Transcend Wireless

10 Industrial Ave,
Suite 3
Mahwah NJ 07430

Phone: 201.684.0055
Fax: 201.684.0066

12/3/2021

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

RE: Notice of Exempt Modification
1 Eagle Hill Road, Tolland, CT 06084
Latitude: 41.87334038
Longitude: -72.33830201
T-Mobile/Sprint Site#: CT11725A-CT03XC207

Dear Ms. Bachman:

T-Mobile/Sprint currently maintains six (6) antennas at the 132-foot level of the existing 165-foot monopole at 1 Eagle Hill Road, Tolland, CT. The 165-foot monopole tower is owned and operated by American Tower Corporation. The property is owned by the Town of Tolland. T-Mobile/Sprint now intends to remove the six (6) existing antennas and add nine (9) new 600/700/1900/2100/2500 MHz antennas. The new antennas will be installed at the same 132-foot level of the tower and will support 5G services.

**Planned Modifications:**
**Tower:**
Remove:
(3) 1 ¼' Hybrid Cables

Remove:
(3) APXVTM14-ALU-I20 Antennas
(3) NNVV-65B-R4 Antennas
(3) 1900 MHZ 4X45 RRH
(3) TD-RRH8X20-25 RRH
(6) 800 MHz 2X50W RRH

Install New:
(3) Ericsson AIR6449 B41 Antennas
(3) Commscope VV-65A-R1 Antennas
(3) RFS APXVAARR24_43-U-NA20 Antennas
(3) Ericsson Radio 4460 B25+B66 RRU
(3) Ericsson Radio 4480 B71+B85A RRU
(2) 1.99 6/24 4 AWG Hybrid Cable

**Ground:**
Install New:
(1) Enclosure 6160 Cabinet
(1) B160 Battery Cabinet
(3) BB6648
(1) DUG20
(1) CSR IXRE V2

This tower was originally approved on January 5, 1989 in Docket No. 100. T-Mobile/Sprint has been approved for subsequent modifications at their facility.

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.SA. § 16-SOj-73, a copy of this letter is being sent to Temporary Town Manager Lisa Hancock, Elected Official, and David Corcoran, Acting Zoning Enforcement Official, as well as the tower and property 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/Sprint 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).

Sincerely,

**Dave DePinto**
Transcend Wireless
Cell: 973-907-3243
Email: ddepinto@transcendwireless.com

Attachments
cc: Lisa Hancock – Temporary Town Manager of the Town of Tolland
David Corcoran– Acting Zoning Official
American Tower Corporation – Tower Owner
Town of Tolland- Property Owner

Transcend Wireless

DePinto, Dave <ddepinto@transcendwireless.com>

# UPS Delivery Notification, Tracking Number 1ZV257424291543556

**UPS** <pkginfo@ups.com>
To: DDEPINTO@transcendwireless.com

Tue, Dec 7, 2021 at 2:25 PM

**Hello, your package has been delivered.**

**Delivery Date:** Tuesday, 12/07/2021
**Delivery Time:** 2:25 PM
**Left At:** OFFICE
**Signed by:** PAGAN

**TRANSCEND WIRELESS**

| | |
|---|---|
| **Tracking Number:** | 1ZV257424291543556 |
| **Ship To:** | TOWN OF TOLLAND- ZONING DEPARTMENT<br>21 TOLLAND GREEN<br>TOLLAND, CT 06084<br>US |
| **Number of Packages:** | 1 |
| **UPS Service:** | UPS Ground |
| **Package Weight:** | 1.8 LBS |
| **Reference Number:** | CT11725A-CT03XC207 |

Download the UPS mobile app

For Questions, Visit Our Help and Support Center

Transcend Wireless

DePinto, Dave <ddepinto@transcendwireless.com>

# UPS Delivery Notification, Tracking Number 1ZV257424292921547

**UPS** <pkginfo@ups.com>
To: DDEPINTO@transcendwireless.com

Tue, Dec 7, 2021 at 2:25 PM

**Hello, your package has been delivered.**

**Delivery Date:** Tuesday, 12/07/2021
**Delivery Time:** 2:25 PM
**Left At:** OFFICE
**Signed by:** PAGAN

**TRANSCEND WIRELESS**

| | |
|---|---|
| **Tracking Number:** | 1ZV257424292921547 |
| **Ship To:** | TOWN OF TOLLAND<br>21 TOLLAND GREEN<br>TOLLAND, CT 06084<br>US |
| **Number of Packages:** | 1 |
| **UPS Service:** | UPS Ground |
| **Package Weight:** | 1.8 LBS |
| **Reference Number:** | CT11725A-CT03XC207 |

Download the UPS mobile app

For Questions, Visit Our Help and Support Center

Transcend Wireless

DePinto, Dave <ddepinto@transcendwireless.com>

# UPS Delivery Notification, Tracking Number 1ZV257424293969567

**UPS** <pkginfo@ups.com>
To: DDEPINTO@transcendwireless.com

Wed, Dec 8, 2021 at 12:22 PM

**Hello, your package has been delivered.**

**Delivery Date:** Wednesday, 12/08/2021
**Delivery Time:** 12:21 PM
**Left At:** FRONT DESK
**Signed by:** STACEY

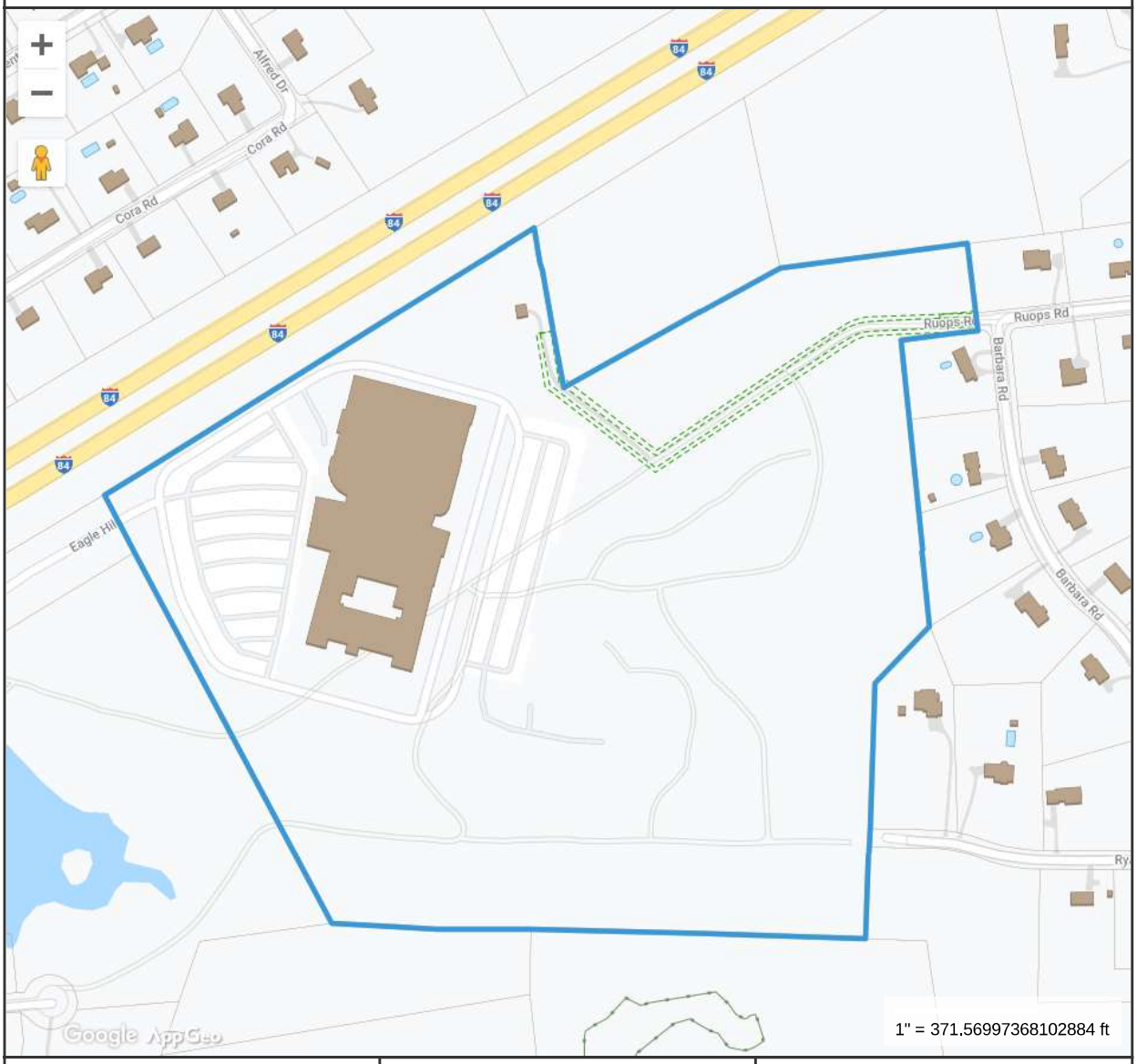
**TRANSCEND WIRELESS**

| | |
|---|---|
| **Tracking Number:** | 1ZV257424293969567 |
| **Ship To:** | AMERICAN TOWER CORP<br>3500 REGENCY PARKWAY<br>SUITE 100<br>CARY, NC 27518<br>US |
| **Number of Packages:** | 1 |
| **UPS Service:** | UPS Ground |
| **Package Weight:** | 1.8 LBS |
| **Reference Number:** | CT11725A-CT03XC207 |

Download the UPS mobile app

Review the UPS Privacy Notice

For Questions, Visit Our Help and Support Center




**Property Information**

| | |
|---|---|
| **Property ID** | 23/E/051 |
| **Location** | 1 EAGLE HILL |
| **Owner** | TOWN OF TOLLAND |

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of Tolland, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 25, 2021
Data updated daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

# 1 EAGLE HILL

| | | | |
|---|---|---|---|
| **Location** | 1 EAGLE HILL | **Mblu** | 23/ E/ 51/00 / |
| **Acct#** | 6783 | **Owner** | TOWN OF TOLLAND |
| **Assessment** | $47,410,700 | **Appraisal** | $67,729,400 |
| **PID** | 3893 | **Building Count** | 1 |

## Current Value

| Appraisal | | | |
|---|---|---|---|
| **Valuation Year** | **Improvements** | **Land** | **Total** |
| 2019 | $64,952,400 | $2,777,000 | $67,729,400 |
| **Assessment** | | | |
| **Valuation Year** | **Improvements** | **Land** | **Total** |
| 2019 | $45,466,800 | $1,943,900 | $47,410,700 |

## Owner of Record

| | | | |
|---|---|---|---|
| **Owner** | TOWN OF TOLLAND | **Sale Price** | $850,000 |
| **Co-Owner** | | **Certificate** | |
| **Address** | 21 TOLLAND GREEN<br>TOLLAND, CT 06084-0000 | **Book & Page** | 0819/0081 |
| | | **Sale Date** | 04/24/2003 |
| | | **Instrument** | 15 |

## Ownership History

| Ownership History | | | | | |
|---|---|---|---|---|---|
| **Owner** | **Sale Price** | **Certificate** | **Book & Page** | **Instrument** | **Sale Date** |

| | | | | | |
|---|---|---|---|---|---|
| TOWN OF TOLLAND | $850,000 | | 0819/0081 | 15 | 04/24/2003 |
| RUOPS ALBERT J TRUSTEE U TR | $0 | | 0396/0288 | 29 | 06/16/1960 |

## Building Information

### Building 1 : Section 1

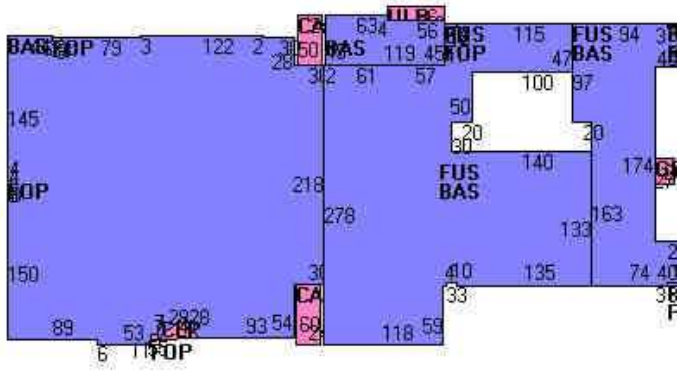
**Year Built:** 2005
**Living Area:** 258,330
**Replacement Cost:** $69,099,782
**Building Percent Good:** 90
**Replacement Cost Less Depreciation:** $62,189,800

| Building Attributes | |
|---|---|
| **Field** | **Description** |
| Style: | Schools-Public |
| Model | Commercial |
| Grade | Excellent |
| Stories: | 2 |
| Occupancy | 1.00 |
| Ext Wall 1 | Brick Veneer |
| Exterior Wall 2 | Reinforc Concr |
| Roof Structure | Flat |
| Roof Cover | Tar & Gravel |
| Interior Wall 1 | Minim/Masonry |
| Interior Wall 2 | Drywall/Sheet |
| Interior Floor 1 | Vinyl/Asphalt |
| Interior Floor 2 | |
| Heating Fuel | Oil |
| Heating Type | Hot Water |
| AC Type | Vapor Cooler |
| Struct Class | |

### Building Photo

(http://images.vgsi.com/photos/TollandCTPhotos//\00\00\69\90.jpg)

### Building Layout




(http://images.vgsi.com/photos/TollandCTPhotos//Sketches/3893_3931.jpg

| | |
|---|---|
| Bldg Use | Municipal |
| Total Rooms | 70 |
| Total Bedrms | 0 |
| Total Baths | 0 |
| Solar | |
| 1st Floor Use: | 901C |
| Heat/AC | Heat/AC Split |
| Frame Type | Fireprf Steel |
| Baths/Plumbing | Average |
| Ceiling/Wall | Sus Ceil Min W |
| Rooms/Prtns | Above Average |
| Wall Height | 16.00 |
| % Comn Wall | |

**Building Sub-Areas (sq ft)** Legend

| Code | Description | Gross Area | Living Area |
|---|---|---|---|
| BAS | Main Floor | 177,914 | 177,914 |
| FUS | Finished Upper Story | 80,416 | 80,416 |
| CAN | Canopy | 2,640 | 0 |
| CLP | Covered Loading Platform | 380 | 0 |
| FOP | Open Porch | 202 | 0 |
| GRN | Green House | 540 | 0 |
| ULP | Loading Platform | 728 | 0 |
| | | 262,820 | 258,330 |

## Extra Features

**Extra Features** Legend

| Code | Description | Size | Value | Bldg # |
|---|---|---|---|---|
| SPR1 | SPRINKLERS-WET | 248306.00 S.F. | $178,800 | 1 |
| ELV | ELEVATOR | 1.00 UNITS | $24,300 | 1 |

## Land

### Land Use

| | |
|---|---|
| **Use Code** | 901C |
| **Description** | Municipal |
| **Zone** | RDD |
| **Neighborhood** | 350C |
| **Alt Land Appr** | No |
| **Category** | |

### Land Line Valuation

| | |
|---|---|
| **Size (Acres)** | 68.5 |
| **Frontage** | 1351 |
| **Depth** | |
| **Assessed Value** | $1,943,900 |
| **Appraised Value** | $2,777,000 |

## Outbuildings

| Outbuildings | | | | | | Legend |
|---|---|---|---|---|---|---|
| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
| PAV | PAVING | A | Asphalt | 480000.00 S.F. | $645,100 | 1 |
| FN | FENCE | CL4 | 4' Chain Link | 7500.00 L.F. | $50,400 | 1 |
| PLS | POLES | L1 | Lighting | 48.00 UNITS | $121,000 | 1 |
| BALL | FIELD HARD | | TYPICAL | 1.00 UNITS | $702,000 | 1 |
| TRL1 | TRAILER | A | Storage | 640.00 S.F. | $9,600 | 1 |
| FGR | GARAGE | 1F | 1Story Frame | 720.00 S.F. | $16,800 | 1 |
| FGR | GARAGE | 1F | 1Story Frame | 720.00 S.F. | $16,800 | 1 |
| SHD | SHED | 1LT | 1 Stry Lean To | 1024.00 S.F. | $9,200 | 1 |
| BALL | FIELD HARD | | TYPICAL | 2.00 UNITS | $650,000 | 1 |
| AF | ATHLETIC FLD | FB | Football | 1.00 UNITS | $126,000 | 1 |
| AF | ATHLETIC FLD | RT | Running Trck | 1.00 UNITS | $210,000 | 1 |
| SHD | SHED | 1F | 1 Stry Frame | 160.00 S.F. | $2,600 | 1 |

## Valuation History

| Appraisal | | | |
|---|---|---|---|
| Valuation Year | Improvements | Land | Total |
| 4000 | $64,952,400 | $2,777,000 | $67,729,400 |
| 2020 | $64,952,400 | $2,777,000 | $67,729,400 |
| 2019 | $64,952,400 | $2,777,000 | $67,729,400 |

| Assessment | | | |
|---|---|---|---|
| Valuation Year | Improvements | Land | Total |
| 4000 | $45,466,800 | $1,943,900 | $47,410,700 |
| 2020 | $45,466,800 | $1,943,900 | $47,410,700 |
| 2019 | $45,466,800 | $1,943,900 | $47,410,700 |

| | | |
|---|---|---|
| DOCKET NO. 100 - An application of SNET Cellular, Inc., for a Certificate of Environmental Compatibility and Public Need for cellular telephone antennas and associated equipment in the Town of Tolland, Connecticut. | : | CONNECTICUT SITING COUNCIL |
| | : | January 5, 1989 |

## DECISION AND ORDER

Pursuant to the foregoing Opinion, the Connecticut Siting Council finds that the effects associated with the construction and operation of a cellular telephone monopole structure at the proposed Tolland site, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife; are not significant either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to SNET Cellular, Inc., for the construction, operation, and maintenance of a cellular telephone tower site and associated equipment at the proposed Tolland site in Tolland, Connecticut.

The alternative Tolland site is hereby denied.

The facility shall be constructed, operated, and maintained as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole tower no taller than necessary to provide the proposed service, and in no event shall the tower structure exceed a total height of 167 feet, including antennas.

2. The facility shall be constructed in accordance with the State of Connecticut Basic Building Code.

3. Unless necessary to comply with future requirements of the Federal Aviation Administration, no lights shall be installed on this tower.

4. The Certificate Holder shall prepare a development and management (D&M) plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall include detailed plans for erosion and sediment control along the access road and at the tower site, plans for permanent evergreen screening along the outside perimeter of the eight-foot fence surrounding the site, and plans for loaming and seeding the site and sides of the access road following completion of construction. The access road shall be constructed in a manner to minimize erosion and tree clearing as much as possible.

5. The Certificate Holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application are added to this facility.

6. The Certificate Holder or its successor shall permit public or private entities to share space on the tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

7. If this facility does not provide, or permanently ceases to provide, cellular service following the completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council and a Certificate granted before such new use is made.

8. The Certificate Holder shall comply with any future radio frequency (RF) standard, promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision and Order.

Pursuant to Section 16-50p, we hereby direct that a copy of the Decision and Order be served on each person listed below. A notice of issuance shall be published in the Manchester Journal Enquirer.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with section 16-50j-17 of the Regulations of State Agencies.

The parties or intervenors to this proceeding are:

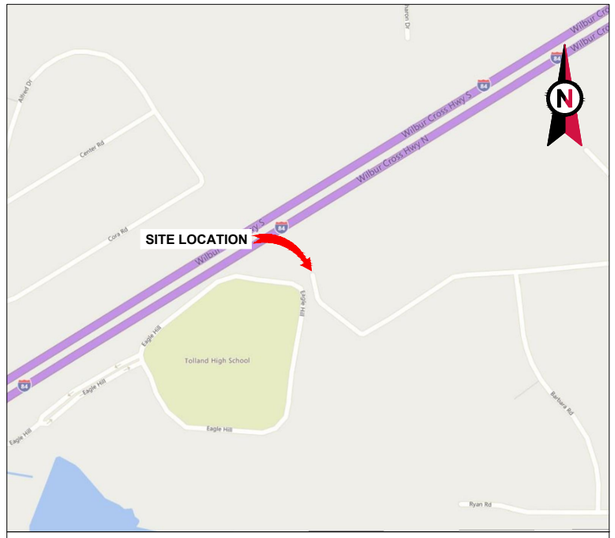
| | STATUS HOLDER | REPRESENTATIVE |
|---|---|---|
| Party<br>\| X \| | SNET Cellular, Inc.<br>555 Long Wharf Drive<br>New Haven, CT 06506 | SNET Cellular, Inc.<br>c/o Peter J. Tyrrell<br>Senior Attorney<br>227 Church Street<br>Room 1021<br>New Haven, CT 06506<br>(203) 771-7381 |
| Party<br>\| \|<br><br>Intervenor<br>\| X \| | Metro Mobile CTS of Hartford, Inc. | Jennifer Young Gaudet<br>Byrne, Slater, Sandler Shulman & Rouse, P.C.<br>330 Main Street<br>P.O. Box 3216<br>Hartford, CT 06103<br>(203) 525-4700 |

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 100 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 5th day of January, 1989.

| Council Members | Vote Cast |
|---|---|
| Gloria Dibble Pond<br>Chairperson | Yes |
| Commissioner Peter Boucher<br>Designee: Patricia Austin | Abstain |
| Commissioner Leslie Carothers<br>Designee: Brian Emerick | Yes |
| Mortimer A. Gelston | Yes |
| Harry E. Covey | Abstain |
| Daniel P. Lynch, Jr. | Yes |
| Paulann H. Sheets | Absent |
| William H. Smith | Yes |
| Colin C. Tait | Abstain |




VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: TOLLAND CT
ATC SITE NUMBER: 302495
T-MOBILE SITE NAME: CT11725A
T-MOBILE SITE NUMBER: CT11725A
SITE ADDRESS: 1 EAGLE HILL
TOLLAND, CT 06084


LOCATION MAP

# T-MOBILE SPRINT RETAIN ANTENNA AMENDMENT PLAN
# 67E5A998E 6160 CONFIGURATION

## COMPLIANCE CODE

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

1. 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC
2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

## UTILITY COMPANIES

POWER COMPANY: CONNECTICUT LIGHT & POWER
PHONE: (800) 322-3223

TELEPHONE COMPANY: FRONTIER COMMUNICATIONS
PHONE: (800) 921-8102

811
Know what's **below.**
**Call** before you dig.

## PROJECT SUMMARY

SITE ADDRESS:

1 EAGLE HILL

TOLLAND, CT 06084

COUNTY: TOLLAND

GEOGRAPHIC COORDINATES:

LATITUDE: 41.87334038

LONGITUDE: -72.33830201

GROUND ELEVATION: 695' AMSL

## PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

T-MOBILE

ENGINEER:

COLLIERS ENGINEERING &
DESIGN CT, P.C.
135 NEW ROAD
MADISON, CT 06443

PROJECT #:
21904320A

PROPERTY OWNER:

TOLLAND CT
56 RUOPS ROAD
TOLLAND, CT 06084

## PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER WORK:
REMOVE (6) ANTENNA(s), (12) RRH(s) AND (3) HYBRID CABLE(s)

INSTALL (9) ANTENNA(s), (6) RRH(s) AND (2) HYBRID CABLE(s)

REMOVE ALL NEXTEL EQUIPMENT AND MOUNTS AT 121' AGL

GROUND WORK:
INSTALL (1) ENCLOSURE 6160 AND (1) B160, (3) BB6648, (1) DUG20 AND (1) CSR IXRE V2

## PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

## PROJECT LOCATION DIRECTIONS

FROM HARTFORD TAKE I-84 E TO EXIT 68. TURN RIGHT ONTO RT 195. AT LIGHT TURN LEFT ON RHODES RD (ABOUT .3 MILES) FOLLOW FOR 2 MILES THEN TURN LEFT ON KATE RD. FOLLOW FOR ABOUT .8 MILES AND TURN LEFT ON ROUPS RD. ACCESS ROAD IS AT THE END.

## SHEET INDEX

| SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
|---|---|---|---|---|
| G-001 | TITLE SHEET | 1 | 10/25/21 | JLK |
| G-002 | GENERAL NOTES | 1 | 10/25/21 | JLK |
| C-101 | DETAILED SITE PLAN | 1 | 10/25/21 | JLK |
| C-201 | TOWER ELEVATION | 1 | 10/25/21 | JLK |
| C-401 | ANTENNA INFORMATION & SCHEDULE | 1 | 10/25/21 | JLK |
| C-501 | CONSTRUCTION DETAILS | 1 | 10/25/21 | JLK |
| E-501 | GROUNDING DETAILS | 1 | 10/25/21 | JLK |
| E-502 | ELECTRICAL UPGRADE DIAGRAM | 1 | 10/25/21 | JLK |
| R-601 | SUPPLEMENTAL | | | |
| R-602 | SUPPLEMENTAL | | | |
| R-603 | SUPPLEMENTAL | | | |
| R-604 | SUPPLEMENTAL | | | |
| R-605 | SUPPLEMENTAL | | | |

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
MADISON
135 New Road
Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | PRELIM | JLK | 08/19/21 |
| 0 | FOR CONSTRUCTION | AMN | 09/20/21 |
| 1 | FOR CONSTRUCTION | AMN | 10/25/21 |
| | | | |
| | | | |

ATC SITE NUMBER:
302495

ATC SITE NAME:
TOLLAND CT

T-MOBILE SITE NAME:
CT11725A

SITE ADDRESS:
1 EAGLE HILL
TOLLAND, CT 06084

SEAL:

C.T. JPC. 0000131

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
| ATC JOB NO: | 13709719_G3 |
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

TITLE SHEET

| SHEET NUMBER: | REVISION: |
|---|---|
| G-001 | 1 |

## GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

## SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

## ELECTRICAL NOTES:

1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

**ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.**

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| A | PRELIM | JLK | 08/19/21 |
| 0 | FOR CONSTRUCTION | AMN | 09/20/21 |
| 1 | FOR CONSTRUCTION | AMN | 10/25/21 |
| | | | |
| | | | |

ATC SITE NUMBER:
302495

ATC SITE NAME:
TOLLAND CT

T-MOBILE SITE NAME:
CT11725A

SITE ADDRESS:
1 EAGLE HILL
TOLLAND, CT 06084

SEAL:

C.T. JPC. 0000131

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
| ATC JOB NO: | 13709719_G3 |
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

GENERAL NOTES

| SHEET NUMBER: | REVISION: |
|---|---|
| G-002 | 1 |

SITE PLAN NOTES:

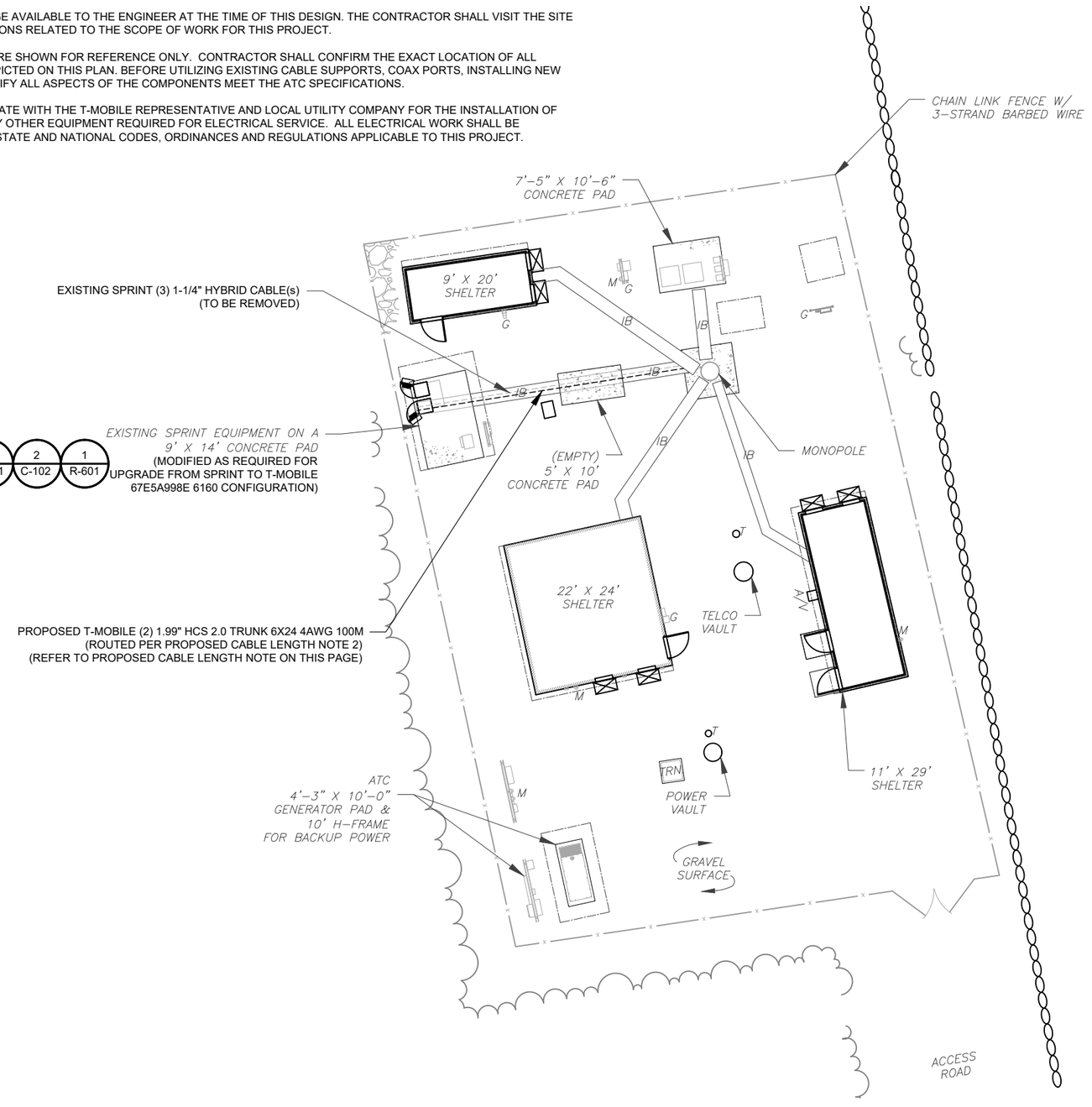
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

## LEGEND

| | |
|---|---|
| ⊗ | GROUNDING TEST WELL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| B | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACLE |
| HH, V | HAND HOLE, VAULT |
| IB | ICE BRIDGE |
| K | KENTROX BOX |
| LC | LIGHTING CONTROL |
| M | METER |
| PB | PULL BOX |
| PP | POWER POLE |
| T | TELCO |
| TRN | TRANSFORMER |
| ——x—— | CHAINLINK FENCE |




**PROPOSED CABLE LENGTH:**

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **205'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

## 1 DETAILED SITE PLAN

GRAPHIC SCALE

20 0 10 20

( IN FEET )
1 UNIT = 20 FEET

N

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MADISON
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Phone: 860.395.0055
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| A | PRELIM | JLK | 08/19/21 |
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| 1 | FOR CONSTRUCTION | AMN | 10/25/21 |
| | | | |
| | | | |

ATC SITE NUMBER:
302495

ATC SITE NAME:
TOLLAND CT

T-MOBILE SITE NAME:
CT11725A

SITE ADDRESS:
1 EAGLE HILL
TOLLAND, CT 06084

SEAL:

C.T. JPC. 0000131

T-Mobile

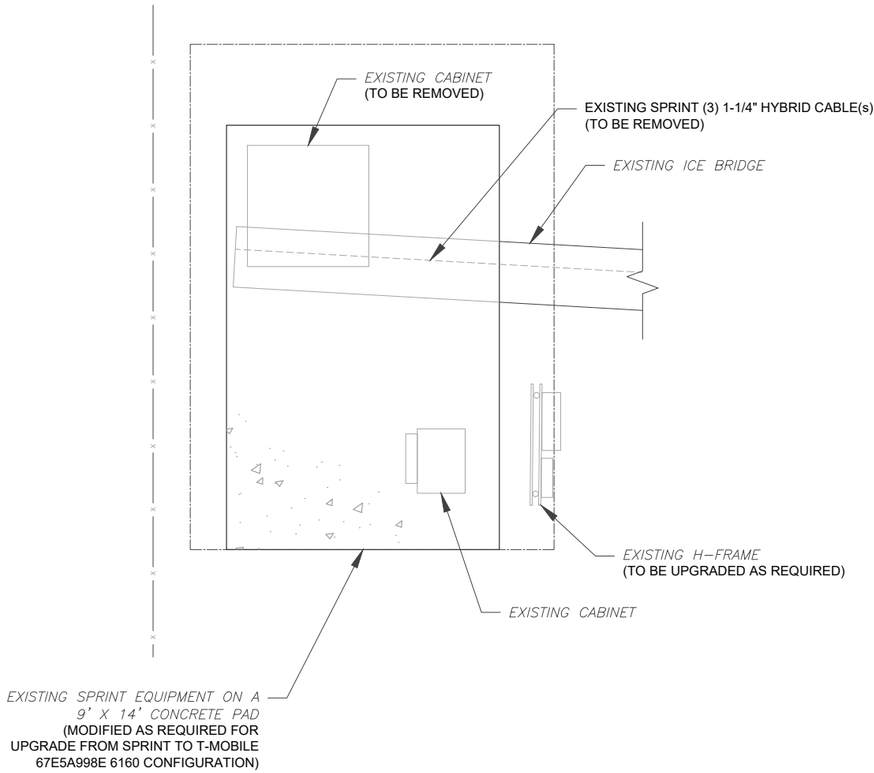
| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
| ATC JOB NO: | 13709719_G3 |
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

DETAILED SITE PLAN

| SHEET NUMBER: | REVISION: |
|---|---|
| C-101 | 1 |

SITE PLAN NOTES:

1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.

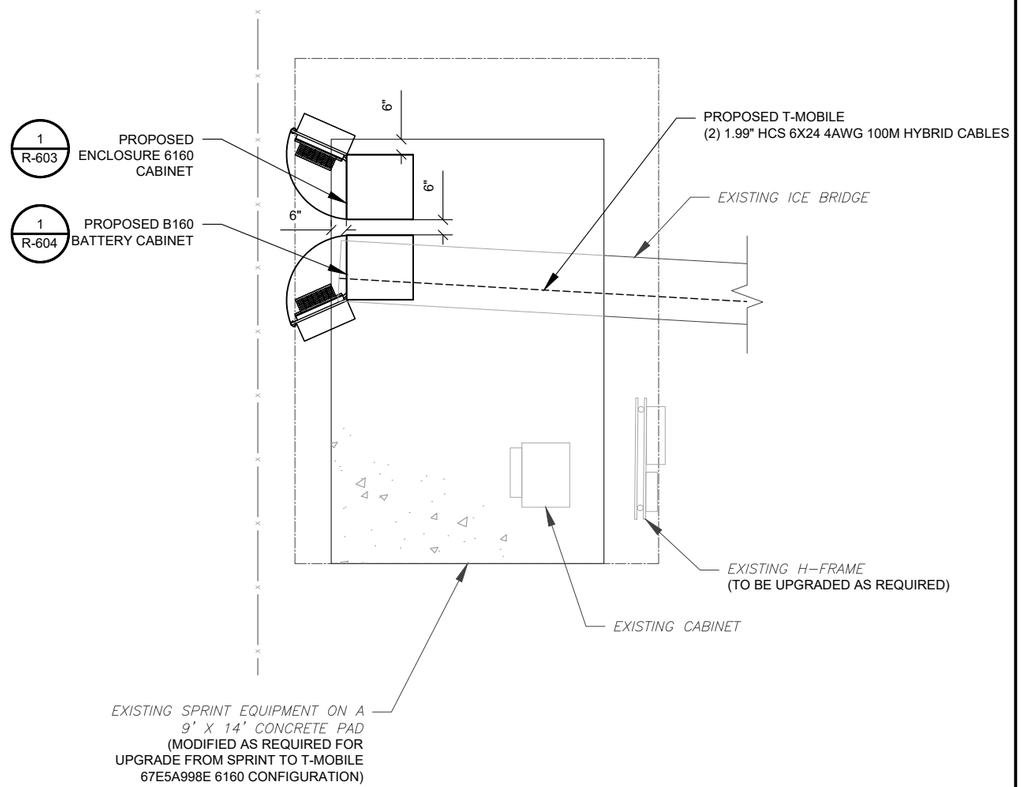



1 EXISTING GROUND EQUIPMENT LAYOUT

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

T-MOBILE CM APPROVAL REQUIRED
BEFORE INSTALLING CABINETS




2 PROPOSED GROUND EQUIPMENT LAYOUT

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

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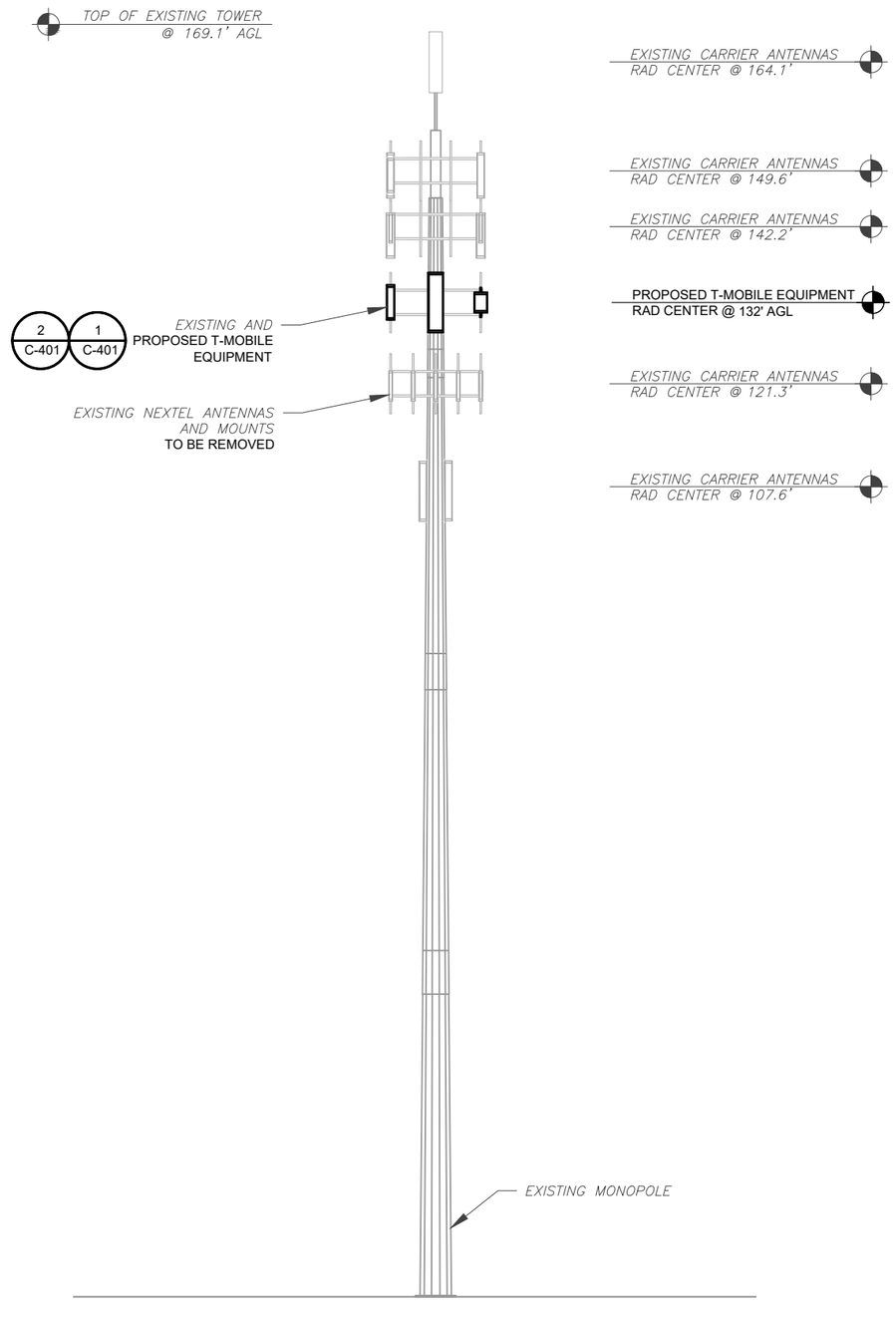
DETAILED GROUND PLAN

| SHEET NUMBER: | REVISION: |
|---|---|
| C-102 | 1 |

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN, DATED 10/20/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.




1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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| A | PRELIM | JLK | 03/30/20 |
| 0 | FOR CONSTRUCTION | AMN | 09/20/21 |
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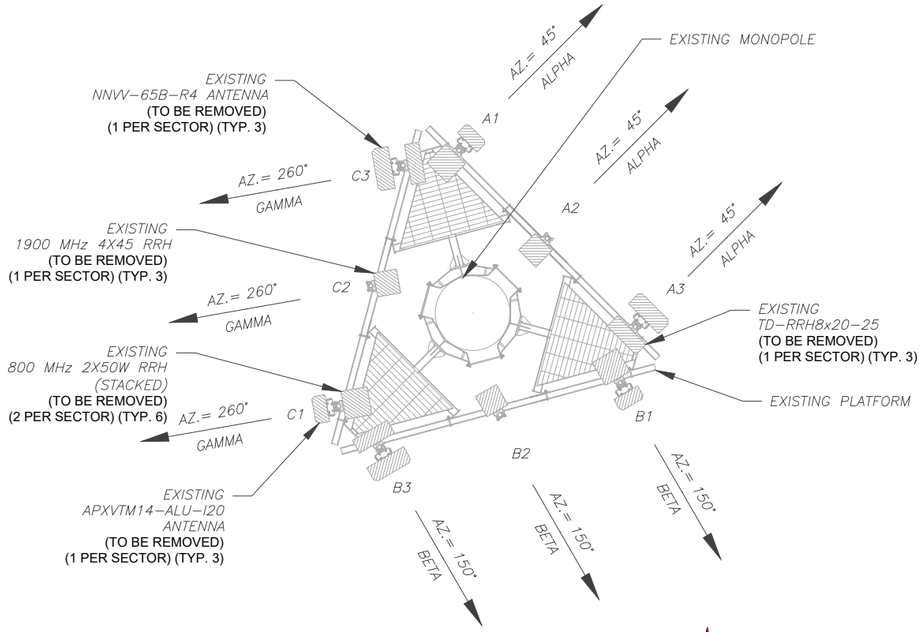
| CUSTOMER #: | CT11725A |

TOWER ELEVATION

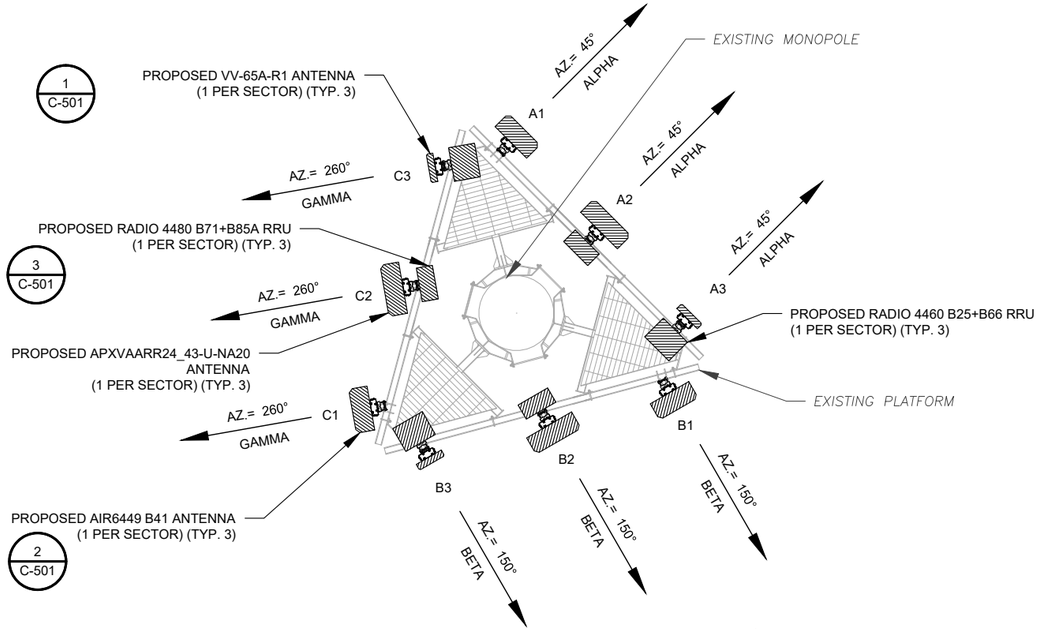
| SHEET NUMBER: | REVISION: |
|---|---|
| C-201 | 1 |




1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN, DATED 10/20/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.




2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

| LOCATION | | | ANTENNA SUMMARY | | | | | NON ANTENNA SUMMARY | |
|---|---|---|---|---|---|---|---|---|---|
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 132' | 45° | A1 | APXVTM14-ALU-I20 | – | – | RMV | (2) 800 MHz 2X50W RRH | RMV |
| | | | A2 | – | – | – | – | 1900 MHz 4X45 RRH | RMV |
| | | | A3 | NNVV-65B-R4 | – | – | RMV | TD-RRH8x20-25 | RMV |
| BETA | 132' | 150° | B1 | APXVTM14-ALU-I20 | – | – | RMV | (2) 800 MHz 2X50W RRH | RMV |
| | | | B2 | – | – | – | – | 1900 MHz 4X45 RRH | RMV |
| | | | B3 | NNVV-65B-R4 | – | – | RMV | TD-RRH8x20-25 | RMV |
| GAMMA | 132' | 260° | C1 | APXVTM14-ALU-I20 | – | – | RMV | (2) 800 MHz 2X50W RRH | RMV |
| | | | C2 | – | – | – | – | 1900 MHz 4X45 RRH | RMV |
| | | | C3 | NNVV-65B-R4 | – | – | RMV | TD-RRH8x20-25 | RMV |

NOTES

1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
*RMN*: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE

| LOCATION | | | ANTENNA SUMMARY | | | | | NON ANTENNA SUMMARY | |
|---|---|---|---|---|---|---|---|---|---|
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 132 | 45° | A1 | AIR6449 B41 | L2500/N2500 | 0/0 | ADD | - | - |
| | | | A2 | APXVAARR24_43-U-NA20 | L700/L600/N600 | 0/0 | ADD | RADIO 4480 B71+B85A | ADD |
| | | | A3 | VV-65A-R1 | L2100/L1900/G1900 | 0/0 | ADD | RADIO 4460 B25+B66 | ADD |
| BETA | 132' | 150° | B1 | AIR6449 B41 | L2500/N2500 | 0/0 | ADD | - | - |
| | | | B2 | APXVAARR24_43-U-NA20 | L700/L600/N600 | 0/0 | ADD | RADIO 4480 B71+B85A | ADD |
| | | | B3 | VV-65A-R1 | L2100/L1900/G1900 | 0/0 | ADD | RADIO 4460 B25+B66 | ADD |
| GAMMA | 132' | 260° | C1 | AIR6449 B41 | L2500/N2500 | 0/0 | ADD | - | - |
| | | | C2 | APXVAARR24_43-U-NA20 | L700/L600/N600 | 0/0 | ADD | RADIO 4480 B71+B85A | ADD |
| | | | C3 | VV-65A-R1 | L2100/L1900/G1900 | 0/0 | ADD | RADIO 4460 B25+B66 | ADD |

| EXISTING FIBER DISTRIBUTION/OVP BOX | | EXISTING CABLING SUMMARY | | |
|---|---|---|---|---|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| – | – | – | (3) 1-1/4" | RMV |

3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION / OVP BOX | | FINAL CABLING SUMMARY | | |
|---|---|---|---|---|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| - | - | - | (2) 1.99" 6/24 4AWG 100M | ADD |

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Phone: 860.395.0055
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DOING BUSINESS AS MASER CONSULTING




| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | PRELIM | JLK | 08/19/21 |
| 0 | FOR CONSTRUCTION | AMN | 09/20/21 |
| 1 | FOR CONSTRUCTION | AMN | 10/25/21 |
| | | | |
| | | | |

ATC SITE NUMBER:
302495

ATC SITE NAME:
TOLLAND CT

T-MOBILE SITE NAME:
CT11725A

SITE ADDRESS:
1 EAGLE HILL
TOLLAND, CT 06084

SEAL:

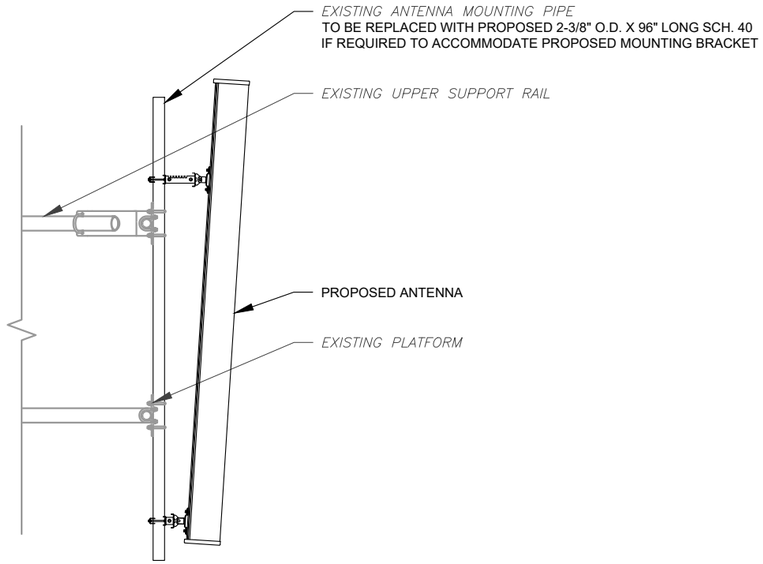
C.T. JPC. 0000131

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
| ATC JOB NO: | 13709719_G3 |
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

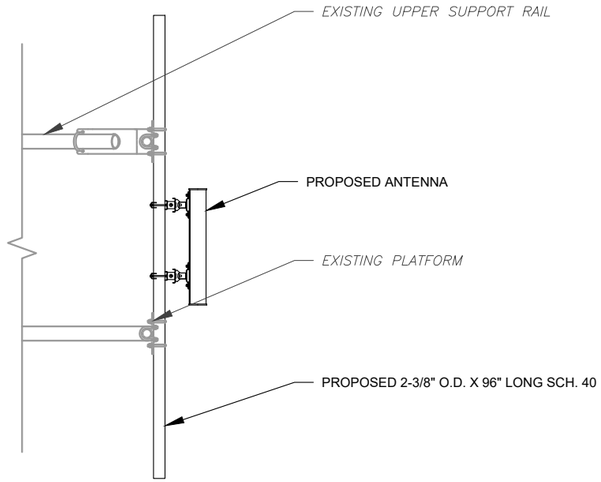
ANTENNA INFORMATION & SCHEDULE

| SHEET NUMBER: | REVISION: |
|---|---|
| C-401 | 1 |



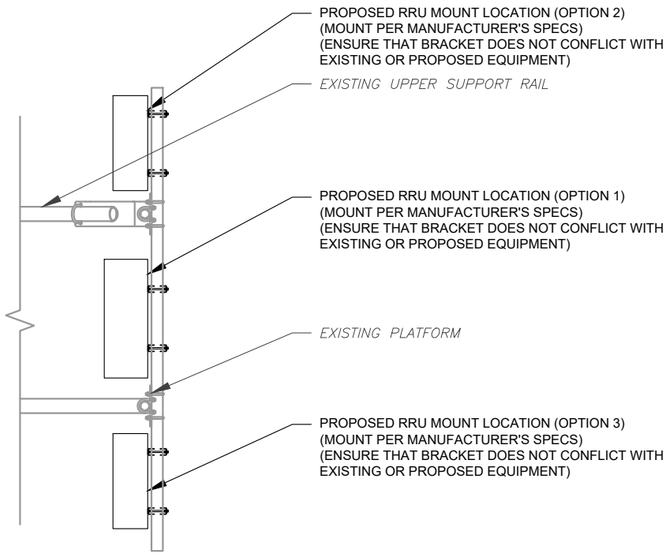

## 1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



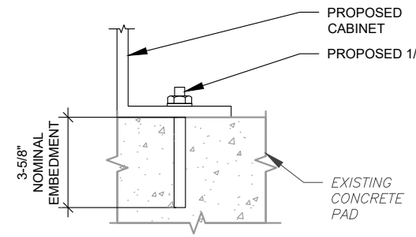

## 2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.




## 3 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

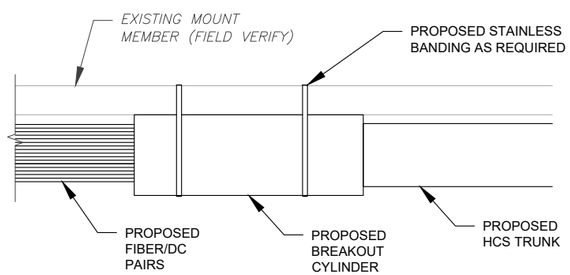



NOTE:

INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

## 4 CABINET ATTACHMENT DETAIL

SCALE: NOT TO SCALE




## 5 PROPOSED BREAKOUT CYLINDER ATTACHMENT

SCALE: N.T.S.

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T-MOBILE SITE NAME:
CT11725A

SITE ADDRESS:
1 EAGLE HILL
TOLLAND, CT 06084

SEAL:

C.T. JPC. 0000131

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
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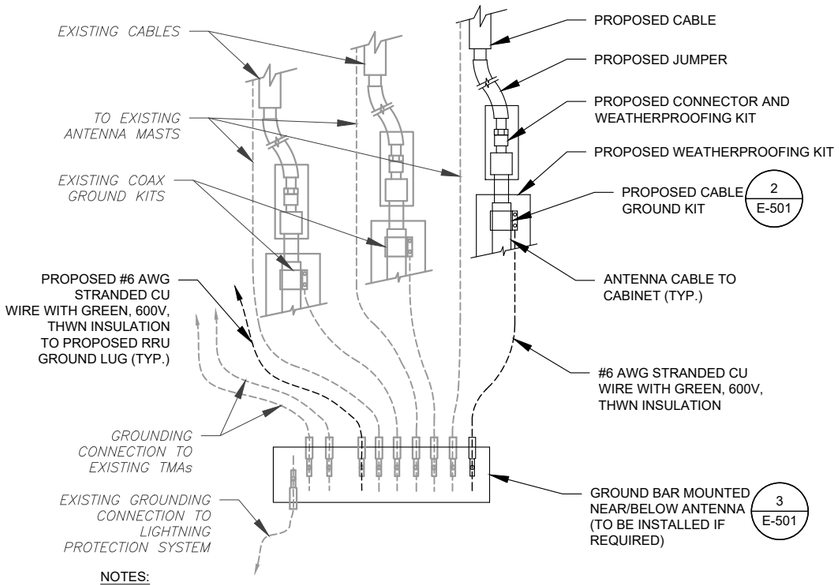
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

CONSTRUCTION DETAILS

| SHEET NUMBER: | REVISION: |
|---|---|
| C-501 | 1 |

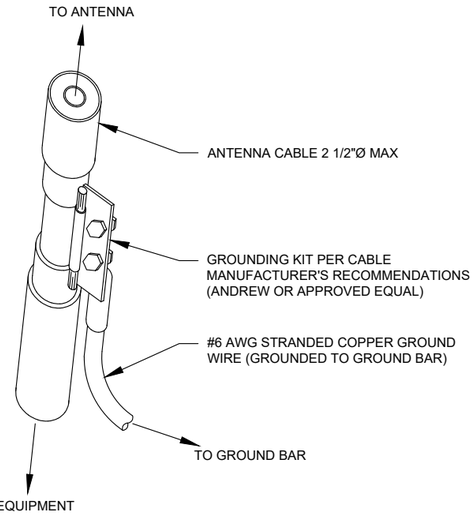



NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

## 1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

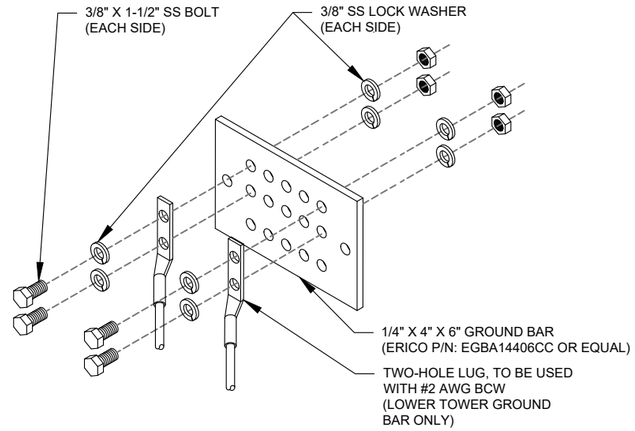



GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

## 2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.




GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

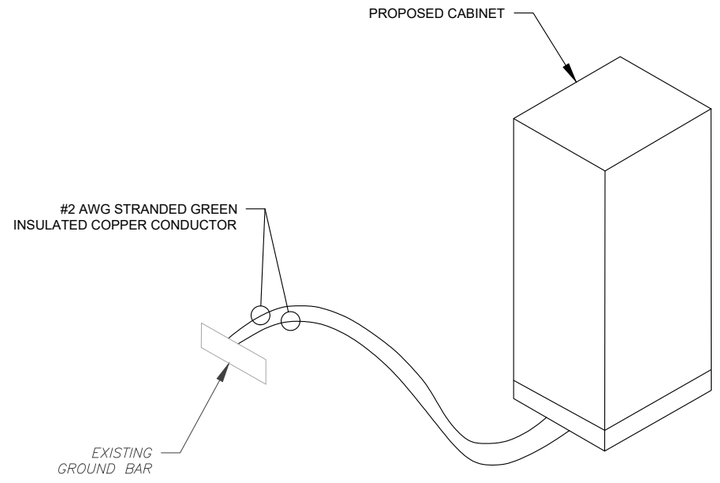
## 3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

ELECTRICAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
2. ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
3. FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS & PRACTICES.

| OCPD SIZE | WIRE SIZE | GROUND SIZE | CONDUIT SIZE |
|---|---|---|---|
| 80A/2P | 2#3 AWG | #8 AWG | 1-1/4" |
| 100/2P | 2#2 AWG | #8 AWG | 1-1/4" |
| 125A/2P | 2#1 AWG | #8 AWG | 1-1/2" |
| 150A/2P | 2#1/0 AWG | #8 AWG | 1-1/2" |




## 4 CABINET GROUNDING DETAIL

SCALE: N.T.S.

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| | | | |

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SITE ADDRESS:
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TOLLAND, CT 06084

SEAL:

C.T. JPC. 0000131

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
| ATC JOB NO: | 13709719_G3 |
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

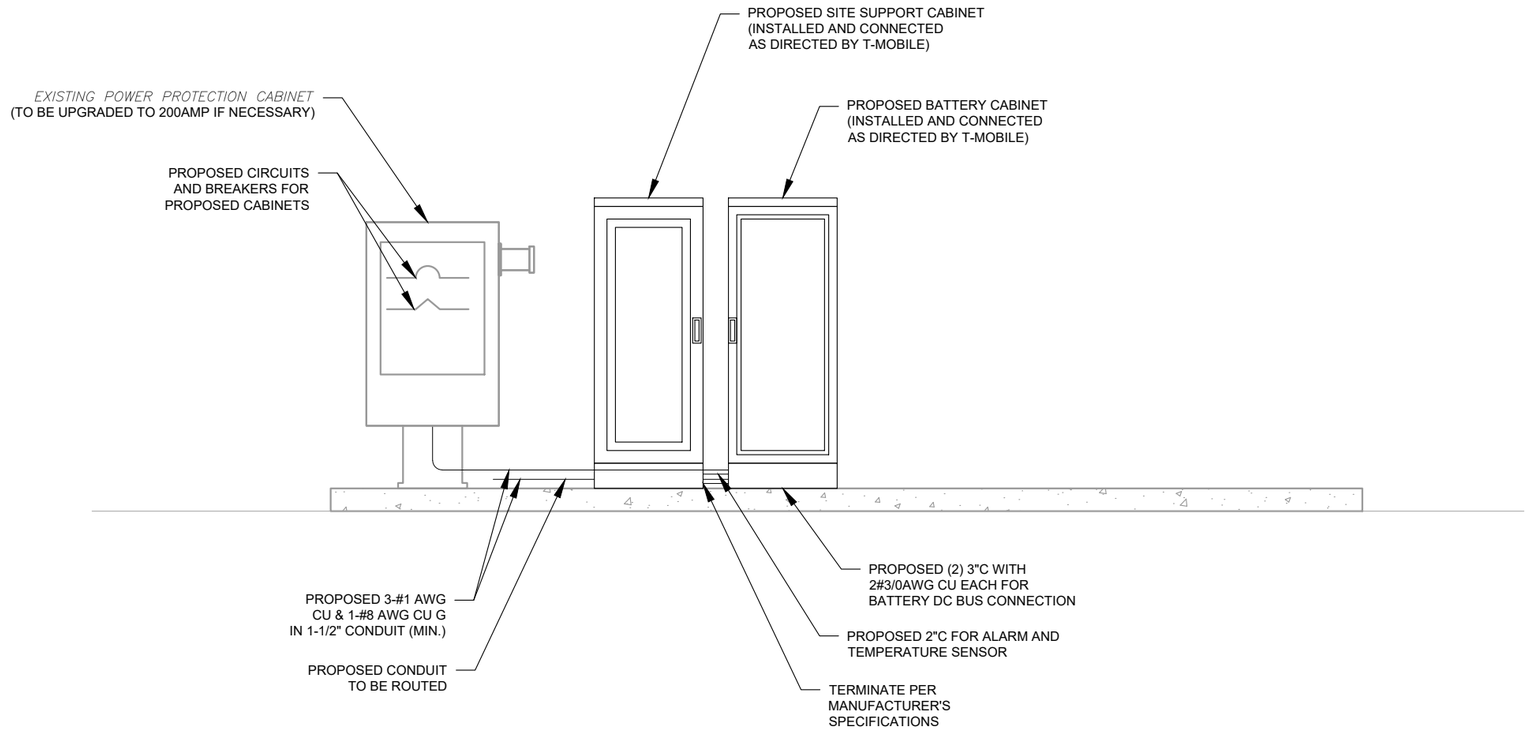
GROUNDING DETAILS

| SHEET NUMBER: | REVISION: |
|---|---|
| E-501 | 1 |

NOTES:
1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTSOF THE 2017 EDITION OF NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE, NAPA, NETA, OSHA, AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH WOULD HAVE JURISDICTION.

2. ALL NEW WIRING SHALL BE WITH THWN-2 OR XHHW-2 INSULATION AND RATED FOR 75 DEG CELSIUS.

3. ALL UNDERGROUND CONDUIT SHALL BE PVC SCH40. ALL ABOVE GROUND CONDUIT SHALL BE PVC SCH80 OR RMC.




1 ELECTRICAL UPGRADE DIAGRAM
SCALE: NOT TO SCALE

ELECTRICAL NOTES:

1. THIS DIAGRAM REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
3. ATC HAS NOT YET VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER.

