
74	VERT12	PX	.001	.001	0	0
75	VERT11	PX	.001	.001	0	0
76	VERT10	PX	.001	.001	0	0
77	VERT9	PX	.001	.001	0	0
78	VERT8	PX	.002	.002	0	0
79	VERT7	PX	.002	.002	0	0
80	VERT6	PX	.002	.002	0	0
81	VERT5	PX	.002	.002	0	0
82	VERT4	PX	.002	.002	0	0
83	VERT3	PX	.002	.002	0	0
84	VERT2	PX	.002	.002	0	0
85	VERT1	PX	.002	.002	0	0
86	Tab5	PX	.001	.001	0	0
87	Tab4	PX	.001	.001	0	0
88	Tab3	PX	.001	.001	0	0
89	Tab2	PX	.001	.001	0	0
90	Tab1	PX	.001	.001	0	0
91	SO3	PX	.002	.002	0	0
92	SO2	PX	.002	.002	0	0
93	SO1	PX	.002	.002	0	0
94	RAIL3	PX	.001	.001	0	0
95	RAIL2	PX	.002	.002	0	0
96	RAIL1	PX	.002	.002	0	0
97	PLATE3	PX	.001	.001	0	0
98	PLATE2	PX	.001	.001	0	0
99	PLATE1	PX	.001	.001	0	0
100	PIPE3	PX	.003	.003	0	0
101	PIPE2	PX	.003	.003	0	0
102	PIPE1	PX	.003	.003	0	0
103	MP GAMMA4	PX	.003	.003	0	0
104	MP GAMMA3	PX	.003	.003	0	0
105	MP GAMMA2	PX	.003	.003	0	0
106	MP GAMMA1	PX	.003	.003	0	0
107	MP BETA4	PX	.003	.003	0	0
108	MP BETA3	PX	.003	.003	0	0
109	MP BETA2	PX	.003	.003	0	0
110	MP BETA1	PX	.003	.003	0	0
111	MP ALPHA4	PX	.003	.003	0	0
112	MP ALPHA3	PX	.003	.003	0	0
113	MP ALPHA2	PX	.003	.003	0	0
114	MP ALPHA1	PX	.003	.003	0	0



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Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
115	MID RAIL3	PX	.002	.002	0	0
116	MID RAIL2	PX	.004	.004	0	0
117	MID RAIL1	PX	.004	.004	0	0
118	FACE3	PX	.002	.002	0	0
119	FACE2	PX	.004	.004	0	0
120	FACE1	PX	.004	.004	0	0
121	M112	PY	.001	.001	0	0
122	M112	PX	.002	.002	0	0
123	M113	PY	.001	.001	0	0
124	M113	PX	.002	.002	0	0
125	M114	PY	.001	.001	0	0
126	M114	PX	.002	.002	0	0
127	NEW RAIL1	PY	.001	.001	0	0
128	NEW RAIL1	PX	.002	.002	0	0
129	NEW RAIL3	PY	.001	.001	0	0
130	NEW RAIL3	PX	.002	.002	0	0
131	NEW RAIL2	PY	.001	.001	0	0
132	NEW RAIL2	PX	.002	.002	0	0
133	SK2	PY	.001	.001	0	0
134	SK2	PX	.002	.002	0	0
135	SK1	PY	.001	.001	0	0
136	SK1	PX	.002	.002	0	0
137	SK6	PY	.001	.001	0	0
138	SK6	PX	.002	.002	0	0
139	SK5	PY	.001	.001	0	0
140	SK5	PX	.002	.002	0	0
141	SK4	PY	.001	.001	0	0
142	SK4	PX	.002	.002	0	0
143	SK3	PY	.001	.001	0	0
144	SK3	PX	.002	.002	0	0
145	BRACE1	PY	.001	.001	0	0
146	BRACE1	PX	.002	.002	0	0
147	BRACE3	PY	.001	.001	0	0
148	BRACE3	PX	.002	.002	0	0
149	BRACE2	PY	.001	.001	0	0
150	BRACE2	PX	.002	.002	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
1	tab18	PX	.001	.001	0	0
2	tab17	PX	.001	.001	0	0
3	tab16	PX	.001	.001	0	0
4	tab15	PX	.001	.001	0	0
5	tab14	PX	.001	.001	0	0
6	tab13	PX	.001	.001	0	0
7	tab12	PX	.001	.001	0	0
8	tab11	PX	.001	.001	0	0
9	tab10	PX	.001	.001	0	0
10	tab9	PX	.001	.001	0	0
11	tab8	PX	.001	.001	0	0
12	tab7	PX	.001	.001	0	0
13	tab6	PX	.001	.001	0	0
14	VERT12	PX	.001	.001	0	0
15	VERT11	PX	.001	.001	0	0
16	VERT10	PX	.001	.001	0	0
17	VERT9	PX	.001	.001	0	0



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Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
18	VERT8	PX	.003	.003	0 0
19	VERT7	PX	.003	.003	0 0
20	VERT6	PX	.003	.003	0 0
21	VERT5	PX	.003	.003	0 0
22	VERT4	PX	.003	.003	0 0
23	VERT3	PX	.003	.003	0 0
24	VERT2	PX	.003	.003	0 0
25	VERT1	PX	.003	.003	0 0
26	Tab5	PX	.001	.001	0 0
27	Tab4	PX	.001	.001	0 0
28	Tab3	PX	.001	.001	0 0
29	Tab2	PX	.001	.001	0 0
30	Tab1	PX	.001	.001	0 0
31	SO3	PX	.002	.002	0 0
32	SO2	PX	.002	.002	0 0
33	SO1	PX	.002	.002	0 0
34	RAIL3	PX	.001	.001	0 0
35	RAIL2	PX	.003	.003	0 0
36	RAIL1	PX	.003	.003	0 0
37	PLATE3	PX	.001	.001	0 0
38	PLATE2	PX	.001	.001	0 0
39	PLATE1	PX	.001	.001	0 0
40	PIPE3	PX	.004	.004	0 0
41	PIPE2	PX	.004	.004	0 0
42	PIPE1	PX	.004	.004	0 0
43	MP GAMMA4	PX	.004	.004	0 0
44	MP GAMMA3	PX	.004	.004	0 0
45	MP GAMMA2	PX	.004	.004	0 0
46	MP GAMMA1	PX	.004	.004	0 0
47	MP BETA4	PX	.004	.004	0 0
48	MP BETA3	PX	.004	.004	0 0
49	MP BETA2	PX	.004	.004	0 0
50	MP BETA1	PX	.004	.004	0 0
51	MP ALPHA4	PX	.004	.004	0 0
52	MP ALPHA3	PX	.004	.004	0 0
53	MP ALPHA2	PX	.004	.004	0 0
54	MP ALPHA1	PX	.004	.004	0 0
55	MID RAIL3	PX	.002	.002	0 0
56	MID RAIL2	PX	.005	.005	0 0
57	MID RAIL1	PX	.005	.005	0 0
58	FACE3	PX	.002	.002	0 0
59	FACE2	PX	.004	.004	0 0
60	FACE1	PX	.004	.004	0 0
61	M112	PX	.003	.003	0 0
62	M113	PX	.003	.003	0 0
63	M114	PX	.003	.003	0 0
64	NEW RAIL1	PX	.003	.003	0 0
65	NEW RAIL3	PX	.003	.003	0 0
66	NEW RAIL2	PX	.003	.003	0 0
67	SK2	PX	.003	.003	0 0
68	SK1	PX	.003	.003	0 0
69	SK6	PX	.003	.003	0 0
70	SK5	PX	.003	.003	0 0
71	SK4	PX	.003	.003	0 0
72	SK3	PX	.003	.003	0 0
73	BRACE1	PX	.003	.003	0 0
74	BRACE3	PX	.003	.003	0 0



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Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
75	BRACE2	PX	.003	.003	0 0

Member Distributed Loads (BLC 38 : Ice Wind Load (300))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	tab18	PY	-.000715	-.000715	0 0
2	tab17	PY	-.000715	-.000715	0 0
3	tab16	PY	-.000715	-.000715	0 0
4	tab15	PY	-.000715	-.000715	0 0
5	tab14	PY	-.000715	-.000715	0 0
6	tab13	PY	-.000715	-.000715	0 0
7	tab12	PY	-.000715	-.000715	0 0
8	tab11	PY	-.000715	-.000715	0 0
9	tab10	PY	-.000715	-.000715	0 0
10	tab9	PY	-.000715	-.000715	0 0
11	tab8	PY	-.000715	-.000715	0 0
12	tab7	PY	-.000715	-.000715	0 0
13	tab6	PY	-.000715	-.000715	0 0
14	VERT12	PY	-.000715	-.000715	0 0
15	VERT11	PY	-.000715	-.000715	0 0
16	VERT10	PY	-.000715	-.000715	0 0
17	VERT9	PY	-.000715	-.000715	0 0
18	VERT8	PY	-.001	-.001	0 0
19	VERT7	PY	-.001	-.001	0 0
20	VERT6	PY	-.001	-.001	0 0
21	VERT5	PY	-.001	-.001	0 0
22	VERT4	PY	-.001	-.001	0 0
23	VERT3	PY	-.001	-.001	0 0
24	VERT2	PY	-.001	-.001	0 0
25	VERT1	PY	-.001	-.001	0 0
26	Tab5	PY	-.000715	-.000715	0 0
27	Tab4	PY	-.000715	-.000715	0 0
28	Tab3	PY	-.000715	-.000715	0 0
29	Tab2	PY	-.000715	-.000715	0 0
30	Tab1	PY	-.000715	-.000715	0 0
31	SO3	PY	-.001	-.001	0 0
32	SO2	PY	-.001	-.001	0 0
33	SO1	PY	-.001	-.001	0 0
34	RAIL3	PY	-.000715	-.000715	0 0
35	RAIL2	PY	-.001	-.001	0 0
36	RAIL1	PY	-.001	-.001	0 0
37	PLATE3	PY	-.000715	-.000715	0 0
38	PLATE2	PY	-.000715	-.000715	0 0
39	PLATE1	PY	-.000715	-.000715	0 0
40	PIPE3	PY	-.002	-.002	0 0
41	PIPE2	PY	-.002	-.002	0 0
42	PIPE1	PY	-.002	-.002	0 0
43	MP GAMMA4	PY	-.002	-.002	0 0
44	MP GAMMA3	PY	-.002	-.002	0 0
45	MP GAMMA2	PY	-.002	-.002	0 0
46	MP GAMMA1	PY	-.002	-.002	0 0
47	MP BETA4	PY	-.002	-.002	0 0
48	MP BETA3	PY	-.002	-.002	0 0
49	MP BETA2	PY	-.002	-.002	0 0
50	MP BETA1	PY	-.002	-.002	0 0
51	MP ALPHA4	PY	-.002	-.002	0 0
52	MP ALPHA3	PY	-.002	-.002	0 0



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Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]
53	MP ALPHA2	PY	-.002	-.002	0 0
54	MP ALPHA1	PY	-.002	-.002	0 0
55	MID RAIL3	PY	-.001	-.001	0 0
56	MID RAIL2	PY	-.002	-.002	0 0
57	MID RAIL1	PY	-.002	-.002	0 0
58	FACE3	PY	-.001	-.001	0 0
59	FACE2	PY	-.002	-.002	0 0
60	FACE1	PY	-.002	-.002	0 0
61	tab18	PX	.001	.001	0 0
62	tab17	PX	.001	.001	0 0
63	tab16	PX	.001	.001	0 0
64	tab15	PX	.001	.001	0 0
65	tab14	PX	.001	.001	0 0
66	tab13	PX	.001	.001	0 0
67	tab12	PX	.001	.001	0 0
68	tab11	PX	.001	.001	0 0
69	tab10	PX	.001	.001	0 0
70	tab9	PX	.001	.001	0 0
71	tab8	PX	.001	.001	0 0
72	tab7	PX	.001	.001	0 0
73	tab6	PX	.001	.001	0 0
74	VERT12	PX	.001	.001	0 0
75	VERT11	PX	.001	.001	0 0
76	VERT10	PX	.001	.001	0 0
77	VERT9	PX	.001	.001	0 0
78	VERT8	PX	.002	.002	0 0
79	VERT7	PX	.002	.002	0 0
80	VERT6	PX	.002	.002	0 0
81	VERT5	PX	.002	.002	0 0
82	VERT4	PX	.002	.002	0 0
83	VERT3	PX	.002	.002	0 0
84	VERT2	PX	.002	.002	0 0
85	VERT1	PX	.002	.002	0 0
86	Tab5	PX	.001	.001	0 0
87	Tab4	PX	.001	.001	0 0
88	Tab3	PX	.001	.001	0 0
89	Tab2	PX	.001	.001	0 0
90	Tab1	PX	.001	.001	0 0
91	SO3	PX	.002	.002	0 0
92	SO2	PX	.002	.002	0 0
93	SO1	PX	.002	.002	0 0
94	RAIL3	PX	.001	.001	0 0
95	RAIL2	PX	.002	.002	0 0
96	RAIL1	PX	.002	.002	0 0
97	PLATE3	PX	.001	.001	0 0
98	PLATE2	PX	.001	.001	0 0
99	PLATE1	PX	.001	.001	0 0
100	PIPE3	PX	.003	.003	0 0
101	PIPE2	PX	.003	.003	0 0
102	PIPE1	PX	.003	.003	0 0
103	MP GAMMA4	PX	.003	.003	0 0
104	MP GAMMA3	PX	.003	.003	0 0
105	MP GAMMA2	PX	.003	.003	0 0
106	MP GAMMA1	PX	.003	.003	0 0
107	MP BETA4	PX	.003	.003	0 0
108	MP BETA3	PX	.003	.003	0 0
109	MP BETA2	PX	.003	.003	0 0



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Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
110	MP BETA1	PX	.003	.003	0	0
111	MP ALPHA4	PX	.003	.003	0	0
112	MP ALPHA3	PX	.003	.003	0	0
113	MP ALPHA2	PX	.003	.003	0	0
114	MP ALPHA1	PX	.003	.003	0	0
115	MID RAIL3	PX	.002	.002	0	0
116	MID RAIL2	PX	.004	.004	0	0
117	MID RAIL1	PX	.004	.004	0	0
118	FACE3	PX	.002	.002	0	0
119	FACE2	PX	.004	.004	0	0
120	FACE1	PX	.004	.004	0	0
121	M112	PY	-.001	-.001	0	0
122	M112	PX	.002	.002	0	0
123	M113	PY	-.001	-.001	0	0
124	M113	PX	.002	.002	0	0
125	M114	PY	-.001	-.001	0	0
126	M114	PX	.002	.002	0	0
127	NEW RAIL1	PY	-.001	-.001	0	0
128	NEW RAIL1	PX	.002	.002	0	0
129	NEW RAIL3	PY	-.001	-.001	0	0
130	NEW RAIL3	PX	.002	.002	0	0
131	NEW RAIL2	PY	-.001	-.001	0	0
132	NEW RAIL2	PX	.002	.002	0	0
133	SK2	PY	-.001	-.001	0	0
134	SK2	PX	.002	.002	0	0
135	SK1	PY	-.001	-.001	0	0
136	SK1	PX	.002	.002	0	0
137	SK6	PY	-.001	-.001	0	0
138	SK6	PX	.002	.002	0	0
139	SK5	PY	-.001	-.001	0	0
140	SK5	PX	.002	.002	0	0
141	SK4	PY	-.001	-.001	0	0
142	SK4	PX	.002	.002	0	0
143	SK3	PY	-.001	-.001	0	0
144	SK3	PX	.002	.002	0	0
145	BRACE1	PY	-.001	-.001	0	0
146	BRACE1	PX	.002	.002	0	0
147	BRACE3	PY	-.001	-.001	0	0
148	BRACE3	PX	.002	.002	0	0
149	BRACE2	PY	-.001	-.001	0	0
150	BRACE2	PX	.002	.002	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330))