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T-Mobile

| | |
|---|---|
| DATE DRAWN: | 08/19/21 |
| ATC JOB NO: | 13709719_G3 |
| CUSTOMER ID: | CT11725A |
| CUSTOMER #: | CT11725A |

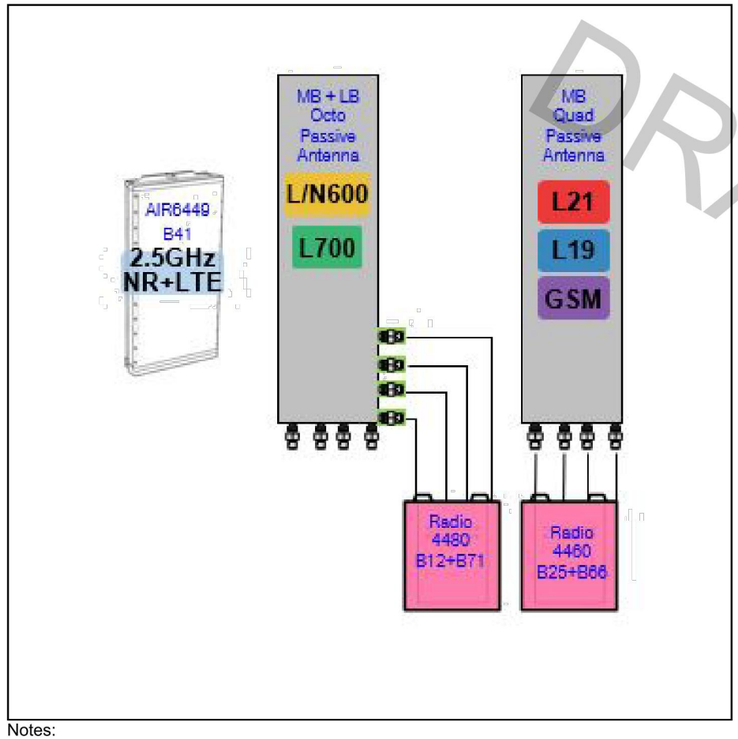
ELECTRICAL UPGRADE DIAGRAM

| SHEET NUMBER: | REVISION: |
|---|---|
| E-502 | 1 |

| Proposed RAN Equipment | | | |
|---|---|---|---|
| Template: 67E5A998E.6160 | | | |
| **Enclosure** | **1** | **2** | **3** |
| **Enclosure Type** | Enclosure 6160 | RBS 6601 | B160 |
| **Baseband** | BB 6648 (L700, L600, N600); BB 6648 (L2500, N2500); BB 6648 (L2100, L1900) | DUG20 (G1900) | |
| **Hybrid Cable System** | Ericsson Hybrid Trunk 6/24 4AWG 100m (x 2) | | |
| **Transport System** | CSR IXRe V2 (Gen2) | | |
| **RAN Scope of Work:** | | | |

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

67E5A998E.JPG



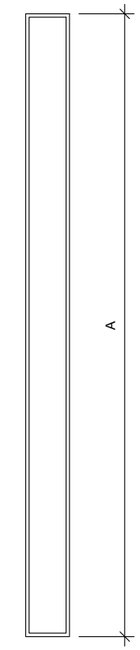

Notes:

2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

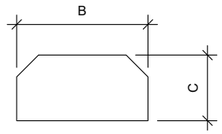
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| R-601 | - |




FRONT VIEW

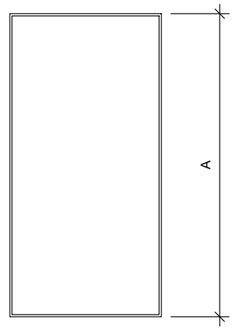



TOP VIEW

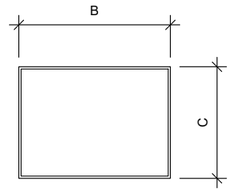
## 1 ANTENNA SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

| ANTENNA SPECIFICATIONS | | | | |
|---|---|---|---|---|
| ANTENNA MODEL | A | B | C | WEIGHT (LBS) |
| AIR6449 B41 | 33.1" | 20.6" | 8.6" | 104.0 |
| VV-65A-R1 | 54.7" | 12.1" | 4.6" | 23.8 |
| APXVAARR24_43-U-NA20 | 95.9" | 24.0" | 8.7" | 128.0 |




FRONT VIEW




TOP VIEW

## 2 RRU SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

| RRU SPECIFICATIONS | | | | |
|---|---|---|---|---|
| RRU MODEL | A | B | C | WEIGHT (LBS) |
| RADIO 4460 B25+B66 | 19.6" | 15.7" | 12.1" | 109.0 |
| RADIO 4480 B71+B85A | 21.8" | 15.7" | 7.5" | 84.0 |



SUPPLEMENTAL

SHEET NUMBER: R-602

REVISION: -

ERICSSON

# Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.

## Preliminary technical specification for Enclosure 6160 AC

| | |
|---|---|
| **CAPACITY** | |
| Rack space user equipment | 19U (19" rack) |
| Hardware capabilities | Power and CPRI support for multi-standard remote radios (RRU or AIR)<br>ERS Baseband and Transport units<br>Li-Ion batteries<br>3PP equipment<br>Additional power feed available as option |
| **MECHANICAL SPECIFICATION** | |
| Weight | 145 kg (excluding active equipment)<br>320 lbs (excluding active equipment) |
| Dimension (H x W x D) | 1600 x 650 x 650 mm (incl. Base frame)<br>63 x 26 x 26 in. (incl. Base frame) |
| Base frame height | 150 mm<br>6 in. |
| Mounting position | Ground |
| Enclosure material | Aluminum |
| Color | Power paint NCS 2002-B |
| Door | Front access |
| Rack type | 19" (IEC 60297-3-100) |
| Locking type | Pad lock or Cylinder |
| **POWER SYSTEM** | |
| Input voltage | 3P+N+PE: 346/200-415/240 VAC<br>2P+N+PE: 208/120-220/127 VAC<br>1P+N+PE: 200-250 VAC |
| Input power | <33kW |
| Output load (-48VDC) | 24kW |
| Total capacity (-48VDC) | 31.5kW |
| AC SPD | Class 2/Type 2 |
| DC SPD | Class 2/Type 2 |
| PSU Slots | 9x |
| Service outlet | Optional |
| Priority load | 8x Circuit Breaker |
| LLVD 1 | 6x Circuit Breaker |
| LLVD 2 | 6x Circuit Breaker |
| CB ratings | 3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A |
| Battery Interface | 2x Circuit Breaker |
| Battery Circuit Breaker rating | 125A 2pol (200A) |
| PSU capacity | 3500W |

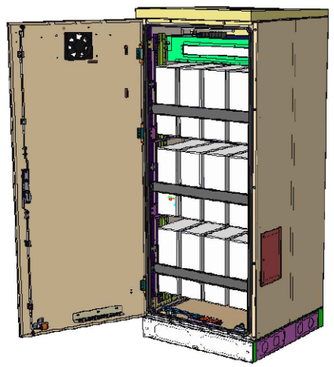
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

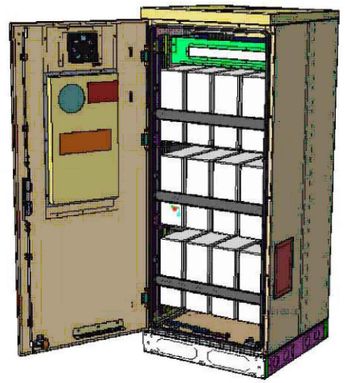
SHEET NUMBER: R-603

REVISION: -

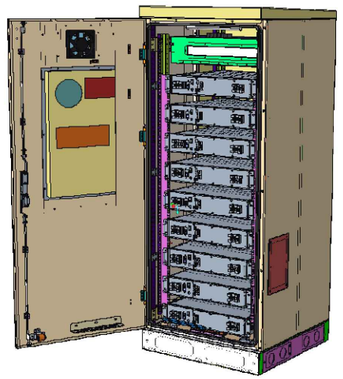
# Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA



# Enclosure B160

Capacity
- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
- Li-Ion: 24U 19" / 23"
- Sodium-Nickel: 3x FIAMM

Electrical specification
- DC Output: -48VDC/200A
- Battery breakers: 2x 125/2p
- Alarms: Door open, Climate failure, MCB Connection

Mechanical specification
- Weight: 134kg
- Dimensions: 63 x 26 x 26 in. (incl. Base frame)
- Base frame height: 6 in.
- Material: Galvanized steel (180g/m$^2$)
- Color: Powder paint NCS 2002-B
- Door: Front access
- Locking type: Pad lock / cylinder

Environmental specification
- Ingress protection: VRLA/Sodium IP44<br>Li-Ion IP55
- Relative humidity: 15-100%

Climate system
- Air Conditioner
  - Fan type: DC
  - Cooling capacity: 500W @L35/L35
- Convection cooling
  - Emergency fan



NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-604

REVISION: -

AMERICAN TOWER®
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# Antenna Mount Analysis Report

| | | |
|---|---|---|
| **ATC Site Name** | : | **Tolland CT** |
| **ATC Site Number** | : | **302495** |
| **Engineering Number** | : | **13709719_C8_06** |
| **Mount Elevation** | : | **131 ft** |
| **Carrier** | : | **SPRINT NEXTEL** |
| **Carrier Site Name** | : | **CT11725A** |
| **Carrier Site Number** | : | **CT11725A** |
| **Site Location** | : | **56 Ruops Road**<br>**Tolland, CT 06084**<br>**41.87334038, -72.33830201** |
| **County** | : | **Tolland** |
| **Date** | : | **October 20, 2021** |
| **Max Usage** | : | **55%** |
| **Result** | : | **Pass** |

Prepared By: Cait Campbell
Jason Cheronis
Vice President of Structural Engineering

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

Jason Cheronis
Digitally signed by Jason Cheronis
Date: 2021.10.20 09:38:18 -04'00'





## Antenna Loading

| Mount Centerline (ft) | Antenna Centerline (ft) | Qty | Antenna Model |
|---|---|---|---|
| 131.0 | 132.0 | 3 | Ericsson Air6449 B41 |
| | | 3 | RFS APXVAARR24_43-U-NA20 |
| | | 3 | Commscope VV-65A-R1 |
| | | 3 | Ericsson Radio 4480 B71+B85A |
| | | 3 | Ericsson Radio 4460 B25+B66 |
| 50.0 | 50.0 | 1 | Generic 2" x 4" GPS |

## Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|---|---|---|
| Support Rails | 55% | Pass |
| Diagonals | 49% | Pass |
| Mount Pipes | 48% | Pass |
| Horizontals | 43% | Pass |
| Faces | 36% | Pass |
| Verticals | 27% | Pass |



1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-605

REVISION: -

AMERICAN TOWER®
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# Structural Analysis Report

| | | |
|---|---|---|
| **Structure** | : | **165 ft Monopole** |
| **ATC Site Name** | : | **Tolland CT,CT** |
| **ATC Site Number** | : | **302495** |
| **Engineering Number** | : | **13741898_C3_01** |
| **Proposed Carrier** | : | **SPRINT NEXTEL** |
| **Carrier Site Name** | : | **CT11725A** |
| **Carrier Site Number** | : | **CT11725A** |
| **Site Location** | : | **56 Ruops Road**<br>**Tolland, CT 06084-3116**<br>**41.8733, -72.3383** |
| **County** | : | **Tolland** |
| **Date** | : | **October 29, 2021** |
| **Max Usage** | : | **76%** |
| **Result** | : | **Pass** |


Prepared By:

Nicholas Beam
Structural Engineer

Nicholas Beam

Reviewed By:

**COA : PEC.0001553**

## Table of Contents

## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 165 ft Monopole to reflect the change in loading by SPRINT NEXTEL.

## Supporting Documents

| | |
|---|---|
| **Tower Drawings** | EEI Drawing #GS50842 Rev 1, dated June 24, 1998<br>Mapping by Delta Oaks Group Project #AGI19-04721-03, dated August 1, 2019 |
| **Foundation Drawing** | EEI Drawing #F3503-150.N, dated March 2, 1998 |
| **Geotechnical Report** | ASR Project #12-06077, dated December 1, 2006 |
| **Modifications** | Spectrasite Drawing #CT-0031-M1, dated November 15, 2004 |

## Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

| | |
|---|---|
| **Basic Wind Speed:** | 118 mph (3-second gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-second gust) w/ 1.50" radial ice concurrent |
| **Code:** | ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code |
| **Exposure Category:** | B |
| **Risk Category:** | II |
| **Topographic Factor Procedure:** | Method 1 |
| **Topographic Category:** | 1 |
| **Crest Height (H):** | 0 ft |
| **Crest Length (L):** | 0 ft |
| **Spectral Response:** | Ss = 0.18, $S_1$ = 0.06 |
| **Site Class:** | D - Stiff Soil - Default |

## Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

## Existing and Reserved Equipment

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 164.1 | 3 | EMS RR90-17-02DP | Flush | (6) 1 5/8" Coax | T-MOBILE |
| 155.0 | 6 | Ericsson KRY 112 71/x (12.8"x5.9") | Flush | - | |
| 149.0 | 6 | CCI DTMABP7819VG12A | Triangular Platform with Handrails | (1) 0.39" (10mm) Fiber Trunk<br>(2) 0.78" (19.7mm) 8 AWG 6<br>(24) 1 1/4" Coax<br>(1) 3" conduit<br>(1) 3/8" (0.38"-9.5mm) RET Control Cable | AT&T MOBILITY |
| | 6 | Kathrein Scala 782-10250 | | | |
| | 1 | Andrew ABT-DMDF-ADBH | | | |
| | 3 | Ericsson RRUS-12 800 MHz | | | |
| | 6 | KMW AM-X-CD-16-65-00T-RET | | | |
| | 3 | Powerwave Allgon 7770.00 | | | |
| | 1 | Raycap DC6-48-60-18-8F ("Squid") | | | |
| | 3 | Ericsson RRUS 11 (Band 12) | | | |
| | 3 | Powerwave Allgon 7020.00 Dual Band RET | | | |
| 142.2 | 6 | Decibel DB844G90A-XY | Triangular Platform with Handrails | (12) 1 5/8" Coax<br>(2) 1 5/8" Hybriflex | VERIZON WIRELESS |
| 140.0 | 6 | Commscope JAHH-65B-R3B | | | |
| | 3 | Samsung MT6407-77A | | | |
| | 3 | Samsung CBRS 64T64R MMU | | | |
| | 4 | RFS APL868013-42T0-00 | | | |
| | 2 | Raycap RRFDC-3315-PF-48 | | | |
| | 3 | Samsung B2/B66A RRH-BR049 | | | |
| | 3 | Samsung B5/B13 RRH-BR04C | | | |
| | 3 | Samsung Outdoor CBRS 20W RRH | | | |
| | 6 | Commscope CBC78T-DS-43-2X | | | |
| | 2 | Swedcom SC 9012 | | | |
| 132.0 | 3 | RFS APXVAARR24_43-U-NA20 | Triangular Platform with Handrails | (2) 1.99" (50.7mm) Hybrid | SPRINT NEXTEL |
| | 3 | Ericsson Air6449 B41 | | | |
| | 3 | Ericsson Radio 4480 B71+B85A | | | |
| | 3 | Ericsson Radio 4460 B25+B66 | | | |
| 107.6 | 3 | Commscope LNX-6515DS-VTM | Flush | - | T-MOBILE |
| 105.0 | 3 | Kathrein Scala Smart Bias Tee | | | |
| 93.0 | 3 | JMA Wireless MX08FRO665-21 | Triangular Platform with Handrails | (1) 1.60" (40.6mm) Hybrid | DISH WIRELESS L.L.C. |
| | 3 | Fujitsu TA08025-B604 | | | |
| | 3 | Fujitsu TA08025-B605 | | | |
| | 1 | Commscope RDIDC-9181-PF-48 | | | |
| 81.0 | 1 | Generic GPS | Stand-Off | (1) 1/2" Coax | T-MOBILE |
| 63.0 | 2 | Generic GPS | Stand-Off | | |

## Equipment to be Removed

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 132.0 | 3 | RFS APX16DWV-16DWVS-E-A20 | - | - | SPRINT NEXTEL |
| 50.0 | 1 | Generic 2" x 4" GPS | Stand-Off | | |

## Proposed Equipment

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 132.0 | 3 | Commscope VV-65A-R1 | Triangular Platform with Handrails | - | SPRINT NEXTEL |

[1] Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

## Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|---|---|---|
| Anchor Bolts | 76% | Pass |
| Shaft | 75% | Pass |
| Base Plate | 42% | Pass |
| Flange | 10% | Pass |

## Foundations

| Reaction Component | Analysis Reactions | % of Usage |
|---|---|---|
| Moment (Kips-Ft) | 3385.0 | 73% |
| Axial (Kips) | 55.5 | 4% |
| Shear (Kips) | 30.2 | 42% |

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

## Deflection and Sway*

| Antenna Elevation (ft) | Antenna | Carrier | Deflection (ft) | Sway (Rotation) (°) |
|---|---|---|---|---|
| 132.0 | Commscope VV-65A-R1 | SPRINT NEXTEL | 1.718 | 1.500 |

***Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H**

**Standard Conditions**

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

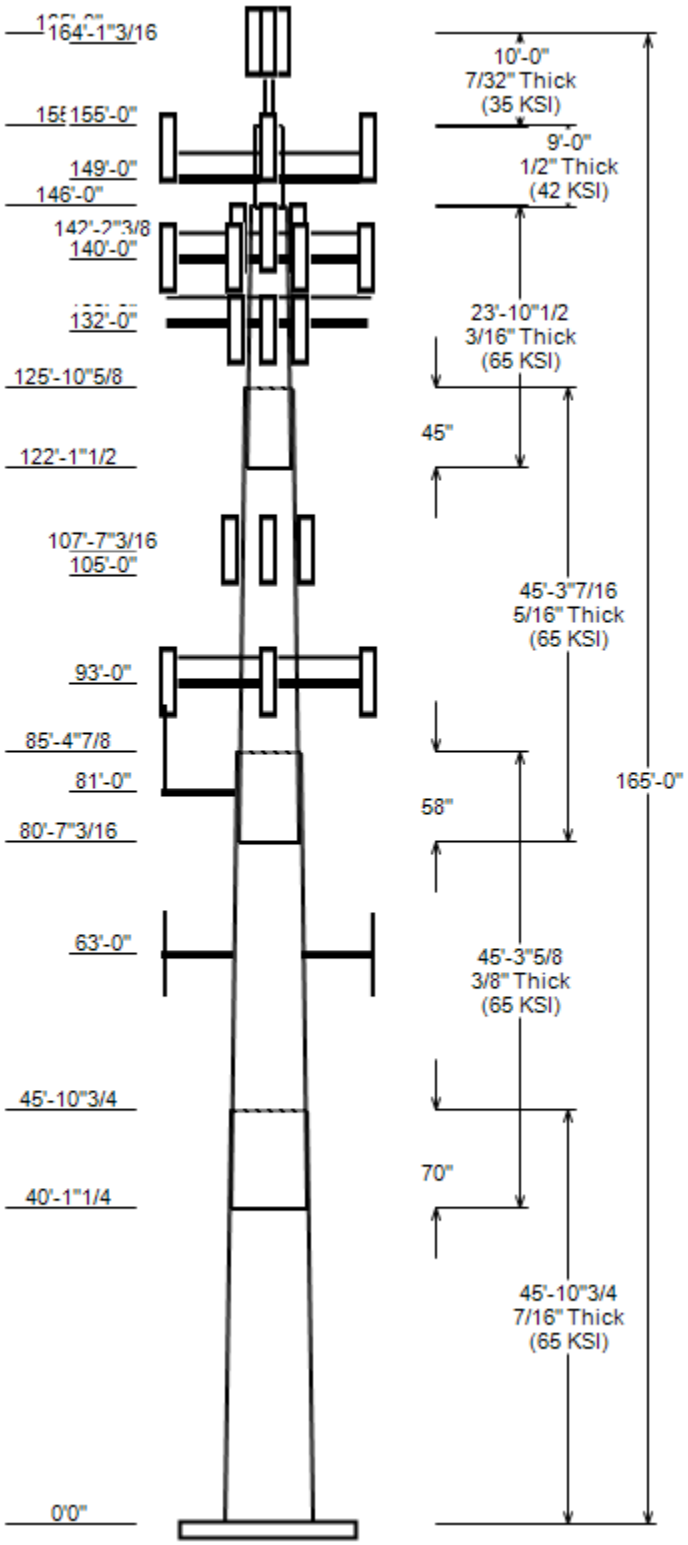
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

## JOB INFORMATION

| | | | |
|---|---|---|---|
| Asset : | 302495, Tolland CT | Height : | 165 ft |
| Client : | SPRINT NEXTEL | Base Width : | 50 |
| Code : | ANSI/TIA-222-H | Shape : | 12 Sides |




## SITE PARAMETERS

| | | | |
|---|---|---|---|
| Base Elev (ft): | 0.00 | Structure Class: | II |
| Taper : | 0.21100 (In/ft) | Exposure : | B |
| Topographic Category : | 1 | Topographic Feature: | |
| Topo Method : | Method 1 | | |

## SECTION PROPERTIES

| Shaft Section | Length (ft) | Diameter (in) Across Flats Top | Bottom | Thick (in) | Joint Type | Overlap Length (in) | Shape | Steel Grade (ksi) |
|---|---|---|---|---|---|---|---|---|
| 1 | 45.898 | 40.33 | 50.00 | 0.438 | | 0.000 | 12 Sides | 65 |
| 2 | 45.302 | 32.76 | 42.30 | 0.375 | Slip Joint | 69.530 | 12 Sides | 65 |
| 3 | 45.287 | 24.86 | 34.40 | 0.312 | Slip Joint | 57.690 | 12 Sides | 65 |
| 4 | 23.878 | 21.00 | 26.03 | 0.188 | Slip Joint | 45.160 | 12 Sides | 65 |
| 5 | 9.000 | 16.00 | 16.00 | 0.500 | Butt Joint | 0.000 | Round | 42 |
| 6 | 10.000 | 3.50 | 3.50 | 0.218 | Butt Joint | 0.000 | Round | 35 |

## DISCRETE APPURTENANCE

| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
|---|---|---|---|
| 164.1 | 164.1 | 3 | EMS RR90-17-02DP |
| 155.0 | 157.0 | 6 | Ericsson KRY 112 71/x (12.8"x5 |
| 155.0 | 155.0 | 1 | Canister |
| 149.0 | 149.0 | 1 | Andrew ABT-DMDF-ADBH |
| 149.0 | 151.0 | 3 | Powerwave Allgon 7020.00 Dual |
| 149.0 | 151.0 | 6 | Kathrein Scala 782-10250 |
| 149.0 | 151.0 | 6 | CCI DTMABP7819VG12A |
| 149.0 | 151.0 | 1 | Raycap DC6-48-60-18-8F ("Squid |
| 149.0 | 151.0 | 3 | Ericsson RRUS 11 (Band 12) |
| 149.0 | 151.0 | 3 | Ericsson RRUS-12 800 MHz |
| 149.0 | 149.6 | 3 | Powerwave Allgon 7770.00 |
| 149.0 | 151.0 | 6 | KMW AM-X-CD-16-65-00T-RET |
| 149.0 | 149.0 | 1 | Generic Flat Platform with Han |
| 142.2 | 142.2 | 6 | Decibel DB844G90A-XY |
| 140.0 | 140.0 | 6 | Commscope CBC78T-DS-43-2X |
| 140.0 | 140.0 | 3 | Samsung Outdoor CBRS 20W RRH |
| 140.0 | 140.0 | 3 | Samsung B5/B13 RRH-BR04C |
| 140.0 | 140.0 | 3 | Samsung B2/B66A RRH-BR049 |
| 140.0 | 140.0 | 2 | Raycap RRFDC-3315-PF-48 |
| 140.0 | 140.0 | 2 | Swedcom SC 9012 |
| 140.0 | 140.0 | 4 | RFS APL868013-42T0-00 |
| 140.0 | 140.0 | 3 | Samsung CBRS 64T64R MMU |
| 140.0 | 140.0 | 3 | Samsung MT6407-77A |
| 140.0 | 140.0 | 6 | Commscope JAHH-65B-R3B |
| 140.0 | 140.0 | 1 | Generic Flat Platform with Han |
| 133.0 | 133.0 | 1 | Generic Flat Platform with Han |
| 132.0 | 132.0 | 3 | Ericsson Radio 4460 B25+B66 |
| 132.0 | 132.0 | 3 | Ericsson Radio 4480 B71+B85A |
| 132.0 | 132.0 | 3 | Ericsson Air6449 B41 |
| 132.0 | 132.0 | 3 | Commscope VV-65A-R1 |
| 132.0 | 132.0 | 3 | RFS APXVAARR24_43-U-NA20 |
| 107.6 | 107.6 | 3 | Commscope LNX-6515DS-VTM |
| 105.0 | 105.0 | 3 | Kathrein Scala Smart Bias Tee |
| 93.0 | 93.0 | 1 | Commscope RDIDC-9181-PF-48 |
| 93.0 | 93.0 | 3 | Fujitsu TA08025-B605 |
| 93.0 | 93.0 | 3 | Fujitsu TA08025-B604 |
| 93.0 | 93.0 | 3 | JMA Wireless MX08FRO665-21 |
| 93.0 | 93.0 | 1 | Generic Flat Platform with Han |
| 81.0 | 81.9 | 1 | Generic GPS |
| 81.0 | 81.0 | 1 | Generic Round Stand-Off |
| 63.0 | 63.0 | 2 | Generic GPS |
| 63.0 | 63.0 | 2 | Generic Round Stand-Off |

## JOB INFORMATION

| | | | |
|---|---|---|---|
| Asset : | 302495, Tolland CT | Height : | 165 ft |
| Client : | SPRINT NEXTEL | Base Width : | 50 |
| Code : | ANSI/TIA-222-H | Shape : | 12 Sides |

## LINEAR APPURTENANCE

| Elev From (ft) | Elev To (ft) | Description | Exp To Wind |
|---|---|---|---|
| 0.0 | 162.0 | 1 5/8" Coax | No |
| 120.0 | 149.0 | Climbing Ladder | Yes |
| 0.0 | 149.0 | 3/8" (0.38"- 9.5mm) RET Control Cable | No |
| 0.0 | 149.0 | 3" conduit | No |
| 0.0 | 149.0 | 1 1/4" Coax | No |
| 0.0 | 149.0 | 1 1/4" Coax | No |
| 0.0 | 149.0 | 1 1/4" Coax | Yes |
| 0.0 | 149.0 | 0.78" (19.7mm) 8 AWG 6 | No |
| 0.0 | 149.0 | 0.39" (10mm) Fiber Trunk | No |
| 0.0 | 140.0 | 1 5/8" Hybriflex | Yes |
| 0.0 | 140.0 | 1 5/8" Coax | Yes |
| 0.0 | 140.0 | 1 5/8" Coax | No |
| 0.0 | 132.0 | 1.99" (50.7mm) Hybrid | No |
| 0.0 | 93.0 | 1.60" (40.6mm) Hybrid | No |
| 0.0 | 81.0 | 1/2" Coax | Yes |

## LOAD CASES

| | |
|---|---|
| 1.2D + 1.0W Normal | 118 mph wind with no ice |
| 0.9D + 1.0W Normal | 118 mph wind with no ice |
| 1.2D + 1.0Di + 1.0Wi Nor | 50 mph wind with 1.5" radial ice |
| 1.2D + 1.0Ev + 1.0Eh Nor | Seismic |
| 0.9D - 1.0Ev + 1.0Eh Nor | Seismic (Reduced DL) |
| 1.0D + 1.0W Service Norm | 60 mph Wind with No Ice |

## REACTIONS

| Load Case | Moment (kip-ft) | Shear (Kip) | Axial (Kip) |
|---|---|---|---|
| 1.2D + 1.0W Normal | 3385.00 | 30.22 | 55.47 |
| 0.9D + 1.0W Normal | 3322.99 | 30.19 | 41.59 |
| 1.2D + 1.0Di + 1.0Wi Normal | 885.32 | 7.45 | 86.04 |
| 1.2D + 1.0Ev + 1.0Eh Normal | 185.27 | 1.39 | 55.56 |
| 0.9D - 1.0Ev + 1.0Eh Normal | 180.92 | 1.39 | 38.64 |
| 1.0D + 1.0W Service Normal | 774.84 | 6.98 | 46.27 |

## DISH DEFLECTIONS

| Load Case | Attach Elev (ft) | Deflection (in) | Rotation (deg) |
|---|---|---|---|

## ANALYSIS PARAMETERS

| | | | |
|---|---|---|---|
| Location: | Tolland County,CT | Height: | 165 ft |
| Type and Shape: | Custom, Round | Base Diameter: | 50.00 in |
| Manufacturer: | EEI | Top Diameter: | 3.50 in |
| $K_d$ (non-service): | 0.95 | Taper: | 0.2110 in/ft |
| $K_e$: | 0.98 | Rotation: | 0.000° |

## ICE & WIND PARAMETERS

| | | | |
|---|---|---|---|
| Exposure Category: | B | Design Wind Speed w/o Ice: | 118 mph |
| Risk Category: | II | Design Wind Speed w/Ice: | 50 mph |
| Topo Factor Procedure: | Method 1 | Operational Wind Speed: | 60 mph |
| Topographic Category: | 1 | Design Ice Thickness: | 1.50 in |
| Crest Height: | 0 ft | HMSL: | 695.00 ft |

## SEISMIC PARAMETERS

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | Equivalent Lateral Force Method | | | | |
| Site Class: | D - Stiff Soil | | | Period Based on Rayleigh Method (sec): | 3.01 |
| $T_L$ (sec): | 6 | P: | 1 | $C_{s:}$ | 0.030 |
| $S_{s:}$ | 0.181 | $S_{1:}$ | 0.055 | $C_s$ Max: | 0.030 |
| $F_{a:}$ | 1.600 | $F_{v:}$ | 2.400 | $C_s$ Min: | 0.030 |
| $S_{ds:}$ | 0.193 | $S_{d1:}$ | 0.088 | | |

## LOAD CASES

| | |
|---|---|
| 1.2D + 1.0W Normal | 118 mph wind with no ice |
| 0.9D + 1.0W Normal | 118 mph wind with no ice |
| 1.2D + 1.0Di + 1.0Wi Normal | 50 mph wind with 1.5" radial ice |
| 1.2D + 1.0Ev + 1.0Eh Normal | Seismic |
| 0.9D - 1.0Ev + 1.0Eh Normal | Seismic (Reduced DL) |
| 1.0D + 1.0W Service Normal | 60 mph Wind with No Ice |

## SHAFT SECTION PROPERTIES

| Sect Info | Length (ft) | Thick (in) | Fy (ksi) | Joint Type | Slip Joint len (in) | Weight (lb) | Bottom Dia (in) | Bottom Elev (ft) | Bottom Area (in²) | Bottom Ix (in⁴) | Bottom W/t Ratio | Bottom D/t Ratio | Top Dia (in) | Top Elev (in) | Top Area (in²) | Top Ix (in⁴) | Top W/t Ratio | Top D/t Ratio | Taper (in/ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-12 | 45.90 | 0.4375 | 65 | | 0.00 | 9,841 | 50.00 | 0.002 | 69.82 | 21,891.7 | 27.94 | 114.29 | 40.33 | 45.90 | 56.20 | 11,418.7 | 22.02 | 92.19 | 0.2106 |
| 2-12 | 45.30 | 0.3750 | 65 | Slip | 69.53 | 6,917 | 42.30 | 40.108 | 50.63 | 11,361.1 | 27.55 | 112.81 | 32.76 | 85.41 | 39.11 | 5,236.5 | 20.73 | 87.37 | 0.2106 |
| 3-12 | 45.29 | 0.3125 | 65 | Slip | 57.69 | 4,546 | 34.40 | 80.603 | 34.30 | 5,087.6 | 26.82 | 110.08 | 24.86 | 125.89 | 24.70 | 1,900.6 | 18.64 | 79.56 | 0.2106 |
| 4-12 | 23.88 | 0.1875 | 65 | Slip | 45.16 | 1,144 | 26.03 | 122.122 | 15.60 | 1,330.1 | 34.52 | 138.82 | 21.00 | 146.00 | 12.57 | 695.0 | 27.33 | 112.00 | 0.2106 |
| 5-R | 9.00 | 0.5000 | 42 | Butt | 0.00 | 746 | 16.00 | 146.000 | 24.35 | 731.7 | 0.00 | 32.00 | 16.00 | 155.00 | 24.35 | 731.7 | 0.00 | 32.00 | 0.0000 |
| 6-R | 10.00 | 0.2180 | 35 | Butt | 0.00 | 76 | 3.50 | 155.000 | 2.25 | 3.0 | 0.00 | 16.06 | 3.50 | 165.00 | 2.25 | 3.0 | 0.00 | 16.06 | 0.0000 |

Shaft Weight 23,270

## DISCRETE APPURTENANCE PROPERTIES

| Attach Elev (ft) | Description | Qty | Ka | Vert Ecc (ft) | No Ice Weight (lb) | No Ice EPAa (sf) | No Ice Orientation Factor | Ice Weight (lb) | Ice EPAa (sf) | Ice Orientation Factor |
|---|---|---|---|---|---|---|---|---|---|---|
| 164.10 | EMS RR90-17-02DP | 3 | 1.00 | 0.000 | 13.50 | 4.356 | 0.01 | 92.73 | 6.578 | 0.01 |
| 155.00 | Canister | 1 | 1.00 | 0.000 | 500.00 | 9.800 | 1.00 | 797.88 | 12.329 | 1.00 |
| 155.00 | Ericsson KRY 112 71/x (12.8"x5 | 6 | 1.00 | 2.000 | 13.20 | 0.629 | 0.01 | 31.84 | 1.203 | 0.01 |
| 149.00 | Generic Flat Platform with Han | 1 | 1.00 | 0.000 | 2500.00 | 42.400 | 1.00 | 4277.13 | 63.380 | 1.00 |
| 149.00 | KMW AM-X-CD-16-65-00T-RET | 6 | 0.75 | 2.000 | 48.50 | 8.024 | 0.67 | 210.50 | 10.814 | 0.67 |
| 149.00 | Powerwave Allgon 7770.00 | 3 | 0.75 | 0.600 | 35.00 | 5.508 | 0.65 | 148.72 | 7.635 | 0.65 |
| 149.00 | Ericsson RRUS-12 800 MHz | 3 | 0.75 | 2.000 | 60.00 | 2.700 | 0.50 | 134.18 | 3.774 | 0.50 |
| 149.00 | Ericsson RRUS 11 (Band 12) | 3 | 0.75 | 2.000 | 50.00 | 2.566 | 0.50 | 118.19 | 3.614 | 0.50 |
| 149.00 | Raycap DC6-48-60-18-8F ("Squid | 1 | 0.75 | 2.000 | 31.80 | 1.470 | 1.00 | 93.52 | 2.169 | 1.00 |
| 149.00 | CCI DTMABP7819VG12A | 6 | 0.75 | 2.000 | 19.20 | 0.972 | 0.50 | 44.68 | 1.627 | 0.50 |
| 149.00 | Kathrein Scala 782-10250 | 6 | 0.75 | 2.000 | 6.40 | 0.449 | 0.50 | 19.17 | 0.940 | 0.50 |
| 149.00 | Powerwave Allgon 7020.00 Dual | 3 | 0.75 | 2.000 | 2.20 | 0.339 | 0.50 | 12.42 | 0.748 | 0.50 |
| 149.00 | Andrew ABT-DMDF-ADBH | 1 | 0.75 | 0.000 | 1.10 | 0.045 | 1.00 | 3.33 | 0.218 | 1.00 |
| 142.20 | Decibel DB844G90A-XY | 6 | 0.75 | 0.000 | 14.00 | 3.615 | 0.73 | 105.23 | 5.476 | 0.73 |
| 140.00 | Samsung CBRS 64T64R MMU | 3 | 0.75 | 0.000 | 75.00 | 4.496 | 0.58 | 167.49 | 5.893 | 0.58 |
| 140.00 | Samsung MT6407-77A | 3 | 0.75 | 0.000 | 81.60 | 4.709 | 0.61 | 182.85 | 6.218 | 0.61 |
| 140.00 | Commscope JAHH-65B-R3B | 6 | 0.75 | 0.000 | 60.60 | 9.113 | 0.69 | 261.56 | 11.869 | 0.69 |
| 140.00 | Generic Flat Platform with Han | 1 | 1.00 | 0.000 | 2500.00 | 42.400 | 1.00 | 4264.70 | 63.233 | 1.00 |
| 140.00 | Swedcom SC 9012 | 2 | 0.75 | 0.000 | 10.00 | 3.172 | 0.80 | 92.31 | 4.832 | 0.80 |
| 140.00 | RFS APL868013-42T0-00 | 4 | 0.75 | 0.000 | 6.30 | 3.615 | 0.72 | 93.82 | 5.471 | 0.72 |
| 140.00 | Commscope CBC78T-DS-43-2X | 6 | 0.75 | 0.000 | 20.70 | 0.552 | 0.50 | 42.65 | 1.057 | 0.50 |
| 140.00 | Samsung Outdoor CBRS 20W RRH | 3 | 0.75 | 0.000 | 18.60 | 0.857 | 0.50 | 42.44 | 1.480 | 0.50 |
| 140.00 | Samsung B5/B13 RRH-BR04C | 3 | 0.75 | 0.000 | 70.30 | 1.875 | 0.50 | 127.12 | 2.772 | 0.50 |
| 140.00 | Samsung B2/B66A RRH-BR049 | 3 | 0.75 | 0.000 | 84.40 | 1.875 | 0.50 | 147.77 | 2.772 | 0.50 |
| 140.00 | Raycap RRFDC-3315-PF-48 | 2 | 0.75 | 0.000 | 26.90 | 2.512 | 0.67 | 106.04 | 3.546 | 0.67 |
| 133.00 | Generic Flat Platform with Han | 1 | 1.00 | 0.000 | 2500.00 | 42.400 | 1.00 | 4258.17 | 63.156 | 1.00 |
| 132.00 | Commscope VV-65A-R1 | 3 | 0.75 | 0.000 | 23.80 | 5.928 | 0.63 | 139.88 | 8.022 | 0.63 |
| 132.00 | RFS APXVAARR24_43-U-NA20 | 3 | 0.75 | 0.000 | 127.90 | 20.243 | 0.63 | 516.00 | 23.910 | 0.63 |
| 132.00 | Ericsson Air6449 B41 | 3 | 0.75 | 0.000 | 104.00 | 5.682 | 0.63 | 238.73 | 7.251 | 0.63 |
| 132.00 | Ericsson Radio 4460 B25+B66 | 3 | 0.75 | 0.000 | 109.00 | 2.564 | 0.67 | 196.38 | 3.606 | 0.67 |
| 132.00 | Ericsson Radio 4480 B71+B85A | 3 | 0.75 | 0.000 | 84.00 | 2.852 | 0.67 | 158.68 | 3.956 | 0.67 |
| 107.60 | Commscope LNX-6515DS-VTM | 3 | 1.00 | 0.000 | 50.30 | 11.440 | 0.70 | 272.41 | 14.573 | 0.70 |
| 105.00 | Kathrein Scala Smart Bias Tee | 3 | 1.00 | 0.000 | 3.30 | 0.080 | 0.50 | 6.47 | 0.281 | 0.50 |
| 93.00 | Fujitsu TA08025-B605 | 3 | 0.75 | 0.000 | 75.00 | 1.962 | 0.50 | 134.75 | 2.839 | 0.50 |
| 93.00 | JMA Wireless MX08FRO665-21 | 3 | 0.75 | 0.000 | 64.50 | 12.489 | 0.64 | 309.63 | 15.169 | 0.64 |
| 93.00 | Fujitsu TA08025-B604 | 3 | 0.75 | 0.000 | 63.90 | 1.962 | 0.50 | 119.52 | 2.839 | 0.50 |
| 93.00 | Generic Flat Platform with Han | 1 | 1.00 | 0.000 | 2500.00 | 42.400 | 1.00 | 4194.27 | 62.402 | 1.00 |
| 93.00 | Commscope RDIDC-9181-PF-48 | 1 | 0.75 | 0.000 | 21.90 | 1.867 | 1.00 | 76.17 | 2.725 | 1.00 |
| 81.00 | Generic GPS | 1 | 1.00 | 0.900 | 10.00 | 0.900 | 1.00 | 37.56 | 1.502 | 1.00 |
| 81.00 | Generic Round Stand-Off | 1 | 1.00 | 0.000 | 187.50 | 5.200 | 1.00 | 273.63 | 7.759 | 1.00 |
| 63.00 | Generic GPS | 2 | 0.90 | 0.000 | 10.00 | 1.000 | 1.00 | 36.82 | 1.651 | 1.00 |
| 63.00 | Generic Round Stand-Off | 2 | 1.00 | 0.000 | 187.50 | 5.200 | 0.90 | 271.31 | 7.690 | 0.90 |
| Totals | Num Loadings: 42 | 124 | | | 15,930.80 | | | 33,757.46 | | |

## LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

| Elev From (ft) | Elev To (ft) | Qty | Description | Coax Dia (in) | Coax Wt (lb/ft) | Flat | Max Coax/ Row | Dist Between Rows(in) | Dist Between Cols(in) | Azimuth (deg) | Dist From Face (in) | Exposed To Wind | Carrier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 162.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N | T-MOBILE |
| 0.00 | 149.00 | 12 | 1 1/4" Coax | 1.55 | 0.63 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |

| Elev From (ft) | Elev To (ft) | Qty | Description | Coax Dia (in) | Coax Wt (lb/ft) | Flat | Max Coax/ Row | Dist Between Rows(in) | Dist Between Cols(in) | Azimuth (deg) | Dist From Face (in) | Exposed To Wind | Carrier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 149.00 | 9 | 1 1/4" Coax | 1.55 | 0.63 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 149.00 | 3 | 1 1/4" Coax | 1.55 | 0.63 | N | 3 | 0.5 | 0.5 | 270 | 0.5 | Y | AT&T MOBILITY |
| 0.00 | 149.00 | 2 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 149.00 | 1 | 3/8" (0.38"- 9.5mm) R | 0.38 | 0.23 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 149.00 | 1 | 3" conduit | 3.5 | 7.58 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 120.00 | 149.00 | 1 | Climbing Ladder | 2 | 6.9 | Y | 1 | 0 | 0 | 90 | 0.5 | Y | |
| 0.00 | 149.00 | 1 | 0.39" (10mm) Fiber Tr | 0.39 | 0.06 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 140.00 | 9 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N | VERIZON WIREL |
| 0.00 | 140.00 | 3 | 1 5/8" Coax | 1.98 | 0.82 | N | 3 | 0.5 | 0.5 | 20 | 0.5 | Y | VERIZON WIREL |
| 0.00 | 140.00 | 2 | 1 5/8" Hybriflex | 1.98 | 1.3 | N | 2 | 0.5 | 0.5 | 5 | 0.5 | Y | VERIZON WIREL |
| 0.00 | 132.00 | 2 | 1.99" (50.7mm) Hybrid | 1.99 | 1.9 | N | 0 | 0 | 0 | 0 | 0 | N | SPRINT NEXTEL |
| 0.00 | 93.00 | 1 | 1.60" (40.6mm) Hybrid | 1.6 | 2.34 | N | 0 | 0 | 0 | 0 | 0 | N | DISH WIRELESS |
| 0.00 | 81.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 1 | 0.5 | 0.5 | 180 | 0.5 | Y | T-MOBILE |

## SEGMENT PROPERTIES

(Max Len: 5.ft)

| Seg Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area ($in^2$) | Ix ($in^4$) | W/t Ratio | D/t Ratio | F'y (ksi) | S ($in^3$) | Z ($in^3$) | Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | 0.4375 | 50.000 | 69.821 | 21,891.70 | 27.94 | 114.29 | 74.2 | 845.8 | 0.0 | 0.0 |
| 5.00 | | 0.4375 | 48.947 | 68.338 | 20,525.80 | 27.30 | 111.88 | 74.9 | 810.1 | 0.0 | 1,175.3 |
| 10.00 | | 0.4375 | 47.894 | 66.854 | 19,217.90 | 26.65 | 109.47 | 75.6 | 775.2 | 0.0 | 1,150.1 |
| 15.00 | | 0.4375 | 46.841 | 65.371 | 17,966.90 | 26.01 | 107.07 | 76.3 | 741.0 | 0.0 | 1,124.8 |
| 20.00 | | 0.4375 | 45.788 | 63.888 | 16,771.30 | 25.36 | 104.66 | 77.1 | 707.6 | 0.0 | 1,099.6 |
| 25.00 | | 0.4375 | 44.735 | 62.404 | 15,629.90 | 24.72 | 102.25 | 77.8 | 675.0 | 0.0 | 1,074.4 |
| 30.00 | | 0.4375 | 43.682 | 60.921 | 14,541.60 | 24.07 | 99.84 | 78.5 | 643.1 | 0.0 | 1,049.1 |
| 35.00 | | 0.4375 | 42.629 | 59.437 | 13,505.00 | 23.43 | 97.44 | 79.2 | 612.0 | 0.0 | 1,023.9 |
| 40.00 | | 0.4375 | 41.576 | 57.954 | 12,518.90 | 22.78 | 95.03 | 79.9 | 581.7 | 0.0 | 998.6 |
| 40.10 | Bot - Section 2 | 0.4375 | 41.554 | 57.923 | 12,498.90 | 22.77 | 94.98 | 79.9 | 581.1 | 0.0 | 20.5 |
| 45.00 | | 0.4375 | 40.523 | 56.470 | 11,582.00 | 22.14 | 92.62 | 80.6 | 552.1 | 0.0 | 1,786.0 |
| 45.90 | Top - Section 1 | 0.3750 | 41.084 | 49.156 | 10,397.70 | 26.68 | 109.56 | 75.6 | 488.9 | 0.0 | 322.8 |
| 50.00 | | 0.3750 | 40.220 | 48.113 | 9,749.80 | 26.06 | 107.25 | 76.3 | 468.3 | 0.0 | 678.8 |
| 55.00 | | 0.3750 | 39.167 | 46.841 | 8,997.00 | 25.31 | 104.45 | 77.1 | 443.8 | 0.0 | 807.8 |
| 60.00 | | 0.3750 | 38.114 | 45.570 | 8,284.10 | 24.55 | 101.64 | 77.9 | 419.9 | 0.0 | 786.1 |
| 63.00 | | 0.3750 | 37.482 | 44.807 | 7,874.90 | 24.10 | 99.95 | 78.4 | 405.9 | 0.0 | 461.3 |
| 65.00 | | 0.3750 | 37.061 | 44.298 | 7,609.80 | 23.80 | 98.83 | 78.8 | 396.7 | 0.0 | 303.2 |
| 70.00 | | 0.3750 | 36.008 | 43.027 | 6,973.20 | 23.05 | 96.02 | 79.6 | 374.1 | 0.0 | 742.9 |
| 75.00 | | 0.3750 | 34.955 | 41.755 | 6,373.10 | 22.30 | 93.21 | 80.4 | 352.2 | 0.0 | 721.2 |
| 80.00 | | 0.3750 | 33.902 | 40.484 | 5,808.40 | 21.54 | 90.41 | 81.2 | 331.0 | 0.0 | 699.6 |
| 80.60 | Bot - Section 3 | 0.3750 | 33.776 | 40.332 | 5,743.10 | 21.45 | 90.07 | 81.3 | 328.5 | 0.0 | 82.4 |
| 81.00 | | 0.3750 | 33.691 | 40.230 | 5,699.60 | 21.39 | 89.84 | 81.4 | 326.8 | 0.0 | 101.7 |
| 85.00 | | 0.3750 | 32.849 | 39.212 | 5,278.10 | 20.79 | 87.60 | 81.9 | 310.4 | 0.0 | 1,000.6 |
| 85.41 | Top - Section 2 | 0.3125 | 33.388 | 33.283 | 4,647.60 | 25.95 | 106.84 | 76.4 | 268.9 | 0.0 | 100.2 |
| 90.00 | | 0.3125 | 32.421 | 32.309 | 4,251.60 | 25.12 | 103.75 | 77.3 | 253.3 | 0.0 | 512.7 |
| 93.00 | | 0.3125 | 31.789 | 31.673 | 4,005.50 | 24.58 | 101.73 | 77.9 | 243.4 | 0.0 | 326.6 |
| 95.00 | | 0.3125 | 31.368 | 31.250 | 3,846.90 | 24.22 | 100.38 | 78.3 | 236.9 | 0.0 | 214.1 |
| 100.00 | | 0.3125 | 30.315 | 30.190 | 3,468.70 | 23.31 | 97.01 | 79.3 | 221.0 | 0.0 | 522.7 |
| 105.00 | | 0.3125 | 29.262 | 29.130 | 3,116.10 | 22.41 | 93.64 | 80.3 | 205.7 | 0.0 | 504.6 |
| 107.60 | | 0.3125 | 28.714 | 28.579 | 2,942.60 | 21.94 | 91.89 | 80.8 | 198.0 | 0.0 | 255.3 |
| 110.00 | | 0.3125 | 28.209 | 28.071 | 2,788.30 | 21.51 | 90.27 | 81.3 | 191.0 | 0.0 | 231.3 |
| 115.00 | | 0.3125 | 27.156 | 27.011 | 2,484.30 | 20.61 | 86.90 | 81.9 | 176.7 | 0.0 | 468.6 |
| 120.00 | | 0.3125 | 26.103 | 25.952 | 2,203.30 | 19.70 | 83.53 | 81.9 | 163.1 | 0.0 | 450.6 |
| 122.12 | Bot - Section 4 | 0.3125 | 25.656 | 25.502 | 2,090.70 | 19.32 | 82.10 | 81.9 | 157.4 | 0.0 | 185.8 |
| 125.00 | | 0.3125 | 25.050 | 24.892 | 1,944.30 | 18.80 | 80.16 | 81.9 | 149.9 | 0.0 | 397.7 |
| 125.89 | Top - Section 3 | 0.1875 | 25.239 | 15.125 | 1,211.50 | 33.39 | 134.61 | 68.3 | 92.7 | 0.0 | 120.5 |
| 130.00 | | 0.1875 | 24.372 | 14.601 | 1,090.10 | 32.15 | 129.98 | 69.7 | 86.4 | 0.0 | 208.1 |
| 132.00 | | 0.1875 | 23.951 | 14.347 | 1,034.10 | 31.55 | 127.74 | 70.3 | 83.4 | 0.0 | 98.5 |
| 133.00 | | 0.1875 | 23.740 | 14.220 | 1,006.90 | 31.25 | 126.61 | 70.6 | 81.9 | 0.0 | 48.6 |
| 135.00 | | 0.1875 | 23.319 | 13.966 | 953.80 | 30.64 | 124.37 | 71.3 | 79.0 | 0.0 | 95.9 |
| 140.00 | | 0.1875 | 22.266 | 13.330 | 829.40 | 29.14 | 118.75 | 72.9 | 72.0 | 0.0 | 232.2 |
| 142.20 | | 0.1875 | 21.803 | 13.050 | 778.30 | 28.48 | 116.28 | 73.7 | 69.0 | 0.0 | 98.7 |
| 145.00 | | 0.1875 | 21.213 | 12.694 | 716.30 | 27.64 | 113.14 | 74.6 | 65.2 | 0.0 | 122.6 |
| 146.00 | Top - Section 4 | 0.1875 | 21.002 | 12.567 | 695.00 | 27.33 | 112.01 | 74.9 | 63.9 | 0.0 | 43.0 |
| 146.00 | Bot - Section 5 | 0.5000 | 16.000 | 24.347 | 731.70 | 0.00 | 32.00 | 42 | 91.5 | 120.2 | |
| 149.00 | | 0.5000 | 16.000 | 24.347 | 731.70 | 0.00 | 32.00 | 42 | 91.5 | 120.2 | 248.5 |
| 150.00 | | 0.5000 | 16.000 | 24.347 | 731.70 | 0.00 | 32.00 | 42 | 91.5 | 120.2 | 82.8 |
| 155.00 | Top - Section 5 | 0.5000 | 16.000 | 24.347 | 731.70 | 0.00 | 32.00 | 42 | 91.5 | 120.2 | 414.2 |
| 155.00 | Bot - Section 6 | 0.2180 | 3.500 | 2.248 | 3.00 | 0.00 | 16.06 | 35 | 1.7 | 2.4 | |
| 160.00 | | 0.2180 | 3.500 | 2.248 | 3.00 | 0.00 | 16.06 | 35 | 1.7 | 2.4 | 38.2 |
| 164.10 | | 0.2180 | 3.500 | 2.248 | 3.00 | 0.00 | 16.06 | 35 | 1.7 | 2.4 | 31.4 |
| 165.00 | | 0.2180 | 3.500 | 2.248 | 3.00 | 0.00 | 16.06 | 35 | 1.7 | 2.4 | 6.9 |
| | | | | | | | | Totals: | | | 23,271.0 |

Load Case: 1.2D + 1.0W Normal 118 mph wind with no ice 29 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

**CALCULATED FORCES**

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -55.47 | -30.22 | 0.00 | -3,385.0 | 0.00 | 3,385.00 | 4,665.07 | 1,225.36 | 5,729.16 | 4,709.48 | 0 | 0 | 0.731 |
| 5.00 | -53.66 | -29.91 | 0.00 | -3,233.9 | 0.00 | 3,233.92 | 4,609.22 | 1,199.33 | 5,488.38 | 4,553.37 | 0.12 | -0.22 | 0.722 |
| 10.00 | -51.88 | -29.60 | 0.00 | -3,084.4 | 0.00 | 3,084.39 | 4,551.49 | 1,173.29 | 5,252.76 | 4,397.87 | 0.46 | -0.43 | 0.713 |
| 15.00 | -50.14 | -29.29 | 0.00 | -2,936.4 | 0.00 | 2,936.40 | 4,491.88 | 1,147.26 | 5,022.31 | 4,243.09 | 1.03 | -0.66 | 0.704 |
| 20.00 | -48.42 | -28.99 | 0.00 | -2,790.0 | 0.00 | 2,789.95 | 4,430.39 | 1,121.23 | 4,797.04 | 4,089.15 | 1.84 | -0.88 | 0.694 |
| 25.00 | -46.74 | -28.68 | 0.00 | -2,645.0 | 0.00 | 2,645.02 | 4,367.03 | 1,095.19 | 4,576.93 | 3,936.18 | 2.89 | -1.11 | 0.683 |
| 30.00 | -45.09 | -28.37 | 0.00 | -2,501.6 | 0.00 | 2,501.61 | 4,301.78 | 1,069.16 | 4,361.99 | 3,784.31 | 4.18 | -1.35 | 0.672 |
| 35.00 | -43.47 | -28.05 | 0.00 | -2,359.7 | 0.00 | 2,359.74 | 4,234.66 | 1,043.12 | 4,152.22 | 3,633.64 | 5.72 | -1.59 | 0.660 |
| 40.00 | -41.93 | -27.86 | 0.00 | -2,219.5 | 0.00 | 2,219.47 | 4,165.66 | 1,017.09 | 3,947.62 | 3,484.31 | 7.51 | -1.83 | 0.648 |
| 40.10 | -41.85 | -27.71 | 0.00 | -2,216.6 | 0.00 | 2,216.57 | 4,164.20 | 1,016.55 | 3,943.41 | 3,481.21 | 7.55 | -1.83 | 0.648 |
| 45.00 | -39.37 | -27.44 | 0.00 | -2,080.9 | 0.00 | 2,080.92 | 4,094.78 | 991.06 | 3,748.18 | 3,336.43 | 9.56 | -2.07 | 0.634 |
| 45.90 | -38.88 | -27.27 | 0.00 | -2,056.3 | 0.00 | 2,056.26 | 3,345.47 | 862.69 | 3,313.03 | 2,772.94 | 9.95 | -2.12 | 0.754 |
| 50.00 | -37.73 | -26.95 | 0.00 | -1,944.4 | 0.00 | 1,944.41 | 3,303.63 | 844.38 | 3,173.97 | 2,679.63 | 11.86 | -2.32 | 0.738 |
| 55.00 | -36.37 | -26.58 | 0.00 | -1,809.7 | 0.00 | 1,809.67 | 3,250.92 | 822.07 | 3,008.48 | 2,566.54 | 14.44 | -2.6 | 0.717 |
| 60.00 | -35.06 | -26.27 | 0.00 | -1,676.8 | 0.00 | 1,676.75 | 3,196.33 | 799.75 | 2,847.42 | 2,454.29 | 17.3 | -2.87 | 0.695 |
| 63.00 | -33.83 | -25.70 | 0.00 | -1,597.9 | 0.00 | 1,597.93 | 3,162.67 | 786.36 | 2,752.91 | 2,387.39 | 19.16 | -3.04 | 0.681 |
| 65.00 | -33.28 | -25.46 | 0.00 | -1,546.5 | 0.00 | 1,546.53 | 3,139.86 | 777.44 | 2,690.79 | 2,343.00 | 20.46 | -3.15 | 0.672 |
| 70.00 | -32.01 | -25.07 | 0.00 | -1,419.3 | 0.00 | 1,419.26 | 3,081.51 | 755.12 | 2,538.59 | 2,232.79 | 23.91 | -3.43 | 0.647 |
| 75.00 | -30.77 | -24.67 | 0.00 | -1,293.9 | 0.00 | 1,293.94 | 3,021.29 | 732.81 | 2,390.82 | 2,123.79 | 27.65 | -3.71 | 0.621 |
| 80.00 | -29.60 | -24.41 | 0.00 | -1,170.6 | 0.00 | 1,170.59 | 2,959.19 | 710.49 | 2,247.49 | 2,016.11 | 31.68 | -3.98 | 0.592 |
| 80.60 | -29.46 | -24.37 | 0.00 | -1,156.0 | 0.00 | 1,155.97 | 2,951.62 | 707.82 | 2,230.61 | 2,003.31 | 32.18 | -4.02 | 0.588 |
| 81.00 | -29.06 | -23.99 | 0.00 | -1,146.2 | 0.00 | 1,146.17 | 2,946.54 | 706.03 | 2,219.35 | 1,994.75 | 32.52 | -4.04 | 0.586 |
| 85.00 | -27.60 | -23.74 | 0.00 | -1,050.2 | 0.00 | 1,050.22 | 2,890.34 | 688.18 | 2,108.58 | 1,906.68 | 35.99 | -4.26 | 0.562 |
| 85.41 | -27.41 | -23.56 | 0.00 | -1,040.6 | 0.00 | 1,040.58 | 2,288.92 | 584.11 | 1,822.63 | 1,541.12 | 36.36 | -4.28 | 0.689 |
| 90.00 | -26.48 | -23.24 | 0.00 | -932.4 | 0.00 | 932.36 | 2,248.28 | 567.03 | 1,717.61 | 1,469.07 | 40.59 | -4.53 | 0.648 |
| 93.00 | -22.32 | -20.40 | 0.00 | -862.6 | 0.00 | 862.64 | 2,220.88 | 555.87 | 1,650.70 | 1,422.34 | 43.5 | -4.71 | 0.618 |
| 95.00 | -21.91 | -20.13 | 0.00 | -821.8 | 0.00 | 821.85 | 2,202.24 | 548.43 | 1,606.83 | 1,391.34 | 45.49 | -4.83 | 0.602 |
| 100.00 | -20.96 | -19.71 | 0.00 | -721.2 | 0.00 | 721.19 | 2,154.33 | 529.83 | 1,499.75 | 1,314.46 | 50.7 | -5.11 | 0.560 |
| 105.00 | -20.04 | -19.37 | 0.00 | -622.6 | 0.00 | 622.63 | 2,104.53 | 511.24 | 1,396.36 | 1,238.55 | 56.19 | -5.39 | 0.514 |
| 107.60 | -19.47 | -18.26 | 0.00 | -572.3 | 0.00 | 572.27 | 2,077.90 | 501.57 | 1,344.05 | 1,199.49 | 59.16 | -5.53 | 0.488 |
| 110.00 | -19.04 | -17.97 | 0.00 | -528.4 | 0.00 | 528.44 | 2,052.86 | 492.64 | 1,296.66 | 1,163.72 | 61.97 | -5.66 | 0.465 |
| 115.00 | -18.18 | -17.55 | 0.00 | -438.6 | 0.00 | 438.58 | 1,991.00 | 474.05 | 1,200.65 | 1,085.58 | 68.02 | -5.9 | 0.415 |
| 120.00 | -17.35 | -17.20 | 0.00 | -350.8 | 0.00 | 350.83 | 1,912.90 | 455.45 | 1,108.34 | 1,001.61 | 74.32 | -6.13 | 0.361 |
| 122.12 | -17.00 | -16.95 | 0.00 | -314.3 | 0.00 | 314.32 | 1,879.75 | 447.56 | 1,070.27 | 966.99 | 77.06 | -6.22 | 0.336 |
| 125.00 | -16.34 | -16.70 | 0.00 | -265.6 | 0.00 | 265.55 | 1,834.80 | 436.86 | 1,019.72 | 921.02 | 80.84 | -6.34 | 0.299 |
| 125.89 | -16.15 | -16.46 | 0.00 | -250.8 | 0.00 | 250.76 | 929.71 | 265.44 | 627.22 | 475.02 | 82.02 | -6.37 | 0.549 |
| 130.00 | -15.65 | -16.13 | 0.00 | -183.0 | 0.00 | 183.05 | 915.30 | 256.25 | 584.59 | 451.36 | 87.56 | -6.5 | 0.427 |
| 132.00 | -14.04 | -13.72 | 0.00 | -150.8 | 0.00 | 150.80 | 907.83 | 251.79 | 564.41 | 439.82 | 90.3 | -6.59 | 0.361 |
| 133.00 | -11.14 | -11.58 | 0.00 | -137.1 | 0.00 | 137.08 | 903.99 | 249.56 | 554.45 | 434.05 | 91.68 | -6.63 | 0.330 |
| 135.00 | -10.93 | -11.22 | 0.00 | -113.9 | 0.00 | 113.92 | 896.07 | 245.10 | 534.80 | 422.49 | 94.46 | -6.7 | 0.284 |
| 140.00 | -6.02 | -6.16 | 0.00 | -57.8 | 0.00 | 57.79 | 874.97 | 233.94 | 487.23 | 393.61 | 101.54 | -6.83 | 0.154 |
| 142.20 | -5.80 | -5.41 | 0.00 | -44.2 | 0.00 | 44.24 | 865.09 | 229.03 | 467.00 | 380.93 | 104.69 | -6.87 | 0.123 |
| 145.00 | -5.55 | -5.19 | 0.00 | -29.1 | 0.00 | 29.09 | 851.99 | 222.78 | 441.88 | 364.84 | 108.72 | -6.9 | 0.087 |
| 146.00 | -5.47 | -5.03 | 0.00 | -23.9 | 0.00 | 23.90 | 920.33 | 276.10 | 376.25 | 378.53 | 110.16 | -6.91 | 0.069 |
| 146.00 | -5.47 | -5.03 | 0.00 | -23.9 | 0.00 | 23.90 | 847.17 | 220.55 | 433.07 | 359.11 | 110.16 | -6.91 | 0.074 |
| 149.00 | -1.41 | -0.90 | 0.00 | -5.8 | 0.00 | 5.79 | 920.33 | 276.10 | 376.25 | 378.53 | 114.51 | -6.93 | 0.017 |
| 150.00 | -1.32 | -0.79 | 0.00 | -4.9 | 0.00 | 4.89 | 920.33 | 276.10 | 376.25 | 378.53 | 115.96 | -6.94 | 0.014 |
| 155.00 | -0.17 | -0.13 | 0.00 | -0.9 | 0.00 | 0.92 | 920.33 | 276.10 | 376.25 | 378.53 | 123.21 | -6.94 | 0.003 |
| 155.00 | -0.17 | -0.13 | 0.00 | -0.9 | 0.00 | 0.92 | 70.80 | 21.24 | 6.13 | 6.17 | 123.21 | -6.94 | 0.151 |
| 160.00 | -0.10 | -0.06 | 0.00 | -0.2 | 0.00 | 0.25 | 70.80 | 21.24 | 6.13 | 6.17 | 130.46 | -6.94 | 0.042 |
| 164.10 | -0.01 | -0.01 | 0.00 | -0.0 | 0.00 | 0.01 | 70.80 | 21.24 | 6.13 | 6.17 | 136.44 | -6.99 | 0.001 |
| 165.00 | 0.00 | -0.01 | 0.00 | 0.0 | 0.00 | 0.00 | 70.80 | 21.24 | 6.13 | 6.17 | 137.75 | -6.99 | 0.000 |

Load Case: 0.9D + 1.0W Normal 118 mph wind with no ice 28 Iterations
Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