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft, %]	End Location[ft, %]	
1	tab18	PY	-.001	-.001	0	0
2	tab17	PY	-.001	-.001	0	0
3	tab16	PY	-.001	-.001	0	0
4	tab15	PY	-.001	-.001	0	0
5	tab14	PY	-.001	-.001	0	0
6	tab13	PY	-.001	-.001	0	0
7	tab12	PY	-.001	-.001	0	0
8	tab11	PY	-.001	-.001	0	0
9	tab10	PY	-.001	-.001	0	0
10	tab9	PY	-.001	-.001	0	0
11	tab8	PY	-.001	-.001	0	0
12	tab7	PY	-.001	-.001	0	0



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Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...]	Start Location[ft.%]	End Location[ft.%]	
13	tab6	PY	-0.01	-0.01	0	0
14	VERT12	PY	-0.01	-0.01	0	0
15	VERT11	PY	-0.01	-0.01	0	0
16	VERT10	PY	-0.01	-0.01	0	0
17	VERT9	PY	-0.01	-0.01	0	0
18	VERT8	PY	-0.02	-0.02	0	0
19	VERT7	PY	-0.02	-0.02	0	0
20	VERT6	PY	-0.02	-0.02	0	0
21	VERT5	PY	-0.02	-0.02	0	0
22	VERT4	PY	-0.02	-0.02	0	0
23	VERT3	PY	-0.02	-0.02	0	0
24	VERT2	PY	-0.02	-0.02	0	0
25	VERT1	PY	-0.02	-0.02	0	0
26	Tab5	PY	-0.01	-0.01	0	0
27	Tab4	PY	-0.01	-0.01	0	0
28	Tab3	PY	-0.01	-0.01	0	0
29	Tab2	PY	-0.01	-0.01	0	0
30	Tab1	PY	-0.01	-0.01	0	0
31	SO3	PY	-0.02	-0.02	0	0
32	SO2	PY	-0.02	-0.02	0	0
33	SO1	PY	-0.02	-0.02	0	0
34	RAIL3	PY	-0.01	-0.01	0	0
35	RAIL2	PY	-0.02	-0.02	0	0
36	RAIL1	PY	-0.02	-0.02	0	0
37	PLATE3	PY	-0.01	-0.01	0	0
38	PLATE2	PY	-0.01	-0.01	0	0
39	PLATE1	PY	-0.01	-0.01	0	0
40	PIPE3	PY	-0.03	-0.03	0	0
41	PIPE2	PY	-0.03	-0.03	0	0
42	PIPE1	PY	-0.03	-0.03	0	0
43	MP GAMMA4	PY	-0.03	-0.03	0	0
44	MP GAMMA3	PY	-0.03	-0.03	0	0
45	MP GAMMA2	PY	-0.03	-0.03	0	0
46	MP GAMMA1	PY	-0.03	-0.03	0	0
47	MP BETA4	PY	-0.03	-0.03	0	0
48	MP BETA3	PY	-0.03	-0.03	0	0
49	MP BETA2	PY	-0.03	-0.03	0	0
50	MP BETA1	PY	-0.03	-0.03	0	0
51	MP ALPHA4	PY	-0.03	-0.03	0	0
52	MP ALPHA3	PY	-0.03	-0.03	0	0
53	MP ALPHA2	PY	-0.03	-0.03	0	0
54	MP ALPHA1	PY	-0.03	-0.03	0	0
55	MID RAIL3	PY	-0.02	-0.02	0	0
56	MID RAIL2	PY	-0.04	-0.04	0	0
57	MID RAIL1	PY	-0.04	-0.04	0	0
58	FACE3	PY	-0.02	-0.02	0	0
59	FACE2	PY	-0.04	-0.04	0	0
60	FACE1	PY	-0.04	-0.04	0	0
61	tab18	PX	.000715	.000715	0	0
62	tab17	PX	.000715	.000715	0	0
63	tab16	PX	.000715	.000715	0	0
64	tab15	PX	.000715	.000715	0	0
65	tab14	PX	.000715	.000715	0	0
66	tab13	PX	.000715	.000715	0	0
67	tab12	PX	.000715	.000715	0	0
68	tab11	PX	.000715	.000715	0	0
69	tab10	PX	.000715	.000715	0	0



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Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.,F,ksf]	End Magnitude[k/ft.,F,ksf]	Start Location[ft.,%]	End Location[ft.,%]
70	tab9	PX	.000715	.000715	0 0
71	tab8	PX	.000715	.000715	0 0
72	tab7	PX	.000715	.000715	0 0
73	tab6	PX	.000715	.000715	0 0
74	VERT12	PX	.000715	.000715	0 0
75	VERT11	PX	.000715	.000715	0 0
76	VERT10	PX	.000715	.000715	0 0
77	VERT9	PX	.000715	.000715	0 0
78	VERT8	PX	.001	.001	0 0
79	VERT7	PX	.001	.001	0 0
80	VERT6	PX	.001	.001	0 0
81	VERT5	PX	.001	.001	0 0
82	VERT4	PX	.001	.001	0 0
83	VERT3	PX	.001	.001	0 0
84	VERT2	PX	.001	.001	0 0
85	VERT1	PX	.001	.001	0 0
86	Tab5	PX	.000715	.000715	0 0
87	Tab4	PX	.000715	.000715	0 0
88	Tab3	PX	.000715	.000715	0 0
89	Tab2	PX	.000715	.000715	0 0
90	Tab1	PX	.000715	.000715	0 0
91	SO3	PX	.001	.001	0 0
92	SO2	PX	.001	.001	0 0
93	SO1	PX	.001	.001	0 0
94	RAIL3	PX	.000715	.000715	0 0
95	RAIL2	PX	.001	.001	0 0
96	RAIL1	PX	.001	.001	0 0
97	PLATE3	PX	.000715	.000715	0 0
98	PLATE2	PX	.000715	.000715	0 0
99	PLATE1	PX	.000715	.000715	0 0
100	PIPE3	PX	.002	.002	0 0
101	PIPE2	PX	.002	.002	0 0
102	PIPE1	PX	.002	.002	0 0
103	MP GAMMA4	PX	.002	.002	0 0
104	MP GAMMA3	PX	.002	.002	0 0
105	MP GAMMA2	PX	.002	.002	0 0
106	MP GAMMA1	PX	.002	.002	0 0
107	MP BETA4	PX	.002	.002	0 0
108	MP BETA3	PX	.002	.002	0 0
109	MP BETA2	PX	.002	.002	0 0
110	MP BETA1	PX	.002	.002	0 0
111	MP ALPHA4	PX	.002	.002	0 0
112	MP ALPHA3	PX	.002	.002	0 0
113	MP ALPHA2	PX	.002	.002	0 0
114	MP ALPHA1	PX	.002	.002	0 0
115	MID RAIL3	PX	.001	.001	0 0
116	MID RAIL2	PX	.002	.002	0 0
117	MID RAIL1	PX	.002	.002	0 0
118	FACE3	PX	.001	.001	0 0
119	FACE2	PX	.002	.002	0 0
120	FACE1	PX	.002	.002	0 0
121	M112	PY	-.002	-.002	0 0
122	M112	PX	.001	.001	0 0
123	M113	PY	-.002	-.002	0 0
124	M113	PX	.001	.001	0 0
125	M114	PY	-.002	-.002	0 0
126	M114	PX	.001	.001	0 0



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Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
127	NEW RAIL1	PY	-.002	-.002	0	0
128	NEW RAIL1	PX	.001	.001	0	0
129	NEW RAIL3	PY	-.002	-.002	0	0
130	NEW RAIL3	PX	.001	.001	0	0
131	NEW RAIL2	PY	-.002	-.002	0	0
132	NEW RAIL2	PX	.001	.001	0	0
133	SK2	PY	-.002	-.002	0	0
134	SK2	PX	.001	.001	0	0
135	SK1	PY	-.002	-.002	0	0
136	SK1	PX	.001	.001	0	0
137	SK6	PY	-.002	-.002	0	0
138	SK6	PX	.001	.001	0	0
139	SK5	PY	-.002	-.002	0	0
140	SK5	PX	.001	.001	0	0
141	SK4	PY	-.002	-.002	0	0
142	SK4	PX	.001	.001	0	0
143	SK3	PY	-.002	-.002	0	0
144	SK3	PX	.001	.001	0	0
145	BRACE1	PY	-.002	-.002	0	0
146	BRACE1	PX	.001	.001	0	0
147	BRACE3	PY	-.002	-.002	0	0
148	BRACE3	PX	.001	.001	0	0
149	BRACE2	PY	-.002	-.002	0	0
150	BRACE2	PX	.001	.001	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]	
1	FACE2	Z	-.01	-.013	1.35	3.51
2	FACE2	Z	-.013	-.009	3.51	5.67
3	FACE2	Z	-.009	-.014	5.67	7.83
4	FACE2	Z	-.014	-.017	7.83	9.99
5	FACE2	Z	-.017	-.0008901	9.99	12.15
6	M112	Z	-.012	-.017	0	.892
7	M112	Z	-.017	-.018	.892	1.785
8	M112	Z	-.018	-.019	1.785	2.677
9	M112	Z	-.019	-.01	2.677	3.57
10	M112	Z	-.01	-.0002707	3.57	4.462
11	M113	Z	-.003	-.01	2.576	3.349
12	M113	Z	-.01	-.017	3.349	4.122
13	M113	Z	-.017	-.017	4.122	4.895
14	M113	Z	-.017	-.012	4.895	5.668
15	M113	Z	-.012	-.005	5.668	6.441
16	FACE2	Z	-.005	-.005	9.45	13.5
17	FACE1	Z	-.005	-.005	0	4.05
18	M113	Z	-.004	-.004	2.088	3.088
19	FACE1	Z	-.009	-.01	1.35	3.51
20	FACE1	Z	-.01	-.006	3.51	5.67
21	FACE1	Z	-.006	-.006	5.67	7.83
22	FACE1	Z	-.006	-.01	7.83	9.99
23	FACE1	Z	-.01	-.009	9.99	12.15
24	M113	Z	-.031	-.023	0	.773
25	M113	Z	-.023	-.021	.773	1.546
26	M113	Z	-.021	-.023	1.546	2.319
27	M113	Z	-.023	-.011	2.319	3.092
28	M113	Z	-.011	.0003956	3.092	3.865
29	M114	Z	-.031	-.023	0	.773



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Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
30	M114	Z	-.023	-.021	.773	1.546
31	M114	Z	-.021	-.023	1.546	2.319
32	M114	Z	-.023	-.011	2.319	3.092
33	M114	Z	-.011	.0003959	3.092	3.865
34	FACE3	Z	-.005	-.005	0	4.05
35	FACE1	Z	-.005	-.005	9.45	13.5
36	M114	Z	-.004	-.004	2.091	3.091
37	FACE3	Z	-.0008901	-.017	1.35	3.51
38	FACE3	Z	-.017	-.015	3.51	5.67
39	FACE3	Z	-.015	-.009	5.67	7.83
40	FACE3	Z	-.009	-.013	7.83	9.99
41	FACE3	Z	-.013	-.01	9.99	12.15
42	M112	Z	-.0002303	-.01	2.975	3.867
43	M112	Z	-.01	-.019	3.867	4.76
44	M112	Z	-.019	-.018	4.76	5.652
45	M112	Z	-.018	-.017	5.652	6.545
46	M112	Z	-.017	-.013	6.545	7.437
47	M114	Z	-.003	-.01	2.576	3.349
48	M114	Z	-.01	-.016	3.349	4.122
49	M114	Z	-.016	-.017	4.122	4.895
50	M114	Z	-.017	-.012	4.895	5.668
51	M114	Z	-.012	-.004	5.668	6.441
52	FACE3	Z	-.005	-.005	9.45	13.5
53	FACE2	Z	-.005	-.005	0	4.05
54	M112	Z	-.004	-.004	3.217	4.217

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft...	Start Location[ft.%]	End Location[ft.%]
1	FACE2	Z	-.019	-.025	1.35	3.51
2	FACE2	Z	-.025	-.018	3.51	5.67
3	FACE2	Z	-.018	-.029	5.67	7.83
4	FACE2	Z	-.029	-.033	7.83	9.99
5	FACE2	Z	-.033	-.002	9.99	12.15
6	M112	Z	-.024	-.034	0	.892
7	M112	Z	-.034	-.037	.892	1.785
8	M112	Z	-.037	-.037	1.785	2.677
9	M112	Z	-.037	-.02	2.677	3.57
10	M112	Z	-.02	-.0005415	3.57	4.462
11	M113	Z	-.007	-.021	2.576	3.349
12	M113	Z	-.021	-.033	3.349	4.122
13	M113	Z	-.033	-.035	4.122	4.895
14	M113	Z	-.035	-.024	4.895	5.668
15	M113	Z	-.024	-.009	5.668	6.441
16	FACE2	Z	-.01	-.01	9.45	13.5
17	FACE1	Z	-.01	-.01	0	4.05
18	M113	Z	-.007	-.007	2.088	3.088
19	FACE1	Z	-.018	-.019	1.35	3.51
20	FACE1	Z	-.019	-.013	3.51	5.67
21	FACE1	Z	-.013	-.013	5.67	7.83
22	FACE1	Z	-.013	-.019	7.83	9.99
23	FACE1	Z	-.019	-.018	9.99	12.15
24	M113	Z	-.062	-.046	0	.773
25	M113	Z	-.046	-.043	.773	1.546
26	M113	Z	-.043	-.047	1.546	2.319
27	M113	Z	-.047	-.022	2.319	3.092
28	M113	Z	-.022	.0007912	3.092	3.865



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Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft...	Start Location[ft,%]	End Location[ft,%]
29	M114	Z	-.062	-.046	0	.773
30	M114	Z	-.046	-.043	.773	1.546
31	M114	Z	-.043	-.047	1.546	2.319
32	M114	Z	-.047	-.022	2.319	3.092
33	M114	Z	-.022	.0007917	3.092	3.865
34	FACE3	Z	-.01	-.01	0	4.05
35	FACE1	Z	-.01	-.01	9.45	13.5
36	M114	Z	-.007	-.007	2.091	3.091
37	FACE3	Z	-.002	-.034	1.35	3.51
38	FACE3	Z	-.034	-.03	3.51	5.67
39	FACE3	Z	-.03	-.018	5.67	7.83
40	FACE3	Z	-.018	-.025	7.83	9.99
41	FACE3	Z	-.025	-.019	9.99	12.15
42	M112	Z	-.0004607	-.02	2.975	3.867
43	M112	Z	-.02	-.037	3.867	4.76
44	M112	Z	-.037	-.036	4.76	5.652
45	M112	Z	-.036	-.033	5.652	6.545
46	M112	Z	-.033	-.026	6.545	7.437
47	M114	Z	-.007	-.021	2.576	3.349
48	M114	Z	-.021	-.031	3.349	4.122
49	M114	Z	-.031	-.034	4.122	4.895
50	M114	Z	-.034	-.024	4.895	5.668
51	M114	Z	-.024	-.008	5.668	6.441
52	FACE3	Z	-.01	-.01	9.45	13.5
53	FACE2	Z	-.01	-.01	0	4.05
54	M112	Z	-.007	-.007	3.217	4.217