**CALCULATED FORCES**

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -41.59 | -30.19 | 0.00 | -3,323.0 | 0.00 | 3,322.99 | 4,665.07 | 1,225.36 | 5,729.16 | 4,709.48 | 0 | 0 | 0.715 |
| 5.00 | -40.21 | -29.82 | 0.00 | -3,172.0 | 0.00 | 3,172.05 | 4,609.22 | 1,199.33 | 5,488.38 | 4,553.37 | 0.11 | -0.21 | 0.706 |
| 10.00 | -38.85 | -29.47 | 0.00 | -3,022.9 | 0.00 | 3,022.93 | 4,551.49 | 1,173.29 | 5,252.76 | 4,397.87 | 0.45 | -0.43 | 0.697 |
| 15.00 | -37.51 | -29.11 | 0.00 | -2,875.6 | 0.00 | 2,875.61 | 4,491.88 | 1,147.26 | 5,022.31 | 4,243.09 | 1.01 | -0.64 | 0.687 |
| 20.00 | -36.20 | -28.76 | 0.00 | -2,730.1 | 0.00 | 2,730.06 | 4,430.39 | 1,121.23 | 4,797.04 | 4,089.15 | 1.81 | -0.87 | 0.676 |
| 25.00 | -34.92 | -28.41 | 0.00 | -2,586.3 | 0.00 | 2,586.26 | 4,367.03 | 1,095.19 | 4,576.93 | 3,936.18 | 2.83 | -1.09 | 0.666 |
| 30.00 | -33.65 | -28.06 | 0.00 | -2,444.2 | 0.00 | 2,444.21 | 4,301.78 | 1,069.16 | 4,361.99 | 3,784.31 | 4.1 | -1.32 | 0.654 |
| 35.00 | -32.42 | -27.70 | 0.00 | -2,303.9 | 0.00 | 2,303.90 | 4,234.66 | 1,043.12 | 4,152.22 | 3,633.64 | 5.61 | -1.55 | 0.642 |
| 40.00 | -31.25 | -27.50 | 0.00 | -2,165.4 | 0.00 | 2,165.39 | 4,165.66 | 1,017.09 | 3,947.62 | 3,484.31 | 7.36 | -1.79 | 0.630 |
| 40.10 | -31.18 | -27.32 | 0.00 | -2,162.5 | 0.00 | 2,162.53 | 4,164.20 | 1,016.55 | 3,943.41 | 3,481.21 | 7.4 | -1.79 | 0.629 |
| 45.00 | -29.31 | -27.05 | 0.00 | -2,028.8 | 0.00 | 2,028.77 | 4,094.78 | 991.06 | 3,748.18 | 3,336.43 | 9.36 | -2.03 | 0.616 |
| 45.90 | -28.93 | -26.86 | 0.00 | -2,004.5 | 0.00 | 2,004.47 | 3,345.47 | 862.69 | 3,313.03 | 2,772.94 | 9.74 | -2.07 | 0.732 |
| 50.00 | -28.05 | -26.50 | 0.00 | -1,894.3 | 0.00 | 1,894.31 | 3,303.63 | 844.38 | 3,173.97 | 2,679.63 | 11.61 | -2.27 | 0.716 |
| 55.00 | -27.01 | -26.10 | 0.00 | -1,761.8 | 0.00 | 1,761.79 | 3,250.92 | 822.07 | 3,008.48 | 2,566.54 | 14.13 | -2.54 | 0.696 |
| 60.00 | -26.01 | -25.77 | 0.00 | -1,631.3 | 0.00 | 1,631.27 | 3,196.33 | 799.75 | 2,847.42 | 2,454.29 | 16.93 | -2.81 | 0.674 |
| 63.00 | -25.08 | -25.19 | 0.00 | -1,554.0 | 0.00 | 1,553.96 | 3,162.67 | 786.36 | 2,752.91 | 2,387.39 | 18.75 | -2.97 | 0.660 |
| 65.00 | -24.66 | -24.92 | 0.00 | -1,503.6 | 0.00 | 1,503.57 | 3,139.86 | 777.44 | 2,690.79 | 2,343.00 | 20.01 | -3.08 | 0.651 |
| 70.00 | -23.69 | -24.51 | 0.00 | -1,379.0 | 0.00 | 1,378.96 | 3,081.51 | 755.12 | 2,538.59 | 2,232.79 | 23.38 | -3.35 | 0.626 |
| 75.00 | -22.74 | -24.09 | 0.00 | -1,256.4 | 0.00 | 1,256.43 | 3,021.29 | 732.81 | 2,390.82 | 2,123.79 | 27.03 | -3.62 | 0.600 |
| 80.00 | -21.85 | -23.83 | 0.00 | -1,136.0 | 0.00 | 1,135.99 | 2,959.19 | 710.49 | 2,247.49 | 2,016.11 | 30.96 | -3.89 | 0.572 |
| 80.60 | -21.74 | -23.78 | 0.00 | -1,121.7 | 0.00 | 1,121.72 | 2,951.62 | 707.82 | 2,230.61 | 2,003.31 | 31.45 | -3.92 | 0.568 |
| 81.00 | -21.44 | -23.39 | 0.00 | -1,112.2 | 0.00 | 1,112.16 | 2,946.54 | 706.03 | 2,219.35 | 1,994.75 | 31.78 | -3.94 | 0.566 |
| 85.00 | -20.34 | -23.15 | 0.00 | -1,018.6 | 0.00 | 1,018.58 | 2,890.34 | 688.18 | 2,108.58 | 1,906.68 | 35.17 | -4.15 | 0.542 |
| 85.41 | -20.19 | -22.96 | 0.00 | -1,009.2 | 0.00 | 1,009.17 | 2,288.92 | 584.11 | 1,822.63 | 1,541.12 | 35.53 | -4.18 | 0.665 |
| 90.00 | -19.48 | -22.63 | 0.00 | -903.7 | 0.00 | 903.71 | 2,248.28 | 567.03 | 1,717.61 | 1,469.07 | 39.66 | -4.41 | 0.625 |
| 93.00 | -16.40 | -19.87 | 0.00 | -835.8 | 0.00 | 835.82 | 2,220.88 | 555.87 | 1,650.70 | 1,422.34 | 42.49 | -4.59 | 0.596 |
| 95.00 | -16.09 | -19.58 | 0.00 | -796.1 | 0.00 | 796.09 | 2,202.24 | 548.43 | 1,606.83 | 1,391.34 | 44.43 | -4.7 | 0.581 |
| 100.00 | -15.36 | -19.16 | 0.00 | -698.2 | 0.00 | 698.17 | 2,154.33 | 529.83 | 1,499.75 | 1,314.46 | 49.5 | -4.98 | 0.540 |
| 105.00 | -14.66 | -18.81 | 0.00 | -602.4 | 0.00 | 602.39 | 2,104.53 | 511.24 | 1,396.36 | 1,238.55 | 54.86 | -5.25 | 0.495 |
| 107.60 | -14.25 | -17.71 | 0.00 | -553.5 | 0.00 | 553.49 | 2,077.90 | 501.57 | 1,344.05 | 1,199.49 | 57.75 | -5.38 | 0.470 |
| 110.00 | -13.92 | -17.41 | 0.00 | -511.0 | 0.00 | 510.99 | 2,052.86 | 492.64 | 1,296.66 | 1,163.72 | 60.48 | -5.51 | 0.447 |
| 115.00 | -13.27 | -16.99 | 0.00 | -423.9 | 0.00 | 423.93 | 1,991.00 | 474.05 | 1,200.65 | 1,085.58 | 66.37 | -5.75 | 0.398 |
| 120.00 | -12.65 | -16.65 | 0.00 | -339.0 | 0.00 | 338.98 | 1,912.90 | 455.45 | 1,108.34 | 1,001.61 | 72.5 | -5.97 | 0.346 |
| 122.12 | -12.39 | -16.40 | 0.00 | -303.6 | 0.00 | 303.64 | 1,879.75 | 447.56 | 1,070.27 | 966.99 | 75.17 | -6.05 | 0.322 |
| 125.00 | -11.90 | -16.17 | 0.00 | -256.5 | 0.00 | 256.46 | 1,834.80 | 436.86 | 1,019.72 | 921.02 | 78.85 | -6.16 | 0.286 |
| 125.89 | -11.75 | -15.92 | 0.00 | -242.1 | 0.00 | 242.14 | 929.71 | 265.44 | 627.22 | 475.02 | 79.99 | -6.2 | 0.526 |
| 130.00 | -11.38 | -15.59 | 0.00 | -176.6 | 0.00 | 176.65 | 915.30 | 256.25 | 584.59 | 451.36 | 85.38 | -6.32 | 0.407 |
| 132.00 | -10.23 | -13.24 | 0.00 | -145.5 | 0.00 | 145.46 | 907.83 | 251.79 | 564.41 | 439.82 | 88.04 | -6.41 | 0.345 |
| 133.00 | -8.09 | -11.20 | 0.00 | -132.2 | 0.00 | 132.22 | 903.99 | 249.56 | 554.45 | 434.05 | 89.39 | -6.45 | 0.316 |
| 135.00 | -7.94 | -10.84 | 0.00 | -109.8 | 0.00 | 109.83 | 896.07 | 245.10 | 534.80 | 422.49 | 92.1 | -6.51 | 0.271 |
| 140.00 | -4.38 | -5.95 | 0.00 | -55.6 | 0.00 | 55.63 | 874.97 | 233.94 | 487.23 | 393.61 | 98.98 | -6.64 | 0.147 |
| 142.20 | -4.22 | -5.20 | 0.00 | -42.6 | 0.00 | 42.55 | 865.09 | 229.03 | 467.00 | 380.93 | 102.04 | -6.68 | 0.117 |
| 145.00 | -4.04 | -4.99 | 0.00 | -28.0 | 0.00 | 27.98 | 851.99 | 222.78 | 441.88 | 364.84 | 105.96 | -6.71 | 0.082 |
| 146.00 | -3.99 | -4.84 | 0.00 | -23.0 | 0.00 | 22.99 | 920.33 | 276.10 | 376.25 | 378.53 | 107.36 | -6.72 | 0.065 |
| 146.00 | -3.99 | -4.84 | 0.00 | -23.0 | 0.00 | 22.99 | 847.17 | 220.55 | 433.07 | 359.11 | 107.36 | -6.72 | 0.069 |
| 149.00 | -1.04 | -0.85 | 0.00 | -5.5 | 0.00 | 5.47 | 920.33 | 276.10 | 376.25 | 378.53 | 111.58 | -6.74 | 0.016 |
| 150.00 | -0.97 | -0.75 | 0.00 | -4.6 | 0.00 | 4.62 | 920.33 | 276.10 | 376.25 | 378.53 | 112.99 | -6.74 | 0.013 |
| 155.00 | -0.12 | -0.13 | 0.00 | -0.9 | 0.00 | 0.87 | 920.33 | 276.10 | 376.25 | 378.53 | 120.04 | -6.75 | 0.002 |
| 155.00 | -0.12 | -0.13 | 0.00 | -0.9 | 0.00 | 0.87 | 70.80 | 21.24 | 6.13 | 6.17 | 120.04 | -6.75 | 0.143 |
| 160.00 | -0.07 | -0.06 | 0.00 | -0.2 | 0.00 | 0.23 | 70.80 | 21.24 | 6.13 | 6.17 | 127.09 | -6.75 | 0.039 |
| 164.10 | -0.01 | -0.01 | 0.00 | -0.0 | 0.00 | 0.01 | 70.80 | 21.24 | 6.13 | 6.17 | 132.9 | -6.8 | 0.001 |
| 165.00 | 0.00 | -0.01 | 0.00 | 0.0 | 0.00 | 0.00 | 70.80 | 21.24 | 6.13 | 6.17 | 134.18 | -6.8 | 0.000 |

| | | | | | |
|---|---|---|---|---|---|
| Load Case: 1.2D + 1.0Di + 1.0Wi Normal | | 50 mph wind with 1.5" radial ice | | | 28 Iterations |
| Gust Response Factor: | 1.10 | Ice Dead Load Factor | 1.00 | | |
| Dead load Factor: | 1.20 | | | Ice Importance Factor | 1.00 |
| Wind Load Factor: | 1.00 | | | | |

**CALCULATED FORCES**

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -86.04 | -7.45 | 0.00 | -885.3 | 0.00 | 885.32 | 4,665.07 | 1,225.36 | 5,729.16 | 4,709.48 | 0 | 0 | 0.206 |
| 5.00 | -83.86 | -7.41 | 0.00 | -848.1 | 0.00 | 848.09 | 4,609.22 | 1,199.33 | 5,488.38 | 4,553.37 | 0.03 | -0.06 | 0.204 |
| 10.00 | -81.66 | -7.37 | 0.00 | -811.0 | 0.00 | 811.05 | 4,551.49 | 1,173.29 | 5,252.76 | 4,397.87 | 0.12 | -0.11 | 0.202 |
| 15.00 | -79.47 | -7.33 | 0.00 | -774.2 | 0.00 | 774.22 | 4,491.88 | 1,147.26 | 5,022.31 | 4,243.09 | 0.27 | -0.17 | 0.200 |
| 20.00 | -77.30 | -7.29 | 0.00 | -737.6 | 0.00 | 737.58 | 4,430.39 | 1,121.23 | 4,797.04 | 4,089.15 | 0.48 | -0.23 | 0.198 |
| 25.00 | -75.15 | -7.25 | 0.00 | -701.2 | 0.00 | 701.15 | 4,367.03 | 1,095.19 | 4,576.93 | 3,936.18 | 0.76 | -0.29 | 0.195 |
| 30.00 | -73.04 | -7.20 | 0.00 | -664.9 | 0.00 | 664.92 | 4,301.78 | 1,069.16 | 4,361.99 | 3,784.31 | 1.1 | -0.36 | 0.193 |
| 35.00 | -70.95 | -7.15 | 0.00 | -628.9 | 0.00 | 628.91 | 4,234.66 | 1,043.12 | 4,152.22 | 3,633.64 | 1.51 | -0.42 | 0.190 |
| 40.00 | -68.90 | -7.12 | 0.00 | -593.1 | 0.00 | 593.14 | 4,165.66 | 1,017.09 | 3,947.62 | 3,484.31 | 1.98 | -0.48 | 0.187 |
| 40.10 | -68.86 | -7.10 | 0.00 | -592.4 | 0.00 | 592.40 | 4,164.20 | 1,016.55 | 3,943.41 | 3,481.21 | 1.99 | -0.48 | 0.187 |
| 45.00 | -65.88 | -7.05 | 0.00 | -557.6 | 0.00 | 557.63 | 4,094.78 | 991.06 | 3,748.18 | 3,336.43 | 2.52 | -0.55 | 0.183 |
| 45.90 | -65.33 | -7.02 | 0.00 | -551.3 | 0.00 | 551.30 | 3,345.47 | 862.69 | 3,313.03 | 2,772.94 | 2.62 | -0.56 | 0.218 |
| 50.00 | -63.82 | -6.97 | 0.00 | -522.5 | 0.00 | 522.49 | 3,303.63 | 844.38 | 3,173.97 | 2,679.63 | 3.13 | -0.62 | 0.214 |
| 55.00 | -62.00 | -6.91 | 0.00 | -487.6 | 0.00 | 487.63 | 3,250.92 | 822.07 | 3,008.48 | 2,566.54 | 3.81 | -0.69 | 0.209 |
| 60.00 | -60.21 | -6.86 | 0.00 | -453.1 | 0.00 | 453.07 | 3,196.33 | 799.75 | 2,847.42 | 2,454.29 | 4.58 | -0.76 | 0.204 |
| 63.00 | -58.49 | -6.72 | 0.00 | -432.5 | 0.00 | 432.49 | 3,162.67 | 786.36 | 2,752.91 | 2,387.39 | 5.07 | -0.81 | 0.200 |
| 65.00 | -57.79 | -6.68 | 0.00 | -419.0 | 0.00 | 419.05 | 3,139.86 | 777.44 | 2,690.79 | 2,343.00 | 5.42 | -0.84 | 0.197 |
| 70.00 | -56.07 | -6.61 | 0.00 | -385.6 | 0.00 | 385.65 | 3,081.51 | 755.12 | 2,538.59 | 2,232.79 | 6.34 | -0.92 | 0.191 |
| 75.00 | -54.38 | -6.54 | 0.00 | -352.6 | 0.00 | 352.60 | 3,021.29 | 732.81 | 2,390.82 | 2,123.79 | 7.34 | -0.99 | 0.184 |
| 80.00 | -52.73 | -6.48 | 0.00 | -319.9 | 0.00 | 319.92 | 2,959.19 | 710.49 | 2,247.49 | 2,016.11 | 8.41 | -1.07 | 0.177 |
| 80.60 | -52.53 | -6.47 | 0.00 | -316.0 | 0.00 | 316.04 | 2,951.62 | 707.82 | 2,230.61 | 2,003.31 | 8.55 | -1.08 | 0.176 |
| 81.00 | -52.01 | -6.38 | 0.00 | -313.4 | 0.00 | 313.44 | 2,946.54 | 706.03 | 2,219.35 | 1,994.75 | 8.64 | -1.08 | 0.175 |
| 85.00 | -50.16 | -6.33 | 0.00 | -287.9 | 0.00 | 287.90 | 2,890.34 | 688.18 | 2,108.58 | 1,906.68 | 9.57 | -1.14 | 0.168 |
| 85.41 | -49.97 | -6.30 | 0.00 | -285.3 | 0.00 | 285.33 | 2,288.92 | 584.11 | 1,822.63 | 1,541.12 | 9.67 | -1.15 | 0.207 |
| 90.00 | -48.63 | -6.23 | 0.00 | -256.4 | 0.00 | 256.41 | 2,248.28 | 567.03 | 1,717.61 | 1,469.07 | 10.81 | -1.22 | 0.196 |
| 93.00 | -41.61 | -5.47 | 0.00 | -237.7 | 0.00 | 237.71 | 2,220.88 | 555.87 | 1,650.70 | 1,422.34 | 11.59 | -1.26 | 0.186 |
| 95.00 | -41.04 | -5.42 | 0.00 | -226.8 | 0.00 | 226.78 | 2,202.24 | 548.43 | 1,606.83 | 1,391.34 | 12.12 | -1.3 | 0.182 |
| 100.00 | -39.65 | -5.32 | 0.00 | -199.7 | 0.00 | 199.71 | 2,154.33 | 529.83 | 1,499.75 | 1,314.46 | 13.52 | -1.38 | 0.170 |
| 105.00 | -38.27 | -5.24 | 0.00 | -173.1 | 0.00 | 173.09 | 2,104.53 | 511.24 | 1,396.36 | 1,238.55 | 15.01 | -1.45 | 0.158 |
| 107.60 | -36.83 | -4.97 | 0.00 | -159.5 | 0.00 | 159.46 | 2,077.90 | 501.57 | 1,344.05 | 1,199.49 | 15.81 | -1.49 | 0.151 |
| 110.00 | -36.19 | -4.91 | 0.00 | -147.5 | 0.00 | 147.52 | 2,052.86 | 492.64 | 1,296.66 | 1,163.72 | 16.57 | -1.53 | 0.144 |
| 115.00 | -34.89 | -4.81 | 0.00 | -123.0 | 0.00 | 122.97 | 1,991.00 | 474.05 | 1,200.65 | 1,085.58 | 18.21 | -1.6 | 0.131 |
| 120.00 | -33.62 | -4.73 | 0.00 | -98.9 | 0.00 | 98.92 | 1,912.90 | 455.45 | 1,108.34 | 1,001.61 | 19.92 | -1.66 | 0.116 |
| 122.12 | -33.07 | -4.68 | 0.00 | -88.9 | 0.00 | 88.89 | 1,879.75 | 447.56 | 1,070.27 | 966.99 | 20.66 | -1.69 | 0.110 |
| 125.00 | -32.15 | -4.62 | 0.00 | -75.4 | 0.00 | 75.44 | 1,834.80 | 436.86 | 1,019.72 | 921.02 | 21.69 | -1.72 | 0.100 |
| 125.89 | -31.86 | -4.58 | 0.00 | -71.4 | 0.00 | 71.35 | 929.71 | 265.44 | 627.22 | 475.02 | 22.01 | -1.73 | 0.185 |
| 130.00 | -30.98 | -4.50 | 0.00 | -52.5 | 0.00 | 52.52 | 915.30 | 256.25 | 584.59 | 451.36 | 23.51 | -1.77 | 0.151 |
| 132.00 | -26.91 | -3.89 | 0.00 | -43.5 | 0.00 | 43.51 | 907.83 | 251.79 | 564.41 | 439.82 | 24.26 | -1.79 | 0.129 |
| 133.00 | -22.21 | -3.28 | 0.00 | -39.6 | 0.00 | 39.63 | 903.99 | 249.56 | 554.45 | 434.05 | 24.64 | -1.8 | 0.116 |
| 135.00 | -21.81 | -3.21 | 0.00 | -33.1 | 0.00 | 33.07 | 896.07 | 245.10 | 534.80 | 422.49 | 25.39 | -1.82 | 0.103 |
| 140.00 | -11.86 | -1.78 | 0.00 | -17.0 | 0.00 | 17.03 | 874.97 | 233.94 | 487.23 | 393.61 | 27.33 | -1.86 | 0.057 |
| 142.20 | -10.94 | -1.57 | 0.00 | -13.1 | 0.00 | 13.13 | 865.09 | 229.03 | 467.00 | 380.93 | 28.19 | -1.87 | 0.047 |
| 145.00 | -10.49 | -1.52 | 0.00 | -8.7 | 0.00 | 8.72 | 851.99 | 222.78 | 441.88 | 364.84 | 29.29 | -1.88 | 0.036 |
| 146.00 | -10.33 | -1.49 | 0.00 | -7.2 | 0.00 | 7.20 | 920.33 | 276.10 | 376.25 | 378.53 | 29.68 | -1.89 | 0.030 |
| 146.00 | -10.33 | -1.49 | 0.00 | -7.2 | 0.00 | 7.20 | 847.17 | 220.55 | 433.07 | 359.11 | 29.68 | -1.89 | 0.032 |
| 149.00 | -2.40 | -0.30 | 0.00 | -2.0 | 0.00 | 1.97 | 920.33 | 276.10 | 376.25 | 378.53 | 30.87 | -1.89 | 0.008 |
| 150.00 | -2.25 | -0.25 | 0.00 | -1.7 | 0.00 | 1.67 | 920.33 | 276.10 | 376.25 | 378.53 | 31.27 | -1.89 | 0.007 |
| 155.00 | -0.50 | -0.06 | 0.00 | -0.4 | 0.00 | 0.40 | 920.33 | 276.10 | 376.25 | 378.53 | 33.25 | -1.9 | 0.002 |
| 155.00 | -0.50 | -0.06 | 0.00 | -0.4 | 0.00 | 0.40 | 70.80 | 21.24 | 6.13 | 6.17 | 33.25 | -1.9 | 0.072 |
| 160.00 | -0.37 | -0.03 | 0.00 | -0.1 | 0.00 | 0.12 | 70.80 | 21.24 | 6.13 | 6.17 | 35.23 | -1.9 | 0.025 |
| 164.10 | -0.02 | 0.00 | 0.00 | 0.0 | 0.00 | 0.00 | 70.80 | 21.24 | 6.13 | 6.17 | 36.88 | -1.92 | 0.001 |
| 165.00 | 0.00 | 0.00 | 0.00 | 0.0 | 0.00 | 0.00 | 70.80 | 21.24 | 6.13 | 6.17 | 37.24 | -1.92 | 0.000 |

Load Case: 1.0D + 1.0W Service Normal 60 mph Wind with No Ice 27 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.00
Wind Load Factor: 1.00

**CALCULATED FORCES**

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -46.27 | -6.98 | 0.00 | -774.8 | 0.00 | 774.84 | 4,665.07 | 1,225.36 | 5,729.16 | 4,709.48 | 0 | 0 | 0.174 |
| 5.00 | -44.85 | -6.91 | 0.00 | -739.9 | 0.00 | 739.92 | 4,609.22 | 1,199.33 | 5,488.38 | 4,553.37 | 0.03 | -0.05 | 0.172 |
| 10.00 | -43.45 | -6.83 | 0.00 | -705.4 | 0.00 | 705.39 | 4,551.49 | 1,173.29 | 5,252.76 | 4,397.87 | 0.1 | -0.1 | 0.170 |
| 15.00 | -42.09 | -6.75 | 0.00 | -671.3 | 0.00 | 671.26 | 4,491.88 | 1,147.26 | 5,022.31 | 4,243.09 | 0.24 | -0.15 | 0.168 |
| 20.00 | -40.74 | -6.67 | 0.00 | -637.5 | 0.00 | 637.52 | 4,430.39 | 1,121.23 | 4,797.04 | 4,089.15 | 0.42 | -0.2 | 0.165 |
| 25.00 | -39.42 | -6.59 | 0.00 | -604.2 | 0.00 | 604.17 | 4,367.03 | 1,095.19 | 4,576.93 | 3,936.18 | 0.66 | -0.25 | 0.163 |
| 30.00 | -38.13 | -6.52 | 0.00 | -571.2 | 0.00 | 571.20 | 4,301.78 | 1,069.16 | 4,361.99 | 3,784.31 | 0.96 | -0.31 | 0.160 |
| 35.00 | -36.86 | -6.44 | 0.00 | -538.6 | 0.00 | 538.61 | 4,234.66 | 1,043.12 | 4,152.22 | 3,633.64 | 1.31 | -0.36 | 0.157 |
| 40.00 | -35.62 | -6.39 | 0.00 | -506.4 | 0.00 | 506.43 | 4,165.66 | 1,017.09 | 3,947.62 | 3,484.31 | 1.72 | -0.42 | 0.154 |
| 40.10 | -35.59 | -6.35 | 0.00 | -505.8 | 0.00 | 505.76 | 4,164.20 | 1,016.55 | 3,943.41 | 3,481.21 | 1.73 | -0.42 | 0.154 |
| 45.00 | -33.57 | -6.29 | 0.00 | -474.7 | 0.00 | 474.66 | 4,094.78 | 991.06 | 3,748.18 | 3,336.43 | 2.18 | -0.47 | 0.151 |
| 45.90 | -33.20 | -6.25 | 0.00 | -469.0 | 0.00 | 469.01 | 3,345.47 | 862.69 | 3,313.03 | 2,772.94 | 2.27 | -0.48 | 0.179 |
| 50.00 | -32.32 | -6.17 | 0.00 | -443.4 | 0.00 | 443.38 | 3,303.63 | 844.38 | 3,173.97 | 2,679.63 | 2.71 | -0.53 | 0.175 |
| 55.00 | -31.27 | -6.08 | 0.00 | -412.5 | 0.00 | 412.53 | 3,250.92 | 822.07 | 3,008.48 | 2,566.54 | 3.3 | -0.59 | 0.170 |
| 60.00 | -30.24 | -6.01 | 0.00 | -382.1 | 0.00 | 382.12 | 3,196.33 | 799.75 | 2,847.42 | 2,454.29 | 3.95 | -0.66 | 0.165 |
| 63.00 | -29.24 | -5.87 | 0.00 | -364.1 | 0.00 | 364.10 | 3,162.67 | 786.36 | 2,752.91 | 2,387.39 | 4.38 | -0.69 | 0.162 |
| 65.00 | -28.83 | -5.81 | 0.00 | -352.4 | 0.00 | 352.35 | 3,139.86 | 777.44 | 2,690.79 | 2,343.00 | 4.68 | -0.72 | 0.160 |
| 70.00 | -27.85 | -5.72 | 0.00 | -323.3 | 0.00 | 323.28 | 3,081.51 | 755.12 | 2,538.59 | 2,232.79 | 5.46 | -0.78 | 0.154 |
| 75.00 | -26.88 | -5.63 | 0.00 | -294.7 | 0.00 | 294.67 | 3,021.29 | 732.81 | 2,390.82 | 2,123.79 | 6.32 | -0.85 | 0.148 |
| 80.00 | -25.94 | -5.57 | 0.00 | -266.5 | 0.00 | 266.53 | 2,959.19 | 710.49 | 2,247.49 | 2,016.11 | 7.24 | -0.91 | 0.141 |
| 80.60 | -25.83 | -5.56 | 0.00 | -263.2 | 0.00 | 263.19 | 2,951.62 | 707.82 | 2,230.61 | 2,003.31 | 7.35 | -0.92 | 0.140 |
| 81.00 | -25.51 | -5.47 | 0.00 | -261.0 | 0.00 | 260.96 | 2,946.54 | 706.03 | 2,219.35 | 1,994.75 | 7.43 | -0.92 | 0.140 |
| 85.00 | -24.32 | -5.41 | 0.00 | -239.1 | 0.00 | 239.08 | 2,890.34 | 688.18 | 2,108.58 | 1,906.68 | 8.22 | -0.97 | 0.134 |
| 85.41 | -24.20 | -5.37 | 0.00 | -236.9 | 0.00 | 236.88 | 2,288.92 | 584.11 | 1,822.63 | 1,541.12 | 8.31 | -0.98 | 0.164 |
| 90.00 | -23.46 | -5.30 | 0.00 | -212.2 | 0.00 | 212.21 | 2,248.28 | 567.03 | 1,717.61 | 1,469.07 | 9.27 | -1.03 | 0.155 |
| 93.00 | -19.87 | -4.65 | 0.00 | -196.3 | 0.00 | 196.32 | 2,220.88 | 555.87 | 1,650.70 | 1,422.34 | 9.94 | -1.07 | 0.147 |
| 95.00 | -19.56 | -4.59 | 0.00 | -187.0 | 0.00 | 187.02 | 2,202.24 | 548.43 | 1,606.83 | 1,391.34 | 10.39 | -1.1 | 0.143 |
| 100.00 | -18.81 | -4.49 | 0.00 | -164.1 | 0.00 | 164.08 | 2,154.33 | 529.83 | 1,499.75 | 1,314.46 | 11.58 | -1.17 | 0.134 |
| 105.00 | -18.07 | -4.41 | 0.00 | -141.6 | 0.00 | 141.62 | 2,104.53 | 511.24 | 1,396.36 | 1,238.55 | 12.84 | -1.23 | 0.123 |
| 107.60 | -17.55 | -4.16 | 0.00 | -130.2 | 0.00 | 130.15 | 2,077.90 | 501.57 | 1,344.05 | 1,199.49 | 13.51 | -1.26 | 0.117 |
| 110.00 | -17.20 | -4.09 | 0.00 | -120.2 | 0.00 | 120.18 | 2,052.86 | 492.64 | 1,296.66 | 1,163.72 | 14.16 | -1.29 | 0.112 |
| 115.00 | -16.51 | -3.99 | 0.00 | -99.7 | 0.00 | 99.73 | 1,991.00 | 474.05 | 1,200.65 | 1,085.58 | 15.54 | -1.35 | 0.100 |
| 120.00 | -15.83 | -3.91 | 0.00 | -79.8 | 0.00 | 79.77 | 1,912.90 | 455.45 | 1,108.34 | 1,001.61 | 16.98 | -1.4 | 0.088 |
| 122.12 | -15.53 | -3.86 | 0.00 | -71.5 | 0.00 | 71.46 | 1,879.75 | 447.56 | 1,070.27 | 966.99 | 17.6 | -1.42 | 0.082 |
| 125.00 | -14.99 | -3.80 | 0.00 | -60.4 | 0.00 | 60.37 | 1,834.80 | 436.86 | 1,019.72 | 921.02 | 18.46 | -1.44 | 0.074 |
| 125.89 | -14.82 | -3.74 | 0.00 | -57.0 | 0.00 | 57.00 | 929.71 | 265.44 | 627.22 | 475.02 | 18.73 | -1.45 | 0.136 |
| 130.00 | -14.40 | -3.67 | 0.00 | -41.6 | 0.00 | 41.60 | 915.30 | 256.25 | 584.59 | 451.36 | 20 | -1.48 | 0.108 |
| 132.00 | -12.86 | -3.12 | 0.00 | -34.3 | 0.00 | 34.26 | 907.83 | 251.79 | 564.41 | 439.82 | 20.62 | -1.5 | 0.092 |
| 133.00 | -10.27 | -2.64 | 0.00 | -31.1 | 0.00 | 31.14 | 903.99 | 249.56 | 554.45 | 434.05 | 20.94 | -1.51 | 0.083 |
| 135.00 | -10.08 | -2.55 | 0.00 | -25.9 | 0.00 | 25.87 | 896.07 | 245.10 | 534.80 | 422.49 | 21.58 | -1.53 | 0.073 |
| 140.00 | -5.56 | -1.40 | 0.00 | -13.1 | 0.00 | 13.11 | 874.97 | 233.94 | 487.23 | 393.61 | 23.19 | -1.56 | 0.040 |
| 142.20 | -5.30 | -1.23 | 0.00 | -10.0 | 0.00 | 10.03 | 865.09 | 229.03 | 467.00 | 380.93 | 23.91 | -1.56 | 0.032 |
| 145.00 | -5.08 | -1.18 | 0.00 | -6.6 | 0.00 | 6.59 | 851.99 | 222.78 | 441.88 | 364.84 | 24.83 | -1.57 | 0.024 |
| 146.00 | -5.00 | -1.14 | 0.00 | -5.4 | 0.00 | 5.42 | 920.33 | 276.10 | 376.25 | 378.53 | 25.16 | -1.58 | 0.020 |
| 146.00 | -5.00 | -1.14 | 0.00 | -5.4 | 0.00 | 5.42 | 847.17 | 220.55 | 433.07 | 359.11 | 25.16 | -1.58 | 0.021 |
| 149.00 | -1.25 | -0.20 | 0.00 | -1.3 | 0.00 | 1.30 | 920.33 | 276.10 | 376.25 | 378.53 | 26.15 | -1.58 | 0.005 |
| 150.00 | -1.16 | -0.18 | 0.00 | -1.1 | 0.00 | 1.09 | 920.33 | 276.10 | 376.25 | 378.53 | 26.48 | -1.58 | 0.004 |
| 155.00 | -0.15 | -0.03 | 0.00 | -0.2 | 0.00 | 0.21 | 920.33 | 276.10 | 376.25 | 378.53 | 28.14 | -1.58 | 0.001 |
| 155.00 | -0.15 | -0.03 | 0.00 | -0.2 | 0.00 | 0.21 | 70.80 | 21.24 | 6.13 | 6.17 | 28.14 | -1.58 | 0.035 |
| 160.00 | -0.09 | -0.01 | 0.00 | -0.1 | 0.00 | 0.06 | 70.80 | 21.24 | 6.13 | 6.17 | 29.8 | -1.58 | 0.010 |
| 164.10 | -0.01 | 0.00 | 0.00 | 0.0 | 0.00 | 0.00 | 70.80 | 21.24 | 6.13 | 6.17 | 31.16 | -1.59 | 0.000 |
| 165.00 | 0.00 | 0.00 | 0.00 | 0.0 | 0.00 | 0.00 | 70.80 | 21.24 | 6.13 | 6.17 | 31.46 | -1.59 | 0.000 |

## EQUIVALENT LATERAL FORCES METHOD ANALYSIS

*(Based on ASCE7-16 Chapters 11, 12 and 15)*

| | |
|---|---|
| Spectral Response Acceleration for Short Period ($S_S$): | 0.181 |
| Spectral Response Acceleration at 1.0 Second Period ($S_1$): | 0.055 |
| Long-Period Transition Period ($T_L$ – Seconds): | 6 |
| Importance Factor ($I_e$): | 1.000 |
| Site Coefficient $F_a$: | 1.600 |
| Site Coefficient $F_v$: | 2.400 |
| Response Modification Coefficient (R): | 1.500 |
| Design Spectral Response Acceleration at Short Period ($S_{ds}$): | 0.193 |
| Design Spectral Response Acceleration at 1.0 Second Period ($S_{d1}$): | 0.088 |
| Seismic Response Coefficient ($C_s$): | 0.030 |
| Upper Limit $C_S$: | 0.030 |
| Lower Limit $C_S$: | 0.030 |
| Period based on Rayleigh Method (sec): | 3.010 |
| Redundancy Factor (p): | 1.000 |
| Seismic Force Distribution Exponent (k): | 2.000 |
| Total Unfactored Dead Load: | 46.270 k |
| Seismic Base Shear (E): | 1.390 k |

**1.2D + 1.0Ev + 1.0Eh Normal** **Seismic**

| Segment | Height Above Base (ft) | Weight (lb) | $W_z$ (lb-ft) | $C_{vx}$ | Horizontal Force (lb) | Vertical Force (lb) |
|---|---|---|---|---|---|---|
| 49 | 164.55 | 7 | 186 | 0.000 | 1 | 9 |
| 48 | 162.05 | 41 | 1,082 | 0.002 | 3 | 51 |
| 47 | 157.5 | 63 | 1,559 | 0.004 | 5 | 78 |
| 46 | 152.5 | 439 | 10,206 | 0.023 | 32 | 544 |
| 45 | 149.5 | 88 | 1,962 | 0.004 | 6 | 109 |
| 44 | 147.5 | 357 | 7,756 | 0.017 | 24 | 442 |
| 43 | 145.5 | 79 | 1,672 | 0.004 | 5 | 98 |
| 42 | 143.6 | 223 | 4,607 | 0.010 | 14 | 277 |
| 41 | 141.1 | 178 | 3,542 | 0.008 | 11 | 220 |
| 40 | 137.5 | 474 | 8,968 | 0.020 | 28 | 588 |
| 39 | 134 | 193 | 3,461 | 0.008 | 11 | 239 |
| 38 | 132.5 | 97 | 1,704 | 0.004 | 5 | 120 |
| 37 | 131 | 203 | 3,483 | 0.008 | 11 | 251 |
| 36 | 127.9427 | 423 | 6,924 | 0.016 | 22 | 524 |
| 35 | 125.4427 | 167 | 2,623 | 0.006 | 8 | 206 |
| 34 | 123.5612 | 548 | 8,367 | 0.019 | 26 | 679 |
| 33 | 121.0612 | 297 | 4,348 | 0.010 | 14 | 367 |
| 32 | 117.5 | 677 | 9,350 | 0.021 | 29 | 839 |
| 31 | 112.5 | 695 | 8,799 | 0.020 | 27 | 861 |
| 30 | 108.8 | 340 | 4,026 | 0.009 | 13 | 421 |
| 29 | 106.3 | 373 | 4,216 | 0.010 | 13 | 462 |
| 28 | 102.5 | 731 | 7,683 | 0.017 | 24 | 906 |
| 27 | 97.5 | 749 | 7,123 | 0.016 | 22 | 928 |
| 26 | 94 | 305 | 2,693 | 0.006 | 8 | 377 |
| 25 | 91.5 | 470 | 3,932 | 0.009 | 12 | 582 |
| 24 | 87.7031 | 732 | 5,628 | 0.013 | 18 | 906 |
| 23 | 85.2031 | 120 | 868 | 0.002 | 3 | 148 |
| 22 | 83 | 1,191 | 8,207 | 0.018 | 26 | 1,476 |
| 21 | 80.7995 | 121 | 789 | 0.002 | 2 | 150 |
| 20 | 80.2995 | 111 | 716 | 0.002 | 2 | 137 |
| 19 | 77.5 | 939 | 5,638 | 0.013 | 18 | 1,163 |
| 18 | 72.5 | 960 | 5,048 | 0.011 | 16 | 1,189 |
| 17 | 67.5 | 982 | 4,474 | 0.010 | 14 | 1,216 |
| 16 | 64 | 399 | 1,634 | 0.004 | 5 | 494 |

| Segment | Height Above Base (ft) | Weight (lb) | $W_z$ (lb-ft) | $C_{vx}$ | Horizontal Force (lb) | Vertical Force (lb) |
|---|---|---|---|---|---|---|
| 15 | 61.5 | 605 | 2,287 | 0.005 | 7 | 749 |
| 14 | 57.5 | 1,025 | 3,390 | 0.008 | 11 | 1,270 |
| 13 | 52.5 | 1,047 | 2,885 | 0.006 | 9 | 1,297 |
| 12 | 47.9492 | 875 | 2,012 | 0.004 | 6 | 1,084 |
| 11 | 45.4492 | 366 | 756 | 0.002 | 2 | 453 |
| 10 | 42.5521 | 2,020 | 3,658 | 0.008 | 11 | 2,502 |
| 9 | 40.0521 | 26 | 41 | 0.000 | 0 | 32 |
| 8 | 37.5 | 1,238 | 1,741 | 0.004 | 5 | 1,533 |
| 7 | 32.5 | 1,263 | 1,334 | 0.003 | 4 | 1,564 |
| 6 | 27.5 | 1,288 | 974 | 0.002 | 3 | 1,596 |
| 5 | 22.5 | 1,313 | 665 | 0.002 | 2 | 1,627 |
| 4 | 17.5 | 1,339 | 410 | 0.001 | 1 | 1,658 |
| 3 | 12.5 | 1,364 | 213 | 0.000 | 1 | 1,689 |
| 2 | 7.5 | 1,389 | 78 | 0.000 | 0 | 1,721 |
| 1 | 2.5 | 1,414 | 9 | 0.000 | 0 | 1,752 |
| EMS RR90-17-02DP | 164.1 | 40 | 1,091 | 0.002 | 3 | 50 |
| Ericsson KRY 112 71/x (12.8"x5.9") | 155 | 79 | 1,903 | 0.004 | 6 | 98 |
| Canister | 155 | 500 | 12,012 | 0.027 | 37 | 619 |
| Andrew ABT-DMDF-ADBH | 149 | 1 | 24 | 0.000 | 0 | 1 |
| Powerwave Allgon 7020.00 Dual Band RET | 149 | 7 | 147 | 0.000 | 0 | 8 |
| Kathrein Scala 782-10250 | 149 | 38 | 853 | 0.002 | 3 | 48 |
| CCI DTMABP7819VG12A | 149 | 115 | 2,558 | 0.006 | 8 | 143 |
| Raycap DC6-48-60-18-8F ("Squid") | 149 | 32 | 706 | 0.002 | 2 | 39 |
| Ericsson RRUS 11 (Band 12) | 149 | 150 | 3,330 | 0.008 | 10 | 186 |
| Ericsson RRUS-12 800 MHz | 149 | 180 | 3,996 | 0.009 | 12 | 223 |
| Powerwave Allgon 7770.00 | 149 | 105 | 2,331 | 0.005 | 7 | 130 |
| KMW AM-X-CD-16-65-00T-RET | 149 | 291 | 6,460 | 0.014 | 20 | 360 |
| Generic Flat Platform with Handrails | 149 | 2,500 | 55,502 | 0.124 | 173 | 3,097 |
| Generic Flat Platform with Handrails | 140 | 2,500 | 49,000 | 0.110 | 153 | 3,097 |
| Generic Flat Platform with Handrails | 133 | 2,500 | 44,222 | 0.099 | 138 | 3,097 |
| Generic Flat Platform with Handrails | 93 | 2,500 | 21,622 | 0.048 | 67 | 3,097 |
| Decibel DB844G90A-XY | 142.2 | 84 | 1,699 | 0.004 | 5 | 104 |
| Commscope CBC78T-DS-43-2X | 140 | 124 | 2,434 | 0.006 | 8 | 154 |
| Samsung Outdoor CBRS 20W RRH | 140 | 56 | 1,094 | 0.002 | 3 | 69 |
| Samsung B5/B13 RRH-BR04C | 140 | 211 | 4,134 | 0.009 | 13 | 261 |
| Samsung B2/B66A RRH-BR049 | 140 | 253 | 4,963 | 0.011 | 15 | 314 |
| Raycap RRFDC-3315-PF-48 | 140 | 54 | 1,054 | 0.002 | 3 | 67 |
| Swedcom SC 9012 | 140 | 20 | 392 | 0.001 | 1 | 25 |
| RFS APL868013-42T0-00 | 140 | 25 | 494 | 0.001 | 2 | 31 |
| Samsung CBRS 64T64R MMU | 140 | 225 | 4,410 | 0.010 | 14 | 279 |
| Samsung MT6407-77A | 140 | 245 | 4,798 | 0.011 | 15 | 303 |
| Commscope JAHH-65B-R3B | 140 | 364 | 7,127 | 0.016 | 22 | 450 |
| Ericsson Radio 4460 B25+B66 | 132 | 327 | 5,698 | 0.013 | 18 | 405 |
| Ericsson Radio 4480 B71+B85A | 132 | 252 | 4,391 | 0.010 | 14 | 312 |
| Ericsson Air6449 B41 | 132 | 312 | 5,436 | 0.012 | 17 | 386 |
| Commscope VV-65A-R1 | 132 | 71 | 1,244 | 0.003 | 4 | 88 |
| RFS APXVAARR24_43-U-NA20 | 132 | 384 | 6,686 | 0.015 | 21 | 475 |
| Commscope LNX-6515DS-VTM | 107.6 | 151 | 1,747 | 0.004 | 5 | 187 |
| Kathrein Scala Smart Bias Tee | 105 | 10 | 109 | 0.000 | 0 | 12 |
| Commscope RDIDC-9181-PF-48 | 93 | 22 | 189 | 0.000 | 1 | 27 |
| Fujitsu TA08025-B605 | 93 | 225 | 1,946 | 0.004 | 6 | 279 |
| Fujitsu TA08025-B604 | 93 | 192 | 1,658 | 0.004 | 5 | 237 |
| JMA Wireless MX08FRO665-21 | 93 | 194 | 1,674 | 0.004 | 5 | 240 |
| Generic GPS | 81 | 10 | 66 | 0.000 | 0 | 12 |
| Generic GPS | 63 | 20 | 79 | 0.000 | 0 | 25 |
| Generic Round Stand-Off | 81 | 188 | 1,230 | 0.003 | 4 | 232 |
| Generic Round Stand-Off | 63 | 375 | 1,488 | 0.003 | 5 | 464 |
| | | 46,273 | 445,723 | 1.000 | 1,388 | 57,315 |

**0.9D - 1.0Ev + 1.0Eh Normal** **Seismic (Reduced DL)**

| Segment | Height Above Base (ft) | Weight (lb) | $W_z$ (lb-ft) | $C_{vx}$ | Horizontal Force (lb) | Vertical Force (lb) |
|---|---|---|---|---|---|---|
| 49 | 164.55 | 7 | 186 | 0.000 | 1 | 6 |
| 48 | 162.05 | 41 | 1,082 | 0.002 | 3 | 35 |
| 47 | 157.5 | 63 | 1,559 | 0.004 | 5 | 54 |
| 46 | 152.5 | 439 | 10,206 | 0.023 | 32 | 378 |
| 45 | 149.5 | 88 | 1,962 | 0.004 | 6 | 76 |
| 44 | 147.5 | 357 | 7,756 | 0.017 | 24 | 307 |
| 43 | 145.5 | 79 | 1,672 | 0.004 | 5 | 68 |
| 42 | 143.6 | 223 | 4,607 | 0.010 | 14 | 192 |
| 41 | 141.1 | 178 | 3,542 | 0.008 | 11 | 153 |
| 40 | 137.5 | 474 | 8,968 | 0.020 | 28 | 409 |
| 39 | 134 | 193 | 3,461 | 0.008 | 11 | 166 |
| 38 | 132.5 | 97 | 1,704 | 0.004 | 5 | 84 |
| 37 | 131 | 203 | 3,483 | 0.008 | 11 | 175 |
| 36 | 127.9427 | 423 | 6,924 | 0.016 | 22 | 364 |
| 35 | 125.4427 | 167 | 2,623 | 0.006 | 8 | 144 |
| 34 | 123.5612 | 548 | 8,367 | 0.019 | 26 | 472 |
| 33 | 121.0612 | 297 | 4,348 | 0.010 | 14 | 256 |
| 32 | 117.5 | 677 | 9,350 | 0.021 | 29 | 583 |
| 31 | 112.5 | 695 | 8,799 | 0.020 | 27 | 599 |
| 30 | 108.8 | 340 | 4,026 | 0.009 | 13 | 293 |
| 29 | 106.3 | 373 | 4,216 | 0.010 | 13 | 321 |
| 28 | 102.5 | 731 | 7,683 | 0.017 | 24 | 630 |
| 27 | 97.5 | 749 | 7,123 | 0.016 | 22 | 645 |
| 26 | 94 | 305 | 2,693 | 0.006 | 8 | 263 |
| 25 | 91.5 | 470 | 3,932 | 0.009 | 12 | 404 |
| 24 | 87.7031 | 732 | 5,628 | 0.013 | 18 | 630 |
| 23 | 85.2031 | 120 | 868 | 0.002 | 3 | 103 |
| 22 | 83 | 1,191 | 8,207 | 0.018 | 26 | 1,026 |
| 21 | 80.7995 | 121 | 789 | 0.002 | 2 | 104 |
| 20 | 80.2995 | 111 | 716 | 0.002 | 2 | 96 |
| 19 | 77.5 | 939 | 5,638 | 0.013 | 18 | 809 |
| 18 | 72.5 | 960 | 5,048 | 0.011 | 16 | 827 |
| 17 | 67.5 | 982 | 4,474 | 0.010 | 14 | 846 |
| 16 | 64 | 399 | 1,634 | 0.004 | 5 | 344 |
| 15 | 61.5 | 605 | 2,287 | 0.005 | 7 | 521 |
| 14 | 57.5 | 1,025 | 3,390 | 0.008 | 11 | 883 |
| 13 | 52.5 | 1,047 | 2,885 | 0.006 | 9 | 902 |
| 12 | 47.9492 | 875 | 2,012 | 0.004 | 6 | 754 |
| 11 | 45.4492 | 366 | 756 | 0.002 | 2 | 315 |
| 10 | 42.5521 | 2,020 | 3,658 | 0.008 | 11 | 1,740 |
| 9 | 40.0521 | 26 | 41 | 0.000 | 0 | 22 |
| 8 | 37.5 | 1,238 | 1,741 | 0.004 | 5 | 1,066 |
| 7 | 32.5 | 1,263 | 1,334 | 0.003 | 4 | 1,088 |
| 6 | 27.5 | 1,288 | 974 | 0.002 | 3 | 1,110 |
| 5 | 22.5 | 1,313 | 665 | 0.002 | 2 | 1,131 |
| 4 | 17.5 | 1,339 | 410 | 0.001 | 1 | 1,153 |
| 3 | 12.5 | 1,364 | 213 | 0.000 | 1 | 1,175 |
| 2 | 7.5 | 1,389 | 78 | 0.000 | 0 | 1,197 |
| 1 | 2.5 | 1,414 | 9 | 0.000 | 0 | 1,218 |
| EMS RR90-17-02DP | 164.1 | 40 | 1,091 | 0.002 | 3 | 35 |
| Ericsson KRY 112 71/x (12.8"x5.9") | 155 | 79 | 1,903 | 0.004 | 6 | 68 |
| Canister | 155 | 500 | 12,012 | 0.027 | 37 | 431 |
| Andrew ABT-DMDF-ADBH | 149 | 1 | 24 | 0.000 | 0 | 1 |
| Powerwave Allgon 7020.00 Dual Band RET | 149 | 7 | 147 | 0.000 | 0 | 6 |
| Kathrein Scala 782-10250 | 149 | 38 | 853 | 0.002 | 3 | 33 |
| CCI DTMABP7819VG12A | 149 | 115 | 2,558 | 0.006 | 8 | 99 |
| Raycap DC6-48-60-18-8F ("Squid") | 149 | 32 | 706 | 0.002 | 2 | 27 |
| Ericsson RRUS 11 (Band 12) | 149 | 150 | 3,330 | 0.008 | 10 | 129 |
| Ericsson RRUS-12 800 MHz | 149 | 180 | 3,996 | 0.009 | 12 | 155 |
| Powerwave Allgon 7770.00 | 149 | 105 | 2,331 | 0.005 | 7 | 90 |
| KMW AM-X-CD-16-65-00T-RET | 149 | 291 | 6,460 | 0.014 | 20 | 251 |
| Generic Flat Platform with Handrails | 149 | 2,500 | 55,502 | 0.124 | 173 | 2,153 |
| Generic Flat Platform with Handrails | 140 | 2,500 | 49,000 | 0.110 | 153 | 2,153 |
| Generic Flat Platform with Handrails | 133 | 2,500 | 44,222 | 0.099 | 138 | 2,153 |
| Generic Flat Platform with Handrails | 93 | 2,500 | 21,622 | 0.048 | 67 | 2,153 |
| Decibel DB844G90A-XY | 142.2 | 84 | 1,699 | 0.004 | 5 | 72 |
| Commscope CBC78T-DS-43-2X | 140 | 124 | 2,434 | 0.006 | 8 | 107 |
| Samsung Outdoor CBRS 20W RRH | 140 | 56 | 1,094 | 0.002 | 3 | 48 |
| Samsung B5/B13 RRH-BR04C | 140 | 211 | 4,134 | 0.009 | 13 | 182 |
| Samsung B2/B66A RRH-BR049 | 140 | 253 | 4,963 | 0.011 | 15 | 218 |

| Segment | Height Above Base (ft) | Weight (lb) | $W_z$ (lb-ft) | $C_{vx}$ | Horizontal Force (lb) | Vertical Force (lb) |
|---|---|---|---|---|---|---|
| Raycap RRFDC-3315-PF-48 | 140 | 54 | 1,054 | 0.002 | 3 | 46 |
| Swedcom SC 9012 | 140 | 20 | 392 | 0.001 | 1 | 17 |
| RFS APL868013-42T0-00 | 140 | 25 | 494 | 0.001 | 2 | 22 |
| Samsung CBRS 64T64R MMU | 140 | 225 | 4,410 | 0.010 | 14 | 194 |
| Samsung MT6407-77A | 140 | 245 | 4,798 | 0.011 | 15 | 211 |
| Commscope JAHH-65B-R3B | 140 | 364 | 7,127 | 0.016 | 22 | 313 |
| Ericsson Radio 4460 B25+B66 | 132 | 327 | 5,698 | 0.013 | 18 | 282 |
| Ericsson Radio 4480 B71+B85A | 132 | 252 | 4,391 | 0.010 | 14 | 217 |
| Ericsson Air6449 B41 | 132 | 312 | 5,436 | 0.012 | 17 | 269 |
| Commscope VV-65A-R1 | 132 | 71 | 1,244 | 0.003 | 4 | 62 |
| RFS APXVAARR24_43-U-NA20 | 132 | 384 | 6,686 | 0.015 | 21 | 331 |
| Commscope LNX-6515DS-VTM | 107.6 | 151 | 1,747 | 0.004 | 5 | 130 |
| Kathrein Scala Smart Bias Tee | 105 | 10 | 109 | 0.000 | 0 | 9 |
| Commscope RDIDC-9181-PF-48 | 93 | 22 | 189 | 0.000 | 1 | 19 |
| Fujitsu TA08025-B605 | 93 | 225 | 1,946 | 0.004 | 6 | 194 |
| Fujitsu TA08025-B604 | 93 | 192 | 1,658 | 0.004 | 5 | 165 |
| JMA Wireless MX08FRO665-21 | 93 | 194 | 1,674 | 0.004 | 5 | 167 |
| Generic GPS | 81 | 10 | 66 | 0.000 | 0 | 9 |
| Generic GPS | 63 | 20 | 79 | 0.000 | 0 | 17 |
| Generic Round Stand-Off | 81 | 188 | 1,230 | 0.003 | 4 | 162 |
| Generic Round Stand-Off | 63 | 375 | 1,488 | 0.003 | 5 | 323 |
| | | 46,273 | 445,723 | 1.000 | 1,388 | 39,859 |

**1.2D + 1.0Ev + 1.0Eh Normal** **Seismic**

CALCULATED FORCES

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -55.56 | -1.39 | 0.00 | -185.27 | 0.00 | 185.27 | 4,665.07 | 1,225.36 | 5,729 | 4,709.48 | 0.00 | 0.00 | 0.05 |
| 5.00 | -53.84 | -1.40 | 0.00 | -178.31 | 0.00 | 178.31 | 4,609.22 | 1,199.33 | 5,488 | 4,553.37 | 0.01 | -0.01 | 0.05 |
| 10.00 | -52.15 | -1.41 | 0.00 | -171.29 | 0.00 | 171.29 | 4,551.49 | 1,173.29 | 5,253 | 4,397.87 | 0.03 | -0.02 | 0.05 |
| 15.00 | -50.49 | -1.42 | 0.00 | -164.23 | 0.00 | 164.23 | 4,491.88 | 1,147.26 | 5,022 | 4,243.09 | 0.06 | -0.04 | 0.05 |
| 20.00 | -48.87 | -1.43 | 0.00 | -157.12 | 0.00 | 157.12 | 4,430.39 | 1,121.23 | 4,797 | 4,089.15 | 0.10 | -0.05 | 0.05 |
| 25.00 | -47.27 | -1.44 | 0.00 | -149.97 | 0.00 | 149.97 | 4,367.03 | 1,095.19 | 4,577 | 3,936.18 | 0.16 | -0.06 | 0.05 |
| 30.00 | -45.71 | -1.44 | 0.00 | -142.79 | 0.00 | 142.79 | 4,301.78 | 1,069.16 | 4,362 | 3,784.31 | 0.23 | -0.08 | 0.05 |
| 35.00 | -44.17 | -1.44 | 0.00 | -135.58 | 0.00 | 135.58 | 4,234.66 | 1,043.12 | 4,152 | 3,633.64 | 0.32 | -0.09 | 0.05 |
| 40.00 | -44.14 | -1.45 | 0.00 | -128.36 | 0.00 | 128.36 | 4,165.66 | 1,017.09 | 3,948 | 3,484.31 | 0.42 | -0.10 | 0.05 |
| 40.10 | -41.64 | -1.44 | 0.00 | -128.21 | 0.00 | 128.21 | 4,164.20 | 1,016.55 | 3,943 | 3,481.21 | 0.42 | -0.10 | 0.05 |
| 45.00 | -41.19 | -1.44 | 0.00 | -121.17 | 0.00 | 121.17 | 4,094.78 | 991.06 | 3,748 | 3,336.43 | 0.53 | -0.12 | 0.05 |
| 45.90 | -40.10 | -1.44 | 0.00 | -119.88 | 0.00 | 119.88 | 3,345.47 | 862.69 | 3,313 | 2,772.94 | 0.56 | -0.12 | 0.06 |
| 50.00 | -38.80 | -1.44 | 0.00 | -113.98 | 0.00 | 113.98 | 3,303.63 | 844.38 | 3,174 | 2,679.63 | 0.66 | -0.13 | 0.05 |
| 55.00 | -37.53 | -1.43 | 0.00 | -106.80 | 0.00 | 106.80 | 3,250.92 | 822.07 | 3,008 | 2,566.54 | 0.81 | -0.15 | 0.05 |
| 60.00 | -36.78 | -1.43 | 0.00 | -99.64 | 0.00 | 99.64 | 3,196.33 | 799.75 | 2,847 | 2,454.29 | 0.98 | -0.16 | 0.05 |
| 63.00 | -35.80 | -1.42 | 0.00 | -95.35 | 0.00 | 95.35 | 3,162.67 | 786.36 | 2,753 | 2,387.39 | 1.08 | -0.17 | 0.05 |
| 65.00 | -34.58 | -1.41 | 0.00 | -92.50 | 0.00 | 92.50 | 3,139.86 | 777.44 | 2,691 | 2,343.00 | 1.16 | -0.18 | 0.05 |
| 70.00 | -33.39 | -1.40 | 0.00 | -85.43 | 0.00 | 85.43 | 3,081.51 | 755.12 | 2,539 | 2,232.79 | 1.35 | -0.20 | 0.05 |
| 75.00 | -32.23 | -1.39 | 0.00 | -78.41 | 0.00 | 78.41 | 3,021.29 | 732.81 | 2,391 | 2,123.79 | 1.57 | -0.21 | 0.05 |
| 80.00 | -32.09 | -1.39 | 0.00 | -71.46 | 0.00 | 71.46 | 2,959.19 | 710.49 | 2,247 | 2,016.11 | 1.80 | -0.23 | 0.05 |
| 80.60 | -31.94 | -1.39 | 0.00 | -70.62 | 0.00 | 70.62 | 2,951.62 | 707.82 | 2,231 | 2,003.31 | 1.83 | -0.23 | 0.05 |
| 81.00 | -30.22 | -1.36 | 0.00 | -70.06 | 0.00 | 70.06 | 2,946.54 | 706.03 | 2,219 | 1,994.75 | 1.85 | -0.23 | 0.05 |
| 85.00 | -30.08 | -1.36 | 0.00 | -64.63 | 0.00 | 64.63 | 2,890.34 | 688.18 | 2,109 | 1,906.68 | 2.06 | -0.25 | 0.04 |
| 85.41 | -29.17 | -1.34 | 0.00 | -64.07 | 0.00 | 64.07 | 2,288.92 | 584.11 | 1,823 | 1,541.12 | 2.08 | -0.25 | 0.05 |
| 90.00 | -28.59 | -1.33 | 0.00 | -57.91 | 0.00 | 57.91 | 2,248.28 | 567.03 | 1,718 | 1,469.07 | 2.32 | -0.26 | 0.05 |
| 93.00 | -24.33 | -1.23 | 0.00 | -53.91 | 0.00 | 53.91 | 2,220.88 | 555.87 | 1,651 | 1,422.34 | 2.49 | -0.28 | 0.05 |
| 95.00 | -23.40 | -1.20 | 0.00 | -51.46 | 0.00 | 51.46 | 2,202.24 | 548.43 | 1,607 | 1,391.34 | 2.61 | -0.28 | 0.05 |
| 100.00 | -22.50 | -1.18 | 0.00 | -45.44 | 0.00 | 45.44 | 2,154.33 | 529.83 | 1,500 | 1,314.46 | 2.92 | -0.30 | 0.05 |
| 105.00 | -22.02 | -1.17 | 0.00 | -39.53 | 0.00 | 39.53 | 2,104.53 | 511.24 | 1,396 | 1,238.55 | 3.24 | -0.32 | 0.04 |
| 107.60 | -21.41 | -1.15 | 0.00 | -36.48 | 0.00 | 36.48 | 2,077.90 | 501.57 | 1,344 | 1,199.49 | 3.42 | -0.33 | 0.04 |
| 110.00 | -20.55 | -1.13 | 0.00 | -33.71 | 0.00 | 33.71 | 2,052.86 | 492.64 | 1,297 | 1,163.72 | 3.59 | -0.34 | 0.04 |
| 115.00 | -19.71 | -1.10 | 0.00 | -28.09 | 0.00 | 28.09 | 1,991.00 | 474.05 | 1,201 | 1,085.58 | 3.95 | -0.35 | 0.04 |
| 120.00 | -19.35 | -1.08 | 0.00 | -22.61 | 0.00 | 22.61 | 1,912.90 | 455.45 | 1,108 | 1,001.61 | 4.32 | -0.37 | 0.03 |
| 122.12 | -18.67 | -1.06 | 0.00 | -20.31 | 0.00 | 20.31 | 1,879.75 | 447.56 | 1,070 | 966.99 | 4.49 | -0.37 | 0.03 |
| 125.00 | -18.46 | -1.05 | 0.00 | -17.27 | 0.00 | 17.27 | 1,834.80 | 436.86 | 1,020 | 921.02 | 4.71 | -0.38 | 0.03 |
| 125.89 | -17.94 | -1.02 | 0.00 | -16.34 | 0.00 | 16.34 | 929.71 | 265.44 | 627 | 475.02 | 4.78 | -0.38 | 0.05 |
| 130.00 | -17.69 | -1.01 | 0.00 | -12.13 | 0.00 | 12.13 | 915.30 | 256.25 | 585 | 451.36 | 5.12 | -0.39 | 0.05 |