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N60	N152A	N154A	N139	Z	Two Way	-.01
2	N154A	N139	N140		Z	Two Way	-.01
3	N154A	N140	N152	N156A	Z	Two Way	-.01
4	N156A	N152	N153		Z	Two Way	-.01
5	N156A	N153	N59	N152A	Z	Two Way	-.01
6	N152A	N60	N59		Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N60	N152A	N154A	N139	Z	Two Way	-.02
2	N154A	N139	N140		Z	Two Way	-.02
3	N154A	N140	N152	N156A	Z	Two Way	-.02
4	N156A	N152	N153		Z	Two Way	-.02
5	N156A	N153	N59	N152A	Z	Two Way	-.02
6	N152A	N60	N59		Z	Two Way	-.02

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N16	max	.435	11	10.221	3	2.081	3	7.106	36	.333	11	1.783	29
2		min	-.422	29	2.333	20	.761	20	2.91	14	-.324	29	-1.865	11
3	N134	max	-1.941	8	-1.14	8	2.127	24	-1.421	17	6.391	21	1.377	17
4		min	-8.962	27	-5.177	27	.756	5	-3.672	33	2.394	2	-1.442	35
5	N147	max	8.92	15	-1.079	32	2.12	18	-1.394	26	-2.414	2	1.109	5
6		min	2.057	32	-5.196	15	.757	35	-3.637	9	-6.364	21	-1.199	23



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Envelope Joint Reactions (Continued)

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
7 N202	max	.795	8	2.614	2	2.125	2	.102	20	.154	35	.284	8
8	min	-.775	26	-.733	20	-.586	20	-.519	3	-.138	17	-.289	26
9 N212	max	.794	8	.59	5	2.179	27	.431	9	-.241	26	.09	8
10	min	-2.334	26	-1.444	23	-.274	8	.084	26	-.894	9	-.067	26
11 N222	max	2.216	14	.762	35	2.171	15	.206	14	.882	30	.245	20
12	min	-.681	32	-1.706	17	-.382	32	-.117	32	.26	11	-.095	2
13 Totals:	max	7.052	11	7.217	2	11.794	9						
14	min	-7.052	29	-7.217	20	5.301	26						

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1 Live Load	DL					1		
2 Wind Load (0)	DL					41	75	
3 Dead Load	DL			-1.1		41		6
4 Wind Load (30)	DL					82	150	
5 Wind Load (60)	DL					82	150	
6 Wind Load (90)	DL					41	75	
7 Wind Load (120)	DL					82	150	
8 Wind Load (150)	DL					82	150	
9 Wind Load (180)	DL					41	75	
10 Wind Load (210)	DL					82	150	
11 Wind Load (240)	DL					82	150	
12 Wind Load (270)	DL					41	75	
13 Wind Load (300)	DL					82	150	
14 Wind Load (330)	DL					82	150	
15 Maintenance (0)	DL					41	75	
16 Maintenance (30)	DL					82	150	
17 Maintenance (60)	DL					82	150	
18 Maintenance (90)	DL					41	75	
19 Maintenance (120)	DL					82	150	
20 Maintenance (150)	DL					82	150	
21 Maintenance (180)	DL					41	75	
22 Maintenance (210)	DL					82	150	
23 Maintenance (240)	DL					82	150	
24 Maintenance (270)	DL					41	75	
25 Maintenance (300)	DL					82	150	
26 Maintenance (330)	DL					82	150	
27 Ice Dead Load	DL					41	75	6
28 Ice Wind Load (0)	DL					41	75	
29 Ice Wind Load (30)	DL					82	150	
30 Ice Wind Load (60)	DL					82	150	
31 Ice Wind Load (90)	DL					41	75	
32 Ice Wind Load (120)	DL					82	150	
33 Ice Wind Load (150)	DL					82	150	
34 Ice Wind Load (180)	DL					41	75	
35 Ice Wind Load (210)	DL					82	150	
36 Ice Wind Load (240)	DL					82	150	
37 Ice Wind Load (270)	DL					41	75	
38 Ice Wind Load (300)	DL					82	150	
39 Ice Wind Load (330)	DL					82	150	
40 Earthquake (x-directi...	DL		-.121			41		
41 Earthquake (y-directio...	DL			-.121		41		
42 Earthquake (z-directi...	DL					41		
43 BLC 3 Transient Area...	None						54	
44 BLC 27 Transient Are...	None						54	



Company : POD
 Designer : UT
 Job Number : 20-70444
 Model Name : 806361

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Load Combinations

	Description	S...	PDelta	SRSS	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...	B...Fa...
1	1.4D	Y...	Y		3	1.4												
2	1.2D + 1.0W(0)	Y...	Y		3	1.2	2	1										
3	1.2D + 1.0Di + 1.0Wi(0)	Y...	Y		3	1.2	27	1	28	1								
4	1.2D + 1.5L + 1.0Wi(0)	Y...	Y		3	1.2	1	1.5	15	1								
5	1.2D + 1.0W(30)	Y...	Y		3	1.2	4	1										
6	1.2D + 1.0Di + 1.0Wi(30)	Y...	Y		3	1.2	27	1	29	1								
7	1.2D + 1.5L + 1.0Wi(30)	Y...	Y		3	1.2	1	1.5	16	1								
8	1.2D + 1.0W(60)	Y...	Y		3	1.2	5	1										
9	1.2D + 1.0Di + 1.0Wi(60)	Y...	Y		3	1.2	27	1	30	1								
10	1.2D + 1.5L + 1.0Wi(60)	Y...	Y		3	1.2	1	1.5	17	1								
11	1.2D + 1.0W(90)	Y...	Y		3	1.2	6	1										
12	1.2D + 1.0Di + 1.0Wi(90)	Y...	Y		3	1.2	27	1	31	1								
13	1.2D + 1.5L + 1.0Wi(90)	Y...	Y		3	1.2	1	1.5	18	1								
14	1.2D + 1.0W(120)	Y...	Y		3	1.2	7	1										
15	1.2D + 1.0Di + 1.0Wi(120)	Y...	Y		3	1.2	27	1	32	1								
16	1.2D + 1.5L + 1.0Wi(120)	Y...	Y		3	1.2	1	1.5	19	1								
17	1.2D + 1.0W(150)	Y...	Y		3	1.2	8	1										
18	1.2D + 1.0Di + 1.0Wi(150)	Y...	Y		3	1.2	27	1	33	1								
19	1.2D + 1.5L + 1.0Wi(150)	Y...	Y		3	1.2	1	1.5	20	1								
20	1.2D + 1.0W(180)	Y...	Y		3	1.2	9	1										
21	1.2D + 1.0Di + 1.0Wi(180)	Y...	Y		3	1.2	27	1	34	1								
22	1.2D + 1.5L + 1.0Wi(180)	Y...	Y		3	1.2	1	1.5	21	1								
23	1.2D + 1.0W(210)	Y...	Y		3	1.2	10	1										
24	1.2D + 1.0Di + 1.0Wi(210)	Y...	Y		3	1.2	27	1	35	1								
25	1.2D + 1.5L + 1.0Wi(210)	Y...	Y		3	1.2	1	1.5	22	1								
26	1.2D + 1.0W(240)	Y...	Y		3	1.2	11	1										
27	1.2D + 1.0Di + 1.0Wi(240)	Y...	Y		3	1.2	27	1	36	1								
28	1.2D + 1.5L + 1.0Wi(240)	Y...	Y		3	1.2	1	1.5	23	1								
29	1.2D + 1.0W(270)	Y...	Y		3	1.2	12	1										
30	1.2D + 1.0Di + 1.0Wi(270)	Y...	Y		3	1.2	27	1	37	1								
31	1.2D + 1.5L + 1.0Wi(270)	Y...	Y		3	1.2	1	1.5	24	1								
32	1.2D + 1.0W(300)	Y...	Y		3	1.2	13	1										
33	1.2D + 1.0Di + 1.0Wi(300)	Y...	Y		3	1.2	27	1	38	1								
34	1.2D + 1.5L + 1.0Wi(300)	Y...	Y		3	1.2	1	1.5	25	1								
35	1.2D + 1.0W(330)	Y...	Y		3	1.2	14	1										
36	1.2D + 1.0Di + 1.0Wi(330)	Y...	Y		3	1.2	27	1	39	1								
37	1.2D + 1.5L + 1.0Wi(330)	Y...	Y		3	1.2	1	1.5	26	1								
38	1.2D + 1.0E(x) + 1.0E(z) ...	Y...	Y		3	1.2	40	1	42	1	1	1						
39	1.2D + 1.0E(y) + 1.0E(z) ...	Y...	Y		3	1.2	41	1	42	1	1	1						
40	1.2D - 1.0E(x) + 1.0E(z) + ...	Y...	Y		3	1.2	40	-1	42	1	1	1						
41	1.2D - 1.0E(y) + 1.0E(z) + ...	Y...	Y		3	1.2	41	-1	42	1	1	1						

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

Member	Shape	Code Check	Lo...	LC	Shear Ch...	Lo...	LC	phi*...	phi*...	phi*...	phi*...	Eqn		
1	tab7	3x0.5	.850	.25	17	.031	.25	y	20	47.4...	48.6...	508	3.038	...H1-...
2	tab10	3x0.5	.845	.25	23	.028	.25	y	20	47.5...	48.6...	508	3.038	...H1-...
3	tab11	3x0.5	.773	.25	29	.030	.25	y	32	47.5...	48.6...	508	3.038	...H1-...
4	tab8	3x0.5	.754	.25	35	.028	.25	y	32	47.4...	48.6...	508	3.038	...H1-...
5	SK6	L2.5x2.5x3	.742	4...	11	.031	4...	z	11	17.0...	29.1...	.873	1.706	...H2-1
6	MP GAMMA3	PIPE 2.0	.711	4...	26	.293	4...	z	26	14.9...	32.13	1.872	1.872	...H3-6
7	MID RAIL1	L2.5x2.5x4	.711	10...	23	.064	.9...	z	35	2.38	38.5...	1.114	1.883	...H2-1
8	tab12	3x0.5	.709	.2...	11	.025	.2...	y	8	47.5...	48.6...	508	3.038	...H1-...
9	tab9	3x0.5	.699	.25	5	.027	.25	y	8	47.4...	48.6...	508	3.038	...H1-...
10	PLATE2	8x0.5	.699	.9...	21	.172	.9...	y	18	35.8...	129.6	1.35	21.6	...H1-...



Company : POD
 Designer : UT
 Job Number : 20-70444
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Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Lo...	LC	Shear Ch...	Lo...	LC	phi*	phi*...	phi*...	phi*...	Eqn		
11	PLATE1	8x0.5	.698	.9...	21	.172	.9...	y	27	35.8...	129.6	1.35	21.6	H1-...
12	MP ALPHA3	PIPE 2.0	.692	4...	2	.274	4...		2	14.9...	32.13	1.872	1.872	H1-...
13	PLATE3	8x0.5	.679	.9...	33	.166	.9...	y	3	35.8...	129.6	1.35	21.6	H1-...
14	SK3	L2.5x2.5x3	.671	4...	29	.033	4...	y	30	17.0...	29.1...	.873	1.706	H2-1
15	NEW RAIL2	PIPE 2.0	.669	9	12	.429	8...		12	5.397	32.13	1.872	1.872	H3-6
16	SK4	L2.5x2.5x3	.662	0	17	.021	0	z	17	17.0...	29.1...	.873	1.706	H2-1
17	MP BETA3	PIPE 2.0	.647	4...	14	.276	4...		14	14.9...	32.13	1.872	1.872	H1-...
18	RAIL2	L2.5x2.5x4	.640	10...	17	.067	10...	z	12	2.38	38.5...	1.114	1.99	H2-1
19	MID RAIL2	L2.5x2.5x4	.636	10...	35	.062	.9...	z	11	2.38	38.5...	1.114	1.873	H2-1
20	SK2	L2.5x2.5x3	.635	0	5	.023	0	z	6	17.0...	29.1...	.873	1.706	H2-1
21	NEW RAIL3	PIPE 2.0	.634	5...	29	.387	8...		24	5.397	32.13	1.872	1.872	H1-...
22	MP ALPHA2	PIPE 2.0	.622	4...	2	.240	4...		36	14.9...	32.13	1.872	1.872	H1-...
23	MID RAIL3	L2.5x2.5x4	.616	11...	14	.062	.9...	z	23	2.38	38.5...	1.114	1.977	H2-1
24	FACE3	C5X6.7	.613	0	21	.177	12...	z	9	4.046	63.8...	1.604	9.215	H1-...
25	RAIL1	L2.5x2.5x4	.604	10...	5	.069	10...	z	33	2.38	38.5...	1.114	2.018	H2-1
26	NEW RAIL1	PIPE 2.0	.604	4...	8	.382	8...		35	5.397	32.13	1.872	1.872	H1-...
27	PIPE2	PIPE 2.0	.596	.7...	17	.528	0		17	26.3...	32.13	1.872	1.872	H3-6
28	RAIL3	L2.5x2.5x4	.591	10...	29	.070	0	z	23	2.38	38.5...	1.114	2	H2-1
29	MP BETA2	PIPE 2.0	.590	4...	14	.255	4...		15	14.9...	32.13	1.872	1.872	H1-...
30	SK5	L2.5x2.5x3	.589	4...	5	.027	4...	y	5	17.0...	29.1...	.873	1.706	H2-1
31	FACE1	C5X6.7	.581	13...	9	.182	1...	z	21	4.046	63.8...	1.604	9.585	H1-...
32	FACE2	C5X6.7	.581	0	9	.181	12...	z	33	4.046	63.8...	1.604	9.12	H1-...
33	Tab1	3x0.5	.574	.25	20	.034	.25	y	2	47.4...	48.6	.508	3.038	H1-...
34	tab14	3x0.5	.572	.25	20	.164	.25	y	30	47.4...	48.6	.508	3.038	H1-...
35	BRACE3	PIPE 2.0	.564	0	26	.190	3...		23	28.4...	32.13	1.872	1.872	H1-...
36	PIPE3	PIPE 2.0	.555	.7...	29	.500	0		11	26.3...	32.13	1.872	1.872	H3-6
37	Tab2	3x0.5	.551	.25	17	.024	.25	y	21	47.4...	48.6	.508	3.038	H1-...
38	PIPE1	PIPE 2.0	.547	.7...	23	.485	0		23	26.3...	32.13	1.872	1.872	H3-6
39	MP GAMMA2	PIPE 2.0	.545	4...	27	.238	4...		27	14.9...	32.13	1.872	1.872	H1-...
40	tab18	3x0.5	.541	.2...	32	.160	.2...	y	9	47.5...	48.6	.508	3.038	H1-...
41	SK1	L2.5x2.5x3	.538	0	35	.022	0	y	33	17.0...	29.1...	.873	1.706	H2-1
42	BRACE2	PIPE 2.0	.515	0	14	.169	0		29	28.4...	32.13	1.872	1.872	H1-...
43	tab15	3x0.5	.513	.25	20	.161	.25	y	9	47.4...	48.6	.508	3.038	H1-...
44	SO2	HSS4X4X4	.511	0	12	.062	0	z	24	114...	139...	16.1...	16.1...	H1-...
45	SO1	HSS4X4X4	.509	0	21	.062	0	z	21	114...	139...	16.1...	16.1...	H1-...
46	BRACE1	PIPE 2.0	.507	0	2	.204	3...		20	28.4...	32.13	1.872	1.872	H1-...
47	SO3	HSS4X4X4	.506	0	12	.061	0	z	12	114...	139...	16.1...	16.1...	H1-...
48	tab16	3x0.5	.505	.25	8	.166	.25	y	21	47.5...	48.6	.508	3.038	H1-...
49	Tab4	3x0.5	.498	.25	5	.017	.25	z	21	47.4...	48.6	.508	3.038	H1-...
50	Tab5	3x0.5	.497	.25	32	.034	.25	y	14	47.4...	48.6	.508	3.038	H1-...
51	tab6	3x0.5	.497	.25	29	.020	.25	y	30	47.4...	48.6	.508	3.038	H1-...
52	tab13	3x0.5	.482	.25	32	.165	.25	y	21	47.4...	48.6	.508	3.038	H1-...
53	tab17	3x0.5	.477	.25	8	.159	.25	y	33	47.5...	48.6	.508	3.038	H1-...
54	Tab3	3x0.5	.447	.25	8	.041	.25	y	23	47.4...	48.6	.508	3.038	H1-...
55	VERT5	PIPE 2.0	.413	2...	17	.215	0		17	29.1...	32.13	1.872	1.872	H1-...
56	VERT1	PIPE 2.0	.390	2...	23	.209	0		5	29.1...	32.13	1.872	1.872	H1-...
57	VERT9	PIPE 2.0	.373	2...	29	.196	0		29	29.1...	32.13	1.872	1.872	H1-...
58	VERT12	PIPE 2.0	.363	2...	23	.184	0		23	29.1...	32.13	1.872	1.872	H1-...
59	VERT4	PIPE 2.0	.363	2...	17	.202	0		2	29.1...	32.13	1.872	1.872	H1-...
60	VERT8	PIPE 2.0	.341	2...	11	.195	0		14	29.1...	32.13	1.872	1.872	H1-...
61	VERT6	PIPE 2.0	.332	0	2	.125	0		20	29.1...	32.13	1.872	1.872	H1-...
62	MP ALPHA4	PIPE 2.0	.328	4...	20	.201	2...		2	14.9...	32.13	1.872	1.872	H1-...
63	VERT10	PIPE 2.0	.323	2...	14	.119	0		32	29.1...	32.13	1.872	1.872	H1-...
64	VERT2	PIPE 2.0	.319	0	26	.114	0		8	29.1...	32.13	1.872	1.872	H1-...
65	VERT11	PIPE 2.0	.314	0	20	.140	0		23	29.1...	32.13	1.872	1.872	H1-...
66	VERT7	PIPE 2.0	.311	0	2	.141	0		11	29.1...	32.13	1.872	1.872	H1-...
67	VERT3	PIPE 2.0	.303	0	32	.138	0		35	29.1...	32.13	1.872	1.872	H1-...



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

Member	Shape	Code Check	Lo...	LC	Shear Ch...	Lo...	LC	phi*	phi*	phi*	phi*	Egn			
68	MP BETA4	PIPE 2.0		.270	4...	32	.199	2...	14	14.9...	32.13	1.872	1.872	...H1-...	
69	MP GAMMA4	PIPE 2.0		.264	4...	26	.202	2...	26	14.9...	32.13	1.872	1.872	...H1-...	
70	MP BETA1	PIPE 2.0		.258	4...	17	.128	2...	14	14.9...	32.13	1.872	1.872	...H1-...	
71	MP ALPHA1	PIPE 2.0		.248	2...	24	.119	2...	2	14.9...	32.13	1.872	1.872	2H1-...	
72	MP GAMMA1	PIPE 2.0		.232	2...	15	.118	2...	26	14.9...	32.13	1.872	1.872	...H1-...	
73	M112	C5X6.7		.170	3...	21	.026	0	y	12	13.3...	63.8...	1.604	8.007	...H1-...
74	M113	L5X5X5		.073	3...	12	.011	0	y	27	68.4...	99.4...	6.383	11.9...	...H2-1
75	M114	L5X5X5		.073	2...	30	.011	0	z	12	68.4...	99.4...	6.383	11.9...	...H2-1

APPENDIX D

Additional Calculations

POD Job # 20-70444
Site Number 806361
Site Name NHV 102 943127

Calculations Based on TIA-222-H

Reactions from RISA-3D

Moment 7.106 ft-kip
 Axial 0.004 kips
 Shear 2.08 kips

Bolt Information

Grade A325
 Threads in Shear Plane Included
 Diameter 0.625 in.
 Bolt Spacing 7 in.
 Number of Rods 4

Flange Plate Information

Width 8 in.
 Thickness 0.625 in.
 Grade A36

Standoff Information

Standoff Member HSS
 Flat-Flat 4 in.
 Thickness 0.25 in.

Bolt Calculations

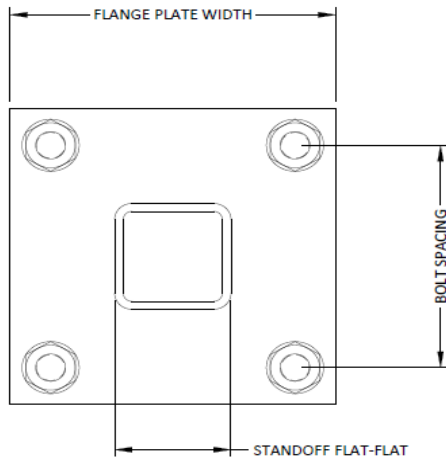
ϕ 0.75
 A_{nt} 0.226 in²
 A_b 0.307 in²
 F_u 120 ksi
 ϕR_{nV} 13.81 kips
 ϕR_{nt} 20.34 kips
 V 0.52 kips
 F 6.08 kips
 Capacity 9.1%

Flange Plate Calculations

ϕ 0.9
 F_y 36 ksi
 t_{min} 0.28 in
 Z 0.8 in³
 ϕM_n 25.3 in-kip
 M_u 18.2 in-kip
 Capacity 72.1%

Capacities

Bolts	9.1%
Flange Plate	72.1%



APPENDIX E

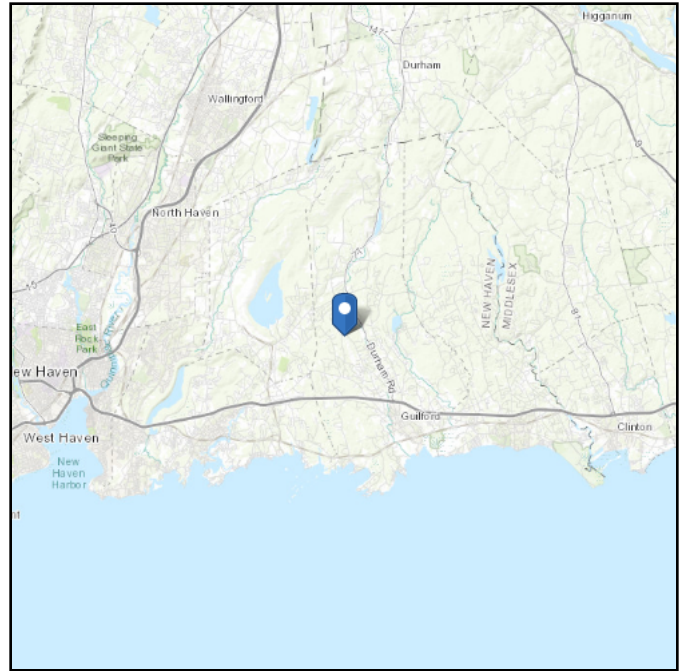
Wind Speed Documentation

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 281.72 ft (NAVD 88)
Latitude: 41.330025
Longitude: -72.721808



Wind

Results:

Wind Speed:	122 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	93 Vmph
100-year MRI	99 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4

Date Accessed: Fri Oct 02 2020

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.

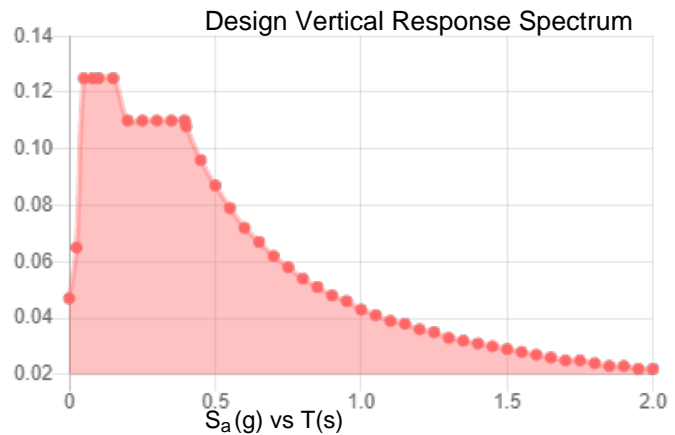
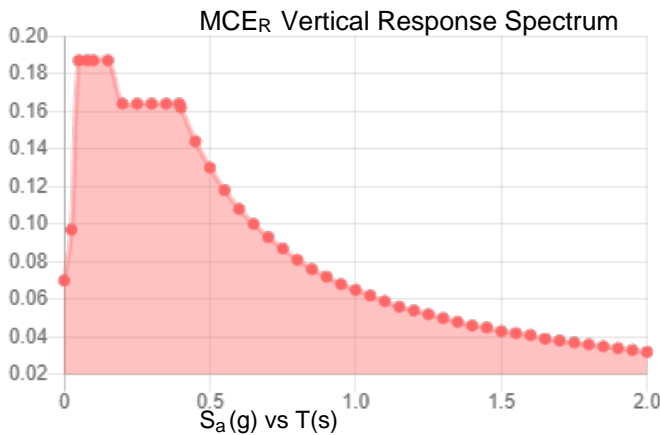
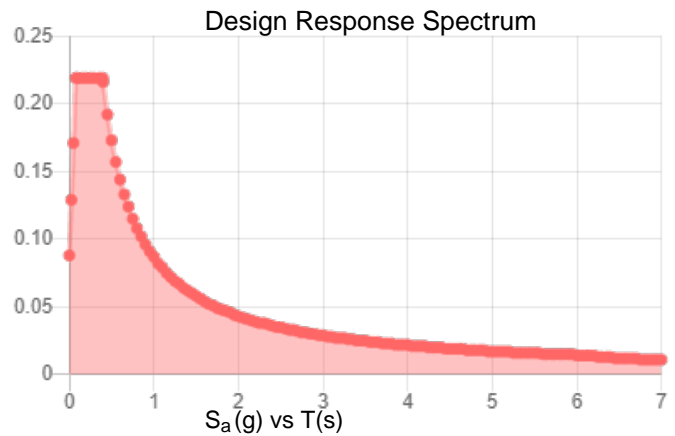
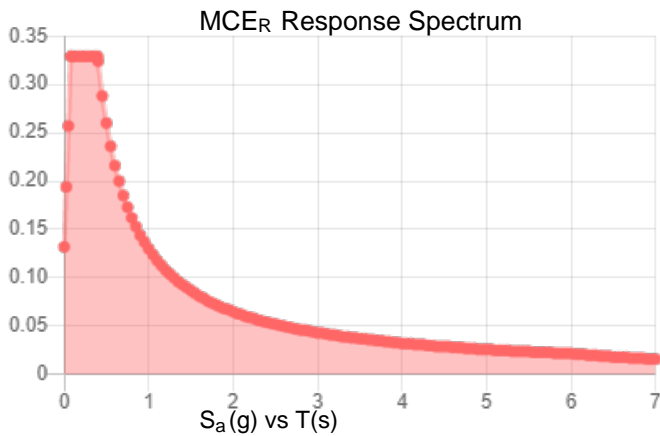
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_s :	0.206	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.115
F_v :	2.4	PGA _M :	0.181
S_{MS} :	0.329	F_{PGA} :	1.57
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.219	C_v :	0.711

Seismic Design Category B



Data Accessed:

Fri Oct 02 2020

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 Oct 02 2020

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.