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 132.00 | -15.90 | -0.92 | 0.00 | -10.10 | 0.00 | 10.10 | 907.83 | 251.79 | 564 | 439.82 | 5.28 | -0.40 | 0.04 |
| 133.00 | -12.56 | -0.75 | 0.00 | -9.17 | 0.00 | 9.17 | 903.99 | 249.56 | 554 | 434.05 | 5.36 | -0.40 | 0.04 |
| 135.00 | -11.98 | -0.72 | 0.00 | -7.67 | 0.00 | 7.67 | 896.07 | 245.10 | 535 | 422.49 | 5.53 | -0.40 | 0.03 |
| 140.00 | -6.71 | -0.43 | 0.00 | -4.05 | 0.00 | 4.05 | 874.97 | 233.94 | 487 | 393.61 | 5.96 | -0.41 | 0.02 |
| 142.20 | -6.33 | -0.40 | 0.00 | -3.11 | 0.00 | 3.11 | 865.09 | 229.03 | 467 | 380.93 | 6.15 | -0.41 | 0.02 |
| 145.00 | -6.23 | -0.40 | 0.00 | -1.98 | 0.00 | 1.98 | 851.99 | 222.78 | 442 | 364.84 | 6.39 | -0.42 | 0.01 |
| 146.00 | -5.79 | -0.37 | 0.00 | -1.58 | 0.00 | 1.58 | 847.17 | 220.55 | 433 | 359.11 | 6.48 | -0.42 | 0.01 |
| 146.00 | -5.79 | -0.37 | 0.00 | -1.58 | 0.00 | 1.58 | 920.33 | 276.10 | 376 | 378.53 | 6.48 | -0.42 | 0.01 |
| 149.00 | -1.45 | -0.10 | 0.00 | -0.46 | 0.00 | 0.46 | 920.33 | 276.10 | 376 | 378.53 | 6.75 | -0.42 | 0.00 |
| 150.00 | -0.90 | -0.06 | 0.00 | -0.37 | 0.00 | 0.37 | 920.33 | 276.10 | 376 | 378.53 | 6.83 | -0.42 | 0.00 |
| 155.00 | -0.11 | -0.01 | 0.00 | -0.06 | 0.00 | 0.06 | 920.33 | 276.10 | 376 | 378.53 | 7.27 | -0.42 | 0.00 |
| 155.00 | -0.11 | -0.01 | 0.00 | -0.06 | 0.00 | 0.06 | 70.80 | 21.24 | 6 | 6.17 | 7.27 | -0.42 | 0.01 |
| 160.00 | -0.06 | 0.00 | 0.00 | -0.02 | 0.00 | 0.02 | 70.80 | 21.24 | 6 | 6.17 | 7.71 | -0.42 | 0.00 |
| 164.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 70.80 | 21.24 | 6 | 6.17 | 8.08 | -0.42 | 0.00 |
| 165.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 70.80 | 21.24 | 6 | 6.17 | 8.16 | -0.42 | 0.00 |

**0.9D - 1.0Ev + 1.0Eh Normal** **Seismic (Reduced DL)**

CALCULATED FORCES

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -38.64 | -1.39 | 0.00 | -180.92 | 0.00 | 180.92 | 4,665.07 | 1,225.36 | 5,729 | 4,709.48 | 0.00 | 0.00 | 0.05 |
| 5.00 | -37.44 | -1.40 | 0.00 | -173.96 | 0.00 | 173.96 | 4,609.22 | 1,199.33 | 5,488 | 4,553.37 | 0.01 | -0.01 | 0.05 |
| 10.00 | -36.27 | -1.40 | 0.00 | -166.97 | 0.00 | 166.97 | 4,551.49 | 1,173.29 | 5,253 | 4,397.87 | 0.02 | -0.02 | 0.05 |
| 15.00 | -35.12 | -1.41 | 0.00 | -159.95 | 0.00 | 159.95 | 4,491.88 | 1,147.26 | 5,022 | 4,243.09 | 0.06 | -0.04 | 0.05 |
| 20.00 | -33.98 | -1.41 | 0.00 | -152.90 | 0.00 | 152.90 | 4,430.39 | 1,121.23 | 4,797 | 4,089.15 | 0.10 | -0.05 | 0.05 |
| 25.00 | -32.87 | -1.42 | 0.00 | -145.83 | 0.00 | 145.83 | 4,367.03 | 1,095.19 | 4,577 | 3,936.18 | 0.16 | -0.06 | 0.05 |
| 30.00 | -31.79 | -1.42 | 0.00 | -138.74 | 0.00 | 138.74 | 4,301.78 | 1,069.16 | 4,362 | 3,784.31 | 0.23 | -0.07 | 0.04 |
| 35.00 | -30.72 | -1.42 | 0.00 | -131.64 | 0.00 | 131.64 | 4,234.66 | 1,043.12 | 4,152 | 3,633.64 | 0.31 | -0.09 | 0.04 |
| 40.00 | -30.70 | -1.42 | 0.00 | -124.54 | 0.00 | 124.54 | 4,165.66 | 1,017.09 | 3,948 | 3,484.31 | 0.41 | -0.10 | 0.04 |
| 40.10 | -28.96 | -1.41 | 0.00 | -124.39 | 0.00 | 124.39 | 4,164.20 | 1,016.55 | 3,943 | 3,481.21 | 0.41 | -0.10 | 0.04 |
| 45.00 | -28.64 | -1.41 | 0.00 | -117.47 | 0.00 | 117.47 | 4,094.78 | 991.06 | 3,748 | 3,336.43 | 0.52 | -0.11 | 0.04 |
| 45.90 | -27.89 | -1.41 | 0.00 | -116.20 | 0.00 | 116.20 | 3,345.47 | 862.69 | 3,313 | 2,772.94 | 0.54 | -0.12 | 0.05 |
| 50.00 | -26.99 | -1.40 | 0.00 | -110.42 | 0.00 | 110.42 | 3,303.63 | 844.38 | 3,174 | 2,679.63 | 0.65 | -0.13 | 0.05 |
| 55.00 | -26.10 | -1.40 | 0.00 | -103.40 | 0.00 | 103.40 | 3,250.92 | 822.07 | 3,008 | 2,566.54 | 0.79 | -0.14 | 0.05 |
| 60.00 | -25.58 | -1.40 | 0.00 | -96.40 | 0.00 | 96.40 | 3,196.33 | 799.75 | 2,847 | 2,454.29 | 0.95 | -0.16 | 0.05 |
| 63.00 | -24.90 | -1.39 | 0.00 | -92.21 | 0.00 | 92.21 | 3,162.67 | 786.36 | 2,753 | 2,387.39 | 1.05 | -0.17 | 0.05 |
| 65.00 | -24.05 | -1.38 | 0.00 | -89.43 | 0.00 | 89.43 | 3,139.86 | 777.44 | 2,691 | 2,343.00 | 1.12 | -0.18 | 0.05 |
| 70.00 | -23.22 | -1.36 | 0.00 | -82.55 | 0.00 | 82.55 | 3,081.51 | 755.12 | 2,539 | 2,232.79 | 1.32 | -0.19 | 0.05 |
| 75.00 | -22.41 | -1.35 | 0.00 | -75.73 | 0.00 | 75.73 | 3,021.29 | 732.81 | 2,391 | 2,123.79 | 1.53 | -0.21 | 0.04 |
| 80.00 | -22.32 | -1.35 | 0.00 | -68.97 | 0.00 | 68.97 | 2,959.19 | 710.49 | 2,247 | 2,016.11 | 1.75 | -0.22 | 0.04 |
| 80.60 | -22.21 | -1.35 | 0.00 | -68.16 | 0.00 | 68.16 | 2,951.62 | 707.82 | 2,231 | 2,003.31 | 1.78 | -0.23 | 0.04 |
| 81.00 | -21.02 | -1.32 | 0.00 | -67.62 | 0.00 | 67.62 | 2,946.54 | 706.03 | 2,219 | 1,994.75 | 1.80 | -0.23 | 0.04 |
| 85.00 | -20.91 | -1.32 | 0.00 | -62.35 | 0.00 | 62.35 | 2,890.34 | 688.18 | 2,109 | 1,906.68 | 2.00 | -0.24 | 0.04 |
| 85.41 | -20.28 | -1.30 | 0.00 | -61.82 | 0.00 | 61.82 | 2,288.92 | 584.11 | 1,823 | 1,541.12 | 2.02 | -0.24 | 0.05 |
| 90.00 | -19.88 | -1.29 | 0.00 | -55.85 | 0.00 | 55.85 | 2,248.28 | 567.03 | 1,718 | 1,469.07 | 2.26 | -0.26 | 0.05 |
| 93.00 | -16.92 | -1.19 | 0.00 | -51.97 | 0.00 | 51.97 | 2,220.88 | 555.87 | 1,651 | 1,422.34 | 2.42 | -0.27 | 0.04 |
| 95.00 | -16.27 | -1.17 | 0.00 | -49.60 | 0.00 | 49.60 | 2,202.24 | 548.43 | 1,607 | 1,391.34 | 2.54 | -0.27 | 0.04 |
| 100.00 | -15.64 | -1.14 | 0.00 | -43.78 | 0.00 | 43.78 | 2,154.33 | 529.83 | 1,500 | 1,314.46 | 2.83 | -0.29 | 0.04 |
| 105.00 | -15.31 | -1.13 | 0.00 | -38.06 | 0.00 | 38.06 | 2,104.53 | 511.24 | 1,396 | 1,238.55 | 3.15 | -0.31 | 0.04 |
| 107.60 | -14.89 | -1.11 | 0.00 | -35.12 | 0.00 | 35.12 | 2,077.90 | 501.57 | 1,344 | 1,199.49 | 3.32 | -0.32 | 0.04 |
| 110.00 | -14.29 | -1.08 | 0.00 | -32.45 | 0.00 | 32.45 | 2,052.86 | 492.64 | 1,297 | 1,163.72 | 3.48 | -0.33 | 0.04 |
| 115.00 | -13.71 | -1.06 | 0.00 | -27.03 | 0.00 | 27.03 | 1,991.00 | 474.05 | 1,201 | 1,085.58 | 3.83 | -0.34 | 0.03 |
| 120.00 | -13.45 | -1.04 | 0.00 | -21.75 | 0.00 | 21.75 | 1,912.90 | 455.45 | 1,108 | 1,001.61 | 4.19 | -0.35 | 0.03 |
| 122.12 | -12.98 | -1.02 | 0.00 | -19.53 | 0.00 | 19.53 | 1,879.75 | 447.56 | 1,070 | 966.99 | 4.35 | -0.36 | 0.03 |
| 125.00 | -12.84 | -1.01 | 0.00 | -16.61 | 0.00 | 16.61 | 1,834.80 | 436.86 | 1,020 | 921.02 | 4.57 | -0.37 | 0.03 |
| 125.89 | -12.47 | -0.98 | 0.00 | -15.72 | 0.00 | 15.72 | 929.71 | 265.44 | 627 | 475.02 | 4.64 | -0.37 | 0.05 |
| 130.00 | -12.30 | -0.97 | 0.00 | -11.67 | 0.00 | 11.67 | 915.30 | 256.25 | 585 | 451.36 | 4.96 | -0.38 | 0.04 |
| 132.00 | -11.06 | -0.89 | 0.00 | -9.72 | 0.00 | 9.72 | 907.83 | 251.79 | 564 | 439.82 | 5.12 | -0.38 | 0.03 |
| 133.00 | -8.74 | -0.73 | 0.00 | -8.83 | 0.00 | 8.83 | 903.99 | 249.56 | 554 | 434.05 | 5.20 | -0.39 | 0.03 |
| 135.00 | -8.33 | -0.70 | 0.00 | -7.38 | 0.00 | 7.38 | 896.07 | 245.10 | 535 | 422.49 | 5.36 | -0.39 | 0.03 |
| 140.00 | -4.67 | -0.41 | 0.00 | -3.90 | 0.00 | 3.90 | 874.97 | 233.94 | 487 | 393.61 | 5.78 | -0.40 | 0.02 |
| 142.20 | -4.40 | -0.39 | 0.00 | -3.00 | 0.00 | 3.00 | 865.09 | 229.03 | 467 | 380.93 | 5.96 | -0.40 | 0.01 |
| 145.00 | -4.33 | -0.38 | 0.00 | -1.91 | 0.00 | 1.91 | 851.99 | 222.78 | 442 | 364.84 | 6.20 | -0.40 | 0.01 |
| 146.00 | -4.03 | -0.36 | 0.00 | -1.52 | 0.00 | 1.52 | 847.17 | 220.55 | 433 | 359.11 | 6.28 | -0.40 | 0.01 |
| 146.00 | -4.03 | -0.36 | 0.00 | -1.52 | 0.00 | 1.52 | 920.33 | 276.10 | 376 | 378.53 | 6.28 | -0.40 | 0.01 |
| 149.00 | -1.01 | -0.09 | 0.00 | -0.45 | 0.00 | 0.45 | 920.33 | 276.10 | 376 | 378.53 | 6.54 | -0.41 | 0.00 |
| 150.00 | -0.63 | -0.06 | 0.00 | -0.35 | 0.00 | 0.35 | 920.33 | 276.10 | 376 | 378.53 | 6.62 | -0.41 | 0.00 |

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 155.00 | -0.08 | -0.01 | 0.00 | -0.06 | 0.00 | 0.06 | 920.33 | 276.10 | 376 | 378.53 | 7.05 | -0.41 | 0.00 |
| 155.00 | -0.08 | -0.01 | 0.00 | -0.06 | 0.00 | 0.06 | 70.80 | 21.24 | 6 | 6.17 | 7.05 | -0.41 | 0.01 |
| 160.00 | -0.04 | 0.00 | 0.00 | -0.02 | 0.00 | 0.02 | 70.80 | 21.24 | 6 | 6.17 | 7.47 | -0.41 | 0.00 |
| 164.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 70.80 | 21.24 | 6 | 6.17 | 7.82 | -0.41 | 0.00 |
| 165.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 70.80 | 21.24 | 6 | 6.17 | 7.90 | -0.41 | 0.00 |

## ANALYSIS SUMMARY

| | Reactions | | | | | | Max Usage | |
|---|---|---|---|---|---|---|---|---|
| Load Case | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Elev (ft) | Interaction Ratio |
| 1.2D + 1.0W Normal | 30.22 | 0.00 | 55.47 | 0.00 | 0.00 | 3385.00 | 45.90 | 0.75 |
| 0.9D + 1.0W Normal | 30.19 | 0.00 | 41.59 | 0.00 | 0.00 | 3322.99 | 45.90 | 0.73 |
| 1.2D + 1.0Di + 1.0Wi Normal | 7.45 | 0.00 | 86.04 | 0.00 | 0.00 | 885.32 | 45.90 | 0.22 |
| 1.2D + 1.0Ev + 1.0Eh Normal | 1.45 | 0.00 | 55.56 | 0.00 | 0.00 | 185.27 | 45.90 | 0.06 |
| 0.9D - 1.0Ev + 1.0Eh Normal | 1.42 | 0.00 | 38.64 | 0.00 | 0.00 | 180.92 | 45.90 | 0.05 |
| 1.0D + 1.0W Service Normal | 6.98 | 0.00 | 46.27 | 0.00 | 0.00 | 774.84 | 45.90 | 0.18 |

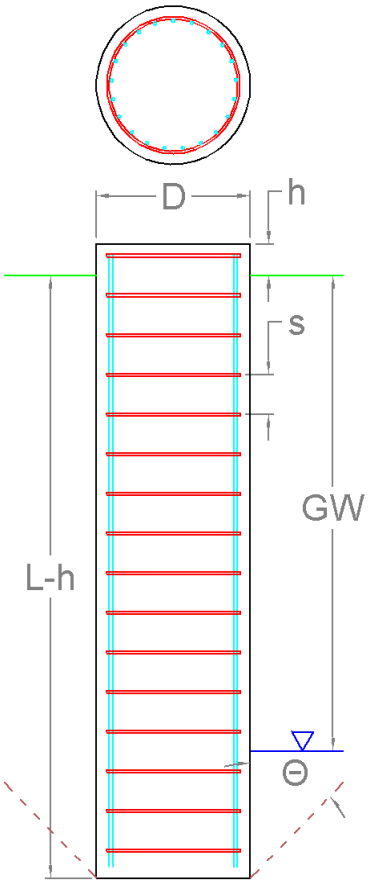
# Pier Foundation Analysis (ANSI/TIA-222-H)

| Foundation Analysis Parameters | | | |
|---|---|---|---|
| Pier Diameter | *D* | 7.00 | ft |
| Pier Embedment | *L-h* | 30.0 | ft |
| Pier Height above Ground | *H* | 1.00 | ft |
| Water Table Depth [BGL] | *GW* | 3 | ft |
| Pullout Angle | Θ | 30 | ° |
| Unit Weight of Concrete | | 150 | pcf |
| Uplift Skin Friction Factor | | 0.750 | |

| Reactions | | |
|---|---|---|
| Moment, $M_u$ | 3,385.0 | k-ft |
| Shear, $V_u$ | 30.2 | k |
| Axial, $P_u$ | 55.5 | k |
| Uplift, $T_u$ | 0.0 | k |

## Soil Properties

| Layer Depth (ft) | | Unit Weight | Cohesion | Friction Angle | Ultimate Skin Friction | Ultimate Bearing Pressure |
|---|---|---|---|---|---|---|
| TOP | BTM | pcf | psf | ° | psf | psf |
| 0.0 | 3.0 | 105 | 0 | 0 | 0 | 0 |
| 3.0 | 5.0 | 127 | 0 | 37 | 0 | 0 |
| 5.0 | 10.0 | 133 | 0 | 40 | 832 | 0 |
| 10.0 | 31.0 | 137 | 0 | 40 | 1,668 | 57,156 |




| Soil Strength Capacities | | |
|---|---|---|
| Volume of Concrete | 1,193.0 | $ft^3$ |
| Weight of Concrete [Buoyancy Considered] | 114.1 | k |
| Average Soil Unit Weight | 76.3 | pcf |
| Skin Friction Resistance | 825.1 | k |
| Compressive Bearing Resistance | 2,199.6 | k |
| Pullout Weight [Minus Concrete Weight] | 1,155.1 | k |
| Compressive Force, $P_u$ | 79.8 | k |
| Nominal Compressive Capacity, $\phi_s P_n$ | 2,268.6 | k |
| $P_u$ / $\phi_s P_n$ | **3.5%** | |
| Total Lateral Resistance | 2,862.4 | k |
| Inflection Point [BGL] | 21.1 | ft |
| Moment at Inflection Point, $M_D$ | 4,053.8 | k-ft |
| Nominal Moment Capacity, $\phi_s M_n$ | 12,536.4 | k-ft |
| $M_D$ / $\phi_s M_n$ | **32.3%** | |

| Pier Strength Capacities | | | |
|---|---|---|---|
| Concrete Compressive Strength, $f'_c$ | | 4,000 | psi |
| Rebar Size # | | 11 | |
| Rebar Area (Single) | | 1.56 | $in^2$ |
| Rebar Quantity | | 18 | |
| Rebar Yield Strength, $F_y$ | | 60 | ksi |
| Vertical Rebar Clear Cover | | 3 | in |
| Tie Rebar Size # | | 5 | |
| Tie Rebar Area (Single) | | 0.31 | $in^2$ |
| Tie Rebar Spacing | *s* | 12.0 | in |
| Tie Rebar Yield Strength, $F_y$ | | 60 | ksi |
| Rebar Cage Diameter | | 75.34 | in |
| Strength Bending/Tension Reduction Factor, $\phi_B$ | | 0.90 | |
| Strength Shear Reduction Factor, $\phi_V$ | | 0.75 | |
| Strength Compression Reduction Factor, $\phi_C$ | | 0.65 | |
| Steel Elastic Modulus | | 29,000 | ksi |
| Design Moment, $M_u$ | | 3,418.2 | k-ft |
| Moment Capacity, $\phi_B M_n$ | | 4,659.9 | k-ft |
| $M_u / \phi_B M_n$ | | **73.4%** | |
| Design Shear, $V_u$ | | 287.8 | k |
| Shear Capacity, $\phi_V V_n$ | | 684.6 | k |
| $V_u / \phi_V V_n$ | | **42.0%** | |
| Design Compression, $P_u$ | | 79.8 | k |
| Compression Capacity, $\phi_P P_n$ | | 10,624.3 | k |
| $P_u / \phi_P P_n$ | | **0.8%** | |
| Bending Reinforcement Ratio | | 0.005 | |

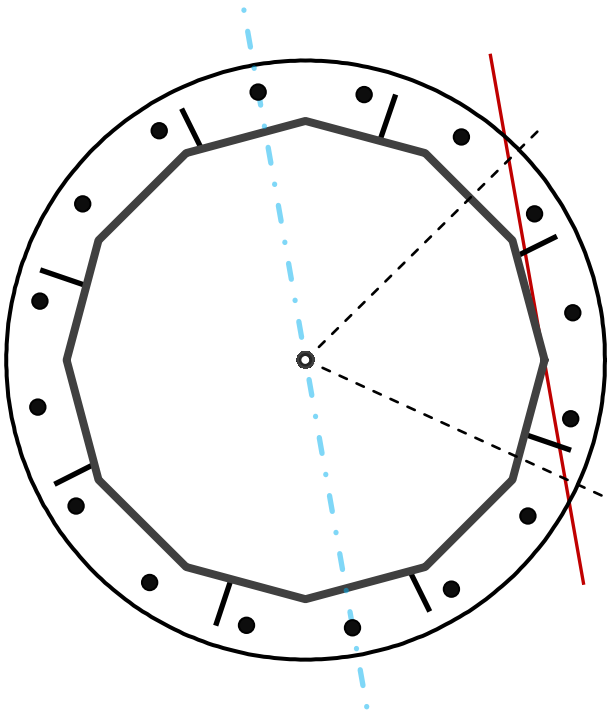
# Base Plate & Anchor Rod Analysis

| Pole Dimensions | | |
|---|---|---|
| Number of Sides | 12 | - |
| Diameter | 50 | in |
| Thickness | 7/16 | in |
| Orientation Offset | 0 | ° |

| Base Reactions | | |
|---|---|---|
| Moment, Mu | 3,385.0 | k-ft |
| Axial, Pu | 55.5 | k |
| Shear, Vu | 30.2 | k |
| Neutral Axis | 280 | ° |

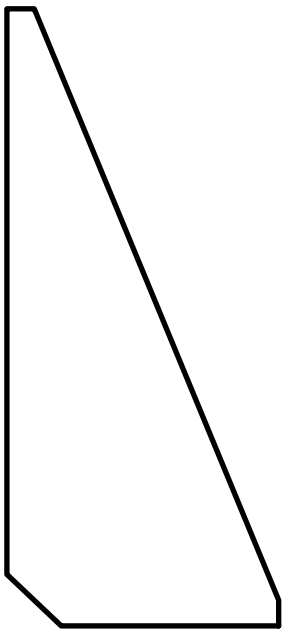
| Report Capacities | | |
|---|---|---|
| Component | Capacity | Result |
| Base Plate | 42% | Pass |
| Anchor Rods | 76% | Pass |
| Dwyidag | - | - |

| Base Plate | | |
|---|---|---|
| Shape | Round | - |
| Diameter, ø | 65 | in |
| Thickness | 2 | in |
| Grade | A572-60 | |
| Yield Strength, Fy | 60 | ksi |
| Tensile Strength, Fu | 75 | ksi |
| Clip | N/A | in |
| Orientation Offset | 0 | ° |
| Anchor Rod Detail | c | η=0.55 |
| Clear Distance | N/A | in |
| Applied Moment, Mu | 963.9 | k |
| Bending Stress, ϕMn | 2312.3 | k |



| Original Anchor Rods | | |
|---|---|---|
| Arrangement | Radial | - |
| Quantity | 16 | - |
| Diameter, ø | 2 1/4 | in |
| Bolt Circle | 59 | in |
| Grade | A615-75 | |
| Yield Strength, Fy | 75 | ksi |
| Tensile Strength, Fu | 100 | ksi |
| Spacing | 11.6 | in |
| Orientation Offset | 10 | ° |
| Applied Force, Pu | 182.7 | k |
| Anchor Rods, ϕPn | 243.6 | k |

| Stiffeners | | |
|---|---|---|
| Arrangement | Radial | - |
| Quantity | 8 | - |
| Height | 12 | in |
| Width | 5 | in |
| Effective Width | 5.000 | in |
| Thickness | 3/4 | in |
| Effective Thickness | 0.510 | in |
| Notch | 1 | in |
| Flat Edge | 0.5 | in |
| Grade | A36 | - |
| Yield Strength, Fy | 36 | ksi |
| Tensile Strength, Fu | 58 | ksi |
| Horizontal Weld | Fillet | |
| Horizontal Fillet Size | 5/16 | in |
| Bevel Depth | 0 | in |
| Vertical Weld | Fillet | |
| Vertical Fillet Size | 1/4 | in |
| Weld Strength | 70 | ksi |
| Electrode Coefficient | 1 | - |
| Orientation Offset | 3.75 | ° |
| Vertical Weld, ϕRn | 133.9 | k |
| Horz. Weld, ϕRn | 73.9 | k |
| Ten. Capacity, ϕTn | 97.2 | k |
| Comp. Capacity, ϕPn | 283.4 | k |



# Calculations for Monopole Base Plate & Anchor Rod Analysis

**Reaction Distribution**

| Reaction | Shear Vu | Moment Mu | Factor |
|---|---|---|---|
| - | k | k-ft | - |
| Base Forces | 30.2 | 3385.0 | 1.00 |
| Anchor Rod Forces | 30.2 | 3385.0 | 1.00 |
| Additional Bolt (Grp1) Forces | 0.0 | 0.0 | 0.00 |
| Additional Bolt (Grp2) Forces | 0.0 | 0.0 | 0.00 |
| Dywidag Forces | 0.0 | 0.0 | 0.00 |
| Stiffener Forces | 6.4 | 718.7 | 0.21 |

**Geometric Properties**

| Section | Gross Area | Net Area | Individual Inertia | Threads per Inch | Moment of Inertia |
|---|---|---|---|---|---|
| - | $in^2$ | $in^2$ | $in^4$ | # | $in^4$ |
| Pole | 67.3455 | 5.6121 | 0.3596 | | 20683.11 |
| Bolt | 3.9761 | 3.2477 | 0.8393 | 4.5 | 20840.15 |
| Bolt1 | 0.0000 | 0.0000 | 0.0000 | 0 | 0.00 |
| Bolt2 | 0.0000 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dywidag | 0.0000 | 0.0000 | 0.0000 | | 0.00 |
| Stiffener | 2.0400 | 1.8360 | 21.2500 | | 5575.37 |

| Base Plate | | |
|---|---|---|
| Shape | Round | - |
| Diameter, D | 65 | in |
| Thickness, t | 2 | in |
| Yield Strength, Fy | 60 | ksi |
| Tensile Strength, Fu | 75 | ksi |
| Base Plate Chord | 41.533 | in |
| Detail Type | c | - |
| Detail Factor | 0.55 | - |
| Clear Distance | N/A | - |

| External Base Plate | | |
|---|---|---|
| Chord Length AA | 35.633 | in |
| Additional AA | 7.188 | in |
| Section Modulus, Z | 42.821 | $in^3$ |
| Applied Moment, Mu | 963.9 | k-ft |
| Bending Capacity, ϕMn | 2312.3 | k-ft |
| Capacity, Mu/ϕMn | 0.417 | OK |
| | | |
| Chord Length AB | 33.005 | in |
| Additional AB | 5.420 | in |
| Section Modulus, Z | 38.425 | $in^3$ |
| Applied Moment, Mu | 503.5 | k-ft |
| Bending Capacity, ϕMn | 2074.9 | k-ft |
| Capacity, Mu/ϕMn | 0.243 | OK |
| | | |
| Bend Line Length | 37.322 | in |
| Additional Bend Line | 44.080 | in |
| Section Modulus, Z | 81.402 | $in^3$ |
| Applied Moment, Mu | 963.9 | k-ft |
| Bending Capacity, ϕMn | 4395.7 | k-ft |
| Capacity, Mu/ϕMn | 0.219 | OK |

| Internal Base Plate | | |
|---|---|---|
| Arc Length | 0.000 | in |
| Section Modulus, Z | 0.000 | $in^3$ |
| Moment Arm | 0.000 | in |
| Applied Moment, Mu | 0.0 | k-ft |
| Bending Capacity, ϕMn | 0.0 | k-ft |
| Capacity, Mu/ϕMn | | |

| Anchor Rods | | |
|---|---|---|
| Anchor Rod Quantity, N | 16 | - |
| Rod Diameter, d | 2.25 | in |
| Bolt Circle, BC | 59 | in |
| Yield Strength, Fy | 75 | ksi |
| Tensile Strength, Fu | 100 | ksi |
| Applied Axial, Pu | 182.7 | k |
| Applied Shear, Vu | 1.2 | k |
| Compressive Capacity, ϕPn | 243.6 | k |
| Tensile Capacity, ϕRnt | 0.750 | OK |
| Interaction Capacity | 0.759 | OK |

| Base Plate Stiffeners | | |
|---|---|---|
| Applied Axial Force, Pu | 76.5 | k |
| Applied Horizontal Force, Vu | 0.40 | k |

| Vertical Weld | | |
|---|---|---|
| Vert.-to-Stiffener a=$e_x$/l | 0.139 | - |
| Spacing Ratio, k | 0.063 | - |
| Weld Coefficient, C | 3.720 | - |
| Compressive Capacity, ϕPn | 133.9 | k |
| Vert.-to-Plate a=$e_x$/l | 0.333 | - |
| Spacing Ratio, k | 0.063 | - |
| Weld Coefficient, C | 2.940 | - |
| Shear Capacity, ϕVn | 105.8 | k |
| $P_u/\phi_P P_n + V_u/\phi_V V_n$ | 0.575 | OK |

| Horizontal Weld | | |
|---|---|---|
| Horz.-to-Stiffener a=$e_x$/l | 0.167 | - |
| Spacing Ratio, k | 0.150 | - |
| Weld Coefficient, C | 3.940 | - |
| Effective Fillet | 0.313 | in |
| Compressive Capacity, ϕPn | 73.9 | k |
| Horz.-to-Pole a=$e_x$/l | 0.400 | - |
| Spacing Ratio, k | 0.150 | - |
| Weld Coefficient, C | 2.670 | - |
| Shear Capacity, ϕVn | 50.1 | k |
| $P_u/\phi_P P_n + V_u/\phi_V V_n$ | 1.043 | OK |

| Plate Tension | | |
|---|---|---|
| Gross Cross Section | 2.040 | $in^2$ |
| Net Cross Section | 1.836 | $in^2$ |
| Tensile Capacity, ϕTn | 97.2 | k |
| Capacity, Tu/ϕTn | 0.393 | OK |

| Plate Compression | | |
|---|---|---|
| Radius of Gyration | 0.147 | $in^3$ |
| kl/r | 48.90 | - |
| 4.71 $\sqrt{}$(E/Fy) | 133.68 | - |
| Buckling Stress(Fe) | 119.7 | - |
| Crit. Buckling Stress(Fcr) | 105.0 | ksi |
| Compressive Capacity, ϕPn | 283.4 | k |
| Capacity, Pu/ϕPn | 0.135 | OK |

# Flange Plate Analysis

**Flange Plate**

| | | |
|---|---|---|
| Plate Type | ***Flange*** | ***@ 146 ft*** |
| Pole Diameter | 16 | in |
| Pole Thickness | 0.5 | in |
| Plate Diameter | 28.5 | in |
| Plate Thickness | 1 1/2 | in |
| Plate Fy | 60 | ksi |
| Weld Length | 5/16 | in |
| $f_s$ Resistance | 127.23 | k-in |
| Applied | 13.02 | k-in |

| | |
|---|---|
| Code Rev. | ***H*** |
| Moment | 23.9 k-ft |
| Axial | 5.5 k |

Required Flange Thickness:
0.48 in OK

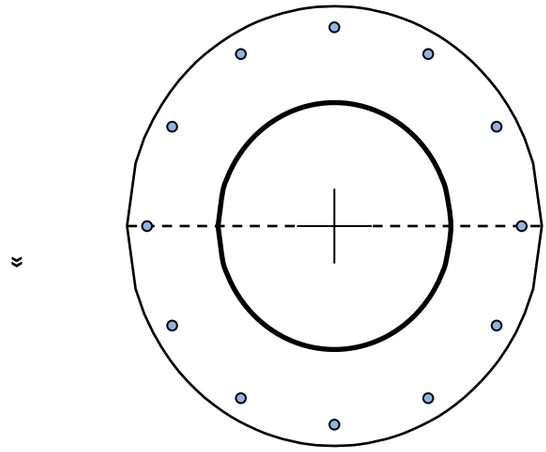
| | |
|---|---|
| **Date** | 10/29/2021 |
| **Engineer** | Nicholas Beam |
| **Site #** | 302495 |
| **Carrier** | Sprint Nextel |

**Stiffeners**

| # | |
|---|---|

**Bolts**

| | | |
|---|---|---|
| # | ***12*** | |
| Bolt Circle | 25.75 | in |
| (R)adial / (S)quare | R | |
| Diameter | 1 | in |
| Hole Diameter | 1 1/8 | in |
| Type | A325 | |
| Fy | 92 | ksi |
| Fu | 120 | ksi |
| $f_s$ Resistance | 54.52 | k |
| Applied | 3.25 | k |



**Reinforcement**

| # | |
|---|---|

**Plate Stress Ratio:**
10% Pass

**Bolt Stress Ratio:**
6% Pass

**Extra Bolts O**

| # | |
|---|---|

# Flange Plate Analysis

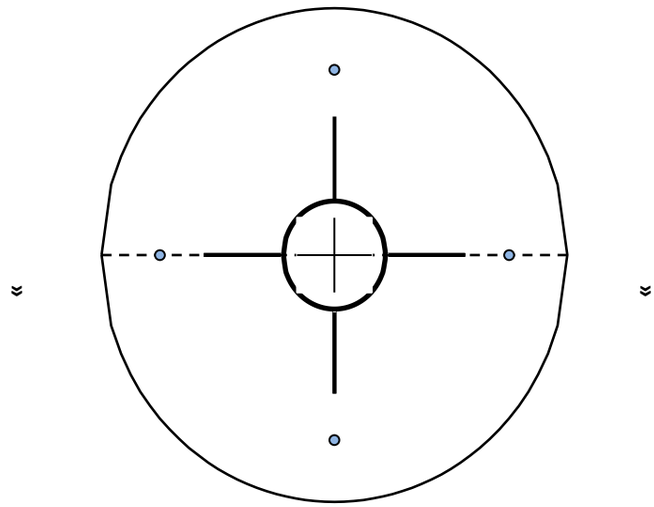
| Flange Plate | | | |
|---|---|---|---|
| | Plate Type | ***Flange*** | ***@ 155 ft*** |
| | Pole Diameter | 3.5 | in |
| | Pole Thickness | 0.218 | in |
| | Plate Diameter | 16 | in |
| | Plate Thickness | 3/4 | in |
| | Plate Fy | 36 | ksi |
| | Weld Length | 3/16 | in |
| | $f_s$ Resistance | 174.52 | k-in |
| | Applied | 3.16 | k-in |

| | | | |
|---|---|---|---|
| Code Rev. | ***H*** | | |
| Moment | 0.9 k-ft | | |
| Axial | 0.2 k | | |

| | |
|---|---|
| **Date** | 10/29/2021 |
| **Engineer** | Nicholas Beam |
| **Site #** | 302495 |
| **Carrier** | Sprint Nextel |

| Stiffeners | | | |
|---|---|---|---|
| | # | ***4*** | ***Show*** |
| | Thickness | 1/2 | in |
| | Length | 3 | in |
| | Height | 6 | in |
| | Chamfer | 1/2 | in |
| | Offset Angle | 45 | ° |
| | Fy | 36 | ksi |

| Bolts | | | |
|---|---|---|---|
| | # | ***4*** | |
| | Bolt Circle | 12 | in |
| | (R)adial / (S)quare | R | |
| • | Diameter | 5/8 | in |
| | Hole Diameter | 3/4 | in |
| | Type | A325 | |
| | Fy | 92 | ksi |
| | Fu | 120 | ksi |
| | $f_s$ Resistance | 20.34 | k |
| | Applied | 0.86 | k |



| Reinforcement • | | | |
|---|---|---|---|
| | # | | |

**Plate Stress Ratio:**

| | |
|---|---|
| 2% | Pass |

**Bolt Stress Ratio:**

| | |
|---|---|
| 4% | Pass |

| Extra Bolts O | | | |
|---|---|---|---|
| | # | | |

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# Antenna Mount Analysis Report

| | | |
|---|---|---|
| **ATC Site Name** | : | **Tolland CT** |
| **ATC Site Number** | : | **302495** |
| **Engineering Number** | : | **13709719_C8_06** |
| **Mount Elevation** | : | **131 ft** |
| **Carrier** | : | **SPRINT NEXTEL** |
| **Carrier Site Name** | : | **CT11725A** |
| **Carrier Site Number** | : | **CT11725A** |
| **Site Location** | : | **56 Ruops Road**<br>**Tolland, CT 06084**<br>**41.87334038, -72.33830201** |
| **County** | : | **Tolland** |
| **Date** | : | **October 20, 2021** |
| **Max Usage** | : | **55%** |
| **Result** | : | **Pass** |

Prepared By: Cait Campbell
Jason Cheronis
Vice President of Structural Engineering

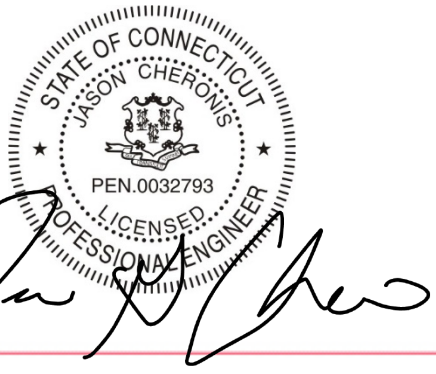


**Table of Contents**

## Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for Sprint Nextel at 132.0 ft.

## Supporting Documents

| | |
|---|---|
| **Mount Analysis** | POD Engineering #: 13709719_C8_01, dated August 17, 2021 |
| **RFDS** | RFDS dated October 6, 2021 |
| **Photos** | Site photos from 2018 |
| **Structural Analysis** | ATC Engineering #: 13709719_C3_04, dated August 24, 2021 |

## Analysis

This antenna mount was analyzed using RISA-3D v17 analysis software

| | |
|---|---|
| **Basic Wind Speed:** | 118 mph, Vult (3-Second Gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-Second Gust) w/ 1.5" Radial Ice (Escalating) |
| **Codes:** | TIA-222-H |
| **Structure Class:** | II |
| **Exposure Category:** | B |
| **Topographic Factor Procedure:** | Method 2 |
| **Topographic Feature:** | Flat |
| **Crest Height:** | 0 ft |
| **Spectral Response:** | Ss = 0.181, $S_1$ = 0.055 |
| **Site Class:** | D (assumed) |
| **Live Loads:** | Lm = 500 lbs, Lv = 250 lbs |

## Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

If you have any questions or require additional information, please contact POD Group via email at ngilkerson@podgrp.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

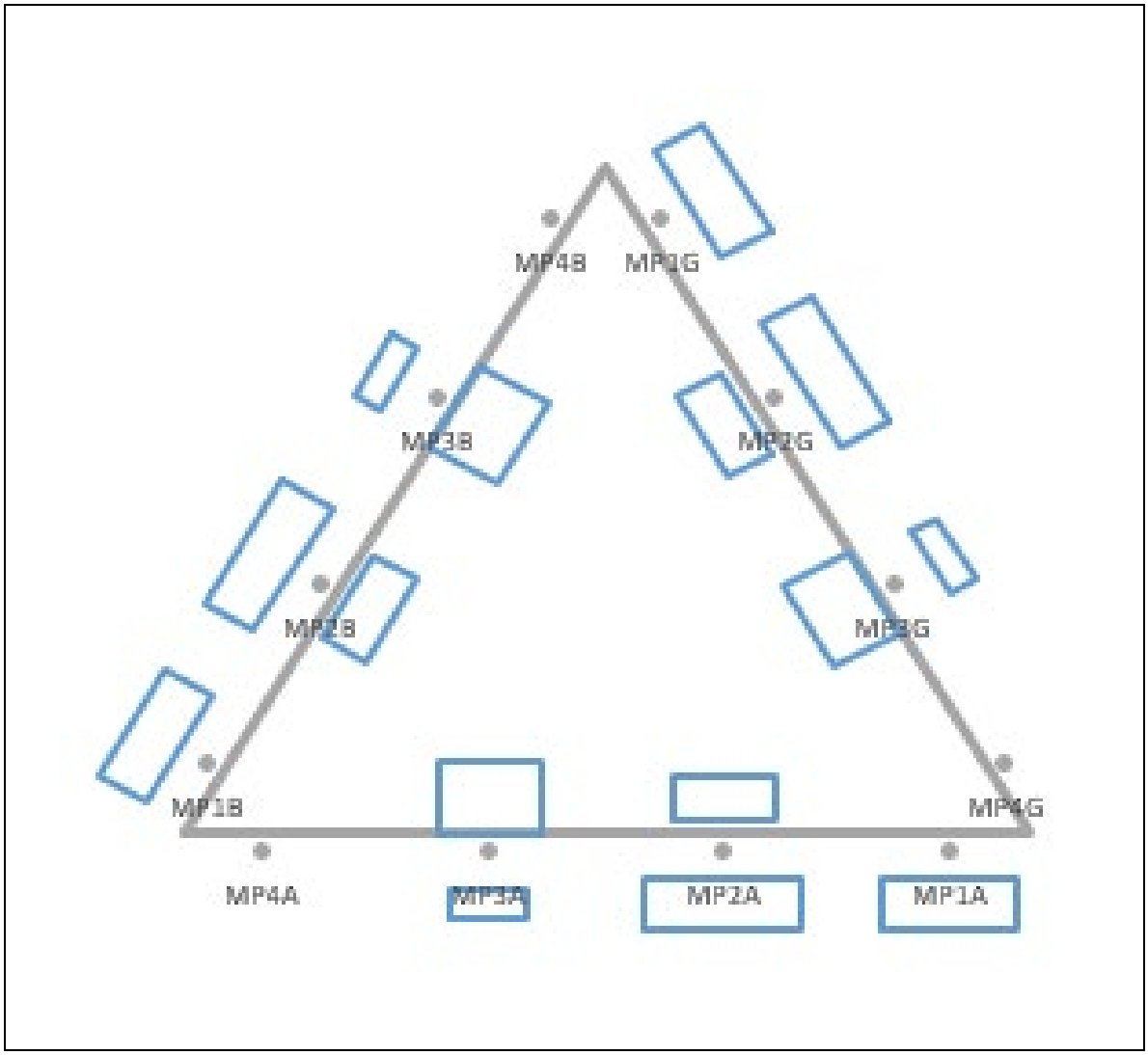
## Antenna Loading

| Mount Centerline (ft) | Antenna Centerline (ft) | Qty | Antenna Model |
|---|---|---|---|
| 131.0 | 132.0 | 3 | Ericsson Air6449 B41 |
| | | 3 | RFS APXVAARR24_43-U-NA20 |
| | | 3 | Commscope VV-65A-R1 |
| | | 3 | Ericsson Radio 4480 B71+B85A |
| | | 3 | Ericsson Radio 4460 B25+B66 |
| 50.0 | 50.0 | 1 | Generic 2” x 4” GPS |

## Structure Usages

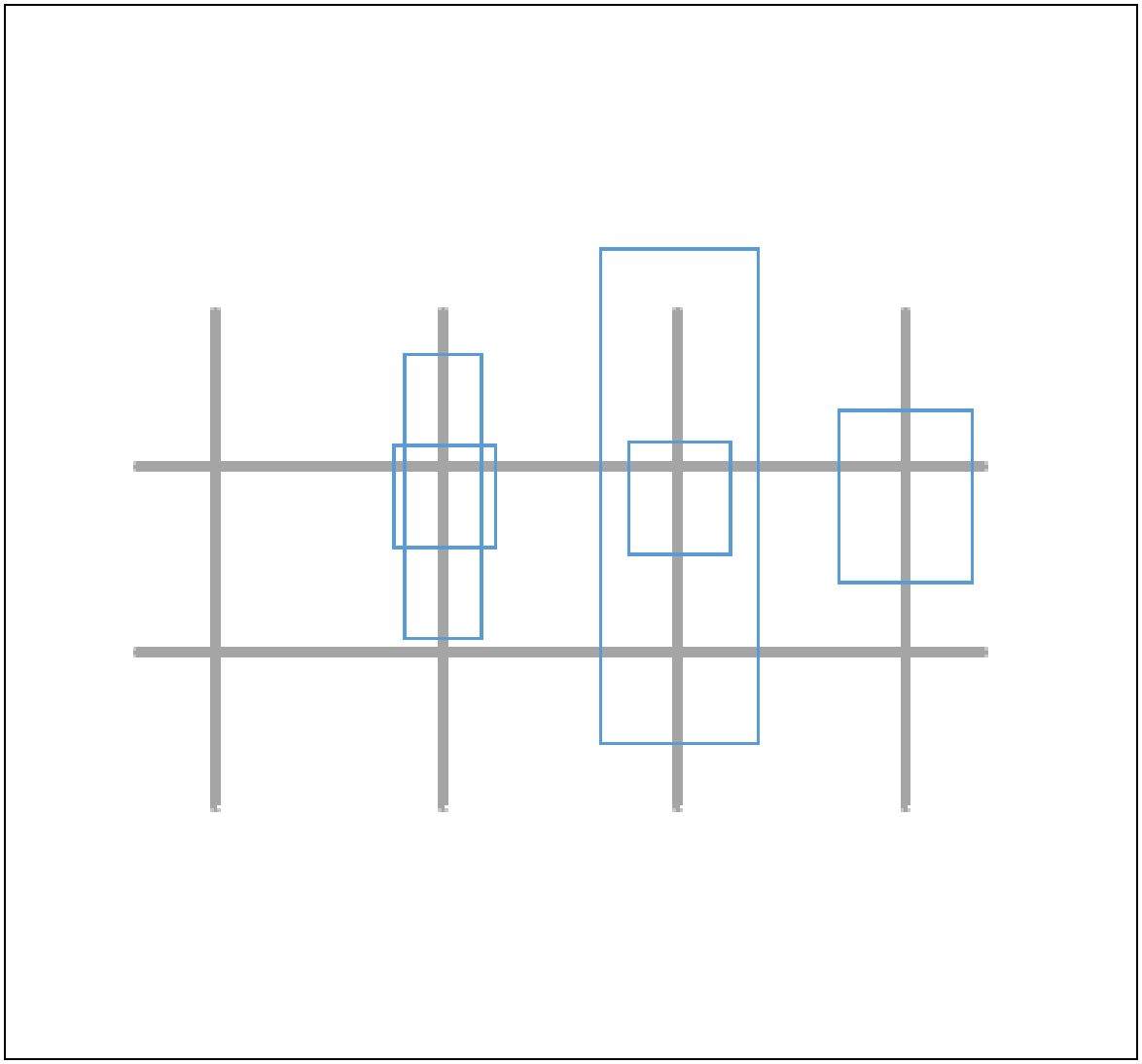
| Structural Component | Controlling Usage | Pass/Fail |
|---|---|---|
| Support Rails | 55% | Pass |
| Diagonals | 49% | Pass |
| Mount Pipes | 48% | Pass |
| Horizontals | 43% | Pass |
| Faces | 36% | Pass |
| Verticals | 27% | Pass |

## Mount Layout (From Above)




| Equipment Model | Quantity | Height (in) | Width (in) | Depth (in) | Azimuth | Sector | Mount Pipe # |
|---|---|---|---|---|---|---|---|
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 0 | A/B/C | 1 |
| APXVAARR24_43-U-NA20 | 1 | 95.9 | 24 | 8.7 | 0 | A/B/C | 2 |
| VV-65A-R1B | 1 | 54.7 | 12 | 4.6 | 0 | A/B/C | 3 |
| Radio 4480 B71+B85A | 1 | 21.8 | 15.7 | 7.5 | 0 | A/B/C | 2 |
| Radio 4460 B25+B66 | 1 | 19.6 | 15.7 | 12.1 | 0 | A/B/C | 3 |

## Equipment Layout (From Front)



| Equipment Model | Quantity | Height (in) | Width (in) | Depth (in) | Azimuth | Sector | Mount Pipe # |
|---|---|---|---|---|---|---|---|
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 0 | A/B/C | 1 |
| APXVAARR24_43-U-NA20 | 1 | 95.9 | 24 | 8.7 | 0 | A/B/C | 2 |
| VV-65A-R1B | 1 | 54.7 | 12 | 4.6 | 0 | A/B/C | 3 |
| Radio 4480 B71+B85A | 1 | 21.8 | 15.7 | 7.5 | 0 | A/B/C | 2 |
| Radio 4460 B25+B66 | 1 | 19.6 | 15.7 | 12.1 | 0 | A/B/C | 3 |

**Standard Conditions**

All engineering services performed by POD Group are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of POD Group

It is the responsibility of the client to ensure that the information provided to POD Group and used in the performance of our engineering services is correct and complete.

POD Group assumes that all structures were constructed in accordance with the drawings and specifications.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

Unless explicitly agreed by both the client and POD Group, all services will be performed in accordance with the current revision of ANSI/TIA-222.

Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. POD Group is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

POD
POWER OF DESIGN

| | |
|---|---|
| **POD Job #** | **21-113065** |
| **Site Number** | **302495** |
| **Site Name** | **Tolland CT** |

## General Site Information

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mount Type | SFP | Risk Category | II | I (seismic) | 1 | | | |
| V (Wind Speed) | 118 | I(ice) | 1 | Sms | 0.290 | | | |
| Zs | 689.09 | | | Sm1 | 0.132 | | width (ft) | height (ft) |
| ti | 1.5 | Ss | 0.181 | Sds | 0.193 | Front Outer Dimensions | 10.8 | 3 |
| Vi | 50 | S1 | 0.055 | Sd1 | 0.088 | | | |
| Kzt | 1 | Soil Site Class | D (assumed) | Seismic Design Category | | | | |
| Exposure | B | Fa | 1.600 | B | | | | |
| zg | 1200 | Fv | 2.400 | Seismic Analysis Not Required | | | | |
| α | 7 | | | R | 2 | TIA-222-H 16.7 | | |
| Kmin | 0.7 | Tower Type | Monopole | As | 1 | TIA-222-H 16.7 | | |
| $G_H$ | 1 | Tower Height | 165 | Cs, Min | 0.03 | TIA-222-H 2.7.7.1.1 | | |
| Ke | 0.98 | | | Cs | 0.09653333 | TIA-222-H 2.7.7.1.1 | | |
| $K_D$ | 0.95 | | | | | | | |
| $K_s$ | 0.9 | | | | | | | |

## Appurtenance Information

| Model | Shielded | % Shielded | Centerline | Centerline on MP | Spacing (in) | Azimuth | Sector | Quantity | MP # |
|---|---|---|---|---|---|---|---|---|---|
| Air6449 B41 | | | 132 | 5 | 23 | | A/B/C | 1 | 1 |
| APXVAARR24_43-U-NA20 | | | 132 | 5 | 70 | | A/B/C | 1 | 2 |
| VV-65A-R1B | | | 132 | 5 | 45 | | A/B/C | 1 | 3 |
| Radio 4480 B71+B85A | | | 132 | 5 | | | A/B/C | 1 | 2 |
| Radio 4460 B25+B66 | | | 132 | 5 | | | A/B/C | 1 | 3 |

## Mount Information

| | | | |
|---|---|---|---|
| Elevation (ft) | 131 | Grating Thickness (in) | 1 |
| $K_z$ | 1.07 | Grating Ice Weight (k/ft^) | 0.020 |
| Kiz | 1.15 | | |
| tiz | 1.72 | | |

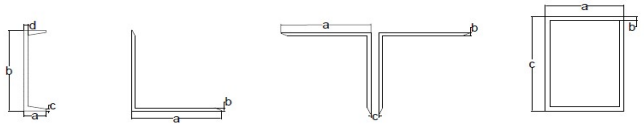
| | Length (ft) | Width (in) | Centerline |
|---|---|---|---|
| Mount Pipes | 8 | 2.375 | 131 |

**Round Members**

| Member | Length (ft) | Width (in) | Frame Member | # of Members |
|---|---|---|---|---|
| RUNG | 1 | 0.625 | No | 7 |

**Flat Members**

| Member | Length (ft) | Width (in) | Shape | A | B | C | D | Frame Member | # of Members |
|---|---|---|---|---|---|---|---|---|---|
| FACE on | 5.417 | 5 | Channel | 1.89 | 5 | 0.32 | 0.325 | Yes | 2 |
| FACE off | 5.417 | 5 | Channel | 1.89 | 5 | 0.32 | 0.325 | No | 1 |
| PL | 0.95 | 0.375 | Channel | 0 | 6 | 0 | 0.375 | No | 3 |
| SP | 0.4 | 0.375 | Channel | 0 | 6 | 0 | 0.375 | No | 3 |
| COR | 5.174 | 5 | Channel | 1.89 | 5 | 0.32 | 0.325 | No | 3 |
| SUPP1 | 3.153 | 5 | Channel | 1.89 | 5 | 0.32 | 0.325 | No | 1 |
| SUPP2 | 1.75 | 5 | Channel | 1.89 | 5 | 0.32 | 0.325 | No | 1 |
| LPL | 1 | 4 | Channel | 0 | 4 | 0 | 0.375 | No | 2 |
| RAIL on | 9.333 | 3 | Angle | 3 | 0.3125 | | | Yes | 2 |
| RAIL off | 9.333 | 3 | Angle | 3 | 0.3125 | | | No | 1 |
| LADDER | 8 | 1.75 | Angle | 1.75 | 0.25 | | | No | 2 |
| CONANG | 1 | 3 | Angle | 3 | 0.375 | | | No | 3 |
| HOR | 3 | 1.75 | Angle | 1.75 | 0.25 | | | No | 3 |
| DIAG | 4.362 | 1.75 | Angle | 1.75 | 0.25 | | | No | 6 |
| VERT | 3 | 1.75 | Angle | 1.75 | 0.25 | | | No | 12 |




Version 3.55

## Appurtenance Wind Calculations

| Model | Height | Width | Depth | Weight (lbs) | Kz | qz (lb/ft$_2$) | $(EPA)_N$ (ft$^2$) | $(EPA)_T$(ft$^2$) | Wind Force (Kips) Front | Side | Alpha | Beta | Gamma |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air6449 B41 | 33.1 | 20.6 | 8.6 | 104.0 | 1.07 | 35.33 | 5.11 | 2.24 | 0.181 | 0.079 | 0.155 | 0.155 | 0.079 |
| APXVAARR24_43-U-NA20 | 95.9 | 24.0 | 8.7 | 153.3 | 1.07 | 35.33 | 18.22 | 8.00 | 0.644 | 0.283 | 0.553 | 0.553 | 0.283 |
| VV-65A-R1B | 54.7 | 12.0 | 4.6 | 24.7 | 1.07 | 35.33 | 5.30 | 2.46 | 0.187 | 0.087 | 0.162 | 0.162 | 0.087 |
| Radio 4480 B71+B85A | 21.8 | 15.7 | 7.5 | 84.0 | 1.07 | 35.33 | 2.57 | 1.24 | 0.091 | 0.044 | 0.079 | 0.079 | 0.044 |
| Radio 4460 B25+B66 | 19.6 | 15.7 | 12.1 | 109.0 | 1.07 | 35.33 | 2.31 | 1.78 | 0.082 | 0.063 | 0.077 | 0.077 | 0.063 |

## Appurtenance Ice Calculations

| Model | tiz (in) | Height | Width | Depth | Weight (lbs) | Kiz | qz (lb/ft$_2$) | $(EPA)_N$ (ft$^2$) | $(EPA)_T$(ft$^2$) | Wind Force (Kips) Front | Side | Alpha | Beta | Gamma |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air6449 B41 | 1.72 | 36.55 | 24.05 | 12.05 | 153.03 | 1.15 | 6.34 | 6.59 | 3.37 | 0.042 | 0.021 | 0.037 | 0.037 | 0.021 |
| APXVAARR24_43-U-NA20 | 1.72 | 99.35 | 27.45 | 12.15 | 424.35 | 1.15 | 6.34 | 21.30 | 10.85 | 0.135 | 0.069 | 0.119 | 0.119 | 0.069 |
| VV-65A-R1B | 1.72 | 58.15 | 15.45 | 8.05 | 136.34 | 1.15 | 6.34 | 7.05 | 4.12 | 0.045 | 0.026 | 0.040 | 0.040 | 0.026 |
| Radio 4480 B71+B85A | 1.72 | 25.25 | 19.15 | 10.95 | 88.28 | 1.15 | 6.34 | 3.63 | 2.07 | 0.023 | 0.013 | 0.021 | 0.021 | 0.013 |
| Radio 4460 B25+B66 | 1.72 | 23.05 | 19.15 | 15.55 | 101.64 | 1.15 | 6.34 | 3.31 | 2.69 | 0.021 | 0.017 | 0.020 | 0.020 | 0.017 |

**Round Members**

| | Wind Calculations | | | | | | | Ice Calculations | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Member | $q_z$ (lb/ft$^2$) | Ar | C | Rr | Cf | EPA (ft$^2$) | Load (k/ft) | Width (in) | Weight (k/ft) | $q_z$ (lb/ft$^2$) | Arice | Rrice | Cf | EPA (ft$^2$) | Load (k/ft) |
| RUNG | 35.26 | 0.36 | 6.19 | 0.59 | 1.20 | 0.03 | 0.001 | 4.07 | 0.00 | 6.33 | 2.37 | 0.68 | 1.20 | 0.25 | 0.001 |

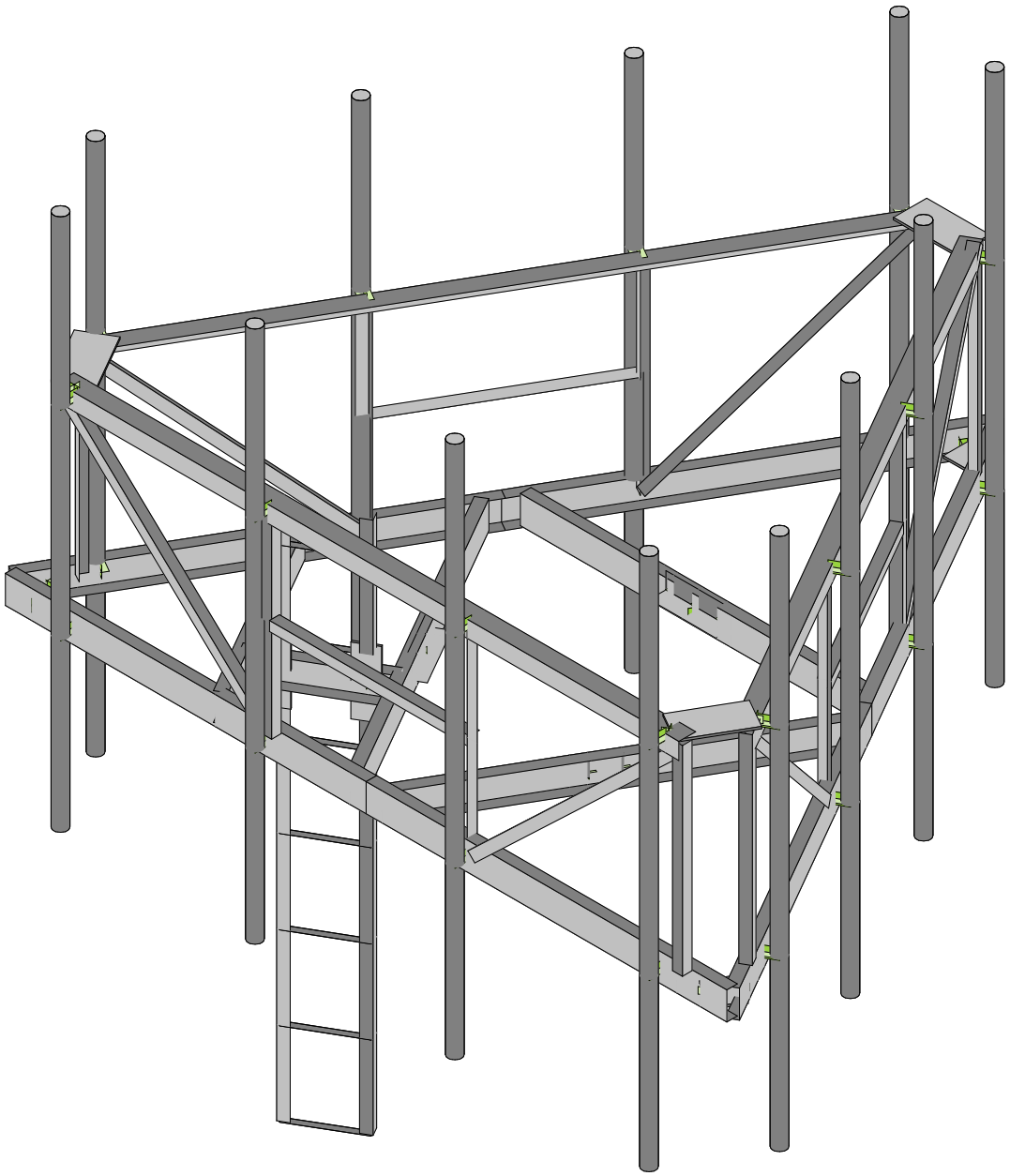
**Flat Members**

| | Wind Calculations | | | | | Ice Calculations | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Member | $q_z$ (lb/ft$^2$) | Af | Cf | EPA | Load (k/ft) | Width (in) | Weight (k/ft) | $q_z$ (lb/ft$^2$) | Arice | Rrice | Cf | EPA | Load (k/ft) |
| FACE on | 35.26 | 4.51 | 2.00 | 4.06 | 0.026 | 8.44 | 0.02 | 6.33 | 7.62 | 0.68 | 2.00 | 4.64 | 0.005 |
| FACE off | 35.26 | 2.26 | 2.00 | 4.06 | 0.013 | 8.44 | 0.02 | 6.33 | 3.81 | 0.68 | 2.00 | 4.64 | 0.003 |
| PL | 35.26 | 0.09 | 2.00 | 0.05 | 0.001 | 3.82 | 0.01 | 6.33 | 0.91 | 0.68 | 2.00 | 0.37 | 0.001 |
| SP | 35.26 | 0.04 | 2.00 | 0.02 | 0.001 | 3.82 | 0.01 | 6.33 | 0.38 | 0.68 | 2.00 | 0.16 | 0.001 |
| COR | 35.26 | 6.47 | 2.00 | 3.88 | 0.013 | 8.44 | 0.02 | 6.33 | 10.92 | 0.68 | 2.00 | 4.43 | 0.003 |
| SUPP1 | 35.26 | 1.31 | 2.00 | 2.36 | 0.013 | 8.44 | 0.02 | 6.33 | 2.22 | 0.68 | 2.00 | 2.70 | 0.003 |
| SUPP2 | 35.26 | 0.73 | 2.00 | 1.31 | 0.013 | 8.44 | 0.02 | 6.33 | 1.23 | 0.68 | 2.00 | 1.50 | 0.003 |
| LPL | 35.26 | 0.67 | 2.00 | 0.60 | 0.011 | 7.44 | 0.01 | 6.33 | 1.24 | 0.68 | 2.00 | 0.76 | 0.002 |
| RAIL on | 35.26 | 4.67 | 2.00 | 4.20 | 0.016 | 6.44 | 0.01 | 6.33 | 10.02 | 0.68 | 2.00 | 6.10 | 0.004 |
| RAIL off | 35.26 | 2.33 | 2.00 | 4.20 | 0.008 | 6.44 | 0.01 | 6.33 | 5.01 | 0.68 | 2.00 | 6.10 | 0.002 |
| LADDER | 35.26 | 2.33 | 2.00 | 2.10 | 0.005 | 5.19 | 0.01 | 6.33 | 6.92 | 0.68 | 2.00 | 4.22 | 0.002 |
| CONANG | 35.26 | 0.75 | 2.00 | 0.45 | 0.008 | 6.44 | 0.01 | 6.33 | 1.61 | 0.68 | 2.00 | 0.65 | 0.002 |
| HOR | 35.26 | 1.31 | 2.00 | 0.79 | 0.005 | 5.19 | 0.01 | 6.33 | 3.90 | 0.68 | 2.00 | 1.58 | 0.002 |
| DIAG | 35.26 | 3.82 | 2.00 | 1.15 | 0.005 | 5.19 | 0.01 | 6.33 | 11.33 | 0.68 | 2.00 | 2.30 | 0.002 |
| VERT | 35.26 | 5.25 | 2.00 | 0.79 | 0.005 | 5.19 | 0.01 | 6.33 | 15.58 | 0.68 | 2.00 | 1.58 | 0.002 |