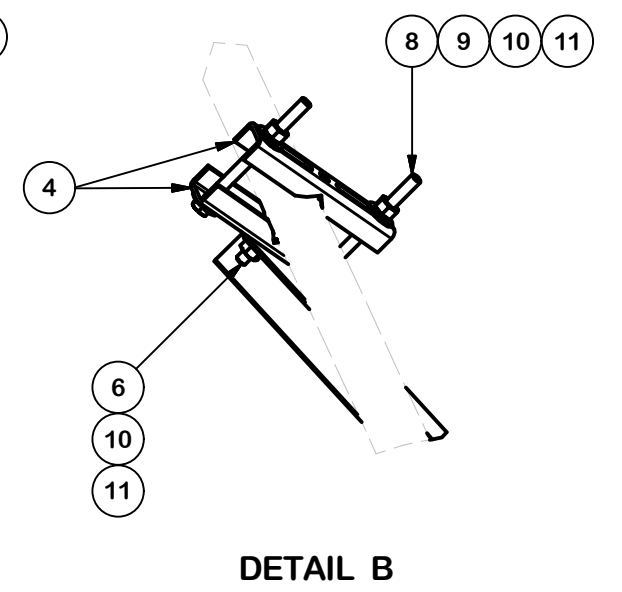
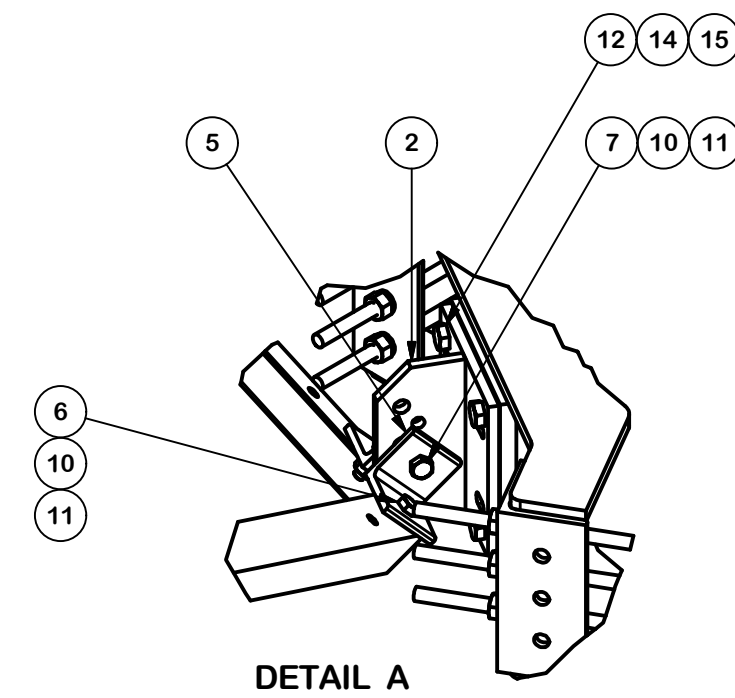
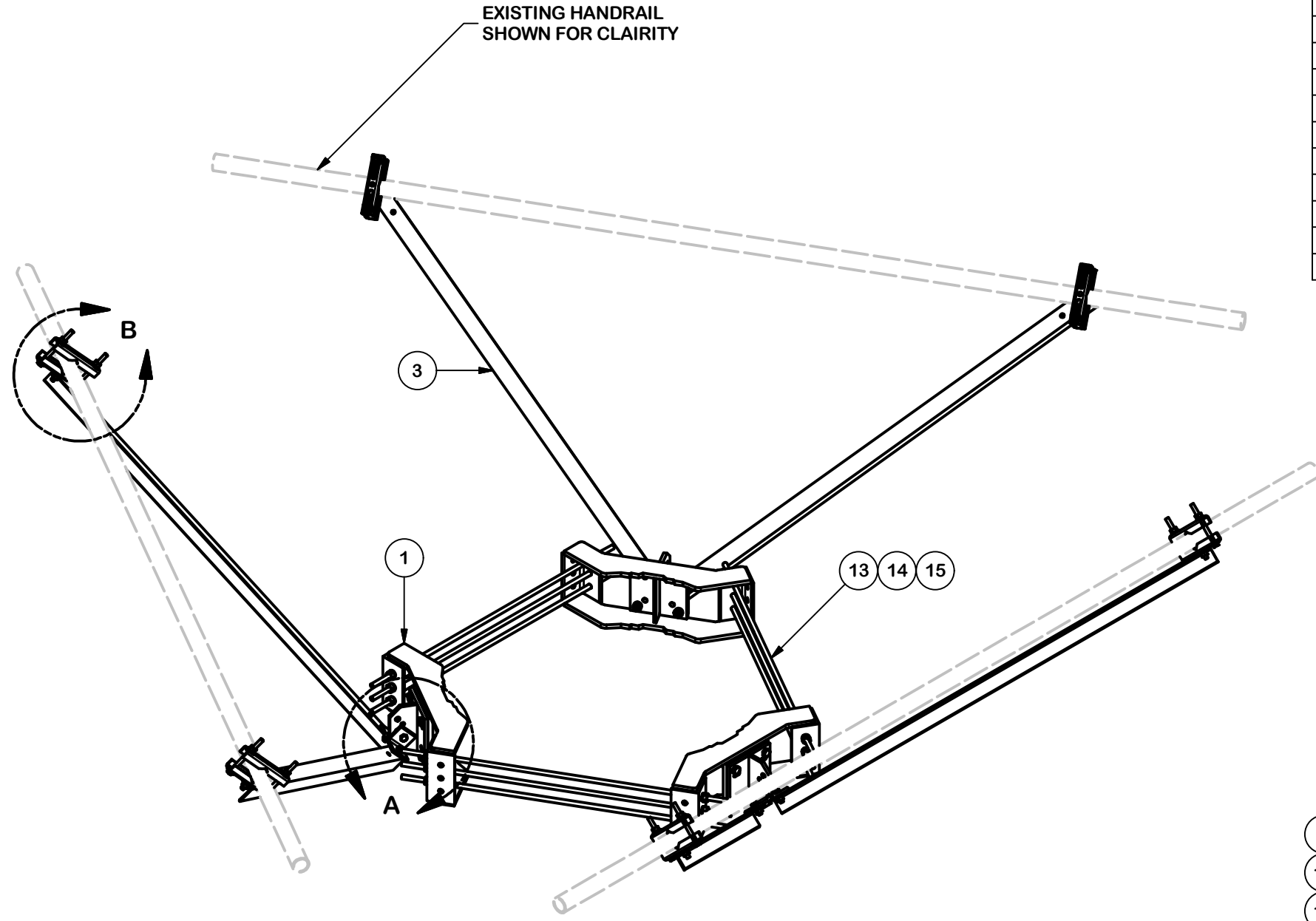
The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated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

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

APPENDIX F
Specification Sheets

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	X-254924	DIAGONAL ANGLE - SITE PRO 1	72 in	19.71	118.24
4	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
5	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
					TOTAL WT. #	642.04



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/25/2017
REVISION HISTORY				

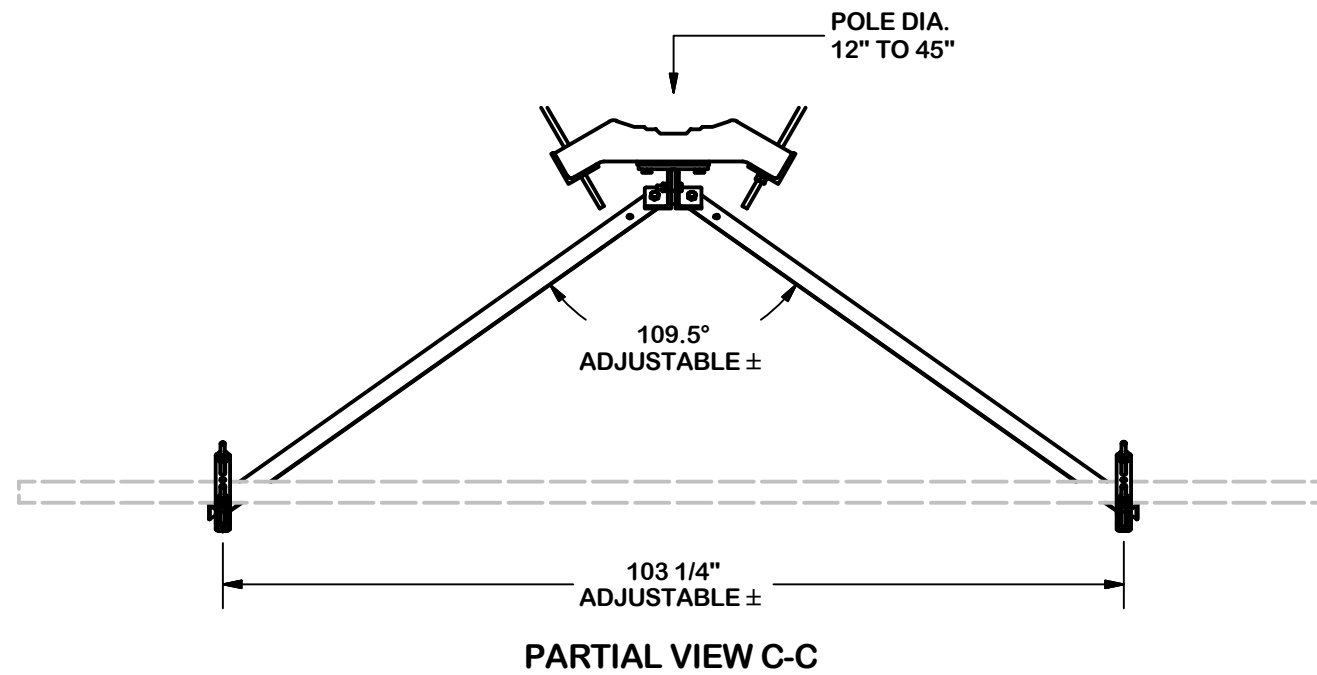
TOLERANCE NOTES

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

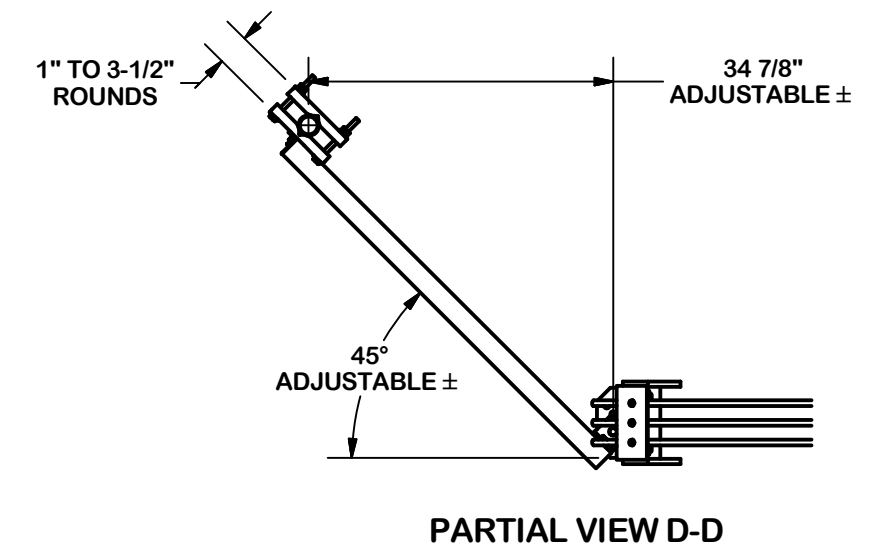
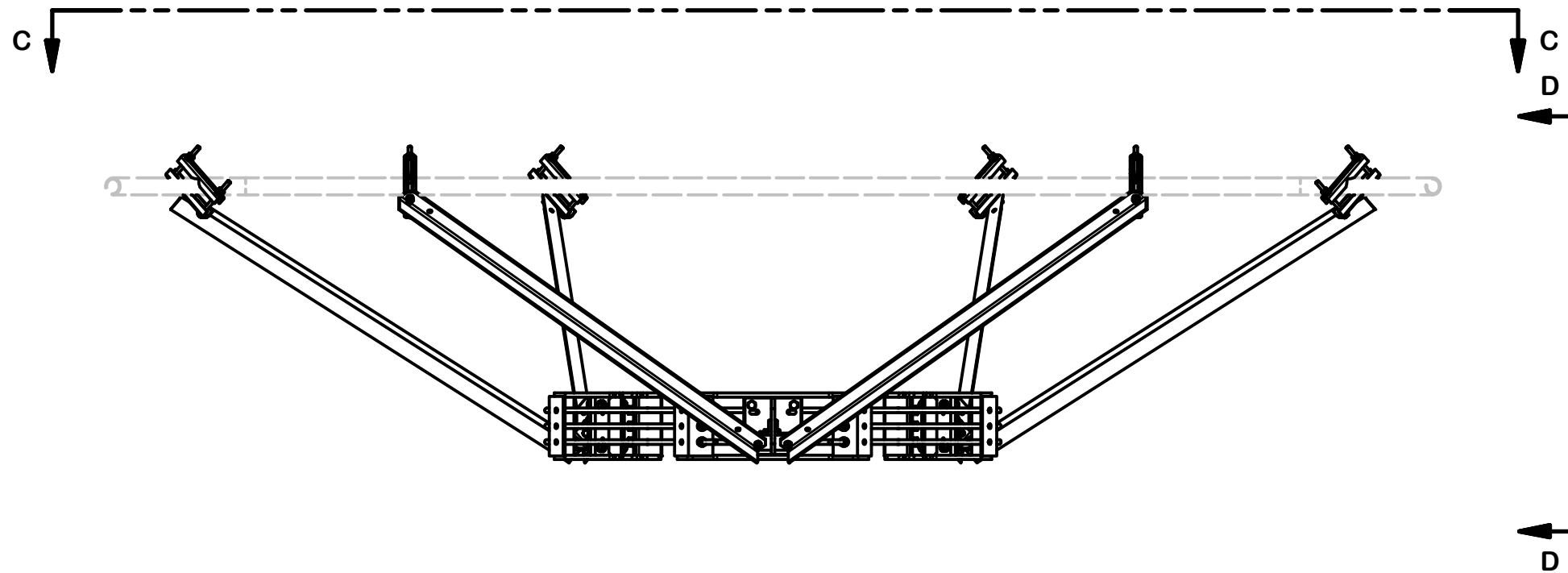
PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION			
HANDRAIL REINFORCEMENT KIT (LONG)			
CPD NO.	DRAWN BY	ENG. APPROVAL	
SP1	CSL3 2/23/2017	3RD PARTY	
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	SHOP	BMC 9/8/2017

 A valmont COMPANY	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	PART NO. PRK-SFS-L	
DWG. NO. PRK-SFS-L		1 OF 3 PAGE



VERTICAL POSITION



TOLERANCE NOTES

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

PROPRIETARY NOTE:
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DESCRIPTION
HANDRAIL REINFORCEMENT KIT (LONG)

CPD NO. SP1	DRAWN BY CSL3 2/23/2017	ENG. APPROVAL 3RD PARTY
CLASS 81	SUB 02	DRAWING USAGE SHOP
	CHECKED BY BMC	DATE 9/8/2017

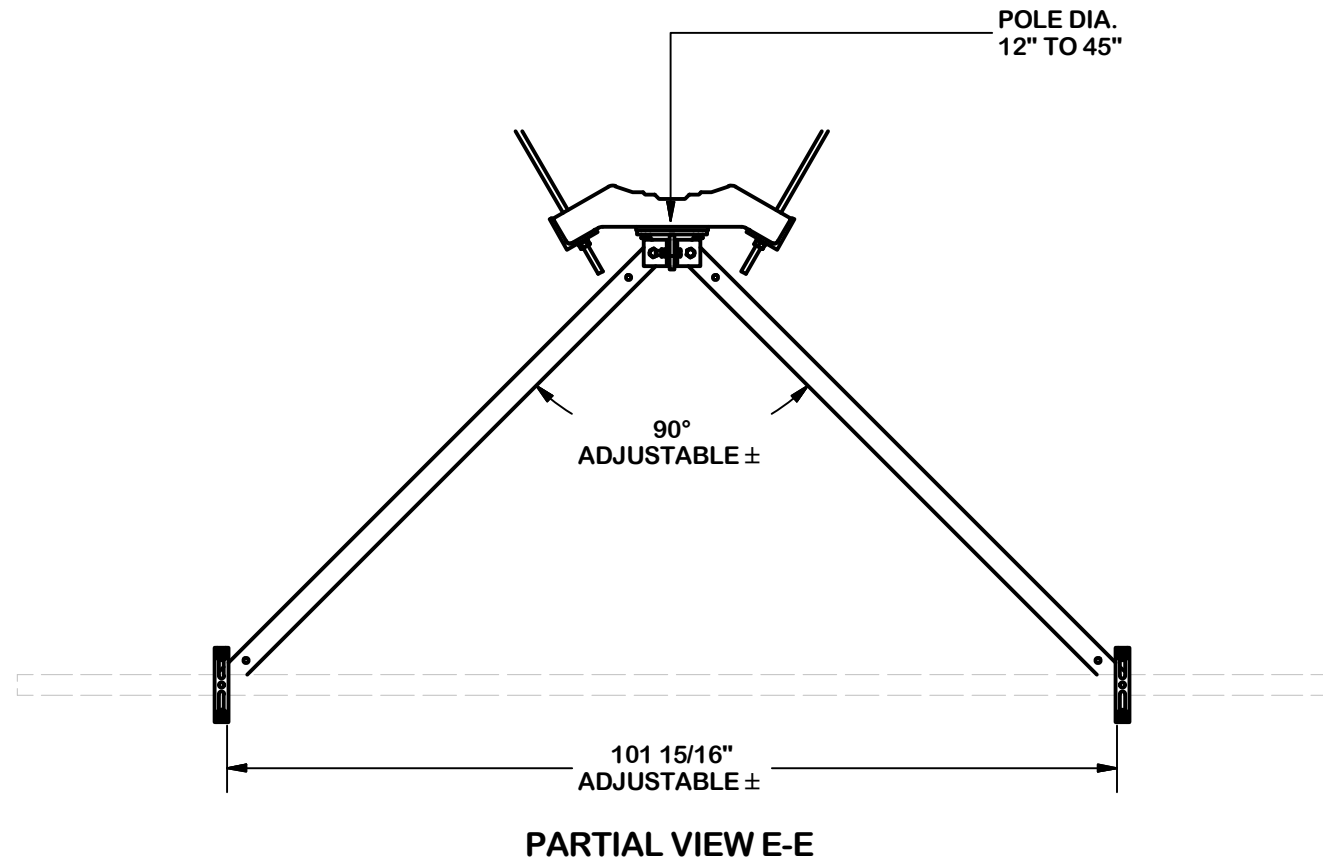
SITE PRO 1
 A valmont COMPANY

Engineering Support Team:
 1-888-753-7446

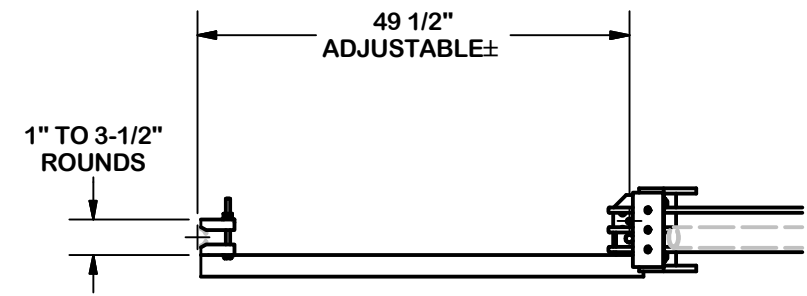
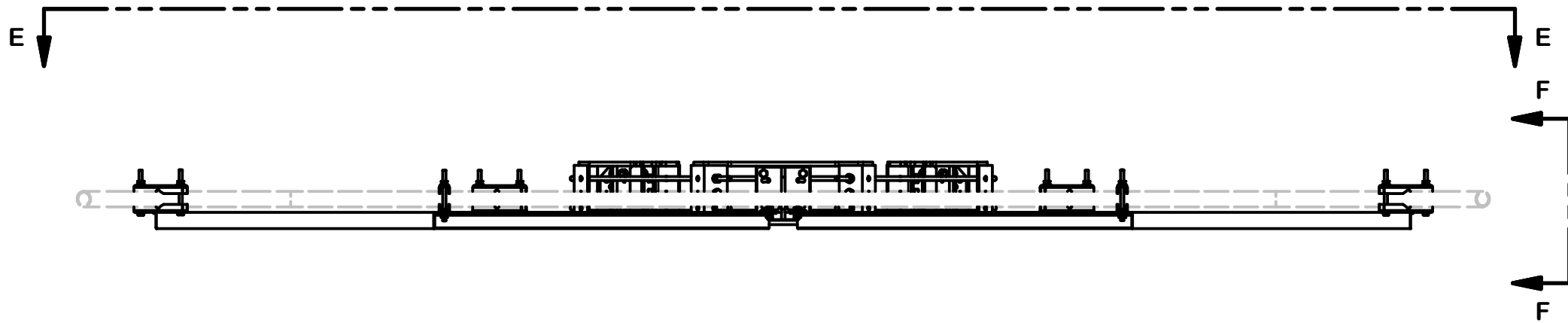
Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/25/2017
REVISION HISTORY				

PART NO. PRK-SFS-L	PAGE 2 OF 3
DWG. NO. PRK-SFS-L	



HORIZONTAL POSITION



PARTIAL VIEW F-F

TOLERANCE NOTES

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

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

DESCRIPTION
HANDRAIL REINFORCEMENT KIT (LONG)

CPD NO. SP1	DRAWN BY CSL3 2/23/2017	ENG. APPROVAL 3RD PARTY
CLASS 81	SUB 02	DRAWING USAGE SHOP
CHECKED BY BMC 9/8/2017		

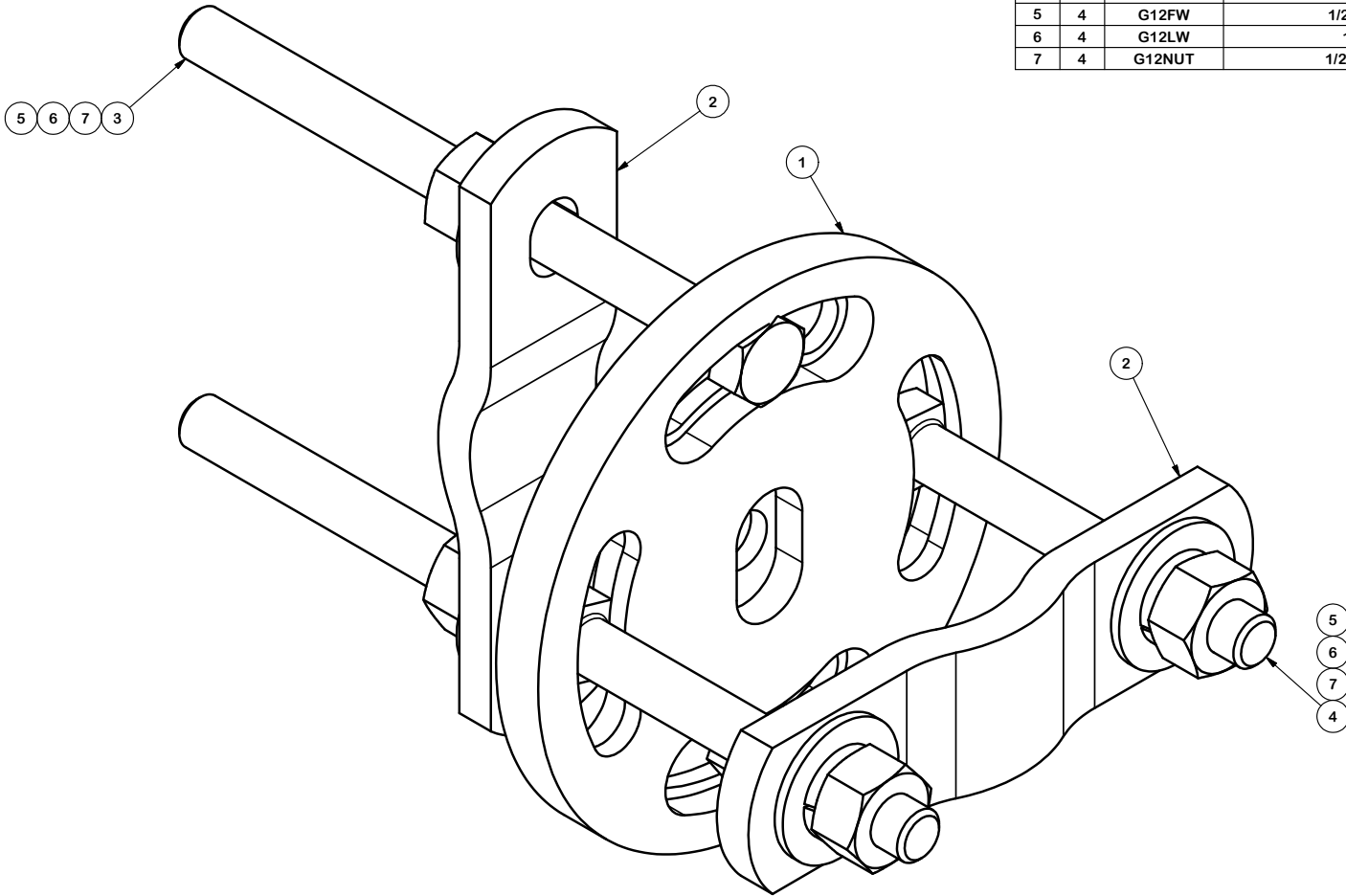
SITE PRO 1
 A valmont COMPANY

Engineering Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

PART NO. PRK-SFS-L	PAGE 3 OF 3
DWG. NO. PRK-SFS-L	

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/25/2017
REVISION HISTORY				



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALVANIZED)		2.48	2.48
2	2	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	1.83
3	2	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	0.82
4	2	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	0.54
5	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
6	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
7	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	6.16

TOLERANCE NOTES

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

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

DESCRIPTION
 ADJUSTABLE CLAMP PLATE
 TIE-BACK ASSEMBLY

CPD NO.	DRAWN BY	ENG. APPROVAL
CLASS	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER
		BMC 9/1/2010



Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering
 Support Team:
 1-888-753-7446

A valmont COMPANY

PART NO.	PUCK
DWG. NO.	PUCK

4

3

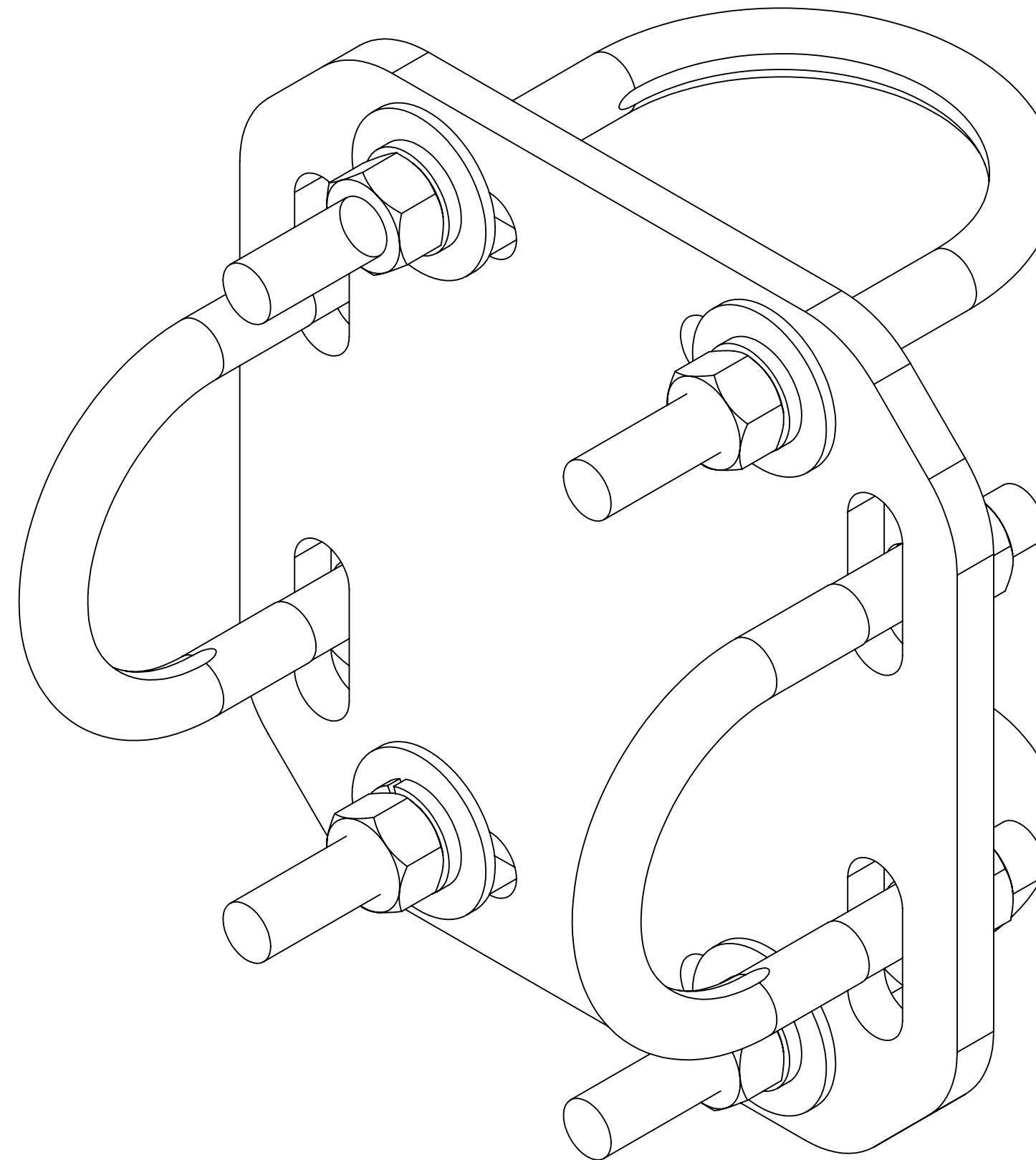
2

1

NOTES:

REVISIONS				
REV.	ECN	DESCRIPTION	BY	DATE
A	8000030568	INITIAL RELEASE	RDLs	07/03/18

PRODUCT	PLATE (QTY 1)	U-BOLT #1	QTY	U-BOLT #2	QTY
XP-2020	XPU01	GUB-4240	4	-	-
XP-2025	XPU01	GUB-4240	2	GUB-4352	2
XP-2030	XPU01	GUB-4240	2	GUB-4355	2
XP-2040	XPU02	GUB52440	2	GUB-5456	2
XP-2525	XPU01	GUB-4352	4	-	-
XP-2530	XPU01	GUB-4352	2	GUB-4355	2
XP-2540	XPU02	GUB-53045	2	GUB-5456	2
XP-3030	XPU01	GUB-4355	4	-	-
XP-3040	XPU02	GUB-53560	2	GUB-5456	2
XP-4040	XPU02	GUB-5456	4	-	-



COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES		SAP MATERIAL MASTER	
0 PLACE X ± .25	2 PLACE .XX ± .06	SEE TABLE	
1 PLACE .X ± .12	ANGLES ± 2°		
FINISH		MATERIAL	
GALV A123		A1011/A1018 GR 36	
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS INTERPRET PER ISO STANDARDS HANDBOOK TECHNICAL DRAWINGS VOLUMES 1 & 2, THIRD EDITION (2002)</small>	NAME	DATE	TITLE
	CE	-	-
	RW		XP SERIES
	RV		
	AD		
RE	TP	-	SCALE
ECN	800000		1:1
			DOCUMENT NO.
			XP SERIES
SIZE	WORK AREA	MODEL	
C		VERSION	STATUS
		REVISION	REVISION
		VERSION	STATUS
		REVISION	REVISION
			A
			SHEET
			1 OF 1

DENSITY	0.28	lbs/in ³
MASS	8.01	lbs
VOLUME	28.43	in ³
SURFACE AREA		in ²
HEIGHT		
LENGTH		
WIDTH		

4

3

2

1

D

D

C

C

B

B

A

A

APPENDIX G

Mount Modification Design Drawings (MDD)



SITE:
806361 NHV 102 943127 (10035042)

MODIFICATION DRAWING FOR AN EXISTING 13.5' PLATFORM W/ SUPPORT RAILS AT 138' ON A 150' MONOPOLE TOWER

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
POD
 POWER OF DESIGN
 1033 E. TURKEYFOOT LAKE RD.
 SUITE 206 AKRON, OHIO 44312
 330-961-7432

CARRIER:
AT&T

DRAWING NOTICE:
 THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127 (10035042)
 131 MANOR RD.
 GUILFORD, CT 06437

SITE NUMBER:
806361

POD NUMBER: 20-70444
 DRAWN BY: TAJ
 CHECKED BY: JGC
 DATE: 10/13/2020

SHEET TITLE:
TITLE SHEET

T-01

SHEET INDEX	
T-01	TITLE SHEET
N-01	NOTES
S-01	PLAN VIEW
S-02	ELEVATION VIEW
MI-01	MODIFICATION CHECKLIST

PROJECT INFORMATION	
COUNTY:	NEW HAVEN
SITE ADDRESS:	131 MANOR RD. GUILFORD, CT 06437
LATITUDE:	41° 19' 48.09"
LONGITUDE:	-72° 43' 18.51"

SCOPE OF WORK:
MOUNT MODIFICATION DRAWINGS INCLUDES: INSTALL PROPOSED SUPPORT RAILS, CORNER BRACES, STABILIZER KITS, & MOUNT PIPES.