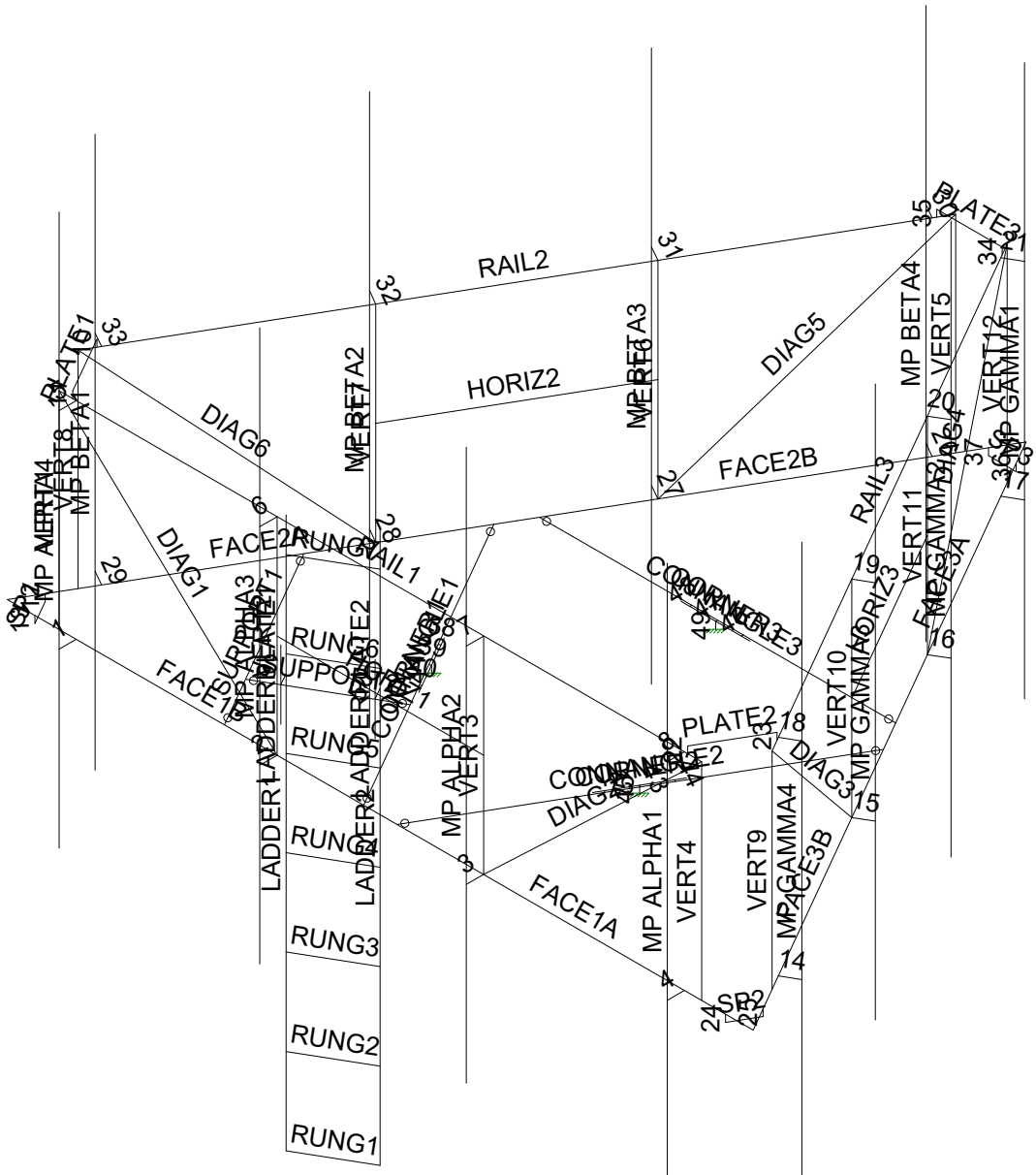
## Appurtenance Seismic Calculations

| Model | Weight | Sds | ρ | Cs | As | Ev | Eh |
|---|---|---|---|---|---|---|---|
| Air6449 B41 | 104.0 | 0.193 | 1.000 | 0.097 | 1.000 | 0.004 | 0.010 |
| APXVAARR24_43-U-NA20 | 153.3 | 0.193 | 1.000 | 0.097 | 1.000 | 0.006 | 0.015 |
| VV-65A-R1B | 24.7 | 0.193 | 1.000 | 0.097 | 1.000 | 0.001 | 0.002 |
| Radio 4480 B71+B85A | 84.0 | 0.193 | 1.000 | 0.097 | 1.000 | 0.003 | 0.008 |
| Radio 4460 B25+B66 | 109.0 | 0.193 | 1.000 | 0.097 | 1.000 | 0.004 | 0.011 |

Version 3.55



| | | |
|---|---|---|
| Power of Design | 302495 | SK - 2 |
| CC | | Oct 19, 2021 at 4:18 PM |
| 21-113065 | | (PL8) 10.67' EEI Platform (Channel... |




| | | |
|---|---|---|
| Power of Design | 302495 | SK - 1 |
| CC | | Oct 19, 2021 at 4:18 PM |
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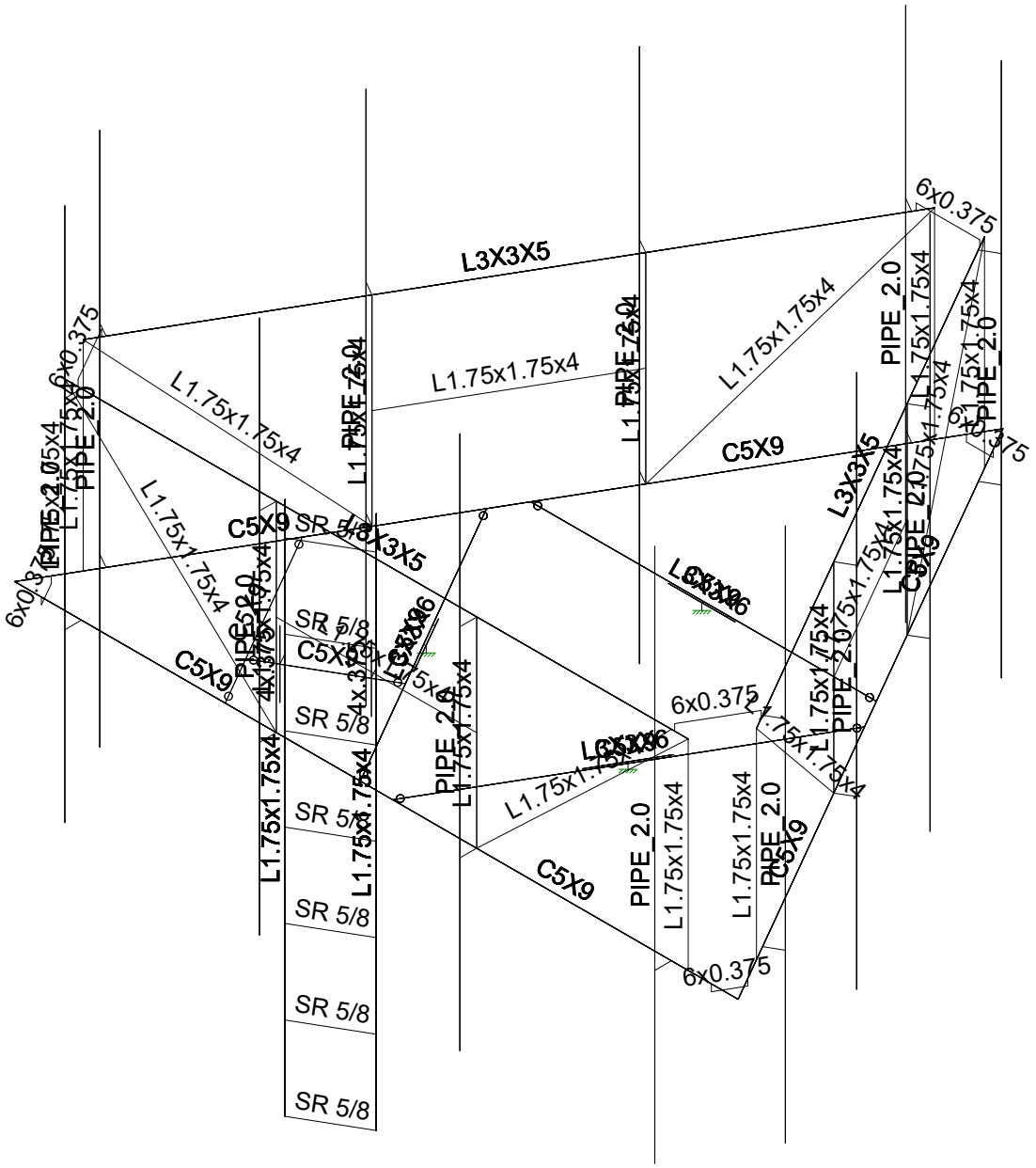
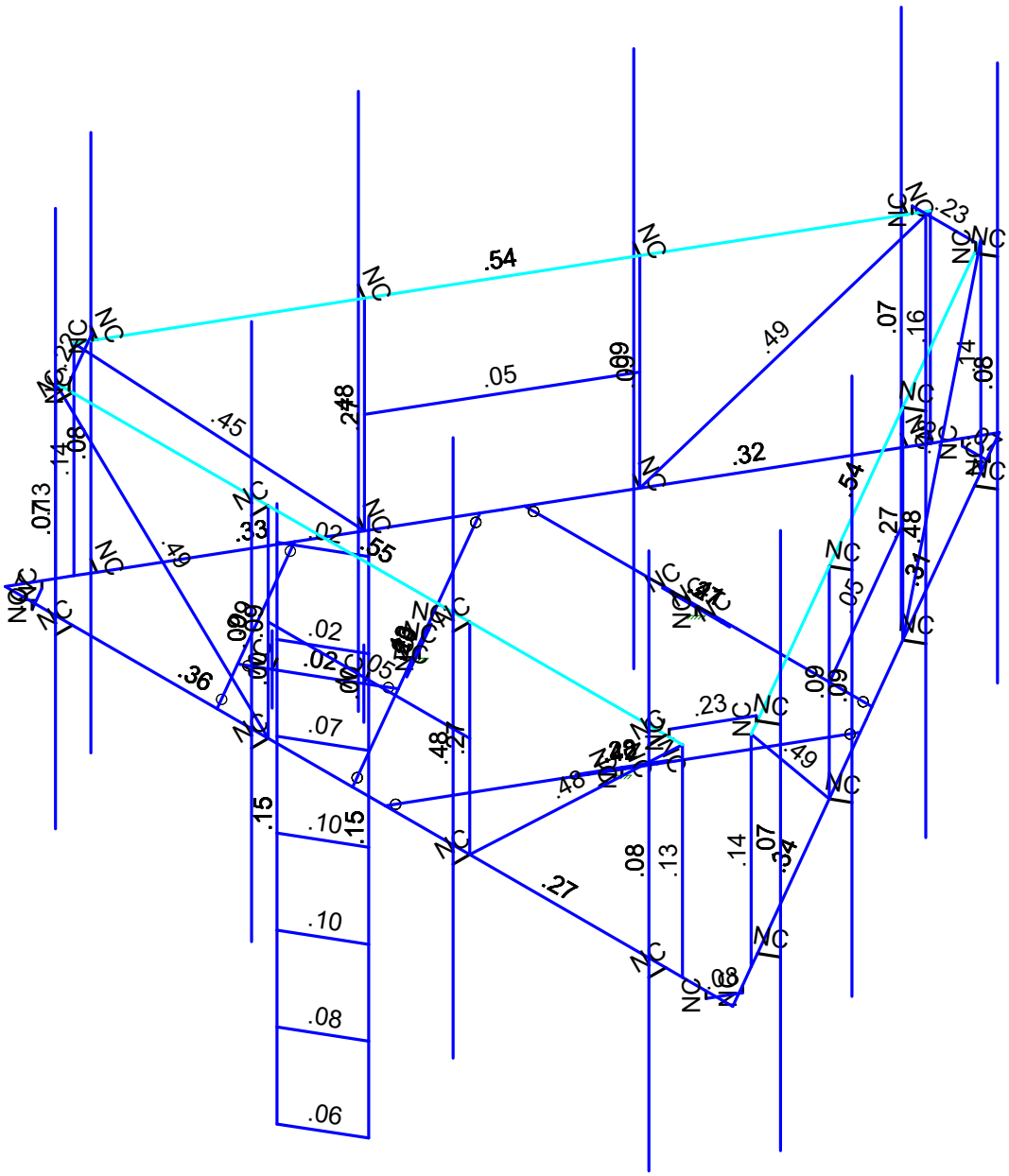
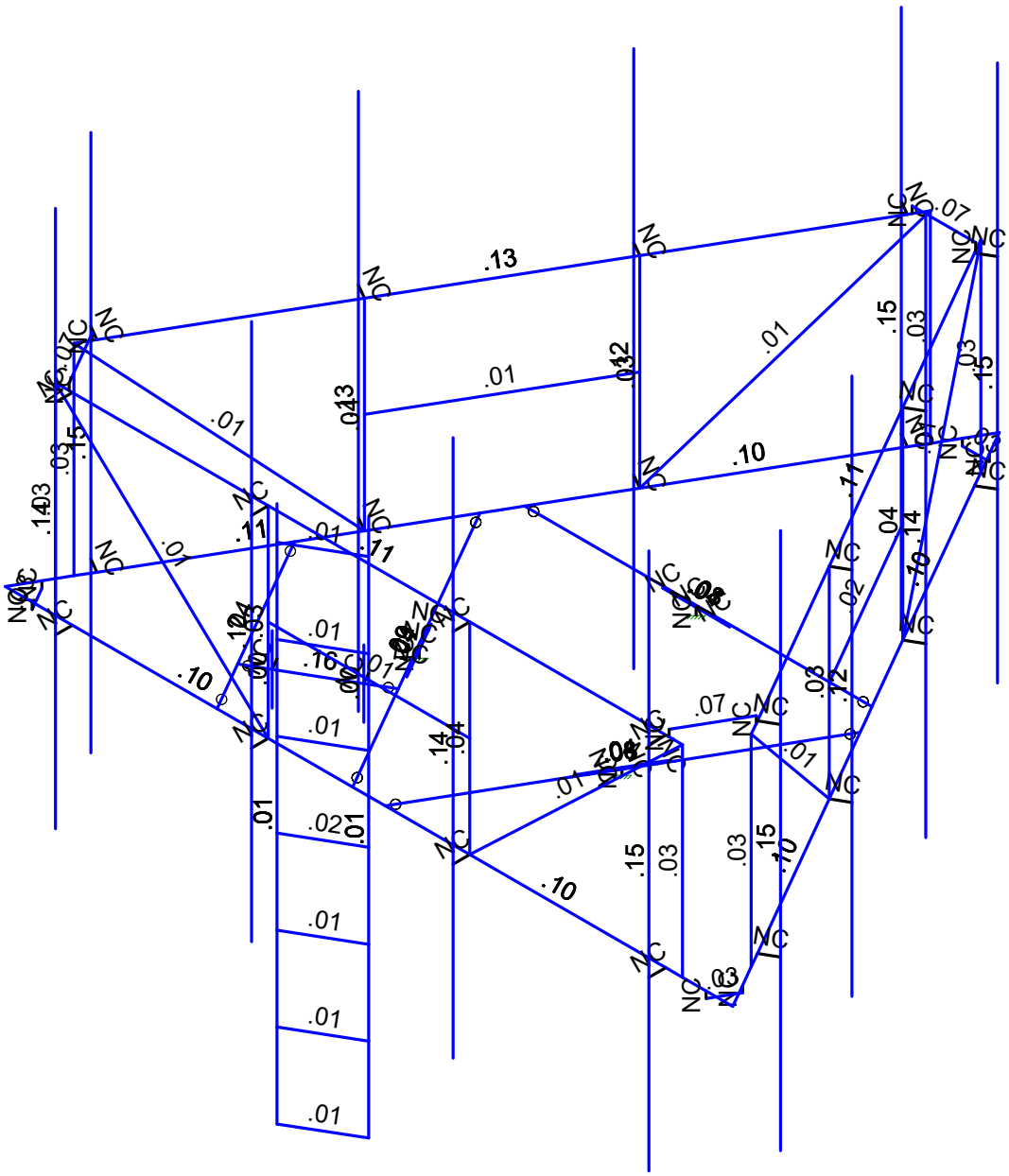



| | | |
|---|---|---|
| Power of Design | 302495 | SK - 3 |
| CC | | Oct 19, 2021 at 4:18 PM |
| 21-113065 | | (PL8) 10.67' EEI Platform (Channel... |



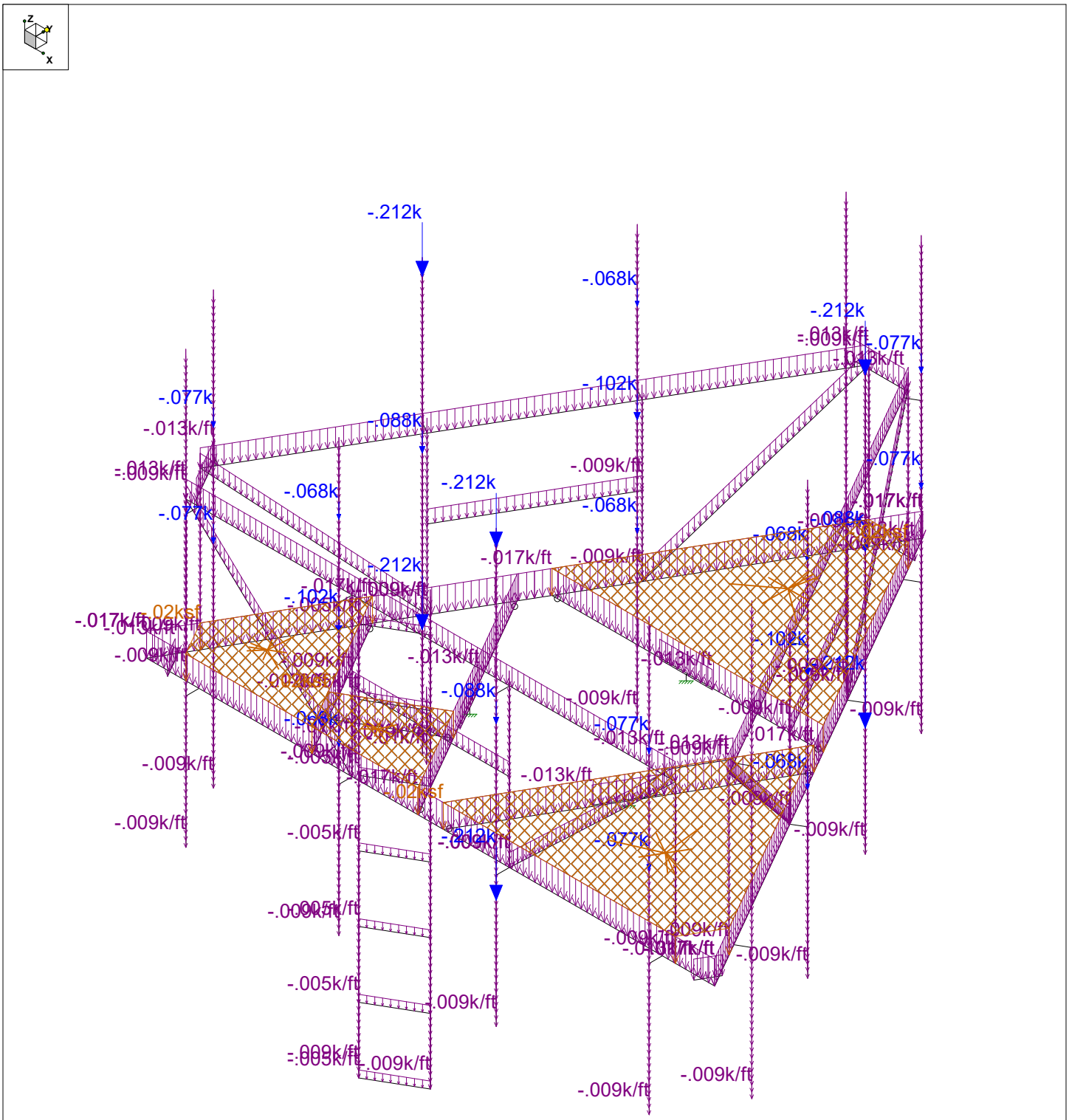

Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

| | | |
|---|---|---|
| Power of Design | 302495 | SK - 4 |
| CC | | Oct 19, 2021 at 4:18 PM |
| 21-113065 | | (PL8) 10.67' EEI Platform (Channel... |




Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.4D

| | | |
|---|---|---|
| Power of Design | 302495 | SK - 5 |
| CC | | Oct 19, 2021 at 4:18 PM |
| 21-113065 | | (PL8) 10.67' EEI Platform (Channel... |




Loads: BLC 27, Ice Dead Load

| | | |
|---|---|---|
| Power of Design | 302495 | SK - 6 |
| CC | | Oct 19, 2021 at 4:18 PM |
| 21-113065 | | (PL8) 10.67' EEI Platform (Channel... |

## Joint Boundary Conditions

| | Joint Label | X [k/in] | Y [k/in] | Z [k/in] | X Rot.[k-ft/rad] | Y Rot.[k-ft/rad] | Z Rot.[k-ft/rad] |
|---|---|---|---|---|---|---|---|
| 1 | N170A | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 2 | N180 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 3 | N190 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |

## Hot Rolled Steel Design Parameters

| | Label | Shape | Length[ft] | Lbyy[ft] | Lbzz[ft] | Lcomp top[ft] | Lcomp bot[ft] | L-torque[ft] | Kyy | Kzz | Cb | Function |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | L3X3X6 | 1 | | | Lbyy | | | | | | Lateral |
| 2 | CONNANGLE2 | L3X3X6 | 1 | | | Lbyy | | | | | | Lateral |
| 3 | CONNANGLE3 | L3X3X6 | 1 | | | Lbyy | | | | | | Lateral |
| 4 | CORNER1 | C5X9 | 5.174 | | | Lbyy | | | | | | Lateral |
| 5 | CORNER2 | C5X9 | 5.174 | | | Lbyy | | | | | | Lateral |
| 6 | CORNER3 | C5X9 | 5.174 | | | Lbyy | | | | | | Lateral |
| 7 | DIAG1 | L1.75x1.... | 4.362 | | | Lbyy | | | | | | Lateral |
| 8 | DIAG2 | L1.75x1.... | 4.362 | | | Lbyy | | | | | | Lateral |
| 9 | DIAG3 | L1.75x1.... | 4.362 | | | Lbyy | | | | | | Lateral |
| 10 | DIAG4 | L1.75x1.... | 4.362 | | | Lbyy | | | | | | Lateral |
| 11 | DIAG5 | L1.75x1.... | 4.362 | | | Lbyy | | | | | | Lateral |
| 12 | DIAG6 | L1.75x1.... | 4.362 | | | Lbyy | | | | | | Lateral |
| 13 | FACE1A | C5X9 | 5.417 | | | Lbyy | | | | | | Lateral |
| 14 | FACE1B | C5X9 | 5.416 | | | Lbyy | | | | | | Lateral |
| 15 | FACE2A | C5X9 | 5.416 | | | Lbyy | | | | | | Lateral |
| 16 | FACE2B | C5X9 | 5.417 | | | Lbyy | | | | | | Lateral |
| 17 | FACE3A | C5X9 | 5.417 | | | Lbyy | | | | | | Lateral |
| 18 | FACE3B | C5X9 | 5.417 | | | Lbyy | | | | | | Lateral |
| 19 | HORIZ1 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 20 | HORIZ2 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 21 | HORIZ3 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 22 | LADDER1 | L1.75x1.... | 8 | | | Lbyy | | | | | | Lateral |
| 23 | LADDER2 | L1.75x1.... | 8 | | | Lbyy | | | | | | Lateral |
| 24 | LADDERPLATE1 | 4x.375 | 1 | | | Lbyy | | | | | | Lateral |
| 25 | LADDERPLATE2 | 4x.375 | 1 | | | Lbyy | | | | | | Lateral |
| 26 | MP ALPHA1 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 27 | MP ALPHA2 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 28 | MP ALPHA3 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 29 | MP ALPHA4 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 30 | MP BETA1 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 31 | MP BETA2 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 32 | MP BETA3 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 33 | MP BETA4 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 34 | MP GAMMA1 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 35 | MP GAMMA2 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 36 | MP GAMMA3 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 37 | MP GAMMA4 | PIPE_2.0 | 8 | | | Lbyy | | | | | | Lateral |
| 38 | PLATE1 | 6x0.375 | .95 | | | Lbyy | | | | | | Lateral |
| 39 | PLATE2 | 6x0.375 | .95 | | | Lbyy | | | | | | Lateral |
| 40 | PLATE3 | 6x0.375 | .95 | | | Lbyy | | | | | | Lateral |
| 41 | RAIL1 | L3X3X5 | 9.333 | | | Lbyy | | | | | | Lateral |
| 42 | RAIL2 | L3X3X5 | 9.333 | | | Lbyy | | | | | | Lateral |
| 43 | RAIL3 | L3X3X5 | 9.333 | | | Lbyy | | | | | | Lateral |
| 44 | RUNG1 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |
| 45 | RUNG2 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |
| 46 | RUNG3 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |
| 47 | RUNG4 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |
| 48 | RUNG5 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |

## Hot Rolled Steel Design Parameters (Continued)

| | Label | Shape | Length[ft] | Lbyy[ft] | Lbzz[ft] | Lcomp top[ft] | Lcomp bot[ft] | L-torque[ft] | Kyy | Kzz | Cb | Function |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | RUNG6 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |
| 50 | RUNG7 | SR 5/8 | 1 | | | Lbyy | | | | | | Lateral |
| 51 | SP1 | 6x0.375 | .4 | | | Lbyy | | | | | | Lateral |
| 52 | SP2 | 6x0.375 | .4 | | | Lbyy | | | | | | Lateral |
| 53 | SP3 | 6x0.375 | .4 | | | Lbyy | | | | | | Lateral |
| 54 | SUPPORT1 | C5X9 | 3.153 | | | Lbyy | | | | | | Lateral |
| 55 | SUPPORT2 | C5X9 | 1.75 | | | Lbyy | | | | | | Lateral |
| 56 | VERT1 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 57 | VERT2 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 58 | VERT3 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 59 | VERT4 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 60 | VERT5 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 61 | VERT6 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 62 | VERT7 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 63 | VERT8 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 64 | VERT9 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 65 | VERT10 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 66 | VERT11 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |
| 67 | VERT12 | L1.75x1.... | 3 | | | Lbyy | | | | | | Lateral |

## Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(... | Section/Shape | Type | Design List | Material | Design Rules |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | N35 | N36 | | | RIGID | None | None | RIGID | Typical |
| 2 | 2 | N37 | N38 | | | RIGID | None | None | RIGID | Typical |
| 3 | 3 | N39 | N40 | | | RIGID | None | None | RIGID | Typical |
| 4 | 4 | N41 | N42 | | | RIGID | None | None | RIGID | Typical |
| 5 | 5 | N64A | N65A | | | RIGID | None | None | RIGID | Typical |
| 6 | 6 | N66A | N67A | | | RIGID | None | None | RIGID | Typical |
| 7 | 7 | N68A | N69A | | | RIGID | None | None | RIGID | Typical |
| 8 | 8 | N70A | N71A | | | RIGID | None | None | RIGID | Typical |
| 9 | 9 | N84 | N89A | | | RIGID | None | None | RIGID | Typical |
| 10 | 10 | N94A | N92 | | | RIGID | None | None | RIGID | Typical |
| 11 | 11 | N93 | N91 | | | RIGID | None | None | RIGID | Typical |
| 12 | 12 | N96 | N98 | | | RIGID | None | None | RIGID | Typical |
| 13 | 13 | N95A | N97 | | | RIGID | None | None | RIGID | Typical |
| 14 | 14 | N99 | N100A | | | RIGID | None | None | RIGID | Typical |
| 15 | 15 | N101A | N102A | | | RIGID | None | None | RIGID | Typical |
| 16 | 16 | N103A | N104A | | | RIGID | None | None | RIGID | Typical |
| 17 | 17 | N105A | N106A | | | RIGID | None | None | RIGID | Typical |
| 18 | 18 | N109A | N110A | | | RIGID | None | None | RIGID | Typical |
| 19 | 19 | N111A | N112A | | | RIGID | None | None | RIGID | Typical |
| 20 | 20 | N113A | N114A | | | RIGID | None | None | RIGID | Typical |
| 21 | 21 | N115A | N116A | | | RIGID | None | None | RIGID | Typical |
| 22 | 22 | N133 | N131A | | 120 | RIGID | None | None | RIGID | Typical |
| 23 | 23 | N132 | N130A | | 120 | RIGID | None | None | RIGID | Typical |
| 24 | 24 | N135 | N137 | | 120 | RIGID | None | None | RIGID | Typical |
| 25 | 25 | N134 | N136 | | 120 | RIGID | None | None | RIGID | Typical |
| 26 | 26 | N138 | N139 | | 180 | RIGID | None | None | RIGID | Typical |
| 27 | 27 | N140 | N141 | | 180 | RIGID | None | None | RIGID | Typical |
| 28 | 28 | N142 | N143 | | 180 | RIGID | None | None | RIGID | Typical |
| 29 | 29 | N144 | N145 | | 180 | RIGID | None | None | RIGID | Typical |
| 30 | 30 | N148 | N149 | | 180 | RIGID | None | None | RIGID | Typical |
| 31 | 31 | N150 | N151 | | 180 | RIGID | None | None | RIGID | Typical |
| 32 | 32 | N152 | N153 | | 180 | RIGID | None | None | RIGID | Typical |
| 33 | 33 | N154 | N155 | | 180 | RIGID | None | None | RIGID | Typical |

## Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(... | Section/Shape | Type | Design List | Material | Design Rules |
|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 34 | N172 | N170 | | 240 | RIGID | None | None | RIGID | Typical |
| 35 | 35 | N171 | N169 | | 240 | RIGID | None | None | RIGID | Typical |
| 36 | 36 | N174 | N176 | | 240 | RIGID | None | None | RIGID | Typical |
| 37 | 37 | N173 | N175 | | 240 | RIGID | None | None | RIGID | Typical |
| 38 | 38 | N79 | N166A | | | RIGID | None | None | RIGID | Typical |
| 39 | 39 | N78 | N165A | | | RIGID | None | None | RIGID | Typical |
| 40 | 40 | N80 | N167A | | | RIGID | None | None | RIGID | Typical |
| 41 | 41 | N170A | N165A | | | RIGID | None | None | RIGID | Typical |
| 42 | 42 | N172A | N176A | | 180 | RIGID | None | None | RIGID | Typical |
| 43 | 43 | N171A | N175A | | 180 | RIGID | None | None | RIGID | Typical |
| 44 | 44 | N173A | N177 | | 180 | RIGID | None | None | RIGID | Typical |
| 45 | 45 | N180 | N175A | | 120 | RIGID | None | None | RIGID | Typical |
| 46 | 46 | N182 | N186 | | 180 | RIGID | None | None | RIGID | Typical |
| 47 | 47 | N181 | N185 | | 180 | RIGID | None | None | RIGID | Typical |
| 48 | 48 | N183 | N187 | | 180 | RIGID | None | None | RIGID | Typical |
| 49 | 49 | N190 | N185 | | 240 | RIGID | None | None | RIGID | Typical |
| 50 | 50 | N85 | N90A | | | RIGID | None | None | RIGID | Typical |
| 51 | CONNAN... | N168 | N169A | | | L3X3X6 | Beam | Single Angle | A36 Gr.36 | Typical |
| 52 | CONNAN... | N178 | N179 | | | L3X3X6 | Beam | Single Angle | A36 Gr.36 | Typical |
| 53 | CONNAN... | N188 | N189 | | 180 | L3X3X6 | Beam | Single Angle | A36 Gr.36 | Typical |
| 54 | CORNER1 | N3 | N4 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 55 | CORNER2 | N5 | N6 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 56 | CORNER3 | N1 | N2 | | 270 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 57 | DIAG1 | N70 | N37 | | 270 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 58 | DIAG2 | N39 | N71 | | 270 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 59 | DIAG3 | N72 | N101A | | 139.988 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 60 | DIAG4 | N103A | N73 | | 40.012 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 61 | DIAG5 | N74 | N140 | | 9.976 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 62 | DIAG6 | N142 | N69 | | 170.024 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 63 | FACE1A | N64 | N63 | | 270 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 64 | FACE1B | N67 | N63 | | 270 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 65 | FACE2A | N67 | N68 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 66 | FACE2B | N66 | N68 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 67 | FACE3A | N66 | N65 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 68 | FACE3B | N64 | N65 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 69 | HORIZ1 | N94 | N95 | | 270 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 70 | HORIZ2 | N158 | N159 | | 270 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 71 | HORIZ3 | N119A | N120 | | 90 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 72 | LADDER1 | N100 | N102 | | 300 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 73 | LADDER2 | N101 | N103 | | 30 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 74 | LADDERP... | N87A | N85A | | 120 | 4x.375 | Beam | RECT | A36 Gr.36 | Typical |
| 75 | LADDERP... | N88 | N86 | | 120 | 4x.375 | Beam | RECT | A36 Gr.36 | Typical |
| 76 | MP ALPHA1 | N119 | N131 | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 77 | MP ALPHA2 | N118 | N130 | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 78 | MP ALPHA3 | N117 | N129 | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 79 | MP ALPHA4 | N116 | N128 | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 80 | MP BETA1 | N163 | N167 | | 240 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 81 | MP BETA2 | N162 | N166 | | 240 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 82 | MP BETA3 | N161 | N165 | | 240 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 83 | MP BETA4 | N160 | N164 | | 240 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 84 | MP GAMM... | N124 | N128A | | 120 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 85 | MP GAMM... | N123 | N127 | | 120 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 86 | MP GAMM... | N122 | N126 | | 120 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 87 | MP GAMM... | N121 | N125 | | 120 | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 88 | PLATE1 | N92 | N91 | | | 6x0.375 | Beam | BAR | A36 Gr.36 | Typical |
| 89 | PLATE2 | N131A | N130A | | 180 | 6x0.375 | Beam | BAR | A36 Gr.36 | Typical |
| 90 | PLATE3 | N170 | N169 | | 180 | 6x0.375 | Beam | BAR | A36 Gr.36 | Typical |

## Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(... | Section/Shape | Type | Design List | Material | Design Rules |
|---|---|---|---|---|---|---|---|---|---|---|
| 91 | RAIL1 | N70 | N71 | | 270 | L3X3X5 | Beam | Single Angle | A36 Gr.36 | Typical |
| 92 | RAIL2 | N74 | N69 | | 90 | L3X3X5 | Beam | Single Angle | A36 Gr.36 | Typical |
| 93 | RAIL3 | N72 | N73 | | 90 | L3X3X5 | Beam | Single Angle | A36 Gr.36 | Typical |
| 94 | RUNG1 | N100 | N101 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 95 | RUNG2 | N104 | N105 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 96 | RUNG3 | N106 | N107 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 97 | RUNG4 | N108 | N109 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 98 | RUNG5 | N110 | N111 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 99 | RUNG6 | N112 | N113 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 100 | RUNG7 | N114 | N115 | | | SR 5/8 | Beam | BAR | A36 Gr.36 | Typical |
| 101 | SP1 | N96 | N95A | | | 6x0.375 | Beam | BAR | A36 Gr.36 | Typical |
| 102 | SP2 | N135 | N134 | | 180 | 6x0.375 | Beam | BAR | A36 Gr.36 | Typical |
| 103 | SP3 | N174 | N173 | | 180 | 6x0.375 | Beam | BAR | A36 Gr.36 | Typical |
| 104 | SUPPORT1 | N31 | N32 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 105 | SUPPORT2 | N33 | N34 | | 90 | C5X9 | Beam | Channel | A36 Gr.36 | Typical |
| 106 | VERT1 | N89 | N70 | | 270 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 107 | VERT2 | N37 | N66A | | | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 108 | VERT3 | N39 | N68A | | 270 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 109 | VERT4 | N90 | N71 | | | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 110 | VERT5 | N156 | N74 | | 150 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 111 | VERT6 | N140 | N150 | | 240 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 112 | VERT7 | N142 | N152 | | 150 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 113 | VERT8 | N157 | N69 | | 240 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 114 | VERT9 | N117A | N72 | | 30 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 115 | VERT10 | N101A | N111A | | 120 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 116 | VERT11 | N103A | N113A | | 30 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 117 | VERT12 | N118A | N73 | | 120 | L1.75x1.75x4 | Beam | Single Angle | A36 Gr.36 | Typical |

## Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ra... | Analysis Offset[i... | Inactive | Seismic... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | | | | | | Yes | ** NA ** | | | None |
| 2 | 2 | | | | | | Yes | ** NA ** | | | None |
| 3 | 3 | | | | | | Yes | ** NA ** | | | None |
| 4 | 4 | | | | | | Yes | ** NA ** | | | None |
| 5 | 5 | | | | | | Yes | ** NA ** | | | None |
| 6 | 6 | | | | | | Yes | ** NA ** | | | None |
| 7 | 7 | | | | | | Yes | ** NA ** | | | None |
| 8 | 8 | | | | | | Yes | ** NA ** | | | None |
| 9 | 9 | | | | | | Yes | ** NA ** | | | None |
| 10 | 10 | | | | | | Yes | ** NA ** | | | None |
| 11 | 11 | | | | | | Yes | ** NA ** | | | None |
| 12 | 12 | | | | | | Yes | ** NA ** | | | None |
| 13 | 13 | | | | | | Yes | ** NA ** | | | None |
| 14 | 14 | | | | | | Yes | ** NA ** | | | None |
| 15 | 15 | | | | | | Yes | ** NA ** | | | None |
| 16 | 16 | | | | | | Yes | ** NA ** | | | None |
| 17 | 17 | | | | | | Yes | ** NA ** | | | None |
| 18 | 18 | | | | | | Yes | ** NA ** | | | None |
| 19 | 19 | | | | | | Yes | ** NA ** | | | None |
| 20 | 20 | | | | | | Yes | ** NA ** | | | None |
| 21 | 21 | | | | | | Yes | ** NA ** | | | None |
| 22 | 22 | | | | | | Yes | ** NA ** | | | None |
| 23 | 23 | | | | | | Yes | ** NA ** | | | None |
| 24 | 24 | | | | | | Yes | ** NA ** | | | None |
| 25 | 25 | | | | | | Yes | ** NA ** | | | None |

## Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ra... | Analysis Offset[i... | Inactive | Seismic... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | 26 | | | | | | Yes | ** NA ** | | | None |
| 27 | 27 | | | | | | Yes | ** NA ** | | | None |
| 28 | 28 | | | | | | Yes | ** NA ** | | | None |
| 29 | 29 | | | | | | Yes | ** NA ** | | | None |
| 30 | 30 | | | | | | Yes | ** NA ** | | | None |
| 31 | 31 | | | | | | Yes | ** NA ** | | | None |
| 32 | 32 | | | | | | Yes | ** NA ** | | | None |
| 33 | 33 | | | | | | Yes | ** NA ** | | | None |
| 34 | 34 | | | | | | Yes | ** NA ** | | | None |
| 35 | 35 | | | | | | Yes | ** NA ** | | | None |
| 36 | 36 | | | | | | Yes | ** NA ** | | | None |
| 37 | 37 | | | | | | Yes | ** NA ** | | | None |
| 38 | 38 | | | | | | Yes | ** NA ** | | | None |
| 39 | 39 | | | | | | Yes | ** NA ** | | | None |
| 40 | 40 | | | | | | Yes | ** NA ** | | | None |
| 41 | 41 | | | | | | Yes | ** NA ** | | | None |
| 42 | 42 | | | | | | Yes | ** NA ** | | | None |
| 43 | 43 | | | | | | Yes | ** NA ** | | | None |
| 44 | 44 | | | | | | Yes | ** NA ** | | | None |
| 45 | 45 | | | | | | Yes | ** NA ** | | | None |
| 46 | 46 | | | | | | Yes | ** NA ** | | | None |
| 47 | 47 | | | | | | Yes | ** NA ** | | | None |
| 48 | 48 | | | | | | Yes | ** NA ** | | | None |
| 49 | 49 | | | | | | Yes | ** NA ** | | | None |
| 50 | 50 | | | | | | Yes | ** NA ** | | | None |
| 51 | CONNAN... | | | | | | Yes | | | | None |
| 52 | CONNAN... | | | | | | Yes | | | | None |
| 53 | CONNAN... | | | | | | Yes | | | | None |
| 54 | CORNER1 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 55 | CORNER2 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 56 | CORNER3 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 57 | DIAG1 | | | | | | Yes | | | | None |
| 58 | DIAG2 | | | | | | Yes | | | | None |
| 59 | DIAG3 | | | | | | Yes | | | | None |
| 60 | DIAG4 | | | | | | Yes | | | | None |
| 61 | DIAG5 | | | | | | Yes | | | | None |
| 62 | DIAG6 | | | | | | Yes | | | | None |
| 63 | FACE1A | | | | | | Yes | | | | None |
| 64 | FACE1B | | | | | | Yes | | | | None |
| 65 | FACE2A | | | | | | Yes | | | | None |
| 66 | FACE2B | | | | | | Yes | | | | None |
| 67 | FACE3A | | | | | | Yes | | | | None |
| 68 | FACE3B | | | | | | Yes | | | | None |
| 69 | HORIZ1 | | | | | | Yes | | | | None |
| 70 | HORIZ2 | | | | | | Yes | | | | None |
| 71 | HORIZ3 | | | | | | Yes | | | | None |
| 72 | LADDER1 | | | | | | Yes | | | | None |
| 73 | LADDER2 | | | | | | Yes | | | | None |
| 74 | LADDERP... | | | | | | Yes | | -z | | None |
| 75 | LADDERP... | | | | | | Yes | Default | -z | | None |
| 76 | MP ALPHA1 | | | | | | Yes | | | | None |
| 77 | MP ALPHA2 | | | | | | Yes | | | | None |
| 78 | MP ALPHA3 | | | | | | Yes | | | | None |
| 79 | MP ALPHA4 | | | | | | Yes | | | | None |
| 80 | MP BETA1 | | | | | | Yes | | | | None |
| 81 | MP BETA2 | | | | | | Yes | | | | None |
| 82 | MP BETA3 | | | | | | Yes | | | | None |

## Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ra... | Analysis Offset[i... | Inactive | Seismic... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 83 | MP BETA4 | | | | | | Yes | | | | None |
| 84 | MP GAMM... | | | | | | Yes | | | | None |
| 85 | MP GAMM... | | | | | | Yes | | | | None |
| 86 | MP GAMM... | | | | | | Yes | | | | None |
| 87 | MP GAMM... | | | | | | Yes | | | | None |
| 88 | PLATE1 | | | | | | Yes | | | | None |
| 89 | PLATE2 | | | | | | Yes | | | | None |
| 90 | PLATE3 | | | | | | Yes | | | | None |
| 91 | RAIL1 | | | | | | Yes | | | | None |
| 92 | RAIL2 | | | | | | Yes | | | | None |
| 93 | RAIL3 | | | | | | Yes | | | | None |
| 94 | RUNG1 | | | | | | Yes | | | | None |
| 95 | RUNG2 | | | | | | Yes | | | | None |
| 96 | RUNG3 | | | | | | Yes | | | | None |
| 97 | RUNG4 | | | | | | Yes | | | | None |
| 98 | RUNG5 | | | | | | Yes | | | | None |
| 99 | RUNG6 | | | | | | Yes | | | | None |
| 100 | RUNG7 | | | | | | Yes | | | | None |
| 101 | SP1 | | | | | | Yes | | | | None |
| 102 | SP2 | | | | | | Yes | | | | None |
| 103 | SP3 | | | | | | Yes | | | | None |
| 104 | SUPPORT1 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 105 | SUPPORT2 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 106 | VERT1 | | | | | | Yes | | | | None |
| 107 | VERT2 | | | | | | Yes | | | | None |
| 108 | VERT3 | | | | | | Yes | | | | None |
| 109 | VERT4 | | | | | | Yes | | | | None |
| 110 | VERT5 | | | | | | Yes | | | | None |
| 111 | VERT6 | | | | | | Yes | | | | None |
| 112 | VERT7 | | | | | | Yes | | | | None |
| 113 | VERT8 | | | | | | Yes | | | | None |
| 114 | VERT9 | | | | | | Yes | | | | None |
| 115 | VERT10 | | | | | | Yes | | | | None |
| 116 | VERT11 | | | | | | Yes | | | | None |
| 117 | VERT12 | | | | | | Yes | | | | None |

## Hot Rolled Steel Properties

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

## Member Point Loads (BLC 1 : Live Load)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | FACE1B | Z | -.5 | 0 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.09 | 5.958 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 2 | MP ALPHA1 | Y | -.09 | 4.042 |
| 3 | MP BETA1 | Y | -.052 | 5.958 |
| 4 | MP BETA1 | Y | -.052 | 4.042 |
| 5 | MP GAMMA1 | Y | -.052 | 5.958 |
| 6 | MP GAMMA1 | Y | -.052 | 4.042 |
| 7 | MP ALPHA2 | Y | -.322 | 7.917 |
| 8 | MP ALPHA2 | Y | -.322 | 2.083 |
| 9 | MP BETA2 | Y | -.186 | 7.917 |
| 10 | MP BETA2 | Y | -.186 | 2.083 |
| 11 | MP GAMMA2 | Y | -.186 | 7.917 |
| 12 | MP GAMMA2 | Y | -.186 | 2.083 |
| 13 | MP ALPHA3 | Y | -.094 | 6.875 |
| 14 | MP ALPHA3 | Y | -.094 | 3.125 |
| 15 | MP BETA3 | Y | -.056 | 6.875 |
| 16 | MP BETA3 | Y | -.056 | 3.125 |
| 17 | MP GAMMA3 | Y | -.056 | 6.875 |
| 18 | MP GAMMA3 | Y | -.056 | 3.125 |
| 19 | MP ALPHA2 | Y | -.091 | 5 |
| 20 | MP BETA2 | Y | -.056 | 5 |
| 21 | MP GAMMA2 | Y | -.056 | 5 |
| 22 | MP ALPHA3 | Y | -.082 | 5 |
| 23 | MP BETA3 | Y | -.068 | 5 |
| 24 | MP GAMMA3 | Y | -.068 | 5 |

## Member Point Loads (BLC 3 : Dead Load)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Z | -.052 | 5.958 |
| 2 | MP ALPHA1 | Z | -.052 | 4.042 |
| 3 | MP BETA1 | Z | -.052 | 5.958 |
| 4 | MP BETA1 | Z | -.052 | 4.042 |
| 5 | MP GAMMA1 | Z | -.052 | 5.958 |
| 6 | MP GAMMA1 | Z | -.052 | 4.042 |
| 7 | MP ALPHA2 | Z | -.077 | 7.917 |
| 8 | MP ALPHA2 | Z | -.077 | 2.083 |
| 9 | MP BETA2 | Z | -.077 | 7.917 |
| 10 | MP BETA2 | Z | -.077 | 2.083 |
| 11 | MP GAMMA2 | Z | -.077 | 7.917 |
| 12 | MP GAMMA2 | Z | -.077 | 2.083 |
| 13 | MP ALPHA3 | Z | -.012 | 6.875 |
| 14 | MP ALPHA3 | Z | -.012 | 3.125 |
| 15 | MP BETA3 | Z | -.012 | 6.875 |
| 16 | MP BETA3 | Z | -.012 | 3.125 |
| 17 | MP GAMMA3 | Z | -.012 | 6.875 |
| 18 | MP GAMMA3 | Z | -.012 | 3.125 |
| 19 | MP ALPHA2 | Z | -.084 | 5 |
| 20 | MP BETA2 | Z | -.084 | 5 |
| 21 | MP GAMMA2 | Z | -.084 | 5 |
| 22 | MP ALPHA3 | Z | -.109 | 5 |
| 23 | MP BETA3 | Z | -.109 | 5 |
| 24 | MP GAMMA3 | Z | -.109 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.067 | 5.958 |
| 2 | MP ALPHA1 | Y | -.067 | 4.042 |
| 3 | MP ALPHA1 | X | -.039 | 5.958 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 4 | MP ALPHA1 | X | -.039 | 4.042 |
| 5 | MP BETA1 | Y | -.034 | 5.958 |
| 6 | MP BETA1 | Y | -.034 | 4.042 |
| 7 | MP BETA1 | X | -.02 | 5.958 |
| 8 | MP BETA1 | X | -.02 | 4.042 |
| 9 | MP GAMMA1 | Y | -.067 | 5.958 |
| 10 | MP GAMMA1 | Y | -.067 | 4.042 |
| 11 | MP GAMMA1 | X | -.039 | 5.958 |
| 12 | MP GAMMA1 | X | -.039 | 4.042 |
| 13 | MP ALPHA2 | Y | -.24 | 7.917 |
| 14 | MP ALPHA2 | Y | -.24 | 2.083 |
| 15 | MP ALPHA2 | X | -.138 | 7.917 |
| 16 | MP ALPHA2 | X | -.138 | 2.083 |
| 17 | MP BETA2 | Y | -.122 | 7.917 |
| 18 | MP BETA2 | Y | -.122 | 2.083 |
| 19 | MP BETA2 | X | -.071 | 7.917 |
| 20 | MP BETA2 | X | -.071 | 2.083 |
| 21 | MP GAMMA2 | Y | -.24 | 7.917 |
| 22 | MP GAMMA2 | Y | -.24 | 2.083 |
| 23 | MP GAMMA2 | X | -.138 | 7.917 |
| 24 | MP GAMMA2 | X | -.138 | 2.083 |
| 25 | MP ALPHA3 | Y | -.07 | 6.875 |
| 26 | MP ALPHA3 | Y | -.07 | 3.125 |
| 27 | MP ALPHA3 | X | -.041 | 6.875 |
| 28 | MP ALPHA3 | X | -.041 | 3.125 |
| 29 | MP BETA3 | Y | -.038 | 6.875 |
| 30 | MP BETA3 | Y | -.038 | 3.125 |
| 31 | MP BETA3 | X | -.022 | 6.875 |
| 32 | MP BETA3 | X | -.022 | 3.125 |
| 33 | MP GAMMA3 | Y | -.07 | 6.875 |
| 34 | MP GAMMA3 | Y | -.07 | 3.125 |
| 35 | MP GAMMA3 | X | -.041 | 6.875 |
| 36 | MP GAMMA3 | X | -.041 | 3.125 |
| 37 | MP ALPHA2 | Y | -.068 | 5 |
| 38 | MP ALPHA2 | X | -.04 | 5 |
| 39 | MP BETA2 | Y | -.038 | 5 |
| 40 | MP BETA2 | X | -.022 | 5 |
| 41 | MP GAMMA2 | Y | -.068 | 5 |
| 42 | MP GAMMA2 | X | -.04 | 5 |
| 43 | MP ALPHA3 | Y | -.067 | 5 |
| 44 | MP ALPHA3 | X | -.038 | 5 |
| 45 | MP BETA3 | Y | -.054 | 5 |
| 46 | MP BETA3 | X | -.031 | 5 |
| 47 | MP GAMMA3 | Y | -.067 | 5 |
| 48 | MP GAMMA3 | X | -.038 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.026 | 5.958 |
| 2 | MP ALPHA1 | Y | -.026 | 4.042 |
| 3 | MP ALPHA1 | X | -.045 | 5.958 |
| 4 | MP ALPHA1 | X | -.045 | 4.042 |
| 5 | MP BETA1 | Y | -.026 | 5.958 |
| 6 | MP BETA1 | Y | -.026 | 4.042 |
| 7 | MP BETA1 | X | -.045 | 5.958 |
| 8 | MP BETA1 | X | -.045 | 4.042 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 9 | MP GAMMA1 | Y | -.045 | 5.958 |
| 10 | MP GAMMA1 | Y | -.045 | 4.042 |
| 11 | MP GAMMA1 | X | -.078 | 5.958 |
| 12 | MP GAMMA1 | X | -.078 | 4.042 |
| 13 | MP ALPHA2 | Y | -.093 | 7.917 |
| 14 | MP ALPHA2 | Y | -.093 | 2.083 |
| 15 | MP ALPHA2 | X | -.161 | 7.917 |
| 16 | MP ALPHA2 | X | -.161 | 2.083 |
| 17 | MP BETA2 | Y | -.093 | 7.917 |
| 18 | MP BETA2 | Y | -.093 | 2.083 |
| 19 | MP BETA2 | X | -.161 | 7.917 |
| 20 | MP BETA2 | X | -.161 | 2.083 |
| 21 | MP GAMMA2 | Y | -.161 | 7.917 |
| 22 | MP GAMMA2 | Y | -.161 | 2.083 |
| 23 | MP GAMMA2 | X | -.279 | 7.917 |
| 24 | MP GAMMA2 | X | -.279 | 2.083 |
| 25 | MP ALPHA3 | Y | -.028 | 6.875 |
| 26 | MP ALPHA3 | Y | -.028 | 3.125 |
| 27 | MP ALPHA3 | X | -.048 | 6.875 |
| 28 | MP ALPHA3 | X | -.048 | 3.125 |
| 29 | MP BETA3 | Y | -.028 | 6.875 |
| 30 | MP BETA3 | Y | -.028 | 3.125 |
| 31 | MP BETA3 | X | -.048 | 6.875 |
| 32 | MP BETA3 | X | -.048 | 3.125 |
| 33 | MP GAMMA3 | Y | -.047 | 6.875 |
| 34 | MP GAMMA3 | Y | -.047 | 3.125 |
| 35 | MP GAMMA3 | X | -.081 | 6.875 |
| 36 | MP GAMMA3 | X | -.081 | 3.125 |
| 37 | MP ALPHA2 | Y | -.028 | 5 |
| 38 | MP ALPHA2 | X | -.048 | 5 |
| 39 | MP BETA2 | Y | -.028 | 5 |
| 40 | MP BETA2 | X | -.048 | 5 |
| 41 | MP GAMMA2 | Y | -.045 | 5 |
| 42 | MP GAMMA2 | X | -.079 | 5 |
| 43 | MP ALPHA3 | Y | -.034 | 5 |
| 44 | MP ALPHA3 | X | -.058 | 5 |
| 45 | MP BETA3 | Y | -.034 | 5 |
| 46 | MP BETA3 | X | -.058 | 5 |
| 47 | MP GAMMA3 | Y | -.041 | 5 |
| 48 | MP GAMMA3 | X | -.071 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | -.04 | 5.958 |
| 2 | MP ALPHA1 | X | -.04 | 4.042 |
| 3 | MP BETA1 | X | -.078 | 5.958 |
| 4 | MP BETA1 | X | -.078 | 4.042 |
| 5 | MP GAMMA1 | X | -.078 | 5.958 |
| 6 | MP GAMMA1 | X | -.078 | 4.042 |
| 7 | MP ALPHA2 | X | -.141 | 7.917 |
| 8 | MP ALPHA2 | X | -.141 | 2.083 |
| 9 | MP BETA2 | X | -.277 | 7.917 |
| 10 | MP BETA2 | X | -.277 | 2.083 |
| 11 | MP GAMMA2 | X | -.277 | 7.917 |
| 12 | MP GAMMA2 | X | -.277 | 2.083 |
| 13 | MP ALPHA3 | X | -.043 | 6.875 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 14 | MP ALPHA3 | X | -.043 | 3.125 |
| 15 | MP BETA3 | X | -.081 | 6.875 |
| 16 | MP BETA3 | X | -.081 | 3.125 |
| 17 | MP GAMMA3 | X | -.081 | 6.875 |
| 18 | MP GAMMA3 | X | -.081 | 3.125 |
| 19 | MP ALPHA2 | X | -.044 | 5 |
| 20 | MP BETA2 | X | -.079 | 5 |
| 21 | MP GAMMA2 | X | -.079 | 5 |
| 22 | MP ALPHA3 | X | -.063 | 5 |
| 23 | MP BETA3 | X | -.077 | 5 |
| 24 | MP GAMMA3 | X | -.077 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .026 | 5.958 |
| 2 | MP ALPHA1 | Y | .026 | 4.042 |
| 3 | MP ALPHA1 | X | -.045 | 5.958 |
| 4 | MP ALPHA1 | X | -.045 | 4.042 |
| 5 | MP BETA1 | Y | .045 | 5.958 |
| 6 | MP BETA1 | Y | .045 | 4.042 |
| 7 | MP BETA1 | X | -.078 | 5.958 |
| 8 | MP BETA1 | X | -.078 | 4.042 |
| 9 | MP GAMMA1 | Y | .026 | 5.958 |
| 10 | MP GAMMA1 | Y | .026 | 4.042 |
| 11 | MP GAMMA1 | X | -.045 | 5.958 |
| 12 | MP GAMMA1 | X | -.045 | 4.042 |
| 13 | MP ALPHA2 | Y | .093 | 7.917 |
| 14 | MP ALPHA2 | Y | .093 | 2.083 |
| 15 | MP ALPHA2 | X | -.161 | 7.917 |
| 16 | MP ALPHA2 | X | -.161 | 2.083 |
| 17 | MP BETA2 | Y | .161 | 7.917 |
| 18 | MP BETA2 | Y | .161 | 2.083 |
| 19 | MP BETA2 | X | -.279 | 7.917 |
| 20 | MP BETA2 | X | -.279 | 2.083 |
| 21 | MP GAMMA2 | Y | .093 | 7.917 |
| 22 | MP GAMMA2 | Y | .093 | 2.083 |
| 23 | MP GAMMA2 | X | -.161 | 7.917 |
| 24 | MP GAMMA2 | X | -.161 | 2.083 |
| 25 | MP ALPHA3 | Y | .028 | 6.875 |
| 26 | MP ALPHA3 | Y | .028 | 3.125 |
| 27 | MP ALPHA3 | X | -.048 | 6.875 |
| 28 | MP ALPHA3 | X | -.048 | 3.125 |
| 29 | MP BETA3 | Y | .047 | 6.875 |
| 30 | MP BETA3 | Y | .047 | 3.125 |
| 31 | MP BETA3 | X | -.081 | 6.875 |
| 32 | MP BETA3 | X | -.081 | 3.125 |
| 33 | MP GAMMA3 | Y | .028 | 6.875 |
| 34 | MP GAMMA3 | Y | .028 | 3.125 |
| 35 | MP GAMMA3 | X | -.048 | 6.875 |
| 36 | MP GAMMA3 | X | -.048 | 3.125 |
| 37 | MP ALPHA2 | Y | .028 | 5 |
| 38 | MP ALPHA2 | X | -.048 | 5 |
| 39 | MP BETA2 | Y | .045 | 5 |
| 40 | MP BETA2 | X | -.079 | 5 |
| 41 | MP GAMMA2 | Y | .028 | 5 |
| 42 | MP GAMMA2 | X | -.048 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 43 | MP ALPHA3 | Y | .034 | 5 |
| 44 | MP ALPHA3 | X | -.058 | 5 |
| 45 | MP BETA3 | Y | .041 | 5 |
| 46 | MP BETA3 | X | -.071 | 5 |
| 47 | MP GAMMA3 | Y | .034 | 5 |
| 48 | MP GAMMA3 | X | -.058 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .067 | 5.958 |
| 2 | MP ALPHA1 | Y | .067 | 4.042 |
| 3 | MP ALPHA1 | X | -.039 | 5.958 |
| 4 | MP ALPHA1 | X | -.039 | 4.042 |
| 5 | MP BETA1 | Y | .067 | 5.958 |
| 6 | MP BETA1 | Y | .067 | 4.042 |
| 7 | MP BETA1 | X | -.039 | 5.958 |
| 8 | MP BETA1 | X | -.039 | 4.042 |
| 9 | MP GAMMA1 | Y | .034 | 5.958 |
| 10 | MP GAMMA1 | Y | .034 | 4.042 |
| 11 | MP GAMMA1 | X | -.02 | 5.958 |
| 12 | MP GAMMA1 | X | -.02 | 4.042 |
| 13 | MP ALPHA2 | Y | .24 | 7.917 |
| 14 | MP ALPHA2 | Y | .24 | 2.083 |
| 15 | MP ALPHA2 | X | -.138 | 7.917 |
| 16 | MP ALPHA2 | X | -.138 | 2.083 |
| 17 | MP BETA2 | Y | .24 | 7.917 |
| 18 | MP BETA2 | Y | .24 | 2.083 |
| 19 | MP BETA2 | X | -.138 | 7.917 |
| 20 | MP BETA2 | X | -.138 | 2.083 |
| 21 | MP GAMMA2 | Y | .122 | 7.917 |
| 22 | MP GAMMA2 | Y | .122 | 2.083 |
| 23 | MP GAMMA2 | X | -.071 | 7.917 |
| 24 | MP GAMMA2 | X | -.071 | 2.083 |
| 25 | MP ALPHA3 | Y | .07 | 6.875 |
| 26 | MP ALPHA3 | Y | .07 | 3.125 |
| 27 | MP ALPHA3 | X | -.041 | 6.875 |
| 28 | MP ALPHA3 | X | -.041 | 3.125 |
| 29 | MP BETA3 | Y | .07 | 6.875 |
| 30 | MP BETA3 | Y | .07 | 3.125 |
| 31 | MP BETA3 | X | -.041 | 6.875 |
| 32 | MP BETA3 | X | -.041 | 3.125 |
| 33 | MP GAMMA3 | Y | .038 | 6.875 |
| 34 | MP GAMMA3 | Y | .038 | 3.125 |
| 35 | MP GAMMA3 | X | -.022 | 6.875 |
| 36 | MP GAMMA3 | X | -.022 | 3.125 |
| 37 | MP ALPHA2 | Y | .068 | 5 |
| 38 | MP ALPHA2 | X | -.04 | 5 |
| 39 | MP BETA2 | Y | .068 | 5 |
| 40 | MP BETA2 | X | -.04 | 5 |
| 41 | MP GAMMA2 | Y | .038 | 5 |
| 42 | MP GAMMA2 | X | -.022 | 5 |
| 43 | MP ALPHA3 | Y | .067 | 5 |
| 44 | MP ALPHA3 | X | -.038 | 5 |
| 45 | MP BETA3 | Y | .067 | 5 |
| 46 | MP BETA3 | X | -.038 | 5 |
| 47 | MP GAMMA3 | Y | .054 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 48 | MP GAMMA3 | X | -.031 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .09 | 5.958 |
| 2 | MP ALPHA1 | Y | .09 | 4.042 |
| 3 | MP BETA1 | Y | .052 | 5.958 |
| 4 | MP BETA1 | Y | .052 | 4.042 |
| 5 | MP GAMMA1 | Y | .052 | 5.958 |
| 6 | MP GAMMA1 | Y | .052 | 4.042 |
| 7 | MP ALPHA2 | Y | .322 | 7.917 |
| 8 | MP ALPHA2 | Y | .322 | 2.083 |
| 9 | MP BETA2 | Y | .186 | 7.917 |
| 10 | MP BETA2 | Y | .186 | 2.083 |
| 11 | MP GAMMA2 | Y | .186 | 7.917 |
| 12 | MP GAMMA2 | Y | .186 | 2.083 |
| 13 | MP ALPHA3 | Y | .094 | 6.875 |
| 14 | MP ALPHA3 | Y | .094 | 3.125 |
| 15 | MP BETA3 | Y | .056 | 6.875 |
| 16 | MP BETA3 | Y | .056 | 3.125 |
| 17 | MP GAMMA3 | Y | .056 | 6.875 |
| 18 | MP GAMMA3 | Y | .056 | 3.125 |
| 19 | MP ALPHA2 | Y | .091 | 5 |
| 20 | MP BETA2 | Y | .056 | 5 |
| 21 | MP GAMMA2 | Y | .056 | 5 |
| 22 | MP ALPHA3 | Y | .082 | 5 |
| 23 | MP BETA3 | Y | .068 | 5 |
| 24 | MP GAMMA3 | Y | .068 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .067 | 5.958 |
| 2 | MP ALPHA1 | Y | .067 | 4.042 |
| 3 | MP ALPHA1 | X | .039 | 5.958 |
| 4 | MP ALPHA1 | X | .039 | 4.042 |
| 5 | MP BETA1 | Y | .034 | 5.958 |
| 6 | MP BETA1 | Y | .034 | 4.042 |
| 7 | MP BETA1 | X | .02 | 5.958 |
| 8 | MP BETA1 | X | .02 | 4.042 |
| 9 | MP GAMMA1 | Y | .067 | 5.958 |
| 10 | MP GAMMA1 | Y | .067 | 4.042 |
| 11 | MP GAMMA1 | X | .039 | 5.958 |
| 12 | MP GAMMA1 | X | .039 | 4.042 |
| 13 | MP ALPHA2 | Y | .24 | 7.917 |
| 14 | MP ALPHA2 | Y | .24 | 2.083 |
| 15 | MP ALPHA2 | X | .138 | 7.917 |
| 16 | MP ALPHA2 | X | .138 | 2.083 |
| 17 | MP BETA2 | Y | .122 | 7.917 |
| 18 | MP BETA2 | Y | .122 | 2.083 |
| 19 | MP BETA2 | X | .071 | 7.917 |
| 20 | MP BETA2 | X | .071 | 2.083 |
| 21 | MP GAMMA2 | Y | .24 | 7.917 |
| 22 | MP GAMMA2 | Y | .24 | 2.083 |
| 23 | MP GAMMA2 | X | .138 | 7.917 |
| 24 | MP GAMMA2 | X | .138 | 2.083 |
| 25 | MP ALPHA3 | Y | .07 | 6.875 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 26 | MP ALPHA3 | Y | .07 | 3.125 |
| 27 | MP ALPHA3 | X | .041 | 6.875 |
| 28 | MP ALPHA3 | X | .041 | 3.125 |
| 29 | MP BETA3 | Y | .038 | 6.875 |
| 30 | MP BETA3 | Y | .038 | 3.125 |
| 31 | MP BETA3 | X | .022 | 6.875 |
| 32 | MP BETA3 | X | .022 | 3.125 |
| 33 | MP GAMMA3 | Y | .07 | 6.875 |
| 34 | MP GAMMA3 | Y | .07 | 3.125 |
| 35 | MP GAMMA3 | X | .041 | 6.875 |
| 36 | MP GAMMA3 | X | .041 | 3.125 |
| 37 | MP ALPHA2 | Y | .068 | 5 |
| 38 | MP ALPHA2 | X | .04 | 5 |
| 39 | MP BETA2 | Y | .038 | 5 |
| 40 | MP BETA2 | X | .022 | 5 |
| 41 | MP GAMMA2 | Y | .068 | 5 |
| 42 | MP GAMMA2 | X | .04 | 5 |
| 43 | MP ALPHA3 | Y | .067 | 5 |
| 44 | MP ALPHA3 | X | .038 | 5 |
| 45 | MP BETA3 | Y | .054 | 5 |
| 46 | MP BETA3 | X | .031 | 5 |
| 47 | MP GAMMA3 | Y | .067 | 5 |
| 48 | MP GAMMA3 | X | .038 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .026 | 5.958 |
| 2 | MP ALPHA1 | Y | .026 | 4.042 |
| 3 | MP ALPHA1 | X | .045 | 5.958 |
| 4 | MP ALPHA1 | X | .045 | 4.042 |
| 5 | MP BETA1 | Y | .026 | 5.958 |
| 6 | MP BETA1 | Y | .026 | 4.042 |
| 7 | MP BETA1 | X | .045 | 5.958 |
| 8 | MP BETA1 | X | .045 | 4.042 |
| 9 | MP GAMMA1 | Y | .045 | 5.958 |
| 10 | MP GAMMA1 | Y | .045 | 4.042 |
| 11 | MP GAMMA1 | X | .078 | 5.958 |
| 12 | MP GAMMA1 | X | .078 | 4.042 |
| 13 | MP ALPHA2 | Y | .093 | 7.917 |
| 14 | MP ALPHA2 | Y | .093 | 2.083 |
| 15 | MP ALPHA2 | X | .161 | 7.917 |
| 16 | MP ALPHA2 | X | .161 | 2.083 |
| 17 | MP BETA2 | Y | .093 | 7.917 |
| 18 | MP BETA2 | Y | .093 | 2.083 |
| 19 | MP BETA2 | X | .161 | 7.917 |
| 20 | MP BETA2 | X | .161 | 2.083 |
| 21 | MP GAMMA2 | Y | .161 | 7.917 |
| 22 | MP GAMMA2 | Y | .161 | 2.083 |
| 23 | MP GAMMA2 | X | .279 | 7.917 |
| 24 | MP GAMMA2 | X | .279 | 2.083 |
| 25 | MP ALPHA3 | Y | .028 | 6.875 |
| 26 | MP ALPHA3 | Y | .028 | 3.125 |
| 27 | MP ALPHA3 | X | .048 | 6.875 |
| 28 | MP ALPHA3 | X | .048 | 3.125 |
| 29 | MP BETA3 | Y | .028 | 6.875 |
| 30 | MP BETA3 | Y | .028 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 31 | MP BETA3 | X | .048 | 6.875 |
| 32 | MP BETA3 | X | .048 | 3.125 |
| 33 | MP GAMMA3 | Y | .047 | 6.875 |
| 34 | MP GAMMA3 | Y | .047 | 3.125 |
| 35 | MP GAMMA3 | X | .081 | 6.875 |
| 36 | MP GAMMA3 | X | .081 | 3.125 |
| 37 | MP ALPHA2 | Y | .028 | 5 |
| 38 | MP ALPHA2 | X | .048 | 5 |
| 39 | MP BETA2 | Y | .028 | 5 |
| 40 | MP BETA2 | X | .048 | 5 |
| 41 | MP GAMMA2 | Y | .045 | 5 |
| 42 | MP GAMMA2 | X | .079 | 5 |
| 43 | MP ALPHA3 | Y | .034 | 5 |
| 44 | MP ALPHA3 | X | .058 | 5 |
| 45 | MP BETA3 | Y | .034 | 5 |
| 46 | MP BETA3 | X | .058 | 5 |
| 47 | MP GAMMA3 | Y | .041 | 5 |
| 48 | MP GAMMA3 | X | .071 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | .04 | 5.958 |
| 2 | MP ALPHA1 | X | .04 | 4.042 |
| 3 | MP BETA1 | X | .078 | 5.958 |
| 4 | MP BETA1 | X | .078 | 4.042 |
| 5 | MP GAMMA1 | X | .078 | 5.958 |
| 6 | MP GAMMA1 | X | .078 | 4.042 |
| 7 | MP ALPHA2 | X | .141 | 7.917 |
| 8 | MP ALPHA2 | X | .141 | 2.083 |
| 9 | MP BETA2 | X | .277 | 7.917 |
| 10 | MP BETA2 | X | .277 | 2.083 |
| 11 | MP GAMMA2 | X | .277 | 7.917 |
| 12 | MP GAMMA2 | X | .277 | 2.083 |
| 13 | MP ALPHA3 | X | .043 | 6.875 |
| 14 | MP ALPHA3 | X | .043 | 3.125 |
| 15 | MP BETA3 | X | .081 | 6.875 |
| 16 | MP BETA3 | X | .081 | 3.125 |
| 17 | MP GAMMA3 | X | .081 | 6.875 |
| 18 | MP GAMMA3 | X | .081 | 3.125 |
| 19 | MP ALPHA2 | X | .044 | 5 |
| 20 | MP BETA2 | X | .079 | 5 |
| 21 | MP GAMMA2 | X | .079 | 5 |
| 22 | MP ALPHA3 | X | .063 | 5 |
| 23 | MP BETA3 | X | .077 | 5 |
| 24 | MP GAMMA3 | X | .077 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.026 | 5.958 |
| 2 | MP ALPHA1 | Y | -.026 | 4.042 |
| 3 | MP ALPHA1 | X | .045 | 5.958 |
| 4 | MP ALPHA1 | X | .045 | 4.042 |
| 5 | MP BETA1 | Y | -.045 | 5.958 |
| 6 | MP BETA1 | Y | -.045 | 4.042 |
| 7 | MP BETA1 | X | .078 | 5.958 |
| 8 | MP BETA1 | X | .078 | 4.042 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 9 | MP GAMMA1 | Y | -.026 | 5.958 |
| 10 | MP GAMMA1 | Y | -.026 | 4.042 |
| 11 | MP GAMMA1 | X | .045 | 5.958 |
| 12 | MP GAMMA1 | X | .045 | 4.042 |
| 13 | MP ALPHA2 | Y | -.093 | 7.917 |
| 14 | MP ALPHA2 | Y | -.093 | 2.083 |
| 15 | MP ALPHA2 | X | .161 | 7.917 |
| 16 | MP ALPHA2 | X | .161 | 2.083 |
| 17 | MP BETA2 | Y | -.161 | 7.917 |
| 18 | MP BETA2 | Y | -.161 | 2.083 |
| 19 | MP BETA2 | X | .279 | 7.917 |
| 20 | MP BETA2 | X | .279 | 2.083 |
| 21 | MP GAMMA2 | Y | -.093 | 7.917 |
| 22 | MP GAMMA2 | Y | -.093 | 2.083 |
| 23 | MP GAMMA2 | X | .161 | 7.917 |
| 24 | MP GAMMA2 | X | .161 | 2.083 |
| 25 | MP ALPHA3 | Y | -.028 | 6.875 |
| 26 | MP ALPHA3 | Y | -.028 | 3.125 |
| 27 | MP ALPHA3 | X | .048 | 6.875 |
| 28 | MP ALPHA3 | X | .048 | 3.125 |
| 29 | MP BETA3 | Y | -.047 | 6.875 |
| 30 | MP BETA3 | Y | -.047 | 3.125 |
| 31 | MP BETA3 | X | .081 | 6.875 |
| 32 | MP BETA3 | X | .081 | 3.125 |
| 33 | MP GAMMA3 | Y | -.028 | 6.875 |
| 34 | MP GAMMA3 | Y | -.028 | 3.125 |
| 35 | MP GAMMA3 | X | .048 | 6.875 |
| 36 | MP GAMMA3 | X | .048 | 3.125 |
| 37 | MP ALPHA2 | Y | -.028 | 5 |
| 38 | MP ALPHA2 | X | .048 | 5 |
| 39 | MP BETA2 | Y | -.045 | 5 |
| 40 | MP BETA2 | X | .079 | 5 |
| 41 | MP GAMMA2 | Y | -.028 | 5 |
| 42 | MP GAMMA2 | X | .048 | 5 |
| 43 | MP ALPHA3 | Y | -.034 | 5 |
| 44 | MP ALPHA3 | X | .058 | 5 |
| 45 | MP BETA3 | Y | -.041 | 5 |
| 46 | MP BETA3 | X | .071 | 5 |
| 47 | MP GAMMA3 | Y | -.034 | 5 |
| 48 | MP GAMMA3 | X | .058 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.067 | 5.958 |
| 2 | MP ALPHA1 | Y | -.067 | 4.042 |
| 3 | MP ALPHA1 | X | .039 | 5.958 |
| 4 | MP ALPHA1 | X | .039 | 4.042 |
| 5 | MP BETA1 | Y | -.067 | 5.958 |
| 6 | MP BETA1 | Y | -.067 | 4.042 |
| 7 | MP BETA1 | X | .039 | 5.958 |
| 8 | MP BETA1 | X | .039 | 4.042 |
| 9 | MP GAMMA1 | Y | -.034 | 5.958 |
| 10 | MP GAMMA1 | Y | -.034 | 4.042 |
| 11 | MP GAMMA1 | X | .02 | 5.958 |
| 12 | MP GAMMA1 | X | .02 | 4.042 |
| 13 | MP ALPHA2 | Y | -.24 | 7.917 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 14 | MP ALPHA2 | Y | -.24 | 2.083 |
| 15 | MP ALPHA2 | X | .138 | 7.917 |
| 16 | MP ALPHA2 | X | .138 | 2.083 |
| 17 | MP BETA2 | Y | -.24 | 7.917 |
| 18 | MP BETA2 | Y | -.24 | 2.083 |
| 19 | MP BETA2 | X | .138 | 7.917 |
| 20 | MP BETA2 | X | .138 | 2.083 |
| 21 | MP GAMMA2 | Y | -.122 | 7.917 |
| 22 | MP GAMMA2 | Y | -.122 | 2.083 |
| 23 | MP GAMMA2 | X | .071 | 7.917 |
| 24 | MP GAMMA2 | X | .071 | 2.083 |
| 25 | MP ALPHA3 | Y | -.07 | 6.875 |
| 26 | MP ALPHA3 | Y | -.07 | 3.125 |
| 27 | MP ALPHA3 | X | .041 | 6.875 |
| 28 | MP ALPHA3 | X | .041 | 3.125 |
| 29 | MP BETA3 | Y | -.07 | 6.875 |
| 30 | MP BETA3 | Y | -.07 | 3.125 |
| 31 | MP BETA3 | X | .041 | 6.875 |
| 32 | MP BETA3 | X | .041 | 3.125 |
| 33 | MP GAMMA3 | Y | -.038 | 6.875 |
| 34 | MP GAMMA3 | Y | -.038 | 3.125 |
| 35 | MP GAMMA3 | X | .022 | 6.875 |
| 36 | MP GAMMA3 | X | .022 | 3.125 |
| 37 | MP ALPHA2 | Y | -.068 | 5 |
| 38 | MP ALPHA2 | X | .04 | 5 |
| 39 | MP BETA2 | Y | -.068 | 5 |
| 40 | MP BETA2 | X | .04 | 5 |
| 41 | MP GAMMA2 | Y | -.038 | 5 |
| 42 | MP GAMMA2 | X | .022 | 5 |
| 43 | MP ALPHA3 | Y | -.067 | 5 |
| 44 | MP ALPHA3 | X | .038 | 5 |
| 45 | MP BETA3 | Y | -.067 | 5 |
| 46 | MP BETA3 | X | .038 | 5 |
| 47 | MP GAMMA3 | Y | -.054 | 5 |
| 48 | MP GAMMA3 | X | .031 | 5 |