GENERAL NOTES

- THE MODIFICATIONS REPRESENTED IN THESE DRAWINGS ARE BASED ON THE STRUCTURAL DOCUMENTS PROVIDED IN THE STRUCTURAL DOCUMENTS TABLE. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.
- ALL MODIFICATIONS MUST BE INSTALLED TO BRING THE TOWER INTO CONFORMANCE WITH ALL APPLICABLE CODES.

GOVERNING CODES	TIA-222-H
ULTIMATE WIND SPEED	122 MPH 3 SECOND GUST
RADIAL ICE THICKNESS	1"
WIND SPEED W/ ICE	50 MPH 3 SECOND GUST
STRUCTURE CLASS	II
EXPOSURE CATEGORY	C
TOPOGRAPHIC CATEGORY	1
SPECTRAL RESPONSE ACCELERATIONS	SS= 0.206 & S1= 0.054
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE OR APPROVED BY THE EOR. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE PERFORMING WORK SIMILAR TO THAT DESCRIBED WITHIN THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO PERFORM THE WORK IN THE PROJECT JURISDICTION.
- WORK SHALL ONLY BE PERFORMED DURING CALM, DRY DAYS (WINDS LESS THAN 10XMPH). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTALLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
- THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBER, LOOSE BOLTS, CRACKED WELDS, AND OTHER STRUCTURAL DEFECTS HAVE NOT BEEN CONSIDERED UNLESS SPECIFICALLY NOTED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED LEVEL. THE OWNER AND/OR EOR SHALL BE NOTIFIED IMMEDIATELY IF ANY VARIANCES ARE FOUND.
- THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY, LEASE AREA OR APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS PERFORMED WITHIN THESE BOUNDARIES. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAIN AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK PERFORMED COMPLIES WITH ALL APPLICATION SAFETY CODES AND GOVERNING REGULATIONS.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULES AND MATERIAL DELIVERIES, WITH THE OWNER/RESIDENT LEASING AGENT FOR APPROVAL.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDED BUT NOT LIMITED TO ALTERED SIZED AND/OR STRENGTHS, MUST BE APPROVED BY THE EOR.
- UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
- ALL DIMENSIONS AND QUANTITIES LISTED WITHIN THESE DRAWINGS ARE INTENDED TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE EOR.
- THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING COAX, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCE THAT MAY INTERFERE WITH THE INSTALLATION OF THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACE AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOM MOUNTS OR ATTACHMENTS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE OWNER/EOR PRIOR TO REMOVAL. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER IN WRITING.
- DO NOT SCALE DRAWINGS.

REFERENCE DOCUMENTS

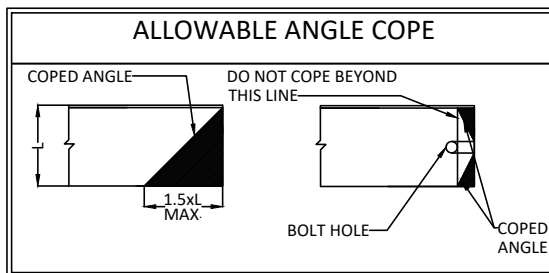
DOCUMENT TYPE	DESIGNATION
MOUNT ANALYSIS	POD PROJECT NUMBER: 20-70234 DATED: 10/02/2020

STRUCTURAL STEEL NOTES

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

MATERIAL SPECIFICATIONS	
ANGLES	ASTM A36 (36 KSI YIELD STRENGTH)
PIPES	ASTM A53 GR.B (35 KSI YIELD STRENGTH)
BOLTS	ASTM A325N
NUTS	ASTM A563
WASHER	ASTM F436
PLATE	ASTM A36 (36 KSI YIELD STRENGTH)
U-BOLTS	ASTM A307

- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
- CAULKING SHALL BE PROVIDED AROUND PERIMETER OF ANY AND ALL MODIFICATION MEMBERS TO ENSURE COMPLETE SEAL BETWEEN EXISTING STRUCTURE AND REINFORCING MEMBERS IN FULL CONTACT WITH EXISTING STEEL. SEALANT IS TO BE EXTERIOR GRADE, PAINTABLE SILICONE CAULKING AS MANUFACTURED BY DOW AND ACCEPTABLE TO EOR.
- HOLE SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE EOR.
- ALL EXPOSED STEEL SHALL BE HOTXDIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOTXDIPPED GALVANIZING IS NOT PERMITTED DACROMET F1136 GRADE 3 COATING SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR STEEL PROTECTION BY ANY OTHER MEANS.
- REPAIR DAMAGED PAINTED/GALVANIZED SURFACES WITH TWO COATS OF BRUSH OR ROLL ON ZRC COLD GALVANIZING COMPOUND OR EOR APPROVED COATING. SURFACES MUST BE WIRE BRUSHED AND SOLVENT CLEANED PRIOR TO APPLICATION OF GALVANIZING COMPOUND.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES (LOCKING NUT/PAL NUT) TO BE INSTALLED IN ACCORDANCE WITH TIA/EIAX222 REQUIREMENTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.



- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

BOLT SCHEDULE				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/16	1-1/16x1-5/16	1-3/4	3

The diagram shows two bolts in a row. The distance between the centerlines of the bolts is labeled 'SPACING'. The distance from the centerline of the bolt to the edge of the member is labeled 'EDGE DISTANCE'.

WORKABLE GAGES			
LEG	2-1/2	----	----
G	1-3/8	----	----

The diagram shows a T-shaped workable gage. The vertical leg is labeled 'G'. The horizontal top bar is labeled '2-1/2'. The diagram is used to specify dimensions for workable gages.

- DIMENSIONS GIVEN IN INCHES.
- MATCH EXISTING WHEN APPLICABLE.
- DIMENSIONS GIVEN IN INCHES.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED ON THE PLANS.

PLANS PREPARED FOR:

PLANS PREPARED BY:

1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

DRAWING NOTICE:
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MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127
(10035042)

131 MANOR RD.
GUILDFORD, CT 06437

SITE NUMBER:
806361

POD NUMBER: 20-70444

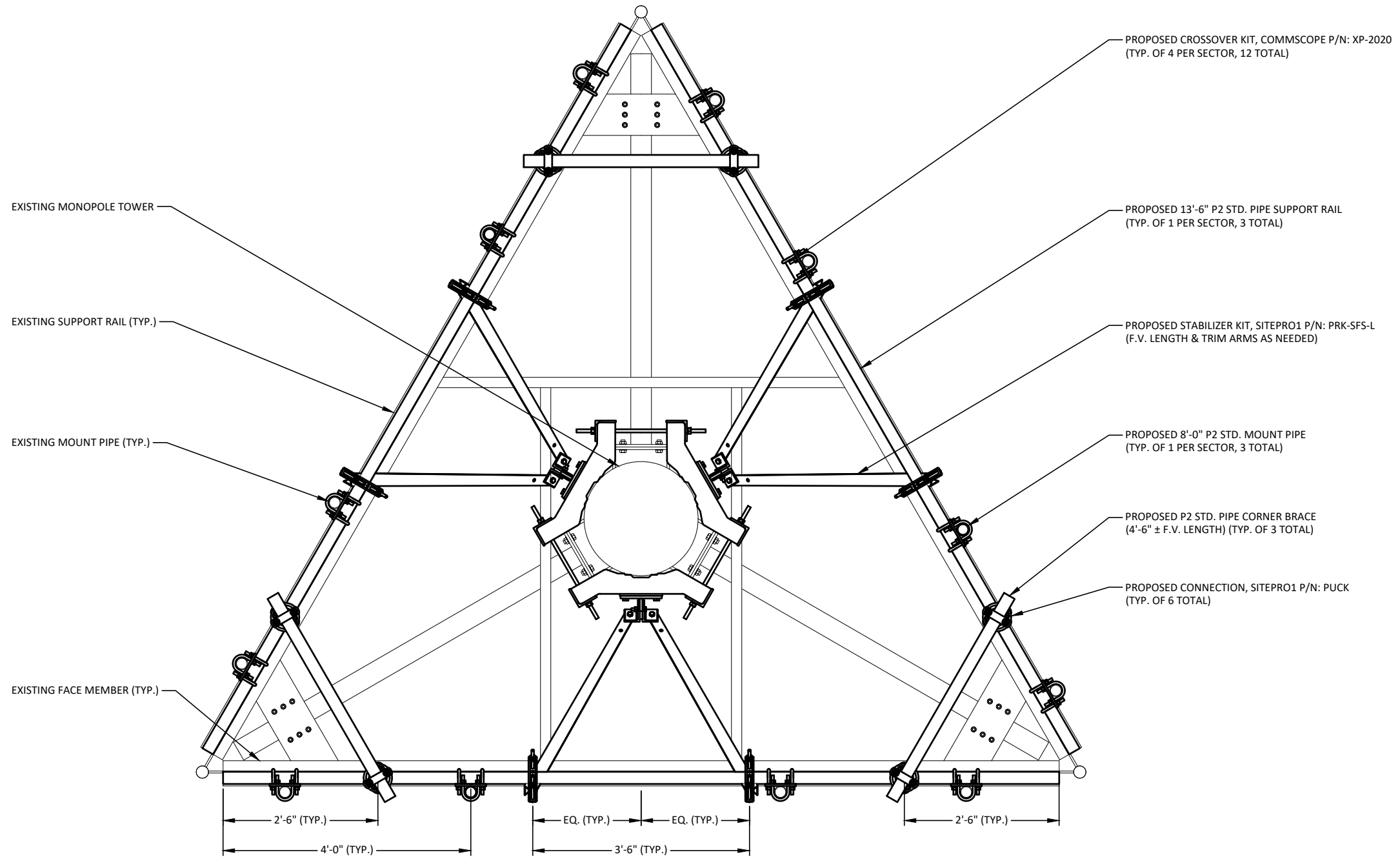
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:
NOTES

N-01

NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



PLAN VIEW
1/2" = 1'-0"

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
 POWER OF DESIGN
 1033 E. TURKEYFOOT LAKE RD.
 SUITE 206 AKRON, OHIO 44312
 330-961-7432

CARRIER:

AT&T

DRAWING NOTICE:
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MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127
(10035042)
 131 MANOR RD.
 GUILFORD, CT 06437

SITE NUMBER:
806361

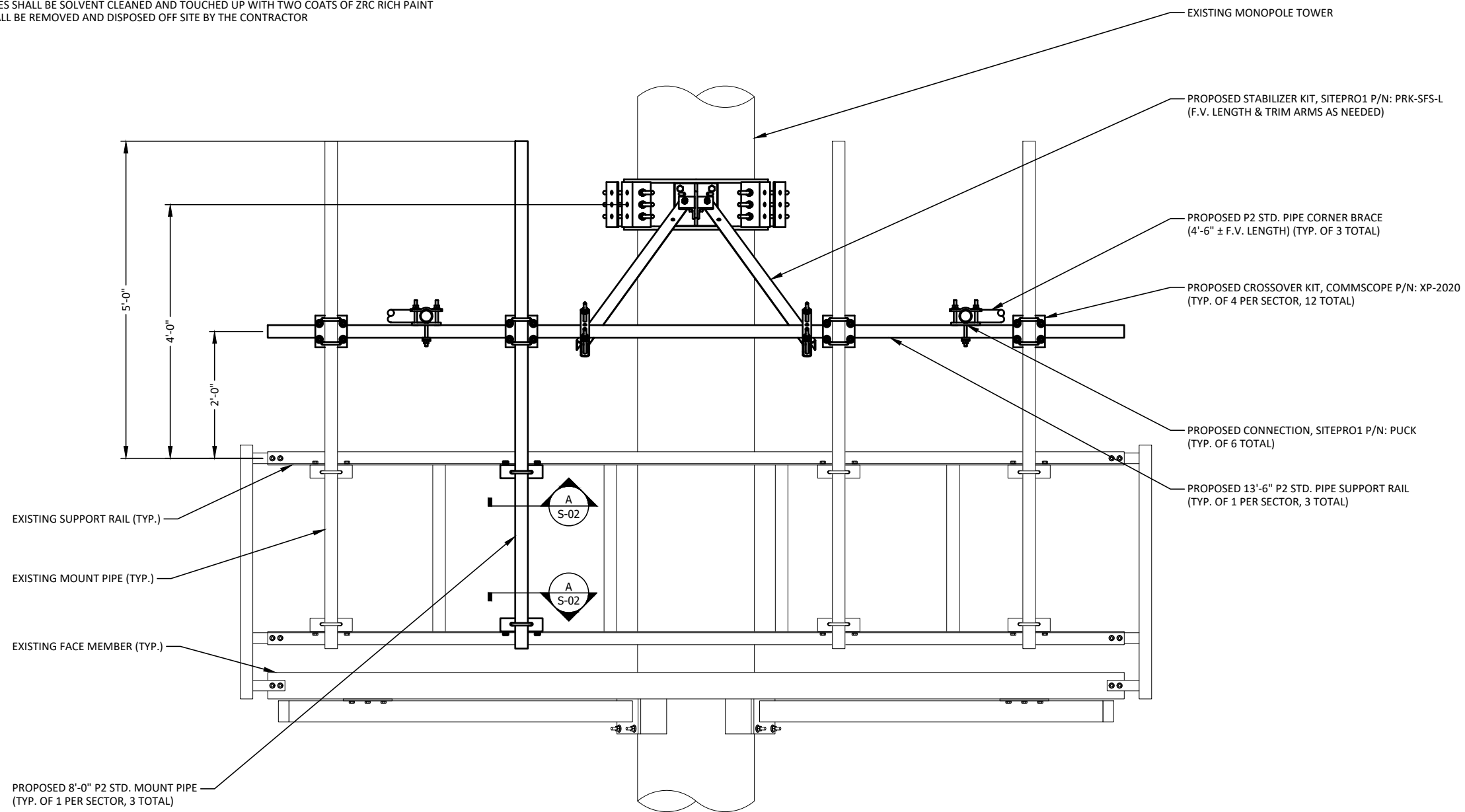
POD NUMBER: 20-70444
 DRAWN BY: TAJ
 CHECKED BY: JGC
 DATE: 10/13/2020

SHEET TITLE:
PLAN VIEW

S-01

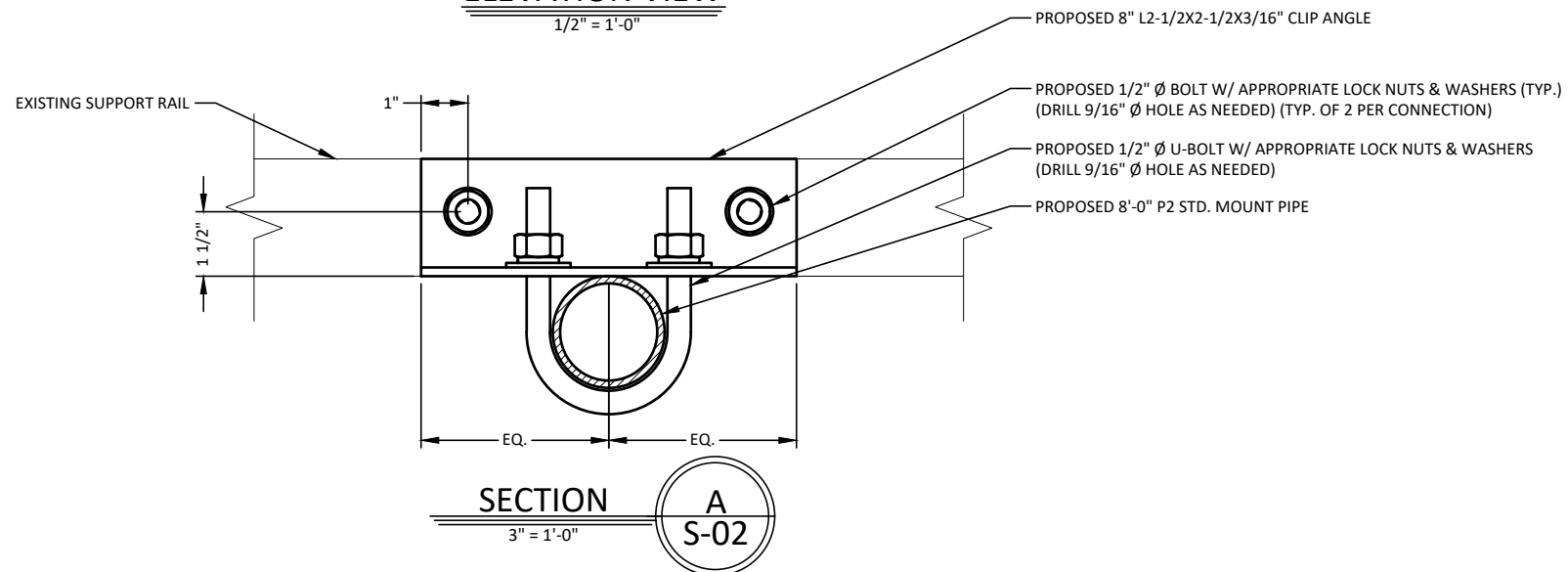
NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



ELEVATION VIEW

1/2" = 1'-0"



SECTION

3" = 1'-0"

A
S-02

PLANS PREPARED FOR:



PLANS PREPARED BY:



1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:



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MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

NHV 102 943127 (10035042)

131 MANOR RD.
GUILFORD, CT 06437

SITE NUMBER:

806361

POD NUMBER: 20-70444

DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:

ELEVATION VIEW

S-02

MODIFICATION INSPECTION CHECKLIST					
BEFORE CONSTRUCTION		DURING CONSTRUCTION		AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
X	MODIFICATION INSPECTION CHECKLIST DWG	X	CONSTRUCTION INSPECTION	X	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWING(S)
-	ENGINEER OF RECORD APPROVED SHOP DRAWINGS	-	FOUNDATION INSPECTION	-	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
-	FABRICATION INSPECTION	-	CONCRETE COMP. STRENGTH AND SLUMP TEST	X	PHOTOGRAPHS
X	MATERIAL TEST REPORT	-	POST INSTALLED ANCHOR ROD VERIFICATION	ADDITIONAL TESTING AND INSPECTION	
-	FABRICATOR NDE INSPECTION	-	BASE PLATE GROUT VERIFICATION		
-	NDE REPORT OF MONOPOLE BASEPLATE (AS REQUIRED)	-	THIRD PARTY CERTIFIED WELD INSPECTION		
X	PACKING SLIP	-	EARTHWORK LIFT AND DENSITY (REPORT REQUIRED)		
ADDITIONAL TESTING AND INSPECTION		X	ON SITE COLD GALVANIZING VERIFICATION		
		-	GUY WIRE TENSION REPORT		
		X	GC AS-BUILT DOCUMENTS		
		ADDITIONAL TESTING AND INSPECTION			

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD.
2. THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AN IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MODIFICATION INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.
3. TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

1. THE MODIFICATION INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSPECTION TO:
 - REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
 - DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS
2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS. REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INXFIELD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

1. THE GC IS REQUIRED TO CONTACT THE MODIFICATION INSPECTOR AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
 - WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
 - BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

1. IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, TO THE MODIFICATION INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR HE MODIFICATION INSPECTION TO BE CONDUCTED.
- THE GC AND MODIFICATION INSPECTION COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
 - WHEN POSSIBLE IT IS PREFERRED TO HAVE THE MODIFICATION INSPECTOR AND GC ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR REXTENSIONING OPERATIONS.
 - IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTION TO ALLOW FOUNDATION AND MODIFICATION INSPECTION(S) DONE IN ONE SITE VISIT.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MODIFICATION INSPECTOR ON-SITE DURING THE MODIFICATION INSPECTION. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MODIFICATION INSPECTION CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

1. IF THE GC AND MODIFICATION INSPECTOR AGREE TO A DATE ON WHICH THE MODIFICATION INSPECTION WILL BE CONDUCTED, AND EITHER ARTY CANCELS OR DELAYS, THE TOWER OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OR DEPOSITS AND/OR OTHER PENALTIES RELATE TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME. EXCEPTIONS MAY BE MADE IN THE DELAY/ CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING MODIFICATION INSPECTION:

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION

INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH MODIFICATION INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION. OR, WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO REXANALYZE THE MODIFICATION/REINFORCEMENT USING AS-BUILT CONDITION.

VERIFICATION INSPECTIONS:

1. TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTION(S) ON TOWER MODIFICATION PRODUCTS.
2. VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

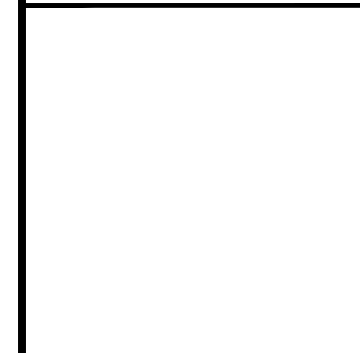
REQUIRED PHOTOS:

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:
 - PREXCONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - FOUNDATION MODIFICATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONDITION PHOTOGRAPHS
- FINAL INFIELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DENTALS OF MODIFICATIONS
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



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MODIFICATION DRAWING



REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 102 943127 (10035042)

131 MANOR RD.
GUILFORD, CT 06437

SITE NUMBER:
806361

POD NUMBER: 20-70444
DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 10/13/2020

SHEET TITLE:
MODIFICATION CHECKLIST

MI-01

Exhibit F



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

AT&T Existing Facility

Site ID: 806361 / CTV2030

Guilford Central
131 Manor Road
Guilford, Connecticut 06437

March 24, 2021

EBI Project Number: 6221001218

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	10.58%

March 24, 2021

Emissions Analysis for Site: 806361 / CTV2030 - Guilford Central

EBI Consulting was directed to analyze the proposed AT&T facility located at **131 Manor Road** in **Guilford, Connecticut** for the purpose of determining whether the emissions from the Proposed AT&T 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 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report 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 AT&T Wireless antenna facility located at 131 Manor Road in Guilford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T 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, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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 all calculations, all equipment was calculated using the following assumptions:

- 1) 4 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 2) 4 LTE FN channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 3) 2 UMTS channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 4) 4 LTE / 5G channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 6) 4 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 7) 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.
- 8) 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, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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.
 - 9) The antennas used in this modeling are the Powerwave 7770 for the 850 MHz channel(s), the CCI OPA65R-BU6DA for the 700 MHz / 1900 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2100 MHz channel(s) in Sector A, the Powerwave 7770 for the 850 MHz channel(s), the CCI OPA65R-BU6DA for the 700 MHz / 1900 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2100 MHz channel(s) in Sector B, the Powerwave 7770 for the 850 MHz channel(s), the CCI OPA65R-BU6DA for the 700 MHz / 1900 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2100 MHz channel(s) in Sector C. There is also a CCI HPA-65R-BUU-H6 antenna in Sector A, B, and C. However, this antenna is dormant and not transmitting any frequencies. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
 - 10) The antenna mounting height centerline of the proposed antennas is 142 feet above ground level (AGL).
 - 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
 - 12) All calculations were done with respect to uncontrolled / general population threshold limits.

AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770
Frequency Bands:	850 MHz	Frequency Bands:	850 MHz	Frequency Bands:	850 MHz
Gain:	11.5 dBd	Gain:	11.5 dBd	Gain:	11.5 dBd
Height (AGL):	142 feet	Height (AGL):	142 feet	Height (AGL):	142 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	80 Watts	Total TX Power (W):	80 Watts	Total TX Power (W):	80 Watts
ERP (W):	1,130.03	ERP (W):	1,130.03	ERP (W):	1,130.03
Antenna A1 MPE %:	0.39%	Antenna B1 MPE %:	0.39%	Antenna C1 MPE %:	0.39%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	CCI HPA-65R-BUU-H6	Make / Model:	CCI HPA-65R-BUU-H6	Make / Model:	CCI HPA-65R-BUU-H6
Frequency Bands:	Dormant	Frequency Bands:	Dormant	Frequency Bands:	Dormant
Gain:	N/A	Gain:	N/A	Gain:	N/A
Height (AGL):	142	Height (AGL):	142	Height (AGL):	142
Channel Count:	N/A	Channel Count:	N/A	Channel Count:	N/A
Total TX Power (W):	0	Total TX Power (W):	0	Total TX Power (W):	0
ERP (W):	0	ERP (W):	0	ERP (W):	0
Antenna A2 MPE %:	0	Antenna B2 MPE %:	0	Antenna C2 MPE %:	0
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	CCI OPA65R-BU6DA	Make / Model:	CCI OPA65R-BU6DA	Make / Model:	CCI OPA65R-BU6DA
Frequency Bands:	700 MHz / 1900 MHz	Frequency Bands:	700 MHz / 1900 MHz	Frequency Bands:	700 MHz / 1900 MHz
Gain:	12.15 dBd / 15.95 dBd	Gain:	12.15 dBd / 15.95 dBd	Gain:	12.15 dBd / 15.95 dBd
Height (AGL):	142 feet	Height (AGL):	142 feet	Height (AGL):	142 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	8,921.74	ERP (W):	8,921.74	ERP (W):	8,921.74
Antenna A3 MPE %:	2.32%	Antenna B3 MPE %:	2.32%	Antenna C3 MPE %:	2.32%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA
Frequency Bands:	700 MHz / 850 MHz / 2100 MHz	Frequency Bands:	700 MHz / 850 MHz / 2100 MHz	Frequency Bands:	700 MHz / 850 MHz / 2100 MHz
Gain:	11.85 dBd / 12.45 dBd / 15.95 dBd	Gain:	11.85 dBd / 12.45 dBd / 15.95 dBd	Gain:	11.85 dBd / 12.45 dBd / 15.95 dBd
Height (AGL):	142 feet	Height (AGL):	142 feet	Height (AGL):	142 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	480 Watts	Total TX Power (W):	480 Watts	Total TX Power (W):	480 Watts
ERP (W):	11,559.22	ERP (W):	11,559.22	ERP (W):	11,559.22
Antenna A4 MPE %:	3.21%	Antenna B4 MPE %:	3.21%	Antenna C4 MPE %:	3.21%

Site Composite MPE %	
Carrier	MPE %
AT&T (Max at Sector A):	5.91%
T-Mobile	2.47%
Verizon	2.2%
Site Total MPE % :	10.58%

AT&T MPE % Per Sector	
AT&T Sector A Total:	5.91%
AT&T Sector B Total:	5.91%
AT&T Sector C Total:	5.91%
Site Total MPE % :	10.58%

AT&T Maximum MPE Power Values (Sector A)

AT&T Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS	2	565.02	142.0	2.20	850 MHz UMTS	567	0.39%
AT&T 700 MHz LTE FN	4	656.24	142.0	5.10	700 MHz LTE FN	467	1.09%
AT&T 1900 MHz LTE	4	1574.20	142.0	12.24	1900 MHz LTE	1000	1.22%
AT&T 700 MHz LTE	4	612.43	142.0	4.76	700 MHz LTE	467	1.02%
AT&T 850 MHz LTE / 5G	4	703.17	142.0	5.47	850 MHz LTE / 5G	567	0.96%
AT&T 2100 MHz LTE	4	1574.20	142.0	12.24	2100 MHz LTE	1000	1.22%
						Total:	5.91%

• 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 AT&T 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:

AT&T Sector	Power Density Value (%)
Sector A:	5.91%
Sector B:	5.91%
Sector C:	5.91%
AT&T Maximum MPE % (Sector A):	5.91%
Site Total:	10.58%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **10.58%** 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.

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 G

Exhibit G

Deborah Chase

From: Deborah Chase
Sent: Wednesday, April 7, 2021 10:17 AM
To: 'keith.bishop@bishoporchards.com'
Subject: 131 MANOR ROAD GUILFORD CT 064347 EM APPLICATION CROWN ATT 806361
Attachments: 131 MANOR ROAD GUILFORD CT 06437 EM APPLICATION Crown ATT 806361.pdf

Dear BW Bishop & Sons Inc.,

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, April 7, 2021.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable.

If you could kindly confirm receipt.

Thank you.

Deborah Chase

Senior Project Coordinator & Analyst

Mobile: 860-490-8839



🌳 Save a tree. Refuse. Reduce. Reuse. Recycle.

Deborah Chase

From: Deborah Chase
Sent: Wednesday, April 7, 2021 10:15 AM
To: 'hoeym@ci.guilford.ct.us'
Subject: 131 Manor Road, Guilford CT 06437 EM APPLICATION CROWN ATT 806361
Attachments: 131 MANOR ROAD GUILFORD CT 06437 EM APPLICATION Crown ATT 806361.pdf

Dear First Selectman Hoey,

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, April 7, 2021.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable.

If you could kindly confirm receipt.

Thank you.

Deborah Chase

Senior Project Coordinator & Analyst

Mobile: 860-490-8839



🌳 Save a tree. Refuse. Reduce. Reuse. Recycle.

Deborah Chase

From: Deborah Chase
Sent: Wednesday, April 7, 2021 10:15 AM
To: 'mannixe@ci.guilford.ct.us'
Subject: 131 Manor Road, Guilford CT 06437 EM APPLICATION CROWN ATT 806361
Attachments: 131 MANOR ROAD GUILFORD CT 06437 EM APPLICATION Crown ATT 806361.pdf

Dear Ms. Mannix

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, April 7, 2021.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable.

If you could kindly confirm receipt.

Thank you.

Deborah Chase

Senior Project Coordinator & Analyst

Mobile: 860-490-8839



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Deborah Chase

From: Deborah Chase
Sent: Wednesday, April 7, 2021 10:24 AM
To: 'Zsamba, Anne Marie'
Cc: 'Denise (denise@northeastitesolutions.com)'
Subject: 131 MANOR ROAD GUILFORD CT 06437 EM APPLICATION CROWN ATT 806361
Attachments: 131 MANOR ROAD GUILFORD CT 06437 EM APPLICATION Crown ATT 806361.pdf

Dear Anne Marie

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, April 7, 2021.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable.

If you could kindly confirm receipt.

Thank you.

Deborah Chase

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