## Member Point Loads (BLC 15 : Maintanence (0))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.006 | 5.958 |
| 2 | MP ALPHA1 | Y | -.006 | 4.042 |
| 3 | MP BETA1 | Y | -.003 | 5.958 |
| 4 | MP BETA1 | Y | -.003 | 4.042 |
| 5 | MP GAMMA1 | Y | -.003 | 5.958 |
| 6 | MP GAMMA1 | Y | -.003 | 4.042 |
| 7 | MP ALPHA2 | Y | -.021 | 7.917 |
| 8 | MP ALPHA2 | Y | -.021 | 2.083 |
| 9 | MP BETA2 | Y | -.012 | 7.917 |
| 10 | MP BETA2 | Y | -.012 | 2.083 |
| 11 | MP GAMMA2 | Y | -.012 | 7.917 |
| 12 | MP GAMMA2 | Y | -.012 | 2.083 |
| 13 | MP ALPHA3 | Y | -.006 | 6.875 |
| 14 | MP ALPHA3 | Y | -.006 | 3.125 |
| 15 | MP BETA3 | Y | -.004 | 6.875 |
| 16 | MP BETA3 | Y | -.004 | 3.125 |
| 17 | MP GAMMA3 | Y | -.004 | 6.875 |
| 18 | MP GAMMA3 | Y | -.004 | 3.125 |

## Member Point Loads (BLC 15 : Maintanence (0)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 19 | MP ALPHA2 | Y | -.006 | 5 |
| 20 | MP BETA2 | Y | -.004 | 5 |
| 21 | MP GAMMA2 | Y | -.004 | 5 |
| 22 | MP ALPHA3 | Y | -.005 | 5 |
| 23 | MP BETA3 | Y | -.004 | 5 |
| 24 | MP GAMMA3 | Y | -.004 | 5 |

## Member Point Loads (BLC 16 : Maintanence (30))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.004 | 5.958 |
| 2 | MP ALPHA1 | Y | -.004 | 4.042 |
| 3 | MP ALPHA1 | X | -.003 | 5.958 |
| 4 | MP ALPHA1 | X | -.003 | 4.042 |
| 5 | MP BETA1 | Y | -.002 | 5.958 |
| 6 | MP BETA1 | Y | -.002 | 4.042 |
| 7 | MP BETA1 | X | -.001 | 5.958 |
| 8 | MP BETA1 | X | -.001 | 4.042 |
| 9 | MP GAMMA1 | Y | -.004 | 5.958 |
| 10 | MP GAMMA1 | Y | -.004 | 4.042 |
| 11 | MP GAMMA1 | X | -.003 | 5.958 |
| 12 | MP GAMMA1 | X | -.003 | 4.042 |
| 13 | MP ALPHA2 | Y | -.015 | 7.917 |
| 14 | MP ALPHA2 | Y | -.015 | 2.083 |
| 15 | MP ALPHA2 | X | -.009 | 7.917 |
| 16 | MP ALPHA2 | X | -.009 | 2.083 |
| 17 | MP BETA2 | Y | -.008 | 7.917 |
| 18 | MP BETA2 | Y | -.008 | 2.083 |
| 19 | MP BETA2 | X | -.005 | 7.917 |
| 20 | MP BETA2 | X | -.005 | 2.083 |
| 21 | MP GAMMA2 | Y | -.015 | 7.917 |
| 22 | MP GAMMA2 | Y | -.015 | 2.083 |
| 23 | MP GAMMA2 | X | -.009 | 7.917 |
| 24 | MP GAMMA2 | X | -.009 | 2.083 |
| 25 | MP ALPHA3 | Y | -.005 | 6.875 |
| 26 | MP ALPHA3 | Y | -.005 | 3.125 |
| 27 | MP ALPHA3 | X | -.003 | 6.875 |
| 28 | MP ALPHA3 | X | -.003 | 3.125 |
| 29 | MP BETA3 | Y | -.002 | 6.875 |
| 30 | MP BETA3 | Y | -.002 | 3.125 |
| 31 | MP BETA3 | X | -.001 | 6.875 |
| 32 | MP BETA3 | X | -.001 | 3.125 |
| 33 | MP GAMMA3 | Y | -.005 | 6.875 |
| 34 | MP GAMMA3 | Y | -.005 | 3.125 |
| 35 | MP GAMMA3 | X | -.003 | 6.875 |
| 36 | MP GAMMA3 | X | -.003 | 3.125 |
| 37 | MP ALPHA2 | Y | -.004 | 5 |
| 38 | MP ALPHA2 | X | -.003 | 5 |
| 39 | MP BETA2 | Y | -.002 | 5 |
| 40 | MP BETA2 | X | -.001 | 5 |
| 41 | MP GAMMA2 | Y | -.004 | 5 |
| 42 | MP GAMMA2 | X | -.003 | 5 |
| 43 | MP ALPHA3 | Y | -.004 | 5 |
| 44 | MP ALPHA3 | X | -.002 | 5 |
| 45 | MP BETA3 | Y | -.004 | 5 |
| 46 | MP BETA3 | X | -.002 | 5 |
| 47 | MP GAMMA3 | Y | -.004 | 5 |

## Member Point Loads (BLC 16 : Maintanence (30)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 48 | MP GAMMA3 | X | -.002 | 5 |

## Member Point Loads (BLC 17 : Maintanence (60))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.002 | 5.958 |
| 2 | MP ALPHA1 | Y | -.002 | 4.042 |
| 3 | MP ALPHA1 | X | -.003 | 5.958 |
| 4 | MP ALPHA1 | X | -.003 | 4.042 |
| 5 | MP BETA1 | Y | -.002 | 5.958 |
| 6 | MP BETA1 | Y | -.002 | 4.042 |
| 7 | MP BETA1 | X | -.003 | 5.958 |
| 8 | MP BETA1 | X | -.003 | 4.042 |
| 9 | MP GAMMA1 | Y | -.003 | 5.958 |
| 10 | MP GAMMA1 | Y | -.003 | 4.042 |
| 11 | MP GAMMA1 | X | -.005 | 5.958 |
| 12 | MP GAMMA1 | X | -.005 | 4.042 |
| 13 | MP ALPHA2 | Y | -.006 | 7.917 |
| 14 | MP ALPHA2 | Y | -.006 | 2.083 |
| 15 | MP ALPHA2 | X | -.01 | 7.917 |
| 16 | MP ALPHA2 | X | -.01 | 2.083 |
| 17 | MP BETA2 | Y | -.006 | 7.917 |
| 18 | MP BETA2 | Y | -.006 | 2.083 |
| 19 | MP BETA2 | X | -.01 | 7.917 |
| 20 | MP BETA2 | X | -.01 | 2.083 |
| 21 | MP GAMMA2 | Y | -.01 | 7.917 |
| 22 | MP GAMMA2 | Y | -.01 | 2.083 |
| 23 | MP GAMMA2 | X | -.018 | 7.917 |
| 24 | MP GAMMA2 | X | -.018 | 2.083 |
| 25 | MP ALPHA3 | Y | -.002 | 6.875 |
| 26 | MP ALPHA3 | Y | -.002 | 3.125 |
| 27 | MP ALPHA3 | X | -.003 | 6.875 |
| 28 | MP ALPHA3 | X | -.003 | 3.125 |
| 29 | MP BETA3 | Y | -.002 | 6.875 |
| 30 | MP BETA3 | Y | -.002 | 3.125 |
| 31 | MP BETA3 | X | -.003 | 6.875 |
| 32 | MP BETA3 | X | -.003 | 3.125 |
| 33 | MP GAMMA3 | Y | -.003 | 6.875 |
| 34 | MP GAMMA3 | Y | -.003 | 3.125 |
| 35 | MP GAMMA3 | X | -.005 | 6.875 |
| 36 | MP GAMMA3 | X | -.005 | 3.125 |
| 37 | MP ALPHA2 | Y | -.002 | 5 |
| 38 | MP ALPHA2 | X | -.003 | 5 |
| 39 | MP BETA2 | Y | -.002 | 5 |
| 40 | MP BETA2 | X | -.003 | 5 |
| 41 | MP GAMMA2 | Y | -.003 | 5 |
| 42 | MP GAMMA2 | X | -.005 | 5 |
| 43 | MP ALPHA3 | Y | -.002 | 5 |
| 44 | MP ALPHA3 | X | -.004 | 5 |
| 45 | MP BETA3 | Y | -.002 | 5 |
| 46 | MP BETA3 | X | -.004 | 5 |
| 47 | MP GAMMA3 | Y | -.003 | 5 |
| 48 | MP GAMMA3 | X | -.005 | 5 |

## Member Point Loads (BLC 18 : Maintanence (90))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | -.003 | 5.958 |

## Member Point Loads (BLC 18 : Maintanence (90)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 2 | MP ALPHA1 | X | -.003 | 4.042 |
| 3 | MP BETA1 | X | -.005 | 5.958 |
| 4 | MP BETA1 | X | -.005 | 4.042 |
| 5 | MP GAMMA1 | X | -.005 | 5.958 |
| 6 | MP GAMMA1 | X | -.005 | 4.042 |
| 7 | MP ALPHA2 | X | -.009 | 7.917 |
| 8 | MP ALPHA2 | X | -.009 | 2.083 |
| 9 | MP BETA2 | X | -.018 | 7.917 |
| 10 | MP BETA2 | X | -.018 | 2.083 |
| 11 | MP GAMMA2 | X | -.018 | 7.917 |
| 12 | MP GAMMA2 | X | -.018 | 2.083 |
| 13 | MP ALPHA3 | X | -.003 | 6.875 |
| 14 | MP ALPHA3 | X | -.003 | 3.125 |
| 15 | MP BETA3 | X | -.005 | 6.875 |
| 16 | MP BETA3 | X | -.005 | 3.125 |
| 17 | MP GAMMA3 | X | -.005 | 6.875 |
| 18 | MP GAMMA3 | X | -.005 | 3.125 |
| 19 | MP ALPHA2 | X | -.003 | 5 |
| 20 | MP BETA2 | X | -.005 | 5 |
| 21 | MP GAMMA2 | X | -.005 | 5 |
| 22 | MP ALPHA3 | X | -.004 | 5 |
| 23 | MP BETA3 | X | -.005 | 5 |
| 24 | MP GAMMA3 | X | -.005 | 5 |

## Member Point Loads (BLC 19 : Maintanence (120))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .002 | 5.958 |
| 2 | MP ALPHA1 | Y | .002 | 4.042 |
| 3 | MP ALPHA1 | X | -.003 | 5.958 |
| 4 | MP ALPHA1 | X | -.003 | 4.042 |
| 5 | MP BETA1 | Y | .003 | 5.958 |
| 6 | MP BETA1 | Y | .003 | 4.042 |
| 7 | MP BETA1 | X | -.005 | 5.958 |
| 8 | MP BETA1 | X | -.005 | 4.042 |
| 9 | MP GAMMA1 | Y | .002 | 5.958 |
| 10 | MP GAMMA1 | Y | .002 | 4.042 |
| 11 | MP GAMMA1 | X | -.003 | 5.958 |
| 12 | MP GAMMA1 | X | -.003 | 4.042 |
| 13 | MP ALPHA2 | Y | .006 | 7.917 |
| 14 | MP ALPHA2 | Y | .006 | 2.083 |
| 15 | MP ALPHA2 | X | -.01 | 7.917 |
| 16 | MP ALPHA2 | X | -.01 | 2.083 |
| 17 | MP BETA2 | Y | .01 | 7.917 |
| 18 | MP BETA2 | Y | .01 | 2.083 |
| 19 | MP BETA2 | X | -.018 | 7.917 |
| 20 | MP BETA2 | X | -.018 | 2.083 |
| 21 | MP GAMMA2 | Y | .006 | 7.917 |
| 22 | MP GAMMA2 | Y | .006 | 2.083 |
| 23 | MP GAMMA2 | X | -.01 | 7.917 |
| 24 | MP GAMMA2 | X | -.01 | 2.083 |
| 25 | MP ALPHA3 | Y | .002 | 6.875 |
| 26 | MP ALPHA3 | Y | .002 | 3.125 |
| 27 | MP ALPHA3 | X | -.003 | 6.875 |
| 28 | MP ALPHA3 | X | -.003 | 3.125 |
| 29 | MP BETA3 | Y | .003 | 6.875 |
| 30 | MP BETA3 | Y | .003 | 3.125 |

## Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 31 | MP BETA3 | X | -.005 | 6.875 |
| 32 | MP BETA3 | X | -.005 | 3.125 |
| 33 | MP GAMMA3 | Y | .002 | 6.875 |
| 34 | MP GAMMA3 | Y | .002 | 3.125 |
| 35 | MP GAMMA3 | X | -.003 | 6.875 |
| 36 | MP GAMMA3 | X | -.003 | 3.125 |
| 37 | MP ALPHA2 | Y | .002 | 5 |
| 38 | MP ALPHA2 | X | -.003 | 5 |
| 39 | MP BETA2 | Y | .003 | 5 |
| 40 | MP BETA2 | X | -.005 | 5 |
| 41 | MP GAMMA2 | Y | .002 | 5 |
| 42 | MP GAMMA2 | X | -.003 | 5 |
| 43 | MP ALPHA3 | Y | .002 | 5 |
| 44 | MP ALPHA3 | X | -.004 | 5 |
| 45 | MP BETA3 | Y | .003 | 5 |
| 46 | MP BETA3 | X | -.005 | 5 |
| 47 | MP GAMMA3 | Y | .002 | 5 |
| 48 | MP GAMMA3 | X | -.004 | 5 |

## Member Point Loads (BLC 20 : Maintanence (150))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .004 | 5.958 |
| 2 | MP ALPHA1 | Y | .004 | 4.042 |
| 3 | MP ALPHA1 | X | -.003 | 5.958 |
| 4 | MP ALPHA1 | X | -.003 | 4.042 |
| 5 | MP BETA1 | Y | .004 | 5.958 |
| 6 | MP BETA1 | Y | .004 | 4.042 |
| 7 | MP BETA1 | X | -.003 | 5.958 |
| 8 | MP BETA1 | X | -.003 | 4.042 |
| 9 | MP GAMMA1 | Y | .002 | 5.958 |
| 10 | MP GAMMA1 | Y | .002 | 4.042 |
| 11 | MP GAMMA1 | X | -.001 | 5.958 |
| 12 | MP GAMMA1 | X | -.001 | 4.042 |
| 13 | MP ALPHA2 | Y | .015 | 7.917 |
| 14 | MP ALPHA2 | Y | .015 | 2.083 |
| 15 | MP ALPHA2 | X | -.009 | 7.917 |
| 16 | MP ALPHA2 | X | -.009 | 2.083 |
| 17 | MP BETA2 | Y | .015 | 7.917 |
| 18 | MP BETA2 | Y | .015 | 2.083 |
| 19 | MP BETA2 | X | -.009 | 7.917 |
| 20 | MP BETA2 | X | -.009 | 2.083 |
| 21 | MP GAMMA2 | Y | .008 | 7.917 |
| 22 | MP GAMMA2 | Y | .008 | 2.083 |
| 23 | MP GAMMA2 | X | -.005 | 7.917 |
| 24 | MP GAMMA2 | X | -.005 | 2.083 |
| 25 | MP ALPHA3 | Y | .005 | 6.875 |
| 26 | MP ALPHA3 | Y | .005 | 3.125 |
| 27 | MP ALPHA3 | X | -.003 | 6.875 |
| 28 | MP ALPHA3 | X | -.003 | 3.125 |
| 29 | MP BETA3 | Y | .005 | 6.875 |
| 30 | MP BETA3 | Y | .005 | 3.125 |
| 31 | MP BETA3 | X | -.003 | 6.875 |
| 32 | MP BETA3 | X | -.003 | 3.125 |
| 33 | MP GAMMA3 | Y | .002 | 6.875 |
| 34 | MP GAMMA3 | Y | .002 | 3.125 |
| 35 | MP GAMMA3 | X | -.001 | 6.875 |

## Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 36 | MP GAMMA3 | X | -.001 | 3.125 |
| 37 | MP ALPHA2 | Y | .004 | 5 |
| 38 | MP ALPHA2 | X | -.003 | 5 |
| 39 | MP BETA2 | Y | .004 | 5 |
| 40 | MP BETA2 | X | -.003 | 5 |
| 41 | MP GAMMA2 | Y | .002 | 5 |
| 42 | MP GAMMA2 | X | -.001 | 5 |
| 43 | MP ALPHA3 | Y | .004 | 5 |
| 44 | MP ALPHA3 | X | -.002 | 5 |
| 45 | MP BETA3 | Y | .004 | 5 |
| 46 | MP BETA3 | X | -.002 | 5 |
| 47 | MP GAMMA3 | Y | .004 | 5 |
| 48 | MP GAMMA3 | X | -.002 | 5 |

## Member Point Loads (BLC 21 : Maintanence (180))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .006 | 5.958 |
| 2 | MP ALPHA1 | Y | .006 | 4.042 |
| 3 | MP BETA1 | Y | .003 | 5.958 |
| 4 | MP BETA1 | Y | .003 | 4.042 |
| 5 | MP GAMMA1 | Y | .003 | 5.958 |
| 6 | MP GAMMA1 | Y | .003 | 4.042 |
| 7 | MP ALPHA2 | Y | .021 | 7.917 |
| 8 | MP ALPHA2 | Y | .021 | 2.083 |
| 9 | MP BETA2 | Y | .012 | 7.917 |
| 10 | MP BETA2 | Y | .012 | 2.083 |
| 11 | MP GAMMA2 | Y | .012 | 7.917 |
| 12 | MP GAMMA2 | Y | .012 | 2.083 |
| 13 | MP ALPHA3 | Y | .006 | 6.875 |
| 14 | MP ALPHA3 | Y | .006 | 3.125 |
| 15 | MP BETA3 | Y | .004 | 6.875 |
| 16 | MP BETA3 | Y | .004 | 3.125 |
| 17 | MP GAMMA3 | Y | .004 | 6.875 |
| 18 | MP GAMMA3 | Y | .004 | 3.125 |
| 19 | MP ALPHA2 | Y | .006 | 5 |
| 20 | MP BETA2 | Y | .004 | 5 |
| 21 | MP GAMMA2 | Y | .004 | 5 |
| 22 | MP ALPHA3 | Y | .005 | 5 |
| 23 | MP BETA3 | Y | .004 | 5 |
| 24 | MP GAMMA3 | Y | .004 | 5 |

## Member Point Loads (BLC 22 : Maintanence (210))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .004 | 5.958 |
| 2 | MP ALPHA1 | Y | .004 | 4.042 |
| 3 | MP ALPHA1 | X | .003 | 5.958 |
| 4 | MP ALPHA1 | X | .003 | 4.042 |
| 5 | MP BETA1 | Y | .002 | 5.958 |
| 6 | MP BETA1 | Y | .002 | 4.042 |
| 7 | MP BETA1 | X | .001 | 5.958 |
| 8 | MP BETA1 | X | .001 | 4.042 |
| 9 | MP GAMMA1 | Y | .004 | 5.958 |
| 10 | MP GAMMA1 | Y | .004 | 4.042 |
| 11 | MP GAMMA1 | X | .003 | 5.958 |
| 12 | MP GAMMA1 | X | .003 | 4.042 |
| 13 | MP ALPHA2 | Y | .015 | 7.917 |

## Member Point Loads (BLC 22 : Maintanence (210)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 14 | MP ALPHA2 | Y | .015 | 2.083 |
| 15 | MP ALPHA2 | X | .009 | 7.917 |
| 16 | MP ALPHA2 | X | .009 | 2.083 |
| 17 | MP BETA2 | Y | .008 | 7.917 |
| 18 | MP BETA2 | Y | .008 | 2.083 |
| 19 | MP BETA2 | X | .005 | 7.917 |
| 20 | MP BETA2 | X | .005 | 2.083 |
| 21 | MP GAMMA2 | Y | .015 | 7.917 |
| 22 | MP GAMMA2 | Y | .015 | 2.083 |
| 23 | MP GAMMA2 | X | .009 | 7.917 |
| 24 | MP GAMMA2 | X | .009 | 2.083 |
| 25 | MP ALPHA3 | Y | .005 | 6.875 |
| 26 | MP ALPHA3 | Y | .005 | 3.125 |
| 27 | MP ALPHA3 | X | .003 | 6.875 |
| 28 | MP ALPHA3 | X | .003 | 3.125 |
| 29 | MP BETA3 | Y | .002 | 6.875 |
| 30 | MP BETA3 | Y | .002 | 3.125 |
| 31 | MP BETA3 | X | .001 | 6.875 |
| 32 | MP BETA3 | X | .001 | 3.125 |
| 33 | MP GAMMA3 | Y | .005 | 6.875 |
| 34 | MP GAMMA3 | Y | .005 | 3.125 |
| 35 | MP GAMMA3 | X | .003 | 6.875 |
| 36 | MP GAMMA3 | X | .003 | 3.125 |
| 37 | MP ALPHA2 | Y | .004 | 5 |
| 38 | MP ALPHA2 | X | .003 | 5 |
| 39 | MP BETA2 | Y | .002 | 5 |
| 40 | MP BETA2 | X | .001 | 5 |
| 41 | MP GAMMA2 | Y | .004 | 5 |
| 42 | MP GAMMA2 | X | .003 | 5 |
| 43 | MP ALPHA3 | Y | .004 | 5 |
| 44 | MP ALPHA3 | X | .002 | 5 |
| 45 | MP BETA3 | Y | .004 | 5 |
| 46 | MP BETA3 | X | .002 | 5 |
| 47 | MP GAMMA3 | Y | .004 | 5 |
| 48 | MP GAMMA3 | X | .002 | 5 |

## Member Point Loads (BLC 23 : Maintanence (240))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .002 | 5.958 |
| 2 | MP ALPHA1 | Y | .002 | 4.042 |
| 3 | MP ALPHA1 | X | .003 | 5.958 |
| 4 | MP ALPHA1 | X | .003 | 4.042 |
| 5 | MP BETA1 | Y | .002 | 5.958 |
| 6 | MP BETA1 | Y | .002 | 4.042 |
| 7 | MP BETA1 | X | .003 | 5.958 |
| 8 | MP BETA1 | X | .003 | 4.042 |
| 9 | MP GAMMA1 | Y | .003 | 5.958 |
| 10 | MP GAMMA1 | Y | .003 | 4.042 |
| 11 | MP GAMMA1 | X | .005 | 5.958 |
| 12 | MP GAMMA1 | X | .005 | 4.042 |
| 13 | MP ALPHA2 | Y | .006 | 7.917 |
| 14 | MP ALPHA2 | Y | .006 | 2.083 |
| 15 | MP ALPHA2 | X | .01 | 7.917 |
| 16 | MP ALPHA2 | X | .01 | 2.083 |
| 17 | MP BETA2 | Y | .006 | 7.917 |
| 18 | MP BETA2 | Y | .006 | 2.083 |

## Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 19 | MP BETA2 | X | .01 | 7.917 |
| 20 | MP BETA2 | X | .01 | 2.083 |
| 21 | MP GAMMA2 | Y | .01 | 7.917 |
| 22 | MP GAMMA2 | Y | .01 | 2.083 |
| 23 | MP GAMMA2 | X | .018 | 7.917 |
| 24 | MP GAMMA2 | X | .018 | 2.083 |
| 25 | MP ALPHA3 | Y | .002 | 6.875 |
| 26 | MP ALPHA3 | Y | .002 | 3.125 |
| 27 | MP ALPHA3 | X | .003 | 6.875 |
| 28 | MP ALPHA3 | X | .003 | 3.125 |
| 29 | MP BETA3 | Y | .002 | 6.875 |
| 30 | MP BETA3 | Y | .002 | 3.125 |
| 31 | MP BETA3 | X | .003 | 6.875 |
| 32 | MP BETA3 | X | .003 | 3.125 |
| 33 | MP GAMMA3 | Y | .003 | 6.875 |
| 34 | MP GAMMA3 | Y | .003 | 3.125 |
| 35 | MP GAMMA3 | X | .005 | 6.875 |
| 36 | MP GAMMA3 | X | .005 | 3.125 |
| 37 | MP ALPHA2 | Y | .002 | 5 |
| 38 | MP ALPHA2 | X | .003 | 5 |
| 39 | MP BETA2 | Y | .002 | 5 |
| 40 | MP BETA2 | X | .003 | 5 |
| 41 | MP GAMMA2 | Y | .003 | 5 |
| 42 | MP GAMMA2 | X | .005 | 5 |
| 43 | MP ALPHA3 | Y | .002 | 5 |
| 44 | MP ALPHA3 | X | .004 | 5 |
| 45 | MP BETA3 | Y | .002 | 5 |
| 46 | MP BETA3 | X | .004 | 5 |
| 47 | MP GAMMA3 | Y | .003 | 5 |
| 48 | MP GAMMA3 | X | .005 | 5 |

## Member Point Loads (BLC 24 : Maintanence (270))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | .003 | 5.958 |
| 2 | MP ALPHA1 | X | .003 | 4.042 |
| 3 | MP BETA1 | X | .005 | 5.958 |
| 4 | MP BETA1 | X | .005 | 4.042 |
| 5 | MP GAMMA1 | X | .005 | 5.958 |
| 6 | MP GAMMA1 | X | .005 | 4.042 |
| 7 | MP ALPHA2 | X | .009 | 7.917 |
| 8 | MP ALPHA2 | X | .009 | 2.083 |
| 9 | MP BETA2 | X | .018 | 7.917 |
| 10 | MP BETA2 | X | .018 | 2.083 |
| 11 | MP GAMMA2 | X | .018 | 7.917 |
| 12 | MP GAMMA2 | X | .018 | 2.083 |
| 13 | MP ALPHA3 | X | .003 | 6.875 |
| 14 | MP ALPHA3 | X | .003 | 3.125 |
| 15 | MP BETA3 | X | .005 | 6.875 |
| 16 | MP BETA3 | X | .005 | 3.125 |
| 17 | MP GAMMA3 | X | .005 | 6.875 |
| 18 | MP GAMMA3 | X | .005 | 3.125 |
| 19 | MP ALPHA2 | X | .003 | 5 |
| 20 | MP BETA2 | X | .005 | 5 |
| 21 | MP GAMMA2 | X | .005 | 5 |
| 22 | MP ALPHA3 | X | .004 | 5 |
| 23 | MP BETA3 | X | .005 | 5 |

## Member Point Loads (BLC 24 : Maintanence (270)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 24 | MP GAMMA3 | X | .005 | 5 |

## Member Point Loads (BLC 25 : Maintanence (300))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.002 | 5.958 |
| 2 | MP ALPHA1 | Y | -.002 | 4.042 |
| 3 | MP ALPHA1 | X | .003 | 5.958 |
| 4 | MP ALPHA1 | X | .003 | 4.042 |
| 5 | MP BETA1 | Y | -.003 | 5.958 |
| 6 | MP BETA1 | Y | -.003 | 4.042 |
| 7 | MP BETA1 | X | .005 | 5.958 |
| 8 | MP BETA1 | X | .005 | 4.042 |
| 9 | MP GAMMA1 | Y | -.002 | 5.958 |
| 10 | MP GAMMA1 | Y | -.002 | 4.042 |
| 11 | MP GAMMA1 | X | .003 | 5.958 |
| 12 | MP GAMMA1 | X | .003 | 4.042 |
| 13 | MP ALPHA2 | Y | -.006 | 7.917 |
| 14 | MP ALPHA2 | Y | -.006 | 2.083 |
| 15 | MP ALPHA2 | X | .01 | 7.917 |
| 16 | MP ALPHA2 | X | .01 | 2.083 |
| 17 | MP BETA2 | Y | -.01 | 7.917 |
| 18 | MP BETA2 | Y | -.01 | 2.083 |
| 19 | MP BETA2 | X | .018 | 7.917 |
| 20 | MP BETA2 | X | .018 | 2.083 |
| 21 | MP GAMMA2 | Y | -.006 | 7.917 |
| 22 | MP GAMMA2 | Y | -.006 | 2.083 |
| 23 | MP GAMMA2 | X | .01 | 7.917 |
| 24 | MP GAMMA2 | X | .01 | 2.083 |
| 25 | MP ALPHA3 | Y | -.002 | 6.875 |
| 26 | MP ALPHA3 | Y | -.002 | 3.125 |
| 27 | MP ALPHA3 | X | .003 | 6.875 |
| 28 | MP ALPHA3 | X | .003 | 3.125 |
| 29 | MP BETA3 | Y | -.003 | 6.875 |
| 30 | MP BETA3 | Y | -.003 | 3.125 |
| 31 | MP BETA3 | X | .005 | 6.875 |
| 32 | MP BETA3 | X | .005 | 3.125 |
| 33 | MP GAMMA3 | Y | -.002 | 6.875 |
| 34 | MP GAMMA3 | Y | -.002 | 3.125 |
| 35 | MP GAMMA3 | X | .003 | 6.875 |
| 36 | MP GAMMA3 | X | .003 | 3.125 |
| 37 | MP ALPHA2 | Y | -.002 | 5 |
| 38 | MP ALPHA2 | X | .003 | 5 |
| 39 | MP BETA2 | Y | -.003 | 5 |
| 40 | MP BETA2 | X | .005 | 5 |
| 41 | MP GAMMA2 | Y | -.002 | 5 |
| 42 | MP GAMMA2 | X | .003 | 5 |
| 43 | MP ALPHA3 | Y | -.002 | 5 |
| 44 | MP ALPHA3 | X | .004 | 5 |
| 45 | MP BETA3 | Y | -.003 | 5 |
| 46 | MP BETA3 | X | .005 | 5 |
| 47 | MP GAMMA3 | Y | -.002 | 5 |
| 48 | MP GAMMA3 | X | .004 | 5 |

## Member Point Loads (BLC 26 : Maintanence (330))

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.004 | 5.958 |

## Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 2 | MP ALPHA1 | Y | -.004 | 4.042 |
| 3 | MP ALPHA1 | X | .003 | 5.958 |
| 4 | MP ALPHA1 | X | .003 | 4.042 |
| 5 | MP BETA1 | Y | -.004 | 5.958 |
| 6 | MP BETA1 | Y | -.004 | 4.042 |
| 7 | MP BETA1 | X | .003 | 5.958 |
| 8 | MP BETA1 | X | .003 | 4.042 |
| 9 | MP GAMMA1 | Y | -.002 | 5.958 |
| 10 | MP GAMMA1 | Y | -.002 | 4.042 |
| 11 | MP GAMMA1 | X | .001 | 5.958 |
| 12 | MP GAMMA1 | X | .001 | 4.042 |
| 13 | MP ALPHA2 | Y | -.015 | 7.917 |
| 14 | MP ALPHA2 | Y | -.015 | 2.083 |
| 15 | MP ALPHA2 | X | .009 | 7.917 |
| 16 | MP ALPHA2 | X | .009 | 2.083 |
| 17 | MP BETA2 | Y | -.015 | 7.917 |
| 18 | MP BETA2 | Y | -.015 | 2.083 |
| 19 | MP BETA2 | X | .009 | 7.917 |
| 20 | MP BETA2 | X | .009 | 2.083 |
| 21 | MP GAMMA2 | Y | -.008 | 7.917 |
| 22 | MP GAMMA2 | Y | -.008 | 2.083 |
| 23 | MP GAMMA2 | X | .005 | 7.917 |
| 24 | MP GAMMA2 | X | .005 | 2.083 |
| 25 | MP ALPHA3 | Y | -.005 | 6.875 |
| 26 | MP ALPHA3 | Y | -.005 | 3.125 |
| 27 | MP ALPHA3 | X | .003 | 6.875 |
| 28 | MP ALPHA3 | X | .003 | 3.125 |
| 29 | MP BETA3 | Y | -.005 | 6.875 |
| 30 | MP BETA3 | Y | -.005 | 3.125 |
| 31 | MP BETA3 | X | .003 | 6.875 |
| 32 | MP BETA3 | X | .003 | 3.125 |
| 33 | MP GAMMA3 | Y | -.002 | 6.875 |
| 34 | MP GAMMA3 | Y | -.002 | 3.125 |
| 35 | MP GAMMA3 | X | .001 | 6.875 |
| 36 | MP GAMMA3 | X | .001 | 3.125 |
| 37 | MP ALPHA2 | Y | -.004 | 5 |
| 38 | MP ALPHA2 | X | .003 | 5 |
| 39 | MP BETA2 | Y | -.004 | 5 |
| 40 | MP BETA2 | X | .003 | 5 |
| 41 | MP GAMMA2 | Y | -.002 | 5 |
| 42 | MP GAMMA2 | X | .001 | 5 |
| 43 | MP ALPHA3 | Y | -.004 | 5 |
| 44 | MP ALPHA3 | X | .002 | 5 |
| 45 | MP BETA3 | Y | -.004 | 5 |
| 46 | MP BETA3 | X | .002 | 5 |
| 47 | MP GAMMA3 | Y | -.004 | 5 |
| 48 | MP GAMMA3 | X | .002 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Z | -.077 | 5.958 |
| 2 | MP ALPHA1 | Z | -.077 | 4.042 |
| 3 | MP BETA1 | Z | -.077 | 5.958 |
| 4 | MP BETA1 | Z | -.077 | 4.042 |
| 5 | MP GAMMA1 | Z | -.077 | 5.958 |
| 6 | MP GAMMA1 | Z | -.077 | 4.042 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 7 | MP ALPHA2 | Z | -.212 | 7.917 |
| 8 | MP ALPHA2 | Z | -.212 | 2.083 |
| 9 | MP BETA2 | Z | -.212 | 7.917 |
| 10 | MP BETA2 | Z | -.212 | 2.083 |
| 11 | MP GAMMA2 | Z | -.212 | 7.917 |
| 12 | MP GAMMA2 | Z | -.212 | 2.083 |
| 13 | MP ALPHA3 | Z | -.068 | 6.875 |
| 14 | MP ALPHA3 | Z | -.068 | 3.125 |
| 15 | MP BETA3 | Z | -.068 | 6.875 |
| 16 | MP BETA3 | Z | -.068 | 3.125 |
| 17 | MP GAMMA3 | Z | -.068 | 6.875 |
| 18 | MP GAMMA3 | Z | -.068 | 3.125 |
| 19 | MP ALPHA2 | Z | -.088 | 5 |
| 20 | MP BETA2 | Z | -.088 | 5 |
| 21 | MP GAMMA2 | Z | -.088 | 5 |
| 22 | MP ALPHA3 | Z | -.102 | 5 |
| 23 | MP BETA3 | Z | -.102 | 5 |
| 24 | MP GAMMA3 | Z | -.102 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.021 | 5.958 |
| 2 | MP ALPHA1 | Y | -.021 | 4.042 |
| 3 | MP BETA1 | Y | -.013 | 5.958 |
| 4 | MP BETA1 | Y | -.013 | 4.042 |
| 5 | MP GAMMA1 | Y | -.013 | 5.958 |
| 6 | MP GAMMA1 | Y | -.013 | 4.042 |
| 7 | MP ALPHA2 | Y | -.068 | 7.917 |
| 8 | MP ALPHA2 | Y | -.068 | 2.083 |
| 9 | MP BETA2 | Y | -.043 | 7.917 |
| 10 | MP BETA2 | Y | -.043 | 2.083 |
| 11 | MP GAMMA2 | Y | -.043 | 7.917 |
| 12 | MP GAMMA2 | Y | -.043 | 2.083 |
| 13 | MP ALPHA3 | Y | -.022 | 6.875 |
| 14 | MP ALPHA3 | Y | -.022 | 3.125 |
| 15 | MP BETA3 | Y | -.015 | 6.875 |
| 16 | MP BETA3 | Y | -.015 | 3.125 |
| 17 | MP GAMMA3 | Y | -.015 | 6.875 |
| 18 | MP GAMMA3 | Y | -.015 | 3.125 |
| 19 | MP ALPHA2 | Y | -.023 | 5 |
| 20 | MP BETA2 | Y | -.016 | 5 |
| 21 | MP GAMMA2 | Y | -.016 | 5 |
| 22 | MP ALPHA3 | Y | -.021 | 5 |
| 23 | MP BETA3 | Y | -.018 | 5 |
| 24 | MP GAMMA3 | Y | -.018 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.016 | 5.958 |
| 2 | MP ALPHA1 | Y | -.016 | 4.042 |
| 3 | MP ALPHA1 | X | -.009 | 5.958 |
| 4 | MP ALPHA1 | X | -.009 | 4.042 |
| 5 | MP BETA1 | Y | -.009 | 5.958 |
| 6 | MP BETA1 | Y | -.009 | 4.042 |
| 7 | MP BETA1 | X | -.005 | 5.958 |
| 8 | MP BETA1 | X | -.005 | 4.042 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 9 | MP GAMMA1 | Y | -.016 | 5.958 |
| 10 | MP GAMMA1 | Y | -.016 | 4.042 |
| 11 | MP GAMMA1 | X | -.009 | 5.958 |
| 12 | MP GAMMA1 | X | -.009 | 4.042 |
| 13 | MP ALPHA2 | Y | -.051 | 7.917 |
| 14 | MP ALPHA2 | Y | -.051 | 2.083 |
| 15 | MP ALPHA2 | X | -.03 | 7.917 |
| 16 | MP ALPHA2 | X | -.03 | 2.083 |
| 17 | MP BETA2 | Y | -.03 | 7.917 |
| 18 | MP BETA2 | Y | -.03 | 2.083 |
| 19 | MP BETA2 | X | -.017 | 7.917 |
| 20 | MP BETA2 | X | -.017 | 2.083 |
| 21 | MP GAMMA2 | Y | -.051 | 7.917 |
| 22 | MP GAMMA2 | Y | -.051 | 2.083 |
| 23 | MP GAMMA2 | X | -.03 | 7.917 |
| 24 | MP GAMMA2 | X | -.03 | 2.083 |
| 25 | MP ALPHA3 | Y | -.017 | 6.875 |
| 26 | MP ALPHA3 | Y | -.017 | 3.125 |
| 27 | MP ALPHA3 | X | -.01 | 6.875 |
| 28 | MP ALPHA3 | X | -.01 | 3.125 |
| 29 | MP BETA3 | Y | -.011 | 6.875 |
| 30 | MP BETA3 | Y | -.011 | 3.125 |
| 31 | MP BETA3 | X | -.007 | 6.875 |
| 32 | MP BETA3 | X | -.007 | 3.125 |
| 33 | MP GAMMA3 | Y | -.017 | 6.875 |
| 34 | MP GAMMA3 | Y | -.017 | 3.125 |
| 35 | MP GAMMA3 | X | -.01 | 6.875 |
| 36 | MP GAMMA3 | X | -.01 | 3.125 |
| 37 | MP ALPHA2 | Y | -.018 | 5 |
| 38 | MP ALPHA2 | X | -.01 | 5 |
| 39 | MP BETA2 | Y | -.011 | 5 |
| 40 | MP BETA2 | X | -.007 | 5 |
| 41 | MP GAMMA2 | Y | -.018 | 5 |
| 42 | MP GAMMA2 | X | -.01 | 5 |
| 43 | MP ALPHA3 | Y | -.017 | 5 |
| 44 | MP ALPHA3 | X | -.01 | 5 |
| 45 | MP BETA3 | Y | -.015 | 5 |
| 46 | MP BETA3 | X | -.009 | 5 |
| 47 | MP GAMMA3 | Y | -.017 | 5 |
| 48 | MP GAMMA3 | X | -.01 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.007 | 5.958 |
| 2 | MP ALPHA1 | Y | -.007 | 4.042 |
| 3 | MP ALPHA1 | X | -.011 | 5.958 |
| 4 | MP ALPHA1 | X | -.011 | 4.042 |
| 5 | MP BETA1 | Y | -.007 | 5.958 |
| 6 | MP BETA1 | Y | -.007 | 4.042 |
| 7 | MP BETA1 | X | -.011 | 5.958 |
| 8 | MP BETA1 | X | -.011 | 4.042 |
| 9 | MP GAMMA1 | Y | -.01 | 5.958 |
| 10 | MP GAMMA1 | Y | -.01 | 4.042 |
| 11 | MP GAMMA1 | X | -.018 | 5.958 |
| 12 | MP GAMMA1 | X | -.018 | 4.042 |
| 13 | MP ALPHA2 | Y | -.021 | 7.917 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 14 | MP ALPHA2 | Y | -.021 | 2.083 |
| 15 | MP ALPHA2 | X | -.037 | 7.917 |
| 16 | MP ALPHA2 | X | -.037 | 2.083 |
| 17 | MP BETA2 | Y | -.021 | 7.917 |
| 18 | MP BETA2 | Y | -.021 | 2.083 |
| 19 | MP BETA2 | X | -.037 | 7.917 |
| 20 | MP BETA2 | X | -.037 | 2.083 |
| 21 | MP GAMMA2 | Y | -.034 | 7.917 |
| 22 | MP GAMMA2 | Y | -.034 | 2.083 |
| 23 | MP GAMMA2 | X | -.059 | 7.917 |
| 24 | MP GAMMA2 | X | -.059 | 2.083 |
| 25 | MP ALPHA3 | Y | -.008 | 6.875 |
| 26 | MP ALPHA3 | Y | -.008 | 3.125 |
| 27 | MP ALPHA3 | X | -.013 | 6.875 |
| 28 | MP ALPHA3 | X | -.013 | 3.125 |
| 29 | MP BETA3 | Y | -.008 | 6.875 |
| 30 | MP BETA3 | Y | -.008 | 3.125 |
| 31 | MP BETA3 | X | -.013 | 6.875 |
| 32 | MP BETA3 | X | -.013 | 3.125 |
| 33 | MP GAMMA3 | Y | -.011 | 6.875 |
| 34 | MP GAMMA3 | Y | -.011 | 3.125 |
| 35 | MP GAMMA3 | X | -.019 | 6.875 |
| 36 | MP GAMMA3 | X | -.019 | 3.125 |
| 37 | MP ALPHA2 | Y | -.008 | 5 |
| 38 | MP ALPHA2 | X | -.014 | 5 |
| 39 | MP BETA2 | Y | -.008 | 5 |
| 40 | MP BETA2 | X | -.014 | 5 |
| 41 | MP GAMMA2 | Y | -.011 | 5 |
| 42 | MP GAMMA2 | X | -.02 | 5 |
| 43 | MP ALPHA3 | Y | -.009 | 5 |
| 44 | MP ALPHA3 | X | -.016 | 5 |
| 45 | MP BETA3 | Y | -.009 | 5 |
| 46 | MP BETA3 | X | -.016 | 5 |
| 47 | MP GAMMA3 | Y | -.01 | 5 |
| 48 | MP GAMMA3 | X | -.018 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | -.011 | 5.958 |
| 2 | MP ALPHA1 | X | -.011 | 4.042 |
| 3 | MP BETA1 | X | -.018 | 5.958 |
| 4 | MP BETA1 | X | -.018 | 4.042 |
| 5 | MP GAMMA1 | X | -.018 | 5.958 |
| 6 | MP GAMMA1 | X | -.018 | 4.042 |
| 7 | MP ALPHA2 | X | -.034 | 7.917 |
| 8 | MP ALPHA2 | X | -.034 | 2.083 |
| 9 | MP BETA2 | X | -.059 | 7.917 |
| 10 | MP BETA2 | X | -.059 | 2.083 |
| 11 | MP GAMMA2 | X | -.059 | 7.917 |
| 12 | MP GAMMA2 | X | -.059 | 2.083 |
| 13 | MP ALPHA3 | X | -.013 | 6.875 |
| 14 | MP ALPHA3 | X | -.013 | 3.125 |
| 15 | MP BETA3 | X | -.02 | 6.875 |
| 16 | MP BETA3 | X | -.02 | 3.125 |
| 17 | MP GAMMA3 | X | -.02 | 6.875 |
| 18 | MP GAMMA3 | X | -.02 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 19 | MP ALPHA2 | X | -.013 | 5 |
| 20 | MP BETA2 | X | -.021 | 5 |
| 21 | MP GAMMA2 | X | -.021 | 5 |
| 22 | MP ALPHA3 | X | -.017 | 5 |
| 23 | MP BETA3 | X | -.02 | 5 |
| 24 | MP GAMMA3 | X | -.02 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .007 | 5.958 |
| 2 | MP ALPHA1 | Y | .007 | 4.042 |
| 3 | MP ALPHA1 | X | -.011 | 5.958 |
| 4 | MP ALPHA1 | X | -.011 | 4.042 |
| 5 | MP BETA1 | Y | .01 | 5.958 |
| 6 | MP BETA1 | Y | .01 | 4.042 |
| 7 | MP BETA1 | X | -.018 | 5.958 |
| 8 | MP BETA1 | X | -.018 | 4.042 |
| 9 | MP GAMMA1 | Y | .007 | 5.958 |
| 10 | MP GAMMA1 | Y | .007 | 4.042 |
| 11 | MP GAMMA1 | X | -.011 | 5.958 |
| 12 | MP GAMMA1 | X | -.011 | 4.042 |
| 13 | MP ALPHA2 | Y | .021 | 7.917 |
| 14 | MP ALPHA2 | Y | .021 | 2.083 |
| 15 | MP ALPHA2 | X | -.037 | 7.917 |
| 16 | MP ALPHA2 | X | -.037 | 2.083 |
| 17 | MP BETA2 | Y | .034 | 7.917 |
| 18 | MP BETA2 | Y | .034 | 2.083 |
| 19 | MP BETA2 | X | -.059 | 7.917 |
| 20 | MP BETA2 | X | -.059 | 2.083 |
| 21 | MP GAMMA2 | Y | .021 | 7.917 |
| 22 | MP GAMMA2 | Y | .021 | 2.083 |
| 23 | MP GAMMA2 | X | -.037 | 7.917 |
| 24 | MP GAMMA2 | X | -.037 | 2.083 |
| 25 | MP ALPHA3 | Y | .008 | 6.875 |
| 26 | MP ALPHA3 | Y | .008 | 3.125 |
| 27 | MP ALPHA3 | X | -.013 | 6.875 |
| 28 | MP ALPHA3 | X | -.013 | 3.125 |
| 29 | MP BETA3 | Y | .011 | 6.875 |
| 30 | MP BETA3 | Y | .011 | 3.125 |
| 31 | MP BETA3 | X | -.019 | 6.875 |
| 32 | MP BETA3 | X | -.019 | 3.125 |
| 33 | MP GAMMA3 | Y | .008 | 6.875 |
| 34 | MP GAMMA3 | Y | .008 | 3.125 |
| 35 | MP GAMMA3 | X | -.013 | 6.875 |
| 36 | MP GAMMA3 | X | -.013 | 3.125 |
| 37 | MP ALPHA2 | Y | .008 | 5 |
| 38 | MP ALPHA2 | X | -.014 | 5 |
| 39 | MP BETA2 | Y | .011 | 5 |
| 40 | MP BETA2 | X | -.02 | 5 |
| 41 | MP GAMMA2 | Y | .008 | 5 |
| 42 | MP GAMMA2 | X | -.014 | 5 |
| 43 | MP ALPHA3 | Y | .009 | 5 |
| 44 | MP ALPHA3 | X | -.016 | 5 |
| 45 | MP BETA3 | Y | .01 | 5 |
| 46 | MP BETA3 | X | -.018 | 5 |
| 47 | MP GAMMA3 | Y | .009 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 48 | MP GAMMA3 | X | -.016 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .016 | 5.958 |
| 2 | MP ALPHA1 | Y | .016 | 4.042 |
| 3 | MP ALPHA1 | X | -.009 | 5.958 |
| 4 | MP ALPHA1 | X | -.009 | 4.042 |
| 5 | MP BETA1 | Y | .016 | 5.958 |
| 6 | MP BETA1 | Y | .016 | 4.042 |
| 7 | MP BETA1 | X | -.009 | 5.958 |
| 8 | MP BETA1 | X | -.009 | 4.042 |
| 9 | MP GAMMA1 | Y | .009 | 5.958 |
| 10 | MP GAMMA1 | Y | .009 | 4.042 |
| 11 | MP GAMMA1 | X | -.005 | 5.958 |
| 12 | MP GAMMA1 | X | -.005 | 4.042 |
| 13 | MP ALPHA2 | Y | .051 | 7.917 |
| 14 | MP ALPHA2 | Y | .051 | 2.083 |
| 15 | MP ALPHA2 | X | -.03 | 7.917 |
| 16 | MP ALPHA2 | X | -.03 | 2.083 |
| 17 | MP BETA2 | Y | .051 | 7.917 |
| 18 | MP BETA2 | Y | .051 | 2.083 |
| 19 | MP BETA2 | X | -.03 | 7.917 |
| 20 | MP BETA2 | X | -.03 | 2.083 |
| 21 | MP GAMMA2 | Y | .03 | 7.917 |
| 22 | MP GAMMA2 | Y | .03 | 2.083 |
| 23 | MP GAMMA2 | X | -.017 | 7.917 |
| 24 | MP GAMMA2 | X | -.017 | 2.083 |
| 25 | MP ALPHA3 | Y | .017 | 6.875 |
| 26 | MP ALPHA3 | Y | .017 | 3.125 |
| 27 | MP ALPHA3 | X | -.01 | 6.875 |
| 28 | MP ALPHA3 | X | -.01 | 3.125 |
| 29 | MP BETA3 | Y | .017 | 6.875 |
| 30 | MP BETA3 | Y | .017 | 3.125 |
| 31 | MP BETA3 | X | -.01 | 6.875 |
| 32 | MP BETA3 | X | -.01 | 3.125 |
| 33 | MP GAMMA3 | Y | .011 | 6.875 |
| 34 | MP GAMMA3 | Y | .011 | 3.125 |
| 35 | MP GAMMA3 | X | -.007 | 6.875 |
| 36 | MP GAMMA3 | X | -.007 | 3.125 |
| 37 | MP ALPHA2 | Y | .018 | 5 |
| 38 | MP ALPHA2 | X | -.01 | 5 |
| 39 | MP BETA2 | Y | .018 | 5 |
| 40 | MP BETA2 | X | -.01 | 5 |
| 41 | MP GAMMA2 | Y | .011 | 5 |
| 42 | MP GAMMA2 | X | -.007 | 5 |
| 43 | MP ALPHA3 | Y | .017 | 5 |
| 44 | MP ALPHA3 | X | -.01 | 5 |
| 45 | MP BETA3 | Y | .017 | 5 |
| 46 | MP BETA3 | X | -.01 | 5 |
| 47 | MP GAMMA3 | Y | .015 | 5 |
| 48 | MP GAMMA3 | X | -.009 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .021 | 5.958 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 2 | MP ALPHA1 | Y | .021 | 4.042 |
| 3 | MP BETA1 | Y | .013 | 5.958 |
| 4 | MP BETA1 | Y | .013 | 4.042 |
| 5 | MP GAMMA1 | Y | .013 | 5.958 |
| 6 | MP GAMMA1 | Y | .013 | 4.042 |
| 7 | MP ALPHA2 | Y | .068 | 7.917 |
| 8 | MP ALPHA2 | Y | .068 | 2.083 |
| 9 | MP BETA2 | Y | .043 | 7.917 |
| 10 | MP BETA2 | Y | .043 | 2.083 |
| 11 | MP GAMMA2 | Y | .043 | 7.917 |
| 12 | MP GAMMA2 | Y | .043 | 2.083 |
| 13 | MP ALPHA3 | Y | .022 | 6.875 |
| 14 | MP ALPHA3 | Y | .022 | 3.125 |
| 15 | MP BETA3 | Y | .015 | 6.875 |
| 16 | MP BETA3 | Y | .015 | 3.125 |
| 17 | MP GAMMA3 | Y | .015 | 6.875 |
| 18 | MP GAMMA3 | Y | .015 | 3.125 |
| 19 | MP ALPHA2 | Y | .023 | 5 |
| 20 | MP BETA2 | Y | .016 | 5 |
| 21 | MP GAMMA2 | Y | .016 | 5 |
| 22 | MP ALPHA3 | Y | .021 | 5 |
| 23 | MP BETA3 | Y | .018 | 5 |
| 24 | MP GAMMA3 | Y | .018 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .016 | 5.958 |
| 2 | MP ALPHA1 | Y | .016 | 4.042 |
| 3 | MP ALPHA1 | X | .009 | 5.958 |
| 4 | MP ALPHA1 | X | .009 | 4.042 |
| 5 | MP BETA1 | Y | .009 | 5.958 |
| 6 | MP BETA1 | Y | .009 | 4.042 |
| 7 | MP BETA1 | X | .005 | 5.958 |
| 8 | MP BETA1 | X | .005 | 4.042 |
| 9 | MP GAMMA1 | Y | .016 | 5.958 |
| 10 | MP GAMMA1 | Y | .016 | 4.042 |
| 11 | MP GAMMA1 | X | .009 | 5.958 |
| 12 | MP GAMMA1 | X | .009 | 4.042 |
| 13 | MP ALPHA2 | Y | .051 | 7.917 |
| 14 | MP ALPHA2 | Y | .051 | 2.083 |
| 15 | MP ALPHA2 | X | .03 | 7.917 |
| 16 | MP ALPHA2 | X | .03 | 2.083 |
| 17 | MP BETA2 | Y | .03 | 7.917 |
| 18 | MP BETA2 | Y | .03 | 2.083 |
| 19 | MP BETA2 | X | .017 | 7.917 |
| 20 | MP BETA2 | X | .017 | 2.083 |
| 21 | MP GAMMA2 | Y | .051 | 7.917 |
| 22 | MP GAMMA2 | Y | .051 | 2.083 |
| 23 | MP GAMMA2 | X | .03 | 7.917 |
| 24 | MP GAMMA2 | X | .03 | 2.083 |
| 25 | MP ALPHA3 | Y | .017 | 6.875 |
| 26 | MP ALPHA3 | Y | .017 | 3.125 |
| 27 | MP ALPHA3 | X | .01 | 6.875 |
| 28 | MP ALPHA3 | X | .01 | 3.125 |
| 29 | MP BETA3 | Y | .011 | 6.875 |
| 30 | MP BETA3 | Y | .011 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 31 | MP BETA3 | X | .007 | 6.875 |
| 32 | MP BETA3 | X | .007 | 3.125 |
| 33 | MP GAMMA3 | Y | .017 | 6.875 |
| 34 | MP GAMMA3 | Y | .017 | 3.125 |
| 35 | MP GAMMA3 | X | .01 | 6.875 |
| 36 | MP GAMMA3 | X | .01 | 3.125 |
| 37 | MP ALPHA2 | Y | .018 | 5 |
| 38 | MP ALPHA2 | X | .01 | 5 |
| 39 | MP BETA2 | Y | .011 | 5 |
| 40 | MP BETA2 | X | .007 | 5 |
| 41 | MP GAMMA2 | Y | .018 | 5 |
| 42 | MP GAMMA2 | X | .01 | 5 |
| 43 | MP ALPHA3 | Y | .017 | 5 |
| 44 | MP ALPHA3 | X | .01 | 5 |
| 45 | MP BETA3 | Y | .015 | 5 |
| 46 | MP BETA3 | X | .009 | 5 |
| 47 | MP GAMMA3 | Y | .017 | 5 |
| 48 | MP GAMMA3 | X | .01 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | .007 | 5.958 |
| 2 | MP ALPHA1 | Y | .007 | 4.042 |
| 3 | MP ALPHA1 | X | .011 | 5.958 |
| 4 | MP ALPHA1 | X | .011 | 4.042 |
| 5 | MP BETA1 | Y | .007 | 5.958 |
| 6 | MP BETA1 | Y | .007 | 4.042 |
| 7 | MP BETA1 | X | .011 | 5.958 |
| 8 | MP BETA1 | X | .011 | 4.042 |
| 9 | MP GAMMA1 | Y | .01 | 5.958 |
| 10 | MP GAMMA1 | Y | .01 | 4.042 |
| 11 | MP GAMMA1 | X | .018 | 5.958 |
| 12 | MP GAMMA1 | X | .018 | 4.042 |
| 13 | MP ALPHA2 | Y | .021 | 7.917 |
| 14 | MP ALPHA2 | Y | .021 | 2.083 |
| 15 | MP ALPHA2 | X | .037 | 7.917 |
| 16 | MP ALPHA2 | X | .037 | 2.083 |
| 17 | MP BETA2 | Y | .021 | 7.917 |
| 18 | MP BETA2 | Y | .021 | 2.083 |
| 19 | MP BETA2 | X | .037 | 7.917 |
| 20 | MP BETA2 | X | .037 | 2.083 |
| 21 | MP GAMMA2 | Y | .034 | 7.917 |
| 22 | MP GAMMA2 | Y | .034 | 2.083 |
| 23 | MP GAMMA2 | X | .059 | 7.917 |
| 24 | MP GAMMA2 | X | .059 | 2.083 |
| 25 | MP ALPHA3 | Y | .008 | 6.875 |
| 26 | MP ALPHA3 | Y | .008 | 3.125 |
| 27 | MP ALPHA3 | X | .013 | 6.875 |
| 28 | MP ALPHA3 | X | .013 | 3.125 |
| 29 | MP BETA3 | Y | .008 | 6.875 |
| 30 | MP BETA3 | Y | .008 | 3.125 |
| 31 | MP BETA3 | X | .013 | 6.875 |
| 32 | MP BETA3 | X | .013 | 3.125 |
| 33 | MP GAMMA3 | Y | .011 | 6.875 |
| 34 | MP GAMMA3 | Y | .011 | 3.125 |
| 35 | MP GAMMA3 | X | .019 | 6.875 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 36 | MP GAMMA3 | X | .019 | 3.125 |
| 37 | MP ALPHA2 | Y | .008 | 5 |
| 38 | MP ALPHA2 | X | .014 | 5 |
| 39 | MP BETA2 | Y | .008 | 5 |
| 40 | MP BETA2 | X | .014 | 5 |
| 41 | MP GAMMA2 | Y | .011 | 5 |
| 42 | MP GAMMA2 | X | .02 | 5 |
| 43 | MP ALPHA3 | Y | .009 | 5 |
| 44 | MP ALPHA3 | X | .016 | 5 |
| 45 | MP BETA3 | Y | .009 | 5 |
| 46 | MP BETA3 | X | .016 | 5 |
| 47 | MP GAMMA3 | Y | .01 | 5 |
| 48 | MP GAMMA3 | X | .018 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | .011 | 5.958 |
| 2 | MP ALPHA1 | X | .011 | 4.042 |
| 3 | MP BETA1 | X | .018 | 5.958 |
| 4 | MP BETA1 | X | .018 | 4.042 |
| 5 | MP GAMMA1 | X | .018 | 5.958 |
| 6 | MP GAMMA1 | X | .018 | 4.042 |
| 7 | MP ALPHA2 | X | .034 | 7.917 |
| 8 | MP ALPHA2 | X | .034 | 2.083 |
| 9 | MP BETA2 | X | .059 | 7.917 |
| 10 | MP BETA2 | X | .059 | 2.083 |
| 11 | MP GAMMA2 | X | .059 | 7.917 |
| 12 | MP GAMMA2 | X | .059 | 2.083 |
| 13 | MP ALPHA3 | X | .013 | 6.875 |
| 14 | MP ALPHA3 | X | .013 | 3.125 |
| 15 | MP BETA3 | X | .02 | 6.875 |
| 16 | MP BETA3 | X | .02 | 3.125 |
| 17 | MP GAMMA3 | X | .02 | 6.875 |
| 18 | MP GAMMA3 | X | .02 | 3.125 |
| 19 | MP ALPHA2 | X | .013 | 5 |
| 20 | MP BETA2 | X | .021 | 5 |
| 21 | MP GAMMA2 | X | .021 | 5 |
| 22 | MP ALPHA3 | X | .017 | 5 |
| 23 | MP BETA3 | X | .02 | 5 |
| 24 | MP GAMMA3 | X | .02 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.007 | 5.958 |
| 2 | MP ALPHA1 | Y | -.007 | 4.042 |
| 3 | MP ALPHA1 | X | .011 | 5.958 |
| 4 | MP ALPHA1 | X | .011 | 4.042 |
| 5 | MP BETA1 | Y | -.01 | 5.958 |
| 6 | MP BETA1 | Y | -.01 | 4.042 |
| 7 | MP BETA1 | X | .018 | 5.958 |
| 8 | MP BETA1 | X | .018 | 4.042 |
| 9 | MP GAMMA1 | Y | -.007 | 5.958 |
| 10 | MP GAMMA1 | Y | -.007 | 4.042 |
| 11 | MP GAMMA1 | X | .011 | 5.958 |
| 12 | MP GAMMA1 | X | .011 | 4.042 |
| 13 | MP ALPHA2 | Y | -.021 | 7.917 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 14 | MP ALPHA2 | Y | -.021 | 2.083 |
| 15 | MP ALPHA2 | X | .037 | 7.917 |
| 16 | MP ALPHA2 | X | .037 | 2.083 |
| 17 | MP BETA2 | Y | -.034 | 7.917 |
| 18 | MP BETA2 | Y | -.034 | 2.083 |
| 19 | MP BETA2 | X | .059 | 7.917 |
| 20 | MP BETA2 | X | .059 | 2.083 |
| 21 | MP GAMMA2 | Y | -.021 | 7.917 |
| 22 | MP GAMMA2 | Y | -.021 | 2.083 |
| 23 | MP GAMMA2 | X | .037 | 7.917 |
| 24 | MP GAMMA2 | X | .037 | 2.083 |
| 25 | MP ALPHA3 | Y | -.008 | 6.875 |
| 26 | MP ALPHA3 | Y | -.008 | 3.125 |
| 27 | MP ALPHA3 | X | .013 | 6.875 |
| 28 | MP ALPHA3 | X | .013 | 3.125 |
| 29 | MP BETA3 | Y | -.011 | 6.875 |
| 30 | MP BETA3 | Y | -.011 | 3.125 |
| 31 | MP BETA3 | X | .019 | 6.875 |
| 32 | MP BETA3 | X | .019 | 3.125 |
| 33 | MP GAMMA3 | Y | -.008 | 6.875 |
| 34 | MP GAMMA3 | Y | -.008 | 3.125 |
| 35 | MP GAMMA3 | X | .013 | 6.875 |
| 36 | MP GAMMA3 | X | .013 | 3.125 |
| 37 | MP ALPHA2 | Y | -.008 | 5 |
| 38 | MP ALPHA2 | X | .014 | 5 |
| 39 | MP BETA2 | Y | -.011 | 5 |
| 40 | MP BETA2 | X | .02 | 5 |
| 41 | MP GAMMA2 | Y | -.008 | 5 |
| 42 | MP GAMMA2 | X | .014 | 5 |
| 43 | MP ALPHA3 | Y | -.009 | 5 |
| 44 | MP ALPHA3 | X | .016 | 5 |
| 45 | MP BETA3 | Y | -.01 | 5 |
| 46 | MP BETA3 | X | .018 | 5 |
| 47 | MP GAMMA3 | Y | -.009 | 5 |
| 48 | MP GAMMA3 | X | .016 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.016 | 5.958 |
| 2 | MP ALPHA1 | Y | -.016 | 4.042 |
| 3 | MP ALPHA1 | X | .009 | 5.958 |
| 4 | MP ALPHA1 | X | .009 | 4.042 |
| 5 | MP BETA1 | Y | -.016 | 5.958 |
| 6 | MP BETA1 | Y | -.016 | 4.042 |
| 7 | MP BETA1 | X | .009 | 5.958 |
| 8 | MP BETA1 | X | .009 | 4.042 |
| 9 | MP GAMMA1 | Y | -.009 | 5.958 |
| 10 | MP GAMMA1 | Y | -.009 | 4.042 |
| 11 | MP GAMMA1 | X | .005 | 5.958 |
| 12 | MP GAMMA1 | X | .005 | 4.042 |
| 13 | MP ALPHA2 | Y | -.051 | 7.917 |
| 14 | MP ALPHA2 | Y | -.051 | 2.083 |
| 15 | MP ALPHA2 | X | .03 | 7.917 |
| 16 | MP ALPHA2 | X | .03 | 2.083 |
| 17 | MP BETA2 | Y | -.051 | 7.917 |
| 18 | MP BETA2 | Y | -.051 | 2.083 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 19 | MP BETA2 | X | .03 | 7.917 |
| 20 | MP BETA2 | X | .03 | 2.083 |
| 21 | MP GAMMA2 | Y | -.03 | 7.917 |
| 22 | MP GAMMA2 | Y | -.03 | 2.083 |
| 23 | MP GAMMA2 | X | .017 | 7.917 |
| 24 | MP GAMMA2 | X | .017 | 2.083 |
| 25 | MP ALPHA3 | Y | -.017 | 6.875 |
| 26 | MP ALPHA3 | Y | -.017 | 3.125 |
| 27 | MP ALPHA3 | X | .01 | 6.875 |
| 28 | MP ALPHA3 | X | .01 | 3.125 |
| 29 | MP BETA3 | Y | -.017 | 6.875 |
| 30 | MP BETA3 | Y | -.017 | 3.125 |
| 31 | MP BETA3 | X | .01 | 6.875 |
| 32 | MP BETA3 | X | .01 | 3.125 |
| 33 | MP GAMMA3 | Y | -.011 | 6.875 |
| 34 | MP GAMMA3 | Y | -.011 | 3.125 |
| 35 | MP GAMMA3 | X | .007 | 6.875 |
| 36 | MP GAMMA3 | X | .007 | 3.125 |
| 37 | MP ALPHA2 | Y | -.018 | 5 |
| 38 | MP ALPHA2 | X | .01 | 5 |
| 39 | MP BETA2 | Y | -.018 | 5 |
| 40 | MP BETA2 | X | .01 | 5 |
| 41 | MP GAMMA2 | Y | -.011 | 5 |
| 42 | MP GAMMA2 | X | .007 | 5 |
| 43 | MP ALPHA3 | Y | -.017 | 5 |
| 44 | MP ALPHA3 | X | .01 | 5 |
| 45 | MP BETA3 | Y | -.017 | 5 |
| 46 | MP BETA3 | X | .01 | 5 |
| 47 | MP GAMMA3 | Y | -.015 | 5 |
| 48 | MP GAMMA3 | X | .009 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | X | -.005 | 5.958 |
| 2 | MP ALPHA1 | X | -.005 | 4.042 |
| 3 | MP BETA1 | X | -.005 | 5.958 |
| 4 | MP BETA1 | X | -.005 | 4.042 |
| 5 | MP GAMMA1 | X | -.005 | 5.958 |
| 6 | MP GAMMA1 | X | -.005 | 4.042 |
| 7 | MP ALPHA2 | X | -.007 | 7.917 |
| 8 | MP ALPHA2 | X | -.007 | 2.083 |
| 9 | MP BETA2 | X | -.007 | 7.917 |
| 10 | MP BETA2 | X | -.007 | 2.083 |
| 11 | MP GAMMA2 | X | -.007 | 7.917 |
| 12 | MP GAMMA2 | X | -.007 | 2.083 |
| 13 | MP ALPHA3 | X | -.001 | 6.875 |
| 14 | MP ALPHA3 | X | -.001 | 3.125 |
| 15 | MP BETA3 | X | -.001 | 6.875 |
| 16 | MP BETA3 | X | -.001 | 3.125 |
| 17 | MP GAMMA3 | X | -.001 | 6.875 |
| 18 | MP GAMMA3 | X | -.001 | 3.125 |
| 19 | MP ALPHA2 | X | -.008 | 5 |
| 20 | MP BETA2 | X | -.008 | 5 |
| 21 | MP GAMMA2 | X | -.008 | 5 |
| 22 | MP ALPHA3 | X | -.011 | 5 |
| 23 | MP BETA3 | X | -.011 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 24 | MP GAMMA3 | X | -.011 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Y | -.005 | 5.958 |
| 2 | MP ALPHA1 | Y | -.005 | 4.042 |
| 3 | MP BETA1 | Y | -.005 | 5.958 |
| 4 | MP BETA1 | Y | -.005 | 4.042 |
| 5 | MP GAMMA1 | Y | -.005 | 5.958 |
| 6 | MP GAMMA1 | Y | -.005 | 4.042 |
| 7 | MP ALPHA2 | Y | -.007 | 7.917 |
| 8 | MP ALPHA2 | Y | -.007 | 2.083 |
| 9 | MP BETA2 | Y | -.007 | 7.917 |
| 10 | MP BETA2 | Y | -.007 | 2.083 |
| 11 | MP GAMMA2 | Y | -.007 | 7.917 |
| 12 | MP GAMMA2 | Y | -.007 | 2.083 |
| 13 | MP ALPHA3 | Y | -.001 | 6.875 |
| 14 | MP ALPHA3 | Y | -.001 | 3.125 |
| 15 | MP BETA3 | Y | -.001 | 6.875 |
| 16 | MP BETA3 | Y | -.001 | 3.125 |
| 17 | MP GAMMA3 | Y | -.001 | 6.875 |
| 18 | MP GAMMA3 | Y | -.001 | 3.125 |
| 19 | MP ALPHA2 | Y | -.008 | 5 |
| 20 | MP BETA2 | Y | -.008 | 5 |
| 21 | MP GAMMA2 | Y | -.008 | 5 |
| 22 | MP ALPHA3 | Y | -.011 | 5 |
| 23 | MP BETA3 | Y | -.011 | 5 |
| 24 | MP GAMMA3 | Y | -.011 | 5 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA1 | Z | -.002 | 5.958 |
| 2 | MP ALPHA1 | Z | -.002 | 4.042 |
| 3 | MP BETA1 | Z | -.002 | 5.958 |
| 4 | MP BETA1 | Z | -.002 | 4.042 |
| 5 | MP GAMMA1 | Z | -.002 | 5.958 |
| 6 | MP GAMMA1 | Z | -.002 | 4.042 |
| 7 | MP ALPHA2 | Z | -.003 | 7.917 |
| 8 | MP ALPHA2 | Z | -.003 | 2.083 |
| 9 | MP BETA2 | Z | -.003 | 7.917 |
| 10 | MP BETA2 | Z | -.003 | 2.083 |
| 11 | MP GAMMA2 | Z | -.003 | 7.917 |
| 12 | MP GAMMA2 | Z | -.003 | 2.083 |
| 13 | MP ALPHA3 | Z | -.000477 | 6.875 |
| 14 | MP ALPHA3 | Z | -.000477 | 3.125 |
| 15 | MP BETA3 | Z | -.000477 | 6.875 |
| 16 | MP BETA3 | Z | -.000477 | 3.125 |
| 17 | MP GAMMA3 | Z | -.000477 | 6.875 |
| 18 | MP GAMMA3 | Z | -.000477 | 3.125 |
| 19 | MP ALPHA2 | Z | -.003 | 5 |
| 20 | MP BETA2 | Z | -.003 | 5 |
| 21 | MP GAMMA2 | Z | -.003 | 5 |
| 22 | MP ALPHA3 | Z | -.004 | 5 |
| 23 | MP BETA3 | Z | -.004 | 5 |
| 24 | MP GAMMA3 | Z | -.004 | 5 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.008 | -.008 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.008 | -.008 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.008 | -.008 | 0 | 0 |
| 4 | CORNER1 | PY | -.013 | -.013 | 0 | 0 |
| 5 | CORNER2 | PY | -.013 | -.013 | 0 | 0 |
| 6 | CORNER3 | PY | -.013 | -.013 | 0 | 0 |
| 7 | DIAG1 | PY | -.005 | -.005 | 0 | 0 |
| 8 | DIAG2 | PY | -.005 | -.005 | 0 | 0 |
| 9 | DIAG3 | PY | -.005 | -.005 | 0 | 0 |
| 10 | DIAG4 | PY | -.005 | -.005 | 0 | 0 |
| 11 | DIAG5 | PY | -.005 | -.005 | 0 | 0 |
| 12 | DIAG6 | PY | -.005 | -.005 | 0 | 0 |
| 13 | FACE1A | PY | -.013 | -.013 | 0 | 0 |
| 14 | FACE1B | PY | -.013 | -.013 | 0 | 0 |
| 15 | FACE2A | PY | -.026 | -.026 | 0 | 0 |
| 16 | FACE2B | PY | -.026 | -.026 | 0 | 0 |
| 17 | FACE3A | PY | -.026 | -.026 | 0 | 0 |
| 18 | FACE3B | PY | -.026 | -.026 | 0 | 0 |
| 19 | HORIZ1 | PY | -.005 | -.005 | 0 | 0 |
| 20 | HORIZ2 | PY | -.005 | -.005 | 0 | 0 |
| 21 | HORIZ3 | PY | -.005 | -.005 | 0 | 0 |
| 22 | LADDER1 | PY | -.005 | -.005 | 0 | 0 |
| 23 | LADDER2 | PY | -.005 | -.005 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.011 | -.011 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.011 | -.011 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.008 | -.008 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.008 | -.008 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.008 | -.008 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.008 | -.008 | 0 | 0 |
| 30 | MP BETA1 | PY | -.008 | -.008 | 0 | 0 |
| 31 | MP BETA2 | PY | -.008 | -.008 | 0 | 0 |
| 32 | MP BETA3 | PY | -.008 | -.008 | 0 | 0 |
| 33 | MP BETA4 | PY | -.008 | -.008 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.008 | -.008 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.008 | -.008 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.008 | -.008 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.008 | -.008 | 0 | 0 |
| 38 | PLATE1 | PY | -.000992 | -.000992 | 0 | 0 |
| 39 | PLATE2 | PY | -.000992 | -.000992 | 0 | 0 |
| 40 | PLATE3 | PY | -.000992 | -.000992 | 0 | 0 |
| 41 | RAIL1 | PY | -.008 | -.008 | 0 | 0 |
| 42 | RAIL2 | PY | -.016 | -.016 | 0 | 0 |
| 43 | RAIL3 | PY | -.016 | -.016 | 0 | 0 |
| 44 | RUNG1 | PY | -.000589 | -.000589 | 0 | 0 |
| 45 | RUNG2 | PY | -.000589 | -.000589 | 0 | 0 |
| 46 | RUNG3 | PY | -.000589 | -.000589 | 0 | 0 |
| 47 | RUNG4 | PY | -.000589 | -.000589 | 0 | 0 |
| 48 | RUNG5 | PY | -.000589 | -.000589 | 0 | 0 |
| 49 | RUNG6 | PY | -.000589 | -.000589 | 0 | 0 |
| 50 | RUNG7 | PY | -.000589 | -.000589 | 0 | 0 |
| 51 | SP1 | PY | -.000992 | -.000992 | 0 | 0 |
| 52 | SP2 | PY | -.000992 | -.000992 | 0 | 0 |
| 53 | SP3 | PY | -.000992 | -.000992 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.013 | -.013 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.013 | -.013 | 0 | 0 |
| 56 | VERT1 | PY | -.005 | -.005 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 57 | VERT2 | PY | -.005 | -.005 | 0 | 0 |
| 58 | VERT3 | PY | -.005 | -.005 | 0 | 0 |
| 59 | VERT4 | PY | -.005 | -.005 | 0 | 0 |
| 60 | VERT5 | PY | -.005 | -.005 | 0 | 0 |
| 61 | VERT6 | PY | -.005 | -.005 | 0 | 0 |
| 62 | VERT7 | PY | -.005 | -.005 | 0 | 0 |
| 63 | VERT8 | PY | -.005 | -.005 | 0 | 0 |
| 64 | VERT9 | PY | -.005 | -.005 | 0 | 0 |
| 65 | VERT10 | PY | -.005 | -.005 | 0 | 0 |
| 66 | VERT11 | PY | -.005 | -.005 | 0 | 0 |
| 67 | VERT12 | PY | -.005 | -.005 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.007 | -.007 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.007 | -.007 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.007 | -.007 | 0 | 0 |
| 4 | CORNER1 | PY | -.011 | -.011 | 0 | 0 |
| 5 | CORNER2 | PY | -.011 | -.011 | 0 | 0 |
| 6 | CORNER3 | PY | -.011 | -.011 | 0 | 0 |
| 7 | DIAG1 | PY | -.004 | -.004 | 0 | 0 |
| 8 | DIAG2 | PY | -.004 | -.004 | 0 | 0 |
| 9 | DIAG3 | PY | -.004 | -.004 | 0 | 0 |
| 10 | DIAG4 | PY | -.004 | -.004 | 0 | 0 |
| 11 | DIAG5 | PY | -.004 | -.004 | 0 | 0 |
| 12 | DIAG6 | PY | -.004 | -.004 | 0 | 0 |
| 13 | FACE1A | PY | -.011 | -.011 | 0 | 0 |
| 14 | FACE1B | PY | -.011 | -.011 | 0 | 0 |
| 15 | FACE2A | PY | -.023 | -.023 | 0 | 0 |
| 16 | FACE2B | PY | -.023 | -.023 | 0 | 0 |
| 17 | FACE3A | PY | -.023 | -.023 | 0 | 0 |
| 18 | FACE3B | PY | -.023 | -.023 | 0 | 0 |
| 19 | HORIZ1 | PY | -.004 | -.004 | 0 | 0 |
| 20 | HORIZ2 | PY | -.004 | -.004 | 0 | 0 |
| 21 | HORIZ3 | PY | -.004 | -.004 | 0 | 0 |
| 22 | LADDER1 | PY | -.004 | -.004 | 0 | 0 |
| 23 | LADDER2 | PY | -.004 | -.004 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.009 | -.009 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.009 | -.009 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.007 | -.007 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.007 | -.007 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.007 | -.007 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.007 | -.007 | 0 | 0 |
| 30 | MP BETA1 | PY | -.007 | -.007 | 0 | 0 |
| 31 | MP BETA2 | PY | -.007 | -.007 | 0 | 0 |
| 32 | MP BETA3 | PY | -.007 | -.007 | 0 | 0 |
| 33 | MP BETA4 | PY | -.007 | -.007 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.007 | -.007 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.007 | -.007 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.007 | -.007 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.007 | -.007 | 0 | 0 |
| 38 | PLATE1 | PY | -.000859 | -.000859 | 0 | 0 |
| 39 | PLATE2 | PY | -.000859 | -.000859 | 0 | 0 |
| 40 | PLATE3 | PY | -.000859 | -.000859 | 0 | 0 |
| 41 | RAIL1 | PY | -.007 | -.007 | 0 | 0 |
| 42 | RAIL2 | PY | -.014 | -.014 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 43 | RAIL3 | PY | -.014 | -.014 | 0 | 0 |
| 44 | RUNG1 | PY | -.00051 | -.00051 | 0 | 0 |
| 45 | RUNG2 | PY | -.00051 | -.00051 | 0 | 0 |
| 46 | RUNG3 | PY | -.00051 | -.00051 | 0 | 0 |
| 47 | RUNG4 | PY | -.00051 | -.00051 | 0 | 0 |
| 48 | RUNG5 | PY | -.00051 | -.00051 | 0 | 0 |
| 49 | RUNG6 | PY | -.00051 | -.00051 | 0 | 0 |
| 50 | RUNG7 | PY | -.00051 | -.00051 | 0 | 0 |
| 51 | SP1 | PY | -.000859 | -.000859 | 0 | 0 |
| 52 | SP2 | PY | -.000859 | -.000859 | 0 | 0 |
| 53 | SP3 | PY | -.000859 | -.000859 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.011 | -.011 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.011 | -.011 | 0 | 0 |
| 56 | VERT1 | PY | -.004 | -.004 | 0 | 0 |
| 57 | VERT2 | PY | -.004 | -.004 | 0 | 0 |
| 58 | VERT3 | PY | -.004 | -.004 | 0 | 0 |
| 59 | VERT4 | PY | -.004 | -.004 | 0 | 0 |
| 60 | VERT5 | PY | -.004 | -.004 | 0 | 0 |
| 61 | VERT6 | PY | -.004 | -.004 | 0 | 0 |
| 62 | VERT7 | PY | -.004 | -.004 | 0 | 0 |
| 63 | VERT8 | PY | -.004 | -.004 | 0 | 0 |
| 64 | VERT9 | PY | -.004 | -.004 | 0 | 0 |
| 65 | VERT10 | PY | -.004 | -.004 | 0 | 0 |
| 66 | VERT11 | PY | -.004 | -.004 | 0 | 0 |
| 67 | VERT12 | PY | -.004 | -.004 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.004 | -.004 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.004 | -.004 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.004 | -.004 | 0 | 0 |
| 71 | CORNER1 | PX | -.007 | -.007 | 0 | 0 |
| 72 | CORNER2 | PX | -.007 | -.007 | 0 | 0 |
| 73 | CORNER3 | PX | -.007 | -.007 | 0 | 0 |
| 74 | DIAG1 | PX | -.002 | -.002 | 0 | 0 |
| 75 | DIAG2 | PX | -.002 | -.002 | 0 | 0 |
| 76 | DIAG3 | PX | -.002 | -.002 | 0 | 0 |
| 77 | DIAG4 | PX | -.002 | -.002 | 0 | 0 |
| 78 | DIAG5 | PX | -.002 | -.002 | 0 | 0 |
| 79 | DIAG6 | PX | -.002 | -.002 | 0 | 0 |
| 80 | FACE1A | PX | -.007 | -.007 | 0 | 0 |
| 81 | FACE1B | PX | -.007 | -.007 | 0 | 0 |
| 82 | FACE2A | PX | -.013 | -.013 | 0 | 0 |
| 83 | FACE2B | PX | -.013 | -.013 | 0 | 0 |
| 84 | FACE3A | PX | -.013 | -.013 | 0 | 0 |
| 85 | FACE3B | PX | -.013 | -.013 | 0 | 0 |
| 86 | HORIZ1 | PX | -.002 | -.002 | 0 | 0 |
| 87 | HORIZ2 | PX | -.002 | -.002 | 0 | 0 |
| 88 | HORIZ3 | PX | -.002 | -.002 | 0 | 0 |
| 89 | LADDER1 | PX | -.002 | -.002 | 0 | 0 |
| 90 | LADDER2 | PX | -.002 | -.002 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.005 | -.005 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.005 | -.005 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.004 | -.004 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.004 | -.004 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.004 | -.004 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.004 | -.004 | 0 | 0 |
| 97 | MP BETA1 | PX | -.004 | -.004 | 0 | 0 |
| 98 | MP BETA2 | PX | -.004 | -.004 | 0 | 0 |
| 99 | MP BETA3 | PX | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 100 | MP BETA4 | PX | -.004 | -.004 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.004 | -.004 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.004 | -.004 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.004 | -.004 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.004 | -.004 | 0 | 0 |
| 105 | PLATE1 | PX | -.000496 | -.000496 | 0 | 0 |
| 106 | PLATE2 | PX | -.000496 | -.000496 | 0 | 0 |
| 107 | PLATE3 | PX | -.000496 | -.000496 | 0 | 0 |
| 108 | RAIL1 | PX | -.004 | -.004 | 0 | 0 |
| 109 | RAIL2 | PX | -.008 | -.008 | 0 | 0 |
| 110 | RAIL3 | PX | -.008 | -.008 | 0 | 0 |
| 111 | RUNG1 | PX | -.000294 | -.000294 | 0 | 0 |
| 112 | RUNG2 | PX | -.000294 | -.000294 | 0 | 0 |
| 113 | RUNG3 | PX | -.000294 | -.000294 | 0 | 0 |
| 114 | RUNG4 | PX | -.000294 | -.000294 | 0 | 0 |
| 115 | RUNG5 | PX | -.000294 | -.000294 | 0 | 0 |
| 116 | RUNG6 | PX | -.000294 | -.000294 | 0 | 0 |
| 117 | RUNG7 | PX | -.000294 | -.000294 | 0 | 0 |
| 118 | SP1 | PX | -.000496 | -.000496 | 0 | 0 |
| 119 | SP2 | PX | -.000496 | -.000496 | 0 | 0 |
| 120 | SP3 | PX | -.000496 | -.000496 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.007 | -.007 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.007 | -.007 | 0 | 0 |
| 123 | VERT1 | PX | -.002 | -.002 | 0 | 0 |
| 124 | VERT2 | PX | -.002 | -.002 | 0 | 0 |
| 125 | VERT3 | PX | -.002 | -.002 | 0 | 0 |
| 126 | VERT4 | PX | -.002 | -.002 | 0 | 0 |
| 127 | VERT5 | PX | -.002 | -.002 | 0 | 0 |
| 128 | VERT6 | PX | -.002 | -.002 | 0 | 0 |
| 129 | VERT7 | PX | -.002 | -.002 | 0 | 0 |
| 130 | VERT8 | PX | -.002 | -.002 | 0 | 0 |
| 131 | VERT9 | PX | -.002 | -.002 | 0 | 0 |
| 132 | VERT10 | PX | -.002 | -.002 | 0 | 0 |
| 133 | VERT11 | PX | -.002 | -.002 | 0 | 0 |
| 134 | VERT12 | PX | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.004 | -.004 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.004 | -.004 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.004 | -.004 | 0 | 0 |
| 4 | CORNER1 | PY | -.007 | -.007 | 0 | 0 |
| 5 | CORNER2 | PY | -.007 | -.007 | 0 | 0 |
| 6 | CORNER3 | PY | -.007 | -.007 | 0 | 0 |
| 7 | DIAG1 | PY | -.002 | -.002 | 0 | 0 |
| 8 | DIAG2 | PY | -.002 | -.002 | 0 | 0 |
| 9 | DIAG3 | PY | -.002 | -.002 | 0 | 0 |
| 10 | DIAG4 | PY | -.002 | -.002 | 0 | 0 |
| 11 | DIAG5 | PY | -.002 | -.002 | 0 | 0 |
| 12 | DIAG6 | PY | -.002 | -.002 | 0 | 0 |
| 13 | FACE1A | PY | -.007 | -.007 | 0 | 0 |
| 14 | FACE1B | PY | -.007 | -.007 | 0 | 0 |
| 15 | FACE2A | PY | -.013 | -.013 | 0 | 0 |
| 16 | FACE2B | PY | -.013 | -.013 | 0 | 0 |
| 17 | FACE3A | PY | -.013 | -.013 | 0 | 0 |
| 18 | FACE3B | PY | -.013 | -.013 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | HORIZ1 | PY | -.002 | -.002 | 0 | 0 |
| 20 | HORIZ2 | PY | -.002 | -.002 | 0 | 0 |
| 21 | HORIZ3 | PY | -.002 | -.002 | 0 | 0 |
| 22 | LADDER1 | PY | -.002 | -.002 | 0 | 0 |
| 23 | LADDER2 | PY | -.002 | -.002 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.005 | -.005 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.005 | -.005 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.004 | -.004 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.004 | -.004 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.004 | -.004 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.004 | -.004 | 0 | 0 |
| 30 | MP BETA1 | PY | -.004 | -.004 | 0 | 0 |
| 31 | MP BETA2 | PY | -.004 | -.004 | 0 | 0 |
| 32 | MP BETA3 | PY | -.004 | -.004 | 0 | 0 |
| 33 | MP BETA4 | PY | -.004 | -.004 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.004 | -.004 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.004 | -.004 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.004 | -.004 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.004 | -.004 | 0 | 0 |
| 38 | PLATE1 | PY | -.000496 | -.000496 | 0 | 0 |
| 39 | PLATE2 | PY | -.000496 | -.000496 | 0 | 0 |
| 40 | PLATE3 | PY | -.000496 | -.000496 | 0 | 0 |
| 41 | RAIL1 | PY | -.004 | -.004 | 0 | 0 |
| 42 | RAIL2 | PY | -.008 | -.008 | 0 | 0 |
| 43 | RAIL3 | PY | -.008 | -.008 | 0 | 0 |
| 44 | RUNG1 | PY | -.000294 | -.000294 | 0 | 0 |
| 45 | RUNG2 | PY | -.000294 | -.000294 | 0 | 0 |
| 46 | RUNG3 | PY | -.000294 | -.000294 | 0 | 0 |
| 47 | RUNG4 | PY | -.000294 | -.000294 | 0 | 0 |
| 48 | RUNG5 | PY | -.000294 | -.000294 | 0 | 0 |
| 49 | RUNG6 | PY | -.000294 | -.000294 | 0 | 0 |
| 50 | RUNG7 | PY | -.000294 | -.000294 | 0 | 0 |
| 51 | SP1 | PY | -.000496 | -.000496 | 0 | 0 |
| 52 | SP2 | PY | -.000496 | -.000496 | 0 | 0 |
| 53 | SP3 | PY | -.000496 | -.000496 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.007 | -.007 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.007 | -.007 | 0 | 0 |
| 56 | VERT1 | PY | -.002 | -.002 | 0 | 0 |
| 57 | VERT2 | PY | -.002 | -.002 | 0 | 0 |
| 58 | VERT3 | PY | -.002 | -.002 | 0 | 0 |
| 59 | VERT4 | PY | -.002 | -.002 | 0 | 0 |
| 60 | VERT5 | PY | -.002 | -.002 | 0 | 0 |
| 61 | VERT6 | PY | -.002 | -.002 | 0 | 0 |
| 62 | VERT7 | PY | -.002 | -.002 | 0 | 0 |
| 63 | VERT8 | PY | -.002 | -.002 | 0 | 0 |
| 64 | VERT9 | PY | -.002 | -.002 | 0 | 0 |
| 65 | VERT10 | PY | -.002 | -.002 | 0 | 0 |
| 66 | VERT11 | PY | -.002 | -.002 | 0 | 0 |
| 67 | VERT12 | PY | -.002 | -.002 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.007 | -.007 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.007 | -.007 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.007 | -.007 | 0 | 0 |
| 71 | CORNER1 | PX | -.011 | -.011 | 0 | 0 |
| 72 | CORNER2 | PX | -.011 | -.011 | 0 | 0 |
| 73 | CORNER3 | PX | -.011 | -.011 | 0 | 0 |
| 74 | DIAG1 | PX | -.004 | -.004 | 0 | 0 |
| 75 | DIAG2 | PX | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | DIAG3 | PX | -.004 | -.004 | 0 | 0 |
| 77 | DIAG4 | PX | -.004 | -.004 | 0 | 0 |
| 78 | DIAG5 | PX | -.004 | -.004 | 0 | 0 |
| 79 | DIAG6 | PX | -.004 | -.004 | 0 | 0 |
| 80 | FACE1A | PX | -.011 | -.011 | 0 | 0 |
| 81 | FACE1B | PX | -.011 | -.011 | 0 | 0 |
| 82 | FACE2A | PX | -.023 | -.023 | 0 | 0 |
| 83 | FACE2B | PX | -.023 | -.023 | 0 | 0 |
| 84 | FACE3A | PX | -.023 | -.023 | 0 | 0 |
| 85 | FACE3B | PX | -.023 | -.023 | 0 | 0 |
| 86 | HORIZ1 | PX | -.004 | -.004 | 0 | 0 |
| 87 | HORIZ2 | PX | -.004 | -.004 | 0 | 0 |
| 88 | HORIZ3 | PX | -.004 | -.004 | 0 | 0 |
| 89 | LADDER1 | PX | -.004 | -.004 | 0 | 0 |
| 90 | LADDER2 | PX | -.004 | -.004 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.009 | -.009 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.009 | -.009 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.007 | -.007 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.007 | -.007 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.007 | -.007 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.007 | -.007 | 0 | 0 |
| 97 | MP BETA1 | PX | -.007 | -.007 | 0 | 0 |
| 98 | MP BETA2 | PX | -.007 | -.007 | 0 | 0 |
| 99 | MP BETA3 | PX | -.007 | -.007 | 0 | 0 |
| 100 | MP BETA4 | PX | -.007 | -.007 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.007 | -.007 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.007 | -.007 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.007 | -.007 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.007 | -.007 | 0 | 0 |
| 105 | PLATE1 | PX | -.000859 | -.000859 | 0 | 0 |
| 106 | PLATE2 | PX | -.000859 | -.000859 | 0 | 0 |
| 107 | PLATE3 | PX | -.000859 | -.000859 | 0 | 0 |
| 108 | RAIL1 | PX | -.007 | -.007 | 0 | 0 |
| 109 | RAIL2 | PX | -.014 | -.014 | 0 | 0 |
| 110 | RAIL3 | PX | -.014 | -.014 | 0 | 0 |
| 111 | RUNG1 | PX | -.00051 | -.00051 | 0 | 0 |
| 112 | RUNG2 | PX | -.00051 | -.00051 | 0 | 0 |
| 113 | RUNG3 | PX | -.00051 | -.00051 | 0 | 0 |
| 114 | RUNG4 | PX | -.00051 | -.00051 | 0 | 0 |
| 115 | RUNG5 | PX | -.00051 | -.00051 | 0 | 0 |
| 116 | RUNG6 | PX | -.00051 | -.00051 | 0 | 0 |
| 117 | RUNG7 | PX | -.00051 | -.00051 | 0 | 0 |
| 118 | SP1 | PX | -.000859 | -.000859 | 0 | 0 |
| 119 | SP2 | PX | -.000859 | -.000859 | 0 | 0 |
| 120 | SP3 | PX | -.000859 | -.000859 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.011 | -.011 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.011 | -.011 | 0 | 0 |
| 123 | VERT1 | PX | -.004 | -.004 | 0 | 0 |
| 124 | VERT2 | PX | -.004 | -.004 | 0 | 0 |
| 125 | VERT3 | PX | -.004 | -.004 | 0 | 0 |
| 126 | VERT4 | PX | -.004 | -.004 | 0 | 0 |
| 127 | VERT5 | PX | -.004 | -.004 | 0 | 0 |
| 128 | VERT6 | PX | -.004 | -.004 | 0 | 0 |
| 129 | VERT7 | PX | -.004 | -.004 | 0 | 0 |
| 130 | VERT8 | PX | -.004 | -.004 | 0 | 0 |
| 131 | VERT9 | PX | -.004 | -.004 | 0 | 0 |
| 132 | VERT10 | PX | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 133 | VERT11 | PX | -.004 | -.004 | 0 | 0 |
| 134 | VERT12 | PX | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PX | -.008 | -.008 | 0 | 0 |
| 2 | CONNANGLE2 | PX | -.008 | -.008 | 0 | 0 |
| 3 | CONNANGLE3 | PX | -.008 | -.008 | 0 | 0 |
| 4 | CORNER1 | PX | -.013 | -.013 | 0 | 0 |
| 5 | CORNER2 | PX | -.013 | -.013 | 0 | 0 |
| 6 | CORNER3 | PX | -.013 | -.013 | 0 | 0 |
| 7 | DIAG1 | PX | -.005 | -.005 | 0 | 0 |
| 8 | DIAG2 | PX | -.005 | -.005 | 0 | 0 |
| 9 | DIAG3 | PX | -.005 | -.005 | 0 | 0 |
| 10 | DIAG4 | PX | -.005 | -.005 | 0 | 0 |
| 11 | DIAG5 | PX | -.005 | -.005 | 0 | 0 |
| 12 | DIAG6 | PX | -.005 | -.005 | 0 | 0 |
| 13 | FACE2A | PX | -.013 | -.013 | 0 | 0 |
| 14 | FACE2B | PX | -.013 | -.013 | 0 | 0 |
| 15 | FACE3A | PX | -.026 | -.026 | 0 | 0 |
| 16 | FACE3B | PX | -.026 | -.026 | 0 | 0 |
| 17 | FACE1A | PX | -.026 | -.026 | 0 | 0 |
| 18 | FACE1B | PX | -.026 | -.026 | 0 | 0 |
| 19 | HORIZ1 | PX | -.005 | -.005 | 0 | 0 |
| 20 | HORIZ2 | PX | -.005 | -.005 | 0 | 0 |
| 21 | HORIZ3 | PX | -.005 | -.005 | 0 | 0 |
| 22 | LADDER1 | PX | -.005 | -.005 | 0 | 0 |
| 23 | LADDER2 | PX | -.005 | -.005 | 0 | 0 |
| 24 | LADDERPLATE1 | PX | -.011 | -.011 | 0 | 0 |
| 25 | LADDERPLATE2 | PX | -.011 | -.011 | 0 | 0 |
| 26 | MP ALPHA1 | PX | -.008 | -.008 | 0 | 0 |
| 27 | MP ALPHA2 | PX | -.008 | -.008 | 0 | 0 |
| 28 | MP ALPHA3 | PX | -.008 | -.008 | 0 | 0 |
| 29 | MP ALPHA4 | PX | -.008 | -.008 | 0 | 0 |
| 30 | MP BETA1 | PX | -.008 | -.008 | 0 | 0 |
| 31 | MP BETA2 | PX | -.008 | -.008 | 0 | 0 |
| 32 | MP BETA3 | PX | -.008 | -.008 | 0 | 0 |
| 33 | MP BETA4 | PX | -.008 | -.008 | 0 | 0 |
| 34 | MP GAMMA1 | PX | -.008 | -.008 | 0 | 0 |
| 35 | MP GAMMA2 | PX | -.008 | -.008 | 0 | 0 |
| 36 | MP GAMMA3 | PX | -.008 | -.008 | 0 | 0 |
| 37 | MP GAMMA4 | PX | -.008 | -.008 | 0 | 0 |
| 38 | PLATE1 | PX | -.000992 | -.000992 | 0 | 0 |
| 39 | PLATE2 | PX | -.000992 | -.000992 | 0 | 0 |
| 40 | PLATE3 | PX | -.000992 | -.000992 | 0 | 0 |
| 41 | RAIL2 | PX | -.008 | -.008 | 0 | 0 |
| 42 | RAIL1 | PX | -.016 | -.016 | 0 | 0 |
| 43 | RAIL3 | PX | -.016 | -.016 | 0 | 0 |
| 44 | RUNG1 | PX | -.000589 | -.000589 | 0 | 0 |
| 45 | RUNG2 | PX | -.000589 | -.000589 | 0 | 0 |
| 46 | RUNG3 | PX | -.000589 | -.000589 | 0 | 0 |
| 47 | RUNG4 | PX | -.000589 | -.000589 | 0 | 0 |
| 48 | RUNG5 | PX | -.000589 | -.000589 | 0 | 0 |
| 49 | RUNG6 | PX | -.000589 | -.000589 | 0 | 0 |
| 50 | RUNG7 | PX | -.000589 | -.000589 | 0 | 0 |
| 51 | SP1 | PX | -.000992 | -.000992 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 52 | SP2 | PX | -.000992 | -.000992 | 0 | 0 |
| 53 | SP3 | PX | -.000992 | -.000992 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.013 | -.013 | 0 | 0 |
| 55 | SUPPORT2 | PX | -.013 | -.013 | 0 | 0 |
| 56 | VERT1 | PX | -.005 | -.005 | 0 | 0 |
| 57 | VERT2 | PX | -.005 | -.005 | 0 | 0 |
| 58 | VERT3 | PX | -.005 | -.005 | 0 | 0 |
| 59 | VERT4 | PX | -.005 | -.005 | 0 | 0 |
| 60 | VERT5 | PX | -.005 | -.005 | 0 | 0 |
| 61 | VERT6 | PX | -.005 | -.005 | 0 | 0 |
| 62 | VERT7 | PX | -.005 | -.005 | 0 | 0 |
| 63 | VERT8 | PX | -.005 | -.005 | 0 | 0 |
| 64 | VERT9 | PX | -.005 | -.005 | 0 | 0 |
| 65 | VERT10 | PX | -.005 | -.005 | 0 | 0 |
| 66 | VERT11 | PX | -.005 | -.005 | 0 | 0 |
| 67 | VERT12 | PX | -.005 | -.005 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .004 | .004 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .004 | .004 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .004 | .004 | 0 | 0 |
| 4 | CORNER1 | PY | .007 | .007 | 0 | 0 |
| 5 | CORNER2 | PY | .007 | .007 | 0 | 0 |
| 6 | CORNER3 | PY | .007 | .007 | 0 | 0 |
| 7 | DIAG1 | PY | .002 | .002 | 0 | 0 |
| 8 | DIAG2 | PY | .002 | .002 | 0 | 0 |
| 9 | DIAG3 | PY | .002 | .002 | 0 | 0 |
| 10 | DIAG4 | PY | .002 | .002 | 0 | 0 |
| 11 | DIAG5 | PY | .002 | .002 | 0 | 0 |
| 12 | DIAG6 | PY | .002 | .002 | 0 | 0 |
| 13 | FACE2A | PY | .007 | .007 | 0 | 0 |
| 14 | FACE2B | PY | .007 | .007 | 0 | 0 |
| 15 | FACE3A | PY | .013 | .013 | 0 | 0 |
| 16 | FACE3B | PY | .013 | .013 | 0 | 0 |
| 17 | FACE1A | PY | .013 | .013 | 0 | 0 |
| 18 | FACE1B | PY | .013 | .013 | 0 | 0 |
| 19 | HORIZ1 | PY | .002 | .002 | 0 | 0 |
| 20 | HORIZ2 | PY | .002 | .002 | 0 | 0 |
| 21 | HORIZ3 | PY | .002 | .002 | 0 | 0 |
| 22 | LADDER1 | PY | .002 | .002 | 0 | 0 |
| 23 | LADDER2 | PY | .002 | .002 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .005 | .005 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .005 | .005 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .004 | .004 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .004 | .004 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .004 | .004 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .004 | .004 | 0 | 0 |
| 30 | MP BETA1 | PY | .004 | .004 | 0 | 0 |
| 31 | MP BETA2 | PY | .004 | .004 | 0 | 0 |
| 32 | MP BETA3 | PY | .004 | .004 | 0 | 0 |
| 33 | MP BETA4 | PY | .004 | .004 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .004 | .004 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .004 | .004 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .004 | .004 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .004 | .004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 38 | PLATE1 | PY | .000496 | .000496 | 0 | 0 |
| 39 | PLATE2 | PY | .000496 | .000496 | 0 | 0 |
| 40 | PLATE3 | PY | .000496 | .000496 | 0 | 0 |
| 41 | RAIL2 | PY | .004 | .004 | 0 | 0 |
| 42 | RAIL1 | PY | .008 | .008 | 0 | 0 |
| 43 | RAIL3 | PY | .008 | .008 | 0 | 0 |
| 44 | RUNG1 | PY | .000294 | .000294 | 0 | 0 |
| 45 | RUNG2 | PY | .000294 | .000294 | 0 | 0 |
| 46 | RUNG3 | PY | .000294 | .000294 | 0 | 0 |
| 47 | RUNG4 | PY | .000294 | .000294 | 0 | 0 |
| 48 | RUNG5 | PY | .000294 | .000294 | 0 | 0 |
| 49 | RUNG6 | PY | .000294 | .000294 | 0 | 0 |
| 50 | RUNG7 | PY | .000294 | .000294 | 0 | 0 |
| 51 | SP1 | PY | .000496 | .000496 | 0 | 0 |
| 52 | SP2 | PY | .000496 | .000496 | 0 | 0 |
| 53 | SP3 | PY | .000496 | .000496 | 0 | 0 |
| 54 | SUPPORT1 | PY | .007 | .007 | 0 | 0 |
| 55 | SUPPORT2 | PY | .007 | .007 | 0 | 0 |
| 56 | VERT1 | PY | .002 | .002 | 0 | 0 |
| 57 | VERT2 | PY | .002 | .002 | 0 | 0 |
| 58 | VERT3 | PY | .002 | .002 | 0 | 0 |
| 59 | VERT4 | PY | .002 | .002 | 0 | 0 |
| 60 | VERT5 | PY | .002 | .002 | 0 | 0 |
| 61 | VERT6 | PY | .002 | .002 | 0 | 0 |
| 62 | VERT7 | PY | .002 | .002 | 0 | 0 |
| 63 | VERT8 | PY | .002 | .002 | 0 | 0 |
| 64 | VERT9 | PY | .002 | .002 | 0 | 0 |
| 65 | VERT10 | PY | .002 | .002 | 0 | 0 |
| 66 | VERT11 | PY | .002 | .002 | 0 | 0 |
| 67 | VERT12 | PY | .002 | .002 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.007 | -.007 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.007 | -.007 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.007 | -.007 | 0 | 0 |
| 71 | CORNER1 | PX | -.011 | -.011 | 0 | 0 |
| 72 | CORNER2 | PX | -.011 | -.011 | 0 | 0 |
| 73 | CORNER3 | PX | -.011 | -.011 | 0 | 0 |
| 74 | DIAG1 | PX | -.004 | -.004 | 0 | 0 |
| 75 | DIAG2 | PX | -.004 | -.004 | 0 | 0 |
| 76 | DIAG3 | PX | -.004 | -.004 | 0 | 0 |
| 77 | DIAG4 | PX | -.004 | -.004 | 0 | 0 |
| 78 | DIAG5 | PX | -.004 | -.004 | 0 | 0 |
| 79 | DIAG6 | PX | -.004 | -.004 | 0 | 0 |
| 80 | FACE2A | PX | -.011 | -.011 | 0 | 0 |
| 81 | FACE2B | PX | -.011 | -.011 | 0 | 0 |
| 82 | FACE3A | PX | -.023 | -.023 | 0 | 0 |
| 83 | FACE3B | PX | -.023 | -.023 | 0 | 0 |
| 84 | FACE1A | PX | -.023 | -.023 | 0 | 0 |
| 85 | FACE1B | PX | -.023 | -.023 | 0 | 0 |
| 86 | HORIZ1 | PX | -.004 | -.004 | 0 | 0 |
| 87 | HORIZ2 | PX | -.004 | -.004 | 0 | 0 |
| 88 | HORIZ3 | PX | -.004 | -.004 | 0 | 0 |
| 89 | LADDER1 | PX | -.004 | -.004 | 0 | 0 |
| 90 | LADDER2 | PX | -.004 | -.004 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.009 | -.009 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.009 | -.009 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.007 | -.007 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.007 | -.007 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 95 | MP ALPHA3 | PX | -.007 | -.007 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.007 | -.007 | 0 | 0 |
| 97 | MP BETA1 | PX | -.007 | -.007 | 0 | 0 |
| 98 | MP BETA2 | PX | -.007 | -.007 | 0 | 0 |
| 99 | MP BETA3 | PX | -.007 | -.007 | 0 | 0 |
| 100 | MP BETA4 | PX | -.007 | -.007 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.007 | -.007 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.007 | -.007 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.007 | -.007 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.007 | -.007 | 0 | 0 |
| 105 | PLATE1 | PX | -.000859 | -.000859 | 0 | 0 |
| 106 | PLATE2 | PX | -.000859 | -.000859 | 0 | 0 |
| 107 | PLATE3 | PX | -.000859 | -.000859 | 0 | 0 |
| 108 | RAIL2 | PX | -.007 | -.007 | 0 | 0 |
| 109 | RAIL1 | PX | -.014 | -.014 | 0 | 0 |
| 110 | RAIL3 | PX | -.014 | -.014 | 0 | 0 |
| 111 | RUNG1 | PX | -.00051 | -.00051 | 0 | 0 |
| 112 | RUNG2 | PX | -.00051 | -.00051 | 0 | 0 |
| 113 | RUNG3 | PX | -.00051 | -.00051 | 0 | 0 |
| 114 | RUNG4 | PX | -.00051 | -.00051 | 0 | 0 |
| 115 | RUNG5 | PX | -.00051 | -.00051 | 0 | 0 |
| 116 | RUNG6 | PX | -.00051 | -.00051 | 0 | 0 |
| 117 | RUNG7 | PX | -.00051 | -.00051 | 0 | 0 |
| 118 | SP1 | PX | -.000859 | -.000859 | 0 | 0 |
| 119 | SP2 | PX | -.000859 | -.000859 | 0 | 0 |
| 120 | SP3 | PX | -.000859 | -.000859 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.011 | -.011 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.011 | -.011 | 0 | 0 |
| 123 | VERT1 | PX | -.004 | -.004 | 0 | 0 |
| 124 | VERT2 | PX | -.004 | -.004 | 0 | 0 |
| 125 | VERT3 | PX | -.004 | -.004 | 0 | 0 |
| 126 | VERT4 | PX | -.004 | -.004 | 0 | 0 |
| 127 | VERT5 | PX | -.004 | -.004 | 0 | 0 |
| 128 | VERT6 | PX | -.004 | -.004 | 0 | 0 |
| 129 | VERT7 | PX | -.004 | -.004 | 0 | 0 |
| 130 | VERT8 | PX | -.004 | -.004 | 0 | 0 |
| 131 | VERT9 | PX | -.004 | -.004 | 0 | 0 |
| 132 | VERT10 | PX | -.004 | -.004 | 0 | 0 |
| 133 | VERT11 | PX | -.004 | -.004 | 0 | 0 |
| 134 | VERT12 | PX | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .007 | .007 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .007 | .007 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .007 | .007 | 0 | 0 |
| 4 | CORNER1 | PY | .011 | .011 | 0 | 0 |
| 5 | CORNER2 | PY | .011 | .011 | 0 | 0 |
| 6 | CORNER3 | PY | .011 | .011 | 0 | 0 |
| 7 | DIAG1 | PY | .004 | .004 | 0 | 0 |
| 8 | DIAG2 | PY | .004 | .004 | 0 | 0 |
| 9 | DIAG3 | PY | .004 | .004 | 0 | 0 |
| 10 | DIAG4 | PY | .004 | .004 | 0 | 0 |
| 11 | DIAG5 | PY | .004 | .004 | 0 | 0 |
| 12 | DIAG6 | PY | .004 | .004 | 0 | 0 |
| 13 | FACE2A | PY | .011 | .011 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 14 | FACE2B | PY | .011 | .011 | 0 | 0 |
| 15 | FACE3A | PY | .023 | .023 | 0 | 0 |
| 16 | FACE3B | PY | .023 | .023 | 0 | 0 |
| 17 | FACE1A | PY | .023 | .023 | 0 | 0 |
| 18 | FACE1B | PY | .023 | .023 | 0 | 0 |
| 19 | HORIZ1 | PY | .004 | .004 | 0 | 0 |
| 20 | HORIZ2 | PY | .004 | .004 | 0 | 0 |
| 21 | HORIZ3 | PY | .004 | .004 | 0 | 0 |
| 22 | LADDER1 | PY | .004 | .004 | 0 | 0 |
| 23 | LADDER2 | PY | .004 | .004 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .009 | .009 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .009 | .009 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .007 | .007 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .007 | .007 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .007 | .007 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .007 | .007 | 0 | 0 |
| 30 | MP BETA1 | PY | .007 | .007 | 0 | 0 |
| 31 | MP BETA2 | PY | .007 | .007 | 0 | 0 |
| 32 | MP BETA3 | PY | .007 | .007 | 0 | 0 |
| 33 | MP BETA4 | PY | .007 | .007 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .007 | .007 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .007 | .007 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .007 | .007 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .007 | .007 | 0 | 0 |
| 38 | PLATE1 | PY | .000859 | .000859 | 0 | 0 |
| 39 | PLATE2 | PY | .000859 | .000859 | 0 | 0 |
| 40 | PLATE3 | PY | .000859 | .000859 | 0 | 0 |
| 41 | RAIL2 | PY | .007 | .007 | 0 | 0 |
| 42 | RAIL1 | PY | .014 | .014 | 0 | 0 |
| 43 | RAIL3 | PY | .014 | .014 | 0 | 0 |
| 44 | RUNG1 | PY | .00051 | .00051 | 0 | 0 |
| 45 | RUNG2 | PY | .00051 | .00051 | 0 | 0 |
| 46 | RUNG3 | PY | .00051 | .00051 | 0 | 0 |
| 47 | RUNG4 | PY | .00051 | .00051 | 0 | 0 |
| 48 | RUNG5 | PY | .00051 | .00051 | 0 | 0 |
| 49 | RUNG6 | PY | .00051 | .00051 | 0 | 0 |
| 50 | RUNG7 | PY | .00051 | .00051 | 0 | 0 |
| 51 | SP1 | PY | .000859 | .000859 | 0 | 0 |
| 52 | SP2 | PY | .000859 | .000859 | 0 | 0 |
| 53 | SP3 | PY | .000859 | .000859 | 0 | 0 |
| 54 | SUPPORT1 | PY | .011 | .011 | 0 | 0 |
| 55 | SUPPORT2 | PY | .011 | .011 | 0 | 0 |
| 56 | VERT1 | PY | .004 | .004 | 0 | 0 |
| 57 | VERT2 | PY | .004 | .004 | 0 | 0 |
| 58 | VERT3 | PY | .004 | .004 | 0 | 0 |
| 59 | VERT4 | PY | .004 | .004 | 0 | 0 |
| 60 | VERT5 | PY | .004 | .004 | 0 | 0 |
| 61 | VERT6 | PY | .004 | .004 | 0 | 0 |
| 62 | VERT7 | PY | .004 | .004 | 0 | 0 |
| 63 | VERT8 | PY | .004 | .004 | 0 | 0 |
| 64 | VERT9 | PY | .004 | .004 | 0 | 0 |
| 65 | VERT10 | PY | .004 | .004 | 0 | 0 |
| 66 | VERT11 | PY | .004 | .004 | 0 | 0 |
| 67 | VERT12 | PY | .004 | .004 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.004 | -.004 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.004 | -.004 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 71 | CORNER1 | PX | -.007 | -.007 | 0 | 0 |
| 72 | CORNER2 | PX | -.007 | -.007 | 0 | 0 |
| 73 | CORNER3 | PX | -.007 | -.007 | 0 | 0 |
| 74 | DIAG1 | PX | -.002 | -.002 | 0 | 0 |
| 75 | DIAG2 | PX | -.002 | -.002 | 0 | 0 |
| 76 | DIAG3 | PX | -.002 | -.002 | 0 | 0 |
| 77 | DIAG4 | PX | -.002 | -.002 | 0 | 0 |
| 78 | DIAG5 | PX | -.002 | -.002 | 0 | 0 |
| 79 | DIAG6 | PX | -.002 | -.002 | 0 | 0 |
| 80 | FACE2A | PX | -.007 | -.007 | 0 | 0 |
| 81 | FACE2B | PX | -.007 | -.007 | 0 | 0 |
| 82 | FACE3A | PX | -.013 | -.013 | 0 | 0 |
| 83 | FACE3B | PX | -.013 | -.013 | 0 | 0 |
| 84 | FACE1A | PX | -.013 | -.013 | 0 | 0 |
| 85 | FACE1B | PX | -.013 | -.013 | 0 | 0 |
| 86 | HORIZ1 | PX | -.002 | -.002 | 0 | 0 |
| 87 | HORIZ2 | PX | -.002 | -.002 | 0 | 0 |
| 88 | HORIZ3 | PX | -.002 | -.002 | 0 | 0 |
| 89 | LADDER1 | PX | -.002 | -.002 | 0 | 0 |
| 90 | LADDER2 | PX | -.002 | -.002 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.005 | -.005 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.005 | -.005 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.004 | -.004 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.004 | -.004 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.004 | -.004 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.004 | -.004 | 0 | 0 |
| 97 | MP BETA1 | PX | -.004 | -.004 | 0 | 0 |
| 98 | MP BETA2 | PX | -.004 | -.004 | 0 | 0 |
| 99 | MP BETA3 | PX | -.004 | -.004 | 0 | 0 |
| 100 | MP BETA4 | PX | -.004 | -.004 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.004 | -.004 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.004 | -.004 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.004 | -.004 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.004 | -.004 | 0 | 0 |
| 105 | PLATE1 | PX | -.000496 | -.000496 | 0 | 0 |
| 106 | PLATE2 | PX | -.000496 | -.000496 | 0 | 0 |
| 107 | PLATE3 | PX | -.000496 | -.000496 | 0 | 0 |
| 108 | RAIL2 | PX | -.004 | -.004 | 0 | 0 |
| 109 | RAIL1 | PX | -.008 | -.008 | 0 | 0 |
| 110 | RAIL3 | PX | -.008 | -.008 | 0 | 0 |
| 111 | RUNG1 | PX | -.000294 | -.000294 | 0 | 0 |
| 112 | RUNG2 | PX | -.000294 | -.000294 | 0 | 0 |
| 113 | RUNG3 | PX | -.000294 | -.000294 | 0 | 0 |
| 114 | RUNG4 | PX | -.000294 | -.000294 | 0 | 0 |
| 115 | RUNG5 | PX | -.000294 | -.000294 | 0 | 0 |
| 116 | RUNG6 | PX | -.000294 | -.000294 | 0 | 0 |
| 117 | RUNG7 | PX | -.000294 | -.000294 | 0 | 0 |
| 118 | SP1 | PX | -.000496 | -.000496 | 0 | 0 |
| 119 | SP2 | PX | -.000496 | -.000496 | 0 | 0 |
| 120 | SP3 | PX | -.000496 | -.000496 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.007 | -.007 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.007 | -.007 | 0 | 0 |
| 123 | VERT1 | PX | -.002 | -.002 | 0 | 0 |
| 124 | VERT2 | PX | -.002 | -.002 | 0 | 0 |
| 125 | VERT3 | PX | -.002 | -.002 | 0 | 0 |
| 126 | VERT4 | PX | -.002 | -.002 | 0 | 0 |
| 127 | VERT5 | PX | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 128 | VERT6 | PX | -.002 | -.002 | 0 | 0 |
| 129 | VERT7 | PX | -.002 | -.002 | 0 | 0 |
| 130 | VERT8 | PX | -.002 | -.002 | 0 | 0 |
| 131 | VERT9 | PX | -.002 | -.002 | 0 | 0 |
| 132 | VERT10 | PX | -.002 | -.002 | 0 | 0 |
| 133 | VERT11 | PX | -.002 | -.002 | 0 | 0 |
| 134 | VERT12 | PX | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .008 | .008 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .008 | .008 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .008 | .008 | 0 | 0 |
| 4 | CORNER1 | PY | .013 | .013 | 0 | 0 |
| 5 | CORNER2 | PY | .013 | .013 | 0 | 0 |
| 6 | CORNER3 | PY | .013 | .013 | 0 | 0 |
| 7 | DIAG1 | PY | .005 | .005 | 0 | 0 |
| 8 | DIAG2 | PY | .005 | .005 | 0 | 0 |
| 9 | DIAG3 | PY | .005 | .005 | 0 | 0 |
| 10 | DIAG4 | PY | .005 | .005 | 0 | 0 |
| 11 | DIAG5 | PY | .005 | .005 | 0 | 0 |
| 12 | DIAG6 | PY | .005 | .005 | 0 | 0 |
| 13 | FACE2A | PY | .013 | .013 | 0 | 0 |
| 14 | FACE2B | PY | .013 | .013 | 0 | 0 |
| 15 | FACE3A | PY | .026 | .026 | 0 | 0 |
| 16 | FACE3B | PY | .026 | .026 | 0 | 0 |
| 17 | FACE1A | PY | .026 | .026 | 0 | 0 |
| 18 | FACE1B | PY | .026 | .026 | 0 | 0 |
| 19 | HORIZ1 | PY | .005 | .005 | 0 | 0 |
| 20 | HORIZ2 | PY | .005 | .005 | 0 | 0 |
| 21 | HORIZ3 | PY | .005 | .005 | 0 | 0 |
| 22 | LADDER1 | PY | .005 | .005 | 0 | 0 |
| 23 | LADDER2 | PY | .005 | .005 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .011 | .011 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .011 | .011 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .008 | .008 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .008 | .008 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .008 | .008 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .008 | .008 | 0 | 0 |
| 30 | MP BETA1 | PY | .008 | .008 | 0 | 0 |
| 31 | MP BETA2 | PY | .008 | .008 | 0 | 0 |
| 32 | MP BETA3 | PY | .008 | .008 | 0 | 0 |
| 33 | MP BETA4 | PY | .008 | .008 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .008 | .008 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .008 | .008 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .008 | .008 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .008 | .008 | 0 | 0 |
| 38 | PLATE1 | PY | .000992 | .000992 | 0 | 0 |
| 39 | PLATE2 | PY | .000992 | .000992 | 0 | 0 |
| 40 | PLATE3 | PY | .000992 | .000992 | 0 | 0 |
| 41 | RAIL2 | PY | .008 | .008 | 0 | 0 |
| 42 | RAIL1 | PY | .016 | .016 | 0 | 0 |
| 43 | RAIL3 | PY | .016 | .016 | 0 | 0 |
| 44 | RUNG1 | PY | .000589 | .000589 | 0 | 0 |
| 45 | RUNG2 | PY | .000589 | .000589 | 0 | 0 |
| 46 | RUNG3 | PY | .000589 | .000589 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 47 | RUNG4 | PY | .000589 | .000589 | 0 | 0 |
| 48 | RUNG5 | PY | .000589 | .000589 | 0 | 0 |
| 49 | RUNG6 | PY | .000589 | .000589 | 0 | 0 |
| 50 | RUNG7 | PY | .000589 | .000589 | 0 | 0 |
| 51 | SP1 | PY | .000992 | .000992 | 0 | 0 |
| 52 | SP2 | PY | .000992 | .000992 | 0 | 0 |
| 53 | SP3 | PY | .000992 | .000992 | 0 | 0 |
| 54 | SUPPORT1 | PY | .013 | .013 | 0 | 0 |
| 55 | SUPPORT2 | PY | .013 | .013 | 0 | 0 |
| 56 | VERT1 | PY | .005 | .005 | 0 | 0 |
| 57 | VERT2 | PY | .005 | .005 | 0 | 0 |
| 58 | VERT3 | PY | .005 | .005 | 0 | 0 |
| 59 | VERT4 | PY | .005 | .005 | 0 | 0 |
| 60 | VERT5 | PY | .005 | .005 | 0 | 0 |
| 61 | VERT6 | PY | .005 | .005 | 0 | 0 |
| 62 | VERT7 | PY | .005 | .005 | 0 | 0 |
| 63 | VERT8 | PY | .005 | .005 | 0 | 0 |
| 64 | VERT9 | PY | .005 | .005 | 0 | 0 |
| 65 | VERT10 | PY | .005 | .005 | 0 | 0 |
| 66 | VERT11 | PY | .005 | .005 | 0 | 0 |
| 67 | VERT12 | PY | .005 | .005 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .007 | .007 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .007 | .007 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .007 | .007 | 0 | 0 |
| 4 | CORNER1 | PY | .011 | .011 | 0 | 0 |
| 5 | CORNER2 | PY | .011 | .011 | 0 | 0 |
| 6 | CORNER3 | PY | .011 | .011 | 0 | 0 |
| 7 | DIAG1 | PY | .004 | .004 | 0 | 0 |
| 8 | DIAG2 | PY | .004 | .004 | 0 | 0 |
| 9 | DIAG3 | PY | .004 | .004 | 0 | 0 |
| 10 | DIAG4 | PY | .004 | .004 | 0 | 0 |
| 11 | DIAG5 | PY | .004 | .004 | 0 | 0 |
| 12 | DIAG6 | PY | .004 | .004 | 0 | 0 |
| 13 | FACE3A | PY | .011 | .011 | 0 | 0 |
| 14 | FACE3B | PY | .011 | .011 | 0 | 0 |
| 15 | FACE2A | PY | .023 | .023 | 0 | 0 |
| 16 | FACE2B | PY | .023 | .023 | 0 | 0 |
| 17 | FACE1A | PY | .023 | .023 | 0 | 0 |
| 18 | FACE1B | PY | .023 | .023 | 0 | 0 |
| 19 | HORIZ1 | PY | .004 | .004 | 0 | 0 |
| 20 | HORIZ2 | PY | .004 | .004 | 0 | 0 |
| 21 | HORIZ3 | PY | .004 | .004 | 0 | 0 |
| 22 | LADDER1 | PY | .004 | .004 | 0 | 0 |
| 23 | LADDER2 | PY | .004 | .004 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .009 | .009 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .009 | .009 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .007 | .007 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .007 | .007 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .007 | .007 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .007 | .007 | 0 | 0 |
| 30 | MP BETA1 | PY | .007 | .007 | 0 | 0 |
| 31 | MP BETA2 | PY | .007 | .007 | 0 | 0 |
| 32 | MP BETA3 | PY | .007 | .007 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 33 | MP BETA4 | PY | .007 | .007 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .007 | .007 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .007 | .007 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .007 | .007 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .007 | .007 | 0 | 0 |
| 38 | PLATE1 | PY | .000859 | .000859 | 0 | 0 |
| 39 | PLATE2 | PY | .000859 | .000859 | 0 | 0 |
| 40 | PLATE3 | PY | .000859 | .000859 | 0 | 0 |
| 41 | RAIL3 | PY | .007 | .007 | 0 | 0 |
| 42 | RAIL2 | PY | .014 | .014 | 0 | 0 |
| 43 | RAIL1 | PY | .014 | .014 | 0 | 0 |
| 44 | RUNG1 | PY | .00051 | .00051 | 0 | 0 |
| 45 | RUNG2 | PY | .00051 | .00051 | 0 | 0 |
| 46 | RUNG3 | PY | .00051 | .00051 | 0 | 0 |
| 47 | RUNG4 | PY | .00051 | .00051 | 0 | 0 |
| 48 | RUNG5 | PY | .00051 | .00051 | 0 | 0 |
| 49 | RUNG6 | PY | .00051 | .00051 | 0 | 0 |
| 50 | RUNG7 | PY | .00051 | .00051 | 0 | 0 |
| 51 | SP1 | PY | .000859 | .000859 | 0 | 0 |
| 52 | SP2 | PY | .000859 | .000859 | 0 | 0 |
| 53 | SP3 | PY | .000859 | .000859 | 0 | 0 |
| 54 | SUPPORT1 | PY | .011 | .011 | 0 | 0 |
| 55 | SUPPORT2 | PY | .011 | .011 | 0 | 0 |
| 56 | VERT1 | PY | .004 | .004 | 0 | 0 |
| 57 | VERT2 | PY | .004 | .004 | 0 | 0 |
| 58 | VERT3 | PY | .004 | .004 | 0 | 0 |
| 59 | VERT4 | PY | .004 | .004 | 0 | 0 |
| 60 | VERT5 | PY | .004 | .004 | 0 | 0 |
| 61 | VERT6 | PY | .004 | .004 | 0 | 0 |
| 62 | VERT7 | PY | .004 | .004 | 0 | 0 |
| 63 | VERT8 | PY | .004 | .004 | 0 | 0 |
| 64 | VERT9 | PY | .004 | .004 | 0 | 0 |
| 65 | VERT10 | PY | .004 | .004 | 0 | 0 |
| 66 | VERT11 | PY | .004 | .004 | 0 | 0 |
| 67 | VERT12 | PY | .004 | .004 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .004 | .004 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .004 | .004 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .004 | .004 | 0 | 0 |
| 71 | CORNER1 | PX | .007 | .007 | 0 | 0 |
| 72 | CORNER2 | PX | .007 | .007 | 0 | 0 |
| 73 | CORNER3 | PX | .007 | .007 | 0 | 0 |
| 74 | DIAG1 | PX | .002 | .002 | 0 | 0 |
| 75 | DIAG2 | PX | .002 | .002 | 0 | 0 |
| 76 | DIAG3 | PX | .002 | .002 | 0 | 0 |
| 77 | DIAG4 | PX | .002 | .002 | 0 | 0 |
| 78 | DIAG5 | PX | .002 | .002 | 0 | 0 |
| 79 | DIAG6 | PX | .002 | .002 | 0 | 0 |
| 80 | FACE3A | PX | .007 | .007 | 0 | 0 |
| 81 | FACE3B | PX | .007 | .007 | 0 | 0 |
| 82 | FACE2A | PX | .013 | .013 | 0 | 0 |
| 83 | FACE2B | PX | .013 | .013 | 0 | 0 |
| 84 | FACE1A | PX | .013 | .013 | 0 | 0 |
| 85 | FACE1B | PX | .013 | .013 | 0 | 0 |
| 86 | HORIZ1 | PX | .002 | .002 | 0 | 0 |
| 87 | HORIZ2 | PX | .002 | .002 | 0 | 0 |
| 88 | HORIZ3 | PX | .002 | .002 | 0 | 0 |
| 89 | LADDER1 | PX | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 90 | LADDER2 | PX | .002 | .002 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .005 | .005 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .005 | .005 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .004 | .004 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .004 | .004 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .004 | .004 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .004 | .004 | 0 | 0 |
| 97 | MP BETA1 | PX | .004 | .004 | 0 | 0 |
| 98 | MP BETA2 | PX | .004 | .004 | 0 | 0 |
| 99 | MP BETA3 | PX | .004 | .004 | 0 | 0 |
| 100 | MP BETA4 | PX | .004 | .004 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .004 | .004 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .004 | .004 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .004 | .004 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .004 | .004 | 0 | 0 |
| 105 | PLATE1 | PX | .000496 | .000496 | 0 | 0 |
| 106 | PLATE2 | PX | .000496 | .000496 | 0 | 0 |
| 107 | PLATE3 | PX | .000496 | .000496 | 0 | 0 |
| 108 | RAIL3 | PX | .004 | .004 | 0 | 0 |
| 109 | RAIL2 | PX | .008 | .008 | 0 | 0 |
| 110 | RAIL1 | PX | .008 | .008 | 0 | 0 |
| 111 | RUNG1 | PX | .000294 | .000294 | 0 | 0 |
| 112 | RUNG2 | PX | .000294 | .000294 | 0 | 0 |
| 113 | RUNG3 | PX | .000294 | .000294 | 0 | 0 |
| 114 | RUNG4 | PX | .000294 | .000294 | 0 | 0 |
| 115 | RUNG5 | PX | .000294 | .000294 | 0 | 0 |
| 116 | RUNG6 | PX | .000294 | .000294 | 0 | 0 |
| 117 | RUNG7 | PX | .000294 | .000294 | 0 | 0 |
| 118 | SP1 | PX | .000496 | .000496 | 0 | 0 |
| 119 | SP2 | PX | .000496 | .000496 | 0 | 0 |
| 120 | SP3 | PX | .000496 | .000496 | 0 | 0 |
| 121 | SUPPORT1 | PX | .007 | .007 | 0 | 0 |
| 122 | SUPPORT2 | PX | .007 | .007 | 0 | 0 |
| 123 | VERT1 | PX | .002 | .002 | 0 | 0 |
| 124 | VERT2 | PX | .002 | .002 | 0 | 0 |
| 125 | VERT3 | PX | .002 | .002 | 0 | 0 |
| 126 | VERT4 | PX | .002 | .002 | 0 | 0 |
| 127 | VERT5 | PX | .002 | .002 | 0 | 0 |
| 128 | VERT6 | PX | .002 | .002 | 0 | 0 |
| 129 | VERT7 | PX | .002 | .002 | 0 | 0 |
| 130 | VERT8 | PX | .002 | .002 | 0 | 0 |
| 131 | VERT9 | PX | .002 | .002 | 0 | 0 |
| 132 | VERT10 | PX | .002 | .002 | 0 | 0 |
| 133 | VERT11 | PX | .002 | .002 | 0 | 0 |
| 134 | VERT12 | PX | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .004 | .004 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .004 | .004 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .004 | .004 | 0 | 0 |
| 4 | CORNER1 | PY | .007 | .007 | 0 | 0 |
| 5 | CORNER2 | PY | .007 | .007 | 0 | 0 |
| 6 | CORNER3 | PY | .007 | .007 | 0 | 0 |
| 7 | DIAG1 | PY | .002 | .002 | 0 | 0 |
| 8 | DIAG2 | PY | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 9 | DIAG3 | PY | .002 | .002 | 0 | 0 |
| 10 | DIAG4 | PY | .002 | .002 | 0 | 0 |
| 11 | DIAG5 | PY | .002 | .002 | 0 | 0 |
| 12 | DIAG6 | PY | .002 | .002 | 0 | 0 |
| 13 | FACE3A | PY | .007 | .007 | 0 | 0 |
| 14 | FACE3B | PY | .007 | .007 | 0 | 0 |
| 15 | FACE2A | PY | .013 | .013 | 0 | 0 |
| 16 | FACE2B | PY | .013 | .013 | 0 | 0 |
| 17 | FACE1A | PY | .013 | .013 | 0 | 0 |
| 18 | FACE1B | PY | .013 | .013 | 0 | 0 |
| 19 | HORIZ1 | PY | .002 | .002 | 0 | 0 |
| 20 | HORIZ2 | PY | .002 | .002 | 0 | 0 |
| 21 | HORIZ3 | PY | .002 | .002 | 0 | 0 |
| 22 | LADDER1 | PY | .002 | .002 | 0 | 0 |
| 23 | LADDER2 | PY | .002 | .002 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .005 | .005 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .005 | .005 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .004 | .004 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .004 | .004 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .004 | .004 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .004 | .004 | 0 | 0 |
| 30 | MP BETA1 | PY | .004 | .004 | 0 | 0 |
| 31 | MP BETA2 | PY | .004 | .004 | 0 | 0 |
| 32 | MP BETA3 | PY | .004 | .004 | 0 | 0 |
| 33 | MP BETA4 | PY | .004 | .004 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .004 | .004 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .004 | .004 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .004 | .004 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .004 | .004 | 0 | 0 |
| 38 | PLATE1 | PY | .000496 | .000496 | 0 | 0 |
| 39 | PLATE2 | PY | .000496 | .000496 | 0 | 0 |
| 40 | PLATE3 | PY | .000496 | .000496 | 0 | 0 |
| 41 | RAIL3 | PY | .004 | .004 | 0 | 0 |
| 42 | RAIL2 | PY | .008 | .008 | 0 | 0 |
| 43 | RAIL1 | PY | .008 | .008 | 0 | 0 |
| 44 | RUNG1 | PY | .000294 | .000294 | 0 | 0 |
| 45 | RUNG2 | PY | .000294 | .000294 | 0 | 0 |
| 46 | RUNG3 | PY | .000294 | .000294 | 0 | 0 |
| 47 | RUNG4 | PY | .000294 | .000294 | 0 | 0 |
| 48 | RUNG5 | PY | .000294 | .000294 | 0 | 0 |
| 49 | RUNG6 | PY | .000294 | .000294 | 0 | 0 |
| 50 | RUNG7 | PY | .000294 | .000294 | 0 | 0 |
| 51 | SP1 | PY | .000496 | .000496 | 0 | 0 |
| 52 | SP2 | PY | .000496 | .000496 | 0 | 0 |
| 53 | SP3 | PY | .000496 | .000496 | 0 | 0 |
| 54 | SUPPORT1 | PY | .007 | .007 | 0 | 0 |
| 55 | SUPPORT2 | PY | .007 | .007 | 0 | 0 |
| 56 | VERT1 | PY | .002 | .002 | 0 | 0 |
| 57 | VERT2 | PY | .002 | .002 | 0 | 0 |
| 58 | VERT3 | PY | .002 | .002 | 0 | 0 |
| 59 | VERT4 | PY | .002 | .002 | 0 | 0 |
| 60 | VERT5 | PY | .002 | .002 | 0 | 0 |
| 61 | VERT6 | PY | .002 | .002 | 0 | 0 |
| 62 | VERT7 | PY | .002 | .002 | 0 | 0 |
| 63 | VERT8 | PY | .002 | .002 | 0 | 0 |
| 64 | VERT9 | PY | .002 | .002 | 0 | 0 |
| 65 | VERT10 | PY | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 66 | VERT11 | PY | .002 | .002 | 0 | 0 |
| 67 | VERT12 | PY | .002 | .002 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .007 | .007 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .007 | .007 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .007 | .007 | 0 | 0 |
| 71 | CORNER1 | PX | .011 | .011 | 0 | 0 |
| 72 | CORNER2 | PX | .011 | .011 | 0 | 0 |
| 73 | CORNER3 | PX | .011 | .011 | 0 | 0 |
| 74 | DIAG1 | PX | .004 | .004 | 0 | 0 |
| 75 | DIAG2 | PX | .004 | .004 | 0 | 0 |
| 76 | DIAG3 | PX | .004 | .004 | 0 | 0 |
| 77 | DIAG4 | PX | .004 | .004 | 0 | 0 |
| 78 | DIAG5 | PX | .004 | .004 | 0 | 0 |
| 79 | DIAG6 | PX | .004 | .004 | 0 | 0 |
| 80 | FACE3A | PX | .011 | .011 | 0 | 0 |
| 81 | FACE3B | PX | .011 | .011 | 0 | 0 |
| 82 | FACE2A | PX | .023 | .023 | 0 | 0 |
| 83 | FACE2B | PX | .023 | .023 | 0 | 0 |
| 84 | FACE1A | PX | .023 | .023 | 0 | 0 |
| 85 | FACE1B | PX | .023 | .023 | 0 | 0 |
| 86 | HORIZ1 | PX | .004 | .004 | 0 | 0 |
| 87 | HORIZ2 | PX | .004 | .004 | 0 | 0 |
| 88 | HORIZ3 | PX | .004 | .004 | 0 | 0 |
| 89 | LADDER1 | PX | .004 | .004 | 0 | 0 |
| 90 | LADDER2 | PX | .004 | .004 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .009 | .009 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .009 | .009 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .007 | .007 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .007 | .007 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .007 | .007 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .007 | .007 | 0 | 0 |
| 97 | MP BETA1 | PX | .007 | .007 | 0 | 0 |
| 98 | MP BETA2 | PX | .007 | .007 | 0 | 0 |
| 99 | MP BETA3 | PX | .007 | .007 | 0 | 0 |
| 100 | MP BETA4 | PX | .007 | .007 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .007 | .007 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .007 | .007 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .007 | .007 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .007 | .007 | 0 | 0 |
| 105 | PLATE1 | PX | .000859 | .000859 | 0 | 0 |
| 106 | PLATE2 | PX | .000859 | .000859 | 0 | 0 |
| 107 | PLATE3 | PX | .000859 | .000859 | 0 | 0 |
| 108 | RAIL3 | PX | .007 | .007 | 0 | 0 |
| 109 | RAIL2 | PX | .014 | .014 | 0 | 0 |
| 110 | RAIL1 | PX | .014 | .014 | 0 | 0 |
| 111 | RUNG1 | PX | .00051 | .00051 | 0 | 0 |
| 112 | RUNG2 | PX | .00051 | .00051 | 0 | 0 |
| 113 | RUNG3 | PX | .00051 | .00051 | 0 | 0 |
| 114 | RUNG4 | PX | .00051 | .00051 | 0 | 0 |
| 115 | RUNG5 | PX | .00051 | .00051 | 0 | 0 |
| 116 | RUNG6 | PX | .00051 | .00051 | 0 | 0 |
| 117 | RUNG7 | PX | .00051 | .00051 | 0 | 0 |
| 118 | SP1 | PX | .000859 | .000859 | 0 | 0 |
| 119 | SP2 | PX | .000859 | .000859 | 0 | 0 |
| 120 | SP3 | PX | .000859 | .000859 | 0 | 0 |
| 121 | SUPPORT1 | PX | .011 | .011 | 0 | 0 |
| 122 | SUPPORT2 | PX | .011 | .011 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 123 | VERT1 | PX | .004 | .004 | 0 | 0 |
| 124 | VERT2 | PX | .004 | .004 | 0 | 0 |
| 125 | VERT3 | PX | .004 | .004 | 0 | 0 |
| 126 | VERT4 | PX | .004 | .004 | 0 | 0 |
| 127 | VERT5 | PX | .004 | .004 | 0 | 0 |
| 128 | VERT6 | PX | .004 | .004 | 0 | 0 |
| 129 | VERT7 | PX | .004 | .004 | 0 | 0 |
| 130 | VERT8 | PX | .004 | .004 | 0 | 0 |
| 131 | VERT9 | PX | .004 | .004 | 0 | 0 |
| 132 | VERT10 | PX | .004 | .004 | 0 | 0 |
| 133 | VERT11 | PX | .004 | .004 | 0 | 0 |
| 134 | VERT12 | PX | .004 | .004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PX | .008 | .008 | 0 | 0 |
| 2 | CONNANGLE2 | PX | .008 | .008 | 0 | 0 |
| 3 | CONNANGLE3 | PX | .008 | .008 | 0 | 0 |
| 4 | CORNER1 | PX | .013 | .013 | 0 | 0 |
| 5 | CORNER2 | PX | .013 | .013 | 0 | 0 |
| 6 | CORNER3 | PX | .013 | .013 | 0 | 0 |
| 7 | DIAG1 | PX | .005 | .005 | 0 | 0 |
| 8 | DIAG2 | PX | .005 | .005 | 0 | 0 |
| 9 | DIAG3 | PX | .005 | .005 | 0 | 0 |
| 10 | DIAG4 | PX | .005 | .005 | 0 | 0 |
| 11 | DIAG5 | PX | .005 | .005 | 0 | 0 |
| 12 | DIAG6 | PX | .005 | .005 | 0 | 0 |
| 13 | FACE3A | PX | .013 | .013 | 0 | 0 |
| 14 | FACE3B | PX | .013 | .013 | 0 | 0 |
| 15 | FACE2A | PX | .026 | .026 | 0 | 0 |
| 16 | FACE2B | PX | .026 | .026 | 0 | 0 |
| 17 | FACE1A | PX | .026 | .026 | 0 | 0 |
| 18 | FACE1B | PX | .026 | .026 | 0 | 0 |
| 19 | HORIZ1 | PX | .005 | .005 | 0 | 0 |
| 20 | HORIZ2 | PX | .005 | .005 | 0 | 0 |
| 21 | HORIZ3 | PX | .005 | .005 | 0 | 0 |
| 22 | LADDER1 | PX | .005 | .005 | 0 | 0 |
| 23 | LADDER2 | PX | .005 | .005 | 0 | 0 |
| 24 | LADDERPLATE1 | PX | .011 | .011 | 0 | 0 |
| 25 | LADDERPLATE2 | PX | .011 | .011 | 0 | 0 |
| 26 | MP ALPHA1 | PX | .008 | .008 | 0 | 0 |
| 27 | MP ALPHA2 | PX | .008 | .008 | 0 | 0 |
| 28 | MP ALPHA3 | PX | .008 | .008 | 0 | 0 |
| 29 | MP ALPHA4 | PX | .008 | .008 | 0 | 0 |
| 30 | MP BETA1 | PX | .008 | .008 | 0 | 0 |
| 31 | MP BETA2 | PX | .008 | .008 | 0 | 0 |
| 32 | MP BETA3 | PX | .008 | .008 | 0 | 0 |
| 33 | MP BETA4 | PX | .008 | .008 | 0 | 0 |
| 34 | MP GAMMA1 | PX | .008 | .008 | 0 | 0 |
| 35 | MP GAMMA2 | PX | .008 | .008 | 0 | 0 |
| 36 | MP GAMMA3 | PX | .008 | .008 | 0 | 0 |
| 37 | MP GAMMA4 | PX | .008 | .008 | 0 | 0 |
| 38 | PLATE1 | PX | .000992 | .000992 | 0 | 0 |
| 39 | PLATE2 | PX | .000992 | .000992 | 0 | 0 |
| 40 | PLATE3 | PX | .000992 | .000992 | 0 | 0 |
| 41 | RAIL3 | PX | .008 | .008 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 42 | RAIL2 | PX | .016 | .016 | 0 | 0 |
| 43 | RAIL1 | PX | .016 | .016 | 0 | 0 |
| 44 | RUNG1 | PX | .000589 | .000589 | 0 | 0 |
| 45 | RUNG2 | PX | .000589 | .000589 | 0 | 0 |
| 46 | RUNG3 | PX | .000589 | .000589 | 0 | 0 |
| 47 | RUNG4 | PX | .000589 | .000589 | 0 | 0 |
| 48 | RUNG5 | PX | .000589 | .000589 | 0 | 0 |
| 49 | RUNG6 | PX | .000589 | .000589 | 0 | 0 |
| 50 | RUNG7 | PX | .000589 | .000589 | 0 | 0 |
| 51 | SP1 | PX | .000992 | .000992 | 0 | 0 |
| 52 | SP2 | PX | .000992 | .000992 | 0 | 0 |
| 53 | SP3 | PX | .000992 | .000992 | 0 | 0 |
| 54 | SUPPORT1 | PX | .013 | .013 | 0 | 0 |
| 55 | SUPPORT2 | PX | .013 | .013 | 0 | 0 |
| 56 | VERT1 | PX | .005 | .005 | 0 | 0 |
| 57 | VERT2 | PX | .005 | .005 | 0 | 0 |
| 58 | VERT3 | PX | .005 | .005 | 0 | 0 |
| 59 | VERT4 | PX | .005 | .005 | 0 | 0 |
| 60 | VERT5 | PX | .005 | .005 | 0 | 0 |
| 61 | VERT6 | PX | .005 | .005 | 0 | 0 |
| 62 | VERT7 | PX | .005 | .005 | 0 | 0 |
| 63 | VERT8 | PX | .005 | .005 | 0 | 0 |
| 64 | VERT9 | PX | .005 | .005 | 0 | 0 |
| 65 | VERT10 | PX | .005 | .005 | 0 | 0 |
| 66 | VERT11 | PX | .005 | .005 | 0 | 0 |
| 67 | VERT12 | PX | .005 | .005 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.004 | -.004 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.004 | -.004 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.004 | -.004 | 0 | 0 |
| 4 | CORNER1 | PY | -.007 | -.007 | 0 | 0 |
| 5 | CORNER2 | PY | -.007 | -.007 | 0 | 0 |
| 6 | CORNER3 | PY | -.007 | -.007 | 0 | 0 |
| 7 | DIAG1 | PY | -.002 | -.002 | 0 | 0 |
| 8 | DIAG2 | PY | -.002 | -.002 | 0 | 0 |
| 9 | DIAG3 | PY | -.002 | -.002 | 0 | 0 |
| 10 | DIAG4 | PY | -.002 | -.002 | 0 | 0 |
| 11 | DIAG5 | PY | -.002 | -.002 | 0 | 0 |
| 12 | DIAG6 | PY | -.002 | -.002 | 0 | 0 |
| 13 | FACE3A | PY | -.007 | -.007 | 0 | 0 |
| 14 | FACE3B | PY | -.007 | -.007 | 0 | 0 |
| 15 | FACE2A | PY | -.013 | -.013 | 0 | 0 |
| 16 | FACE2B | PY | -.013 | -.013 | 0 | 0 |
| 17 | FACE1A | PY | -.013 | -.013 | 0 | 0 |
| 18 | FACE1B | PY | -.013 | -.013 | 0 | 0 |
| 19 | HORIZ1 | PY | -.002 | -.002 | 0 | 0 |
| 20 | HORIZ2 | PY | -.002 | -.002 | 0 | 0 |
| 21 | HORIZ3 | PY | -.002 | -.002 | 0 | 0 |
| 22 | LADDER1 | PY | -.002 | -.002 | 0 | 0 |
| 23 | LADDER2 | PY | -.002 | -.002 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.005 | -.005 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.005 | -.005 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.004 | -.004 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 28 | MP ALPHA3 | PY | -.004 | -.004 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.004 | -.004 | 0 | 0 |
| 30 | MP BETA1 | PY | -.004 | -.004 | 0 | 0 |
| 31 | MP BETA2 | PY | -.004 | -.004 | 0 | 0 |
| 32 | MP BETA3 | PY | -.004 | -.004 | 0 | 0 |
| 33 | MP BETA4 | PY | -.004 | -.004 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.004 | -.004 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.004 | -.004 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.004 | -.004 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.004 | -.004 | 0 | 0 |
| 38 | PLATE1 | PY | -.000496 | -.000496 | 0 | 0 |
| 39 | PLATE2 | PY | -.000496 | -.000496 | 0 | 0 |
| 40 | PLATE3 | PY | -.000496 | -.000496 | 0 | 0 |
| 41 | RAIL3 | PY | -.004 | -.004 | 0 | 0 |
| 42 | RAIL2 | PY | -.008 | -.008 | 0 | 0 |
| 43 | RAIL1 | PY | -.008 | -.008 | 0 | 0 |
| 44 | RUNG1 | PY | -.000294 | -.000294 | 0 | 0 |
| 45 | RUNG2 | PY | -.000294 | -.000294 | 0 | 0 |
| 46 | RUNG3 | PY | -.000294 | -.000294 | 0 | 0 |
| 47 | RUNG4 | PY | -.000294 | -.000294 | 0 | 0 |
| 48 | RUNG5 | PY | -.000294 | -.000294 | 0 | 0 |
| 49 | RUNG6 | PY | -.000294 | -.000294 | 0 | 0 |
| 50 | RUNG7 | PY | -.000294 | -.000294 | 0 | 0 |
| 51 | SP1 | PY | -.000496 | -.000496 | 0 | 0 |
| 52 | SP2 | PY | -.000496 | -.000496 | 0 | 0 |
| 53 | SP3 | PY | -.000496 | -.000496 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.007 | -.007 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.007 | -.007 | 0 | 0 |
| 56 | VERT1 | PY | -.002 | -.002 | 0 | 0 |
| 57 | VERT2 | PY | -.002 | -.002 | 0 | 0 |
| 58 | VERT3 | PY | -.002 | -.002 | 0 | 0 |
| 59 | VERT4 | PY | -.002 | -.002 | 0 | 0 |
| 60 | VERT5 | PY | -.002 | -.002 | 0 | 0 |
| 61 | VERT6 | PY | -.002 | -.002 | 0 | 0 |
| 62 | VERT7 | PY | -.002 | -.002 | 0 | 0 |
| 63 | VERT8 | PY | -.002 | -.002 | 0 | 0 |
| 64 | VERT9 | PY | -.002 | -.002 | 0 | 0 |
| 65 | VERT10 | PY | -.002 | -.002 | 0 | 0 |
| 66 | VERT11 | PY | -.002 | -.002 | 0 | 0 |
| 67 | VERT12 | PY | -.002 | -.002 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .007 | .007 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .007 | .007 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .007 | .007 | 0 | 0 |
| 71 | CORNER1 | PX | .011 | .011 | 0 | 0 |
| 72 | CORNER2 | PX | .011 | .011 | 0 | 0 |
| 73 | CORNER3 | PX | .011 | .011 | 0 | 0 |
| 74 | DIAG1 | PX | .004 | .004 | 0 | 0 |
| 75 | DIAG2 | PX | .004 | .004 | 0 | 0 |
| 76 | DIAG3 | PX | .004 | .004 | 0 | 0 |
| 77 | DIAG4 | PX | .004 | .004 | 0 | 0 |
| 78 | DIAG5 | PX | .004 | .004 | 0 | 0 |
| 79 | DIAG6 | PX | .004 | .004 | 0 | 0 |
| 80 | FACE3A | PX | .011 | .011 | 0 | 0 |
| 81 | FACE3B | PX | .011 | .011 | 0 | 0 |
| 82 | FACE2A | PX | .023 | .023 | 0 | 0 |
| 83 | FACE2B | PX | .023 | .023 | 0 | 0 |
| 84 | FACE1A | PX | .023 | .023 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 85 | FACE1B | PX | .023 | .023 | 0 | 0 |
| 86 | HORIZ1 | PX | .004 | .004 | 0 | 0 |
| 87 | HORIZ2 | PX | .004 | .004 | 0 | 0 |
| 88 | HORIZ3 | PX | .004 | .004 | 0 | 0 |
| 89 | LADDER1 | PX | .004 | .004 | 0 | 0 |
| 90 | LADDER2 | PX | .004 | .004 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .009 | .009 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .009 | .009 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .007 | .007 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .007 | .007 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .007 | .007 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .007 | .007 | 0 | 0 |
| 97 | MP BETA1 | PX | .007 | .007 | 0 | 0 |
| 98 | MP BETA2 | PX | .007 | .007 | 0 | 0 |
| 99 | MP BETA3 | PX | .007 | .007 | 0 | 0 |
| 100 | MP BETA4 | PX | .007 | .007 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .007 | .007 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .007 | .007 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .007 | .007 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .007 | .007 | 0 | 0 |
| 105 | PLATE1 | PX | .000859 | .000859 | 0 | 0 |
| 106 | PLATE2 | PX | .000859 | .000859 | 0 | 0 |
| 107 | PLATE3 | PX | .000859 | .000859 | 0 | 0 |
| 108 | RAIL3 | PX | .007 | .007 | 0 | 0 |
| 109 | RAIL2 | PX | .014 | .014 | 0 | 0 |
| 110 | RAIL1 | PX | .014 | .014 | 0 | 0 |
| 111 | RUNG1 | PX | .00051 | .00051 | 0 | 0 |
| 112 | RUNG2 | PX | .00051 | .00051 | 0 | 0 |
| 113 | RUNG3 | PX | .00051 | .00051 | 0 | 0 |
| 114 | RUNG4 | PX | .00051 | .00051 | 0 | 0 |
| 115 | RUNG5 | PX | .00051 | .00051 | 0 | 0 |
| 116 | RUNG6 | PX | .00051 | .00051 | 0 | 0 |
| 117 | RUNG7 | PX | .00051 | .00051 | 0 | 0 |
| 118 | SP1 | PX | .000859 | .000859 | 0 | 0 |
| 119 | SP2 | PX | .000859 | .000859 | 0 | 0 |
| 120 | SP3 | PX | .000859 | .000859 | 0 | 0 |
| 121 | SUPPORT1 | PX | .011 | .011 | 0 | 0 |
| 122 | SUPPORT2 | PX | .011 | .011 | 0 | 0 |
| 123 | VERT1 | PX | .004 | .004 | 0 | 0 |
| 124 | VERT2 | PX | .004 | .004 | 0 | 0 |
| 125 | VERT3 | PX | .004 | .004 | 0 | 0 |
| 126 | VERT4 | PX | .004 | .004 | 0 | 0 |
| 127 | VERT5 | PX | .004 | .004 | 0 | 0 |
| 128 | VERT6 | PX | .004 | .004 | 0 | 0 |
| 129 | VERT7 | PX | .004 | .004 | 0 | 0 |
| 130 | VERT8 | PX | .004 | .004 | 0 | 0 |
| 131 | VERT9 | PX | .004 | .004 | 0 | 0 |
| 132 | VERT10 | PX | .004 | .004 | 0 | 0 |
| 133 | VERT11 | PX | .004 | .004 | 0 | 0 |
| 134 | VERT12 | PX | .004 | .004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.007 | -.007 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.007 | -.007 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.007 | -.007 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 4 | CORNER1 | PY | -.011 | -.011 | 0 | 0 |
| 5 | CORNER2 | PY | -.011 | -.011 | 0 | 0 |
| 6 | CORNER3 | PY | -.011 | -.011 | 0 | 0 |
| 7 | DIAG1 | PY | -.004 | -.004 | 0 | 0 |
| 8 | DIAG2 | PY | -.004 | -.004 | 0 | 0 |
| 9 | DIAG3 | PY | -.004 | -.004 | 0 | 0 |
| 10 | DIAG4 | PY | -.004 | -.004 | 0 | 0 |
| 11 | DIAG5 | PY | -.004 | -.004 | 0 | 0 |
| 12 | DIAG6 | PY | -.004 | -.004 | 0 | 0 |
| 13 | FACE1A | PY | -.011 | -.011 | 0 | 0 |
| 14 | FACE1B | PY | -.011 | -.011 | 0 | 0 |
| 15 | FACE2A | PY | -.023 | -.023 | 0 | 0 |
| 16 | FACE2B | PY | -.023 | -.023 | 0 | 0 |
| 17 | FACE3A | PY | -.023 | -.023 | 0 | 0 |
| 18 | FACE3B | PY | -.023 | -.023 | 0 | 0 |
| 19 | HORIZ1 | PY | -.004 | -.004 | 0 | 0 |
| 20 | HORIZ2 | PY | -.004 | -.004 | 0 | 0 |
| 21 | HORIZ3 | PY | -.004 | -.004 | 0 | 0 |
| 22 | LADDER1 | PY | -.004 | -.004 | 0 | 0 |
| 23 | LADDER2 | PY | -.004 | -.004 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.009 | -.009 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.009 | -.009 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.007 | -.007 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.007 | -.007 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.007 | -.007 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.007 | -.007 | 0 | 0 |
| 30 | MP BETA1 | PY | -.007 | -.007 | 0 | 0 |
| 31 | MP BETA2 | PY | -.007 | -.007 | 0 | 0 |
| 32 | MP BETA3 | PY | -.007 | -.007 | 0 | 0 |
| 33 | MP BETA4 | PY | -.007 | -.007 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.007 | -.007 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.007 | -.007 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.007 | -.007 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.007 | -.007 | 0 | 0 |
| 38 | PLATE1 | PY | -.000859 | -.000859 | 0 | 0 |
| 39 | PLATE2 | PY | -.000859 | -.000859 | 0 | 0 |
| 40 | PLATE3 | PY | -.000859 | -.000859 | 0 | 0 |
| 41 | RAIL1 | PY | -.007 | -.007 | 0 | 0 |
| 42 | RAIL2 | PY | -.014 | -.014 | 0 | 0 |
| 43 | RAIL3 | PY | -.014 | -.014 | 0 | 0 |
| 44 | RUNG1 | PY | -.00051 | -.00051 | 0 | 0 |
| 45 | RUNG2 | PY | -.00051 | -.00051 | 0 | 0 |
| 46 | RUNG3 | PY | -.00051 | -.00051 | 0 | 0 |
| 47 | RUNG4 | PY | -.00051 | -.00051 | 0 | 0 |
| 48 | RUNG5 | PY | -.00051 | -.00051 | 0 | 0 |
| 49 | RUNG6 | PY | -.00051 | -.00051 | 0 | 0 |
| 50 | RUNG7 | PY | -.00051 | -.00051 | 0 | 0 |
| 51 | SP1 | PY | -.000859 | -.000859 | 0 | 0 |
| 52 | SP2 | PY | -.000859 | -.000859 | 0 | 0 |
| 53 | SP3 | PY | -.000859 | -.000859 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.011 | -.011 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.011 | -.011 | 0 | 0 |
| 56 | VERT1 | PY | -.004 | -.004 | 0 | 0 |
| 57 | VERT2 | PY | -.004 | -.004 | 0 | 0 |
| 58 | VERT3 | PY | -.004 | -.004 | 0 | 0 |
| 59 | VERT4 | PY | -.004 | -.004 | 0 | 0 |
| 60 | VERT5 | PY | -.004 | -.004 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 61 | VERT6 | PY | -.004 | -.004 | 0 | 0 |
| 62 | VERT7 | PY | -.004 | -.004 | 0 | 0 |
| 63 | VERT8 | PY | -.004 | -.004 | 0 | 0 |
| 64 | VERT9 | PY | -.004 | -.004 | 0 | 0 |
| 65 | VERT10 | PY | -.004 | -.004 | 0 | 0 |
| 66 | VERT11 | PY | -.004 | -.004 | 0 | 0 |
| 67 | VERT12 | PY | -.004 | -.004 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .004 | .004 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .004 | .004 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .004 | .004 | 0 | 0 |
| 71 | CORNER1 | PX | .007 | .007 | 0 | 0 |
| 72 | CORNER2 | PX | .007 | .007 | 0 | 0 |
| 73 | CORNER3 | PX | .007 | .007 | 0 | 0 |
| 74 | DIAG1 | PX | .002 | .002 | 0 | 0 |
| 75 | DIAG2 | PX | .002 | .002 | 0 | 0 |
| 76 | DIAG3 | PX | .002 | .002 | 0 | 0 |
| 77 | DIAG4 | PX | .002 | .002 | 0 | 0 |
| 78 | DIAG5 | PX | .002 | .002 | 0 | 0 |
| 79 | DIAG6 | PX | .002 | .002 | 0 | 0 |
| 80 | FACE1A | PX | .007 | .007 | 0 | 0 |
| 81 | FACE1B | PX | .007 | .007 | 0 | 0 |
| 82 | FACE2A | PX | .013 | .013 | 0 | 0 |
| 83 | FACE2B | PX | .013 | .013 | 0 | 0 |
| 84 | FACE3A | PX | .013 | .013 | 0 | 0 |
| 85 | FACE3B | PX | .013 | .013 | 0 | 0 |
| 86 | HORIZ1 | PX | .002 | .002 | 0 | 0 |
| 87 | HORIZ2 | PX | .002 | .002 | 0 | 0 |
| 88 | HORIZ3 | PX | .002 | .002 | 0 | 0 |
| 89 | LADDER1 | PX | .002 | .002 | 0 | 0 |
| 90 | LADDER2 | PX | .002 | .002 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .005 | .005 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .005 | .005 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .004 | .004 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .004 | .004 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .004 | .004 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .004 | .004 | 0 | 0 |
| 97 | MP BETA1 | PX | .004 | .004 | 0 | 0 |
| 98 | MP BETA2 | PX | .004 | .004 | 0 | 0 |
| 99 | MP BETA3 | PX | .004 | .004 | 0 | 0 |
| 100 | MP BETA4 | PX | .004 | .004 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .004 | .004 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .004 | .004 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .004 | .004 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .004 | .004 | 0 | 0 |
| 105 | PLATE1 | PX | .000496 | .000496 | 0 | 0 |
| 106 | PLATE2 | PX | .000496 | .000496 | 0 | 0 |
| 107 | PLATE3 | PX | .000496 | .000496 | 0 | 0 |
| 108 | RAIL1 | PX | .004 | .004 | 0 | 0 |
| 109 | RAIL2 | PX | .008 | .008 | 0 | 0 |
| 110 | RAIL3 | PX | .008 | .008 | 0 | 0 |
| 111 | RUNG1 | PX | .000294 | .000294 | 0 | 0 |
| 112 | RUNG2 | PX | .000294 | .000294 | 0 | 0 |
| 113 | RUNG3 | PX | .000294 | .000294 | 0 | 0 |
| 114 | RUNG4 | PX | .000294 | .000294 | 0 | 0 |
| 115 | RUNG5 | PX | .000294 | .000294 | 0 | 0 |
| 116 | RUNG6 | PX | .000294 | .000294 | 0 | 0 |
| 117 | RUNG7 | PX | .000294 | .000294 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 118 | SP1 | PX | .000496 | .000496 | 0 | 0 |
| 119 | SP2 | PX | .000496 | .000496 | 0 | 0 |
| 120 | SP3 | PX | .000496 | .000496 | 0 | 0 |
| 121 | SUPPORT1 | PX | .007 | .007 | 0 | 0 |
| 122 | SUPPORT2 | PX | .007 | .007 | 0 | 0 |
| 123 | VERT1 | PX | .002 | .002 | 0 | 0 |
| 124 | VERT2 | PX | .002 | .002 | 0 | 0 |
| 125 | VERT3 | PX | .002 | .002 | 0 | 0 |
| 126 | VERT4 | PX | .002 | .002 | 0 | 0 |
| 127 | VERT5 | PX | .002 | .002 | 0 | 0 |
| 128 | VERT6 | PX | .002 | .002 | 0 | 0 |
| 129 | VERT7 | PX | .002 | .002 | 0 | 0 |
| 130 | VERT8 | PX | .002 | .002 | 0 | 0 |
| 131 | VERT9 | PX | .002 | .002 | 0 | 0 |
| 132 | VERT10 | PX | .002 | .002 | 0 | 0 |
| 133 | VERT11 | PX | .002 | .002 | 0 | 0 |
| 134 | VERT12 | PX | .002 | .002 | 0 | 0 |

## Member Distributed Loads (BLC 15 : Maintanence (0))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.000513 | -.000513 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.000513 | -.000513 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.000513 | -.000513 | 0 | 0 |
| 4 | CORNER1 | PY | -.000855 | -.000855 | 0 | 0 |
| 5 | CORNER2 | PY | -.000855 | -.000855 | 0 | 0 |
| 6 | CORNER3 | PY | -.000855 | -.000855 | 0 | 0 |
| 7 | DIAG1 | PY | -.000299 | -.000299 | 0 | 0 |
| 8 | DIAG2 | PY | -.000299 | -.000299 | 0 | 0 |
| 9 | DIAG3 | PY | -.000299 | -.000299 | 0 | 0 |
| 10 | DIAG4 | PY | -.000299 | -.000299 | 0 | 0 |
| 11 | DIAG5 | PY | -.000299 | -.000299 | 0 | 0 |
| 12 | DIAG6 | PY | -.000299 | -.000299 | 0 | 0 |
| 13 | FACE1A | PY | -.000855 | -.000855 | 0 | 0 |
| 14 | FACE1B | PY | -.000855 | -.000855 | 0 | 0 |
| 15 | FACE2A | PY | -.002 | -.002 | 0 | 0 |
| 16 | FACE2B | PY | -.002 | -.002 | 0 | 0 |
| 17 | FACE3A | PY | -.002 | -.002 | 0 | 0 |
| 18 | FACE3B | PY | -.002 | -.002 | 0 | 0 |
| 19 | HORIZ1 | PY | -.000299 | -.000299 | 0 | 0 |
| 20 | HORIZ2 | PY | -.000299 | -.000299 | 0 | 0 |
| 21 | HORIZ3 | PY | -.000299 | -.000299 | 0 | 0 |
| 22 | LADDER1 | PY | -.000299 | -.000299 | 0 | 0 |
| 23 | LADDER2 | PY | -.000299 | -.000299 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.000684 | -.000684 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.000684 | -.000684 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.000487 | -.000487 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.000487 | -.000487 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.000487 | -.000487 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.000487 | -.000487 | 0 | 0 |
| 30 | MP BETA1 | PY | -.000487 | -.000487 | 0 | 0 |
| 31 | MP BETA2 | PY | -.000487 | -.000487 | 0 | 0 |
| 32 | MP BETA3 | PY | -.000487 | -.000487 | 0 | 0 |
| 33 | MP BETA4 | PY | -.000487 | -.000487 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.000487 | -.000487 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.000487 | -.000487 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.000487 | -.000487 | 0 | 0 |

## Member Distributed Loads (BLC 15 : Maintanence (0)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | MP GAMMA4 | PY | -.000487 | -.000487 | 0 | 0 |
| 38 | PLATE1 | PY | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 39 | PLATE2 | PY | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 40 | PLATE3 | PY | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 41 | RAIL1 | PY | -.000513 | -.000513 | 0 | 0 |
| 42 | RAIL2 | PY | -.001 | -.001 | 0 | 0 |
| 43 | RAIL3 | PY | -.001 | -.001 | 0 | 0 |
| 44 | RUNG1 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 45 | RUNG2 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 46 | RUNG3 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 47 | RUNG4 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 48 | RUNG5 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 49 | RUNG6 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 50 | RUNG7 | PY | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 51 | SP1 | PY | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 52 | SP2 | PY | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 53 | SP3 | PY | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.000855 | -.000855 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.000855 | -.000855 | 0 | 0 |
| 56 | VERT1 | PY | -.000299 | -.000299 | 0 | 0 |
| 57 | VERT2 | PY | -.000299 | -.000299 | 0 | 0 |
| 58 | VERT3 | PY | -.000299 | -.000299 | 0 | 0 |
| 59 | VERT4 | PY | -.000299 | -.000299 | 0 | 0 |
| 60 | VERT5 | PY | -.000299 | -.000299 | 0 | 0 |
| 61 | VERT6 | PY | -.000299 | -.000299 | 0 | 0 |
| 62 | VERT7 | PY | -.000299 | -.000299 | 0 | 0 |
| 63 | VERT8 | PY | -.000299 | -.000299 | 0 | 0 |
| 64 | VERT9 | PY | -.000299 | -.000299 | 0 | 0 |
| 65 | VERT10 | PY | -.000299 | -.000299 | 0 | 0 |
| 66 | VERT11 | PY | -.000299 | -.000299 | 0 | 0 |
| 67 | VERT12 | PY | -.000299 | -.000299 | 0 | 0 |

## Member Distributed Loads (BLC 16 : Maintanence (30))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.000444 | -.000444 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.000444 | -.000444 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.000444 | -.000444 | 0 | 0 |
| 4 | CORNER1 | PY | -.00074 | -.00074 | 0 | 0 |
| 5 | CORNER2 | PY | -.00074 | -.00074 | 0 | 0 |
| 6 | CORNER3 | PY | -.00074 | -.00074 | 0 | 0 |
| 7 | DIAG1 | PY | -.000259 | -.000259 | 0 | 0 |
| 8 | DIAG2 | PY | -.000259 | -.000259 | 0 | 0 |
| 9 | DIAG3 | PY | -.000259 | -.000259 | 0 | 0 |
| 10 | DIAG4 | PY | -.000259 | -.000259 | 0 | 0 |
| 11 | DIAG5 | PY | -.000259 | -.000259 | 0 | 0 |
| 12 | DIAG6 | PY | -.000259 | -.000259 | 0 | 0 |
| 13 | FACE1A | PY | -.00074 | -.00074 | 0 | 0 |
| 14 | FACE1B | PY | -.00074 | -.00074 | 0 | 0 |
| 15 | FACE2A | PY | -.001 | -.001 | 0 | 0 |
| 16 | FACE2B | PY | -.001 | -.001 | 0 | 0 |
| 17 | FACE3A | PY | -.001 | -.001 | 0 | 0 |
| 18 | FACE3B | PY | -.001 | -.001 | 0 | 0 |
| 19 | HORIZ1 | PY | -.000259 | -.000259 | 0 | 0 |
| 20 | HORIZ2 | PY | -.000259 | -.000259 | 0 | 0 |
| 21 | HORIZ3 | PY | -.000259 | -.000259 | 0 | 0 |
| 22 | LADDER1 | PY | -.000259 | -.000259 | 0 | 0 |

## Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 23 | LADDER2 | PY | -.000259 | -.000259 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.000592 | -.000592 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.000592 | -.000592 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.000422 | -.000422 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.000422 | -.000422 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.000422 | -.000422 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.000422 | -.000422 | 0 | 0 |
| 30 | MP BETA1 | PY | -.000422 | -.000422 | 0 | 0 |
| 31 | MP BETA2 | PY | -.000422 | -.000422 | 0 | 0 |
| 32 | MP BETA3 | PY | -.000422 | -.000422 | 0 | 0 |
| 33 | MP BETA4 | PY | -.000422 | -.000422 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.000422 | -.000422 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.000422 | -.000422 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.000422 | -.000422 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.000422 | -.000422 | 0 | 0 |
| 38 | PLATE1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 39 | PLATE2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 40 | PLATE3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 41 | RAIL1 | PY | -.000444 | -.000444 | 0 | 0 |
| 42 | RAIL2 | PY | -.000888 | -.000888 | 0 | 0 |
| 43 | RAIL3 | PY | -.000888 | -.000888 | 0 | 0 |
| 44 | RUNG1 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 45 | RUNG2 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 46 | RUNG3 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 47 | RUNG4 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 48 | RUNG5 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 49 | RUNG6 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 50 | RUNG7 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 51 | SP1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 52 | SP2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 53 | SP3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.00074 | -.00074 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.00074 | -.00074 | 0 | 0 |
| 56 | VERT1 | PY | -.000259 | -.000259 | 0 | 0 |
| 57 | VERT2 | PY | -.000259 | -.000259 | 0 | 0 |
| 58 | VERT3 | PY | -.000259 | -.000259 | 0 | 0 |
| 59 | VERT4 | PY | -.000259 | -.000259 | 0 | 0 |
| 60 | VERT5 | PY | -.000259 | -.000259 | 0 | 0 |
| 61 | VERT6 | PY | -.000259 | -.000259 | 0 | 0 |
| 62 | VERT7 | PY | -.000259 | -.000259 | 0 | 0 |
| 63 | VERT8 | PY | -.000259 | -.000259 | 0 | 0 |
| 64 | VERT9 | PY | -.000259 | -.000259 | 0 | 0 |
| 65 | VERT10 | PY | -.000259 | -.000259 | 0 | 0 |
| 66 | VERT11 | PY | -.000259 | -.000259 | 0 | 0 |
| 67 | VERT12 | PY | -.000259 | -.000259 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.000256 | -.000256 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.000256 | -.000256 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.000256 | -.000256 | 0 | 0 |
| 71 | CORNER1 | PX | -.000427 | -.000427 | 0 | 0 |
| 72 | CORNER2 | PX | -.000427 | -.000427 | 0 | 0 |
| 73 | CORNER3 | PX | -.000427 | -.000427 | 0 | 0 |
| 74 | DIAG1 | PX | -.00015 | -.00015 | 0 | 0 |
| 75 | DIAG2 | PX | -.00015 | -.00015 | 0 | 0 |
| 76 | DIAG3 | PX | -.00015 | -.00015 | 0 | 0 |
| 77 | DIAG4 | PX | -.00015 | -.00015 | 0 | 0 |
| 78 | DIAG5 | PX | -.00015 | -.00015 | 0 | 0 |
| 79 | DIAG6 | PX | -.00015 | -.00015 | 0 | 0 |

## Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 80 | FACE1A | PX | -.000427 | -.000427 | 0 | 0 |
| 81 | FACE1B | PX | -.000427 | -.000427 | 0 | 0 |
| 82 | FACE2A | PX | -.000855 | -.000855 | 0 | 0 |
| 83 | FACE2B | PX | -.000855 | -.000855 | 0 | 0 |
| 84 | FACE3A | PX | -.000855 | -.000855 | 0 | 0 |
| 85 | FACE3B | PX | -.000855 | -.000855 | 0 | 0 |
| 86 | HORIZ1 | PX | -.00015 | -.00015 | 0 | 0 |
| 87 | HORIZ2 | PX | -.00015 | -.00015 | 0 | 0 |
| 88 | HORIZ3 | PX | -.00015 | -.00015 | 0 | 0 |
| 89 | LADDER1 | PX | -.00015 | -.00015 | 0 | 0 |
| 90 | LADDER2 | PX | -.00015 | -.00015 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.000342 | -.000342 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.000342 | -.000342 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.000244 | -.000244 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.000244 | -.000244 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.000244 | -.000244 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.000244 | -.000244 | 0 | 0 |
| 97 | MP BETA1 | PX | -.000244 | -.000244 | 0 | 0 |
| 98 | MP BETA2 | PX | -.000244 | -.000244 | 0 | 0 |
| 99 | MP BETA3 | PX | -.000244 | -.000244 | 0 | 0 |
| 100 | MP BETA4 | PX | -.000244 | -.000244 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.000244 | -.000244 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.000244 | -.000244 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.000244 | -.000244 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.000244 | -.000244 | 0 | 0 |
| 105 | PLATE1 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 106 | PLATE2 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 107 | PLATE3 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 108 | RAIL1 | PX | -.000256 | -.000256 | 0 | 0 |
| 109 | RAIL2 | PX | -.000513 | -.000513 | 0 | 0 |
| 110 | RAIL3 | PX | -.000513 | -.000513 | 0 | 0 |
| 111 | RUNG1 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 112 | RUNG2 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 113 | RUNG3 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 114 | RUNG4 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 115 | RUNG5 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 116 | RUNG6 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 117 | RUNG7 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 118 | SP1 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 119 | SP2 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 120 | SP3 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.000427 | -.000427 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.000427 | -.000427 | 0 | 0 |
| 123 | VERT1 | PX | -.00015 | -.00015 | 0 | 0 |
| 124 | VERT2 | PX | -.00015 | -.00015 | 0 | 0 |
| 125 | VERT3 | PX | -.00015 | -.00015 | 0 | 0 |
| 126 | VERT4 | PX | -.00015 | -.00015 | 0 | 0 |
| 127 | VERT5 | PX | -.00015 | -.00015 | 0 | 0 |
| 128 | VERT6 | PX | -.00015 | -.00015 | 0 | 0 |
| 129 | VERT7 | PX | -.00015 | -.00015 | 0 | 0 |
| 130 | VERT8 | PX | -.00015 | -.00015 | 0 | 0 |
| 131 | VERT9 | PX | -.00015 | -.00015 | 0 | 0 |
| 132 | VERT10 | PX | -.00015 | -.00015 | 0 | 0 |
| 133 | VERT11 | PX | -.00015 | -.00015 | 0 | 0 |
| 134 | VERT12 | PX | -.00015 | -.00015 | 0 | 0 |

## Member Distributed Loads (BLC 17 : Maintanence (60))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.000256 | -.000256 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.000256 | -.000256 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.000256 | -.000256 | 0 | 0 |
| 4 | CORNER1 | PY | -.000427 | -.000427 | 0 | 0 |
| 5 | CORNER2 | PY | -.000427 | -.000427 | 0 | 0 |
| 6 | CORNER3 | PY | -.000427 | -.000427 | 0 | 0 |
| 7 | DIAG1 | PY | -.00015 | -.00015 | 0 | 0 |
| 8 | DIAG2 | PY | -.00015 | -.00015 | 0 | 0 |
| 9 | DIAG3 | PY | -.00015 | -.00015 | 0 | 0 |
| 10 | DIAG4 | PY | -.00015 | -.00015 | 0 | 0 |
| 11 | DIAG5 | PY | -.00015 | -.00015 | 0 | 0 |
| 12 | DIAG6 | PY | -.00015 | -.00015 | 0 | 0 |
| 13 | FACE1A | PY | -.000427 | -.000427 | 0 | 0 |
| 14 | FACE1B | PY | -.000427 | -.000427 | 0 | 0 |
| 15 | FACE2A | PY | -.000855 | -.000855 | 0 | 0 |
| 16 | FACE2B | PY | -.000855 | -.000855 | 0 | 0 |
| 17 | FACE3A | PY | -.000855 | -.000855 | 0 | 0 |
| 18 | FACE3B | PY | -.000855 | -.000855 | 0 | 0 |
| 19 | HORIZ1 | PY | -.00015 | -.00015 | 0 | 0 |
| 20 | HORIZ2 | PY | -.00015 | -.00015 | 0 | 0 |
| 21 | HORIZ3 | PY | -.00015 | -.00015 | 0 | 0 |
| 22 | LADDER1 | PY | -.00015 | -.00015 | 0 | 0 |
| 23 | LADDER2 | PY | -.00015 | -.00015 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.000342 | -.000342 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.000342 | -.000342 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.000244 | -.000244 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.000244 | -.000244 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.000244 | -.000244 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.000244 | -.000244 | 0 | 0 |
| 30 | MP BETA1 | PY | -.000244 | -.000244 | 0 | 0 |
| 31 | MP BETA2 | PY | -.000244 | -.000244 | 0 | 0 |
| 32 | MP BETA3 | PY | -.000244 | -.000244 | 0 | 0 |
| 33 | MP BETA4 | PY | -.000244 | -.000244 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.000244 | -.000244 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.000244 | -.000244 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.000244 | -.000244 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.000244 | -.000244 | 0 | 0 |
| 38 | PLATE1 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 39 | PLATE2 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 40 | PLATE3 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 41 | RAIL1 | PY | -.000256 | -.000256 | 0 | 0 |
| 42 | RAIL2 | PY | -.000513 | -.000513 | 0 | 0 |
| 43 | RAIL3 | PY | -.000513 | -.000513 | 0 | 0 |
| 44 | RUNG1 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 45 | RUNG2 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 46 | RUNG3 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 47 | RUNG4 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 48 | RUNG5 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 49 | RUNG6 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 50 | RUNG7 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 51 | SP1 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 52 | SP2 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 53 | SP3 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.000427 | -.000427 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.000427 | -.000427 | 0 | 0 |
| 56 | VERT1 | PY | -.00015 | -.00015 | 0 | 0 |
| 57 | VERT2 | PY | -.00015 | -.00015 | 0 | 0 |

## Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | VERT3 | PY | -.00015 | -.00015 | 0 | 0 |
| 59 | VERT4 | PY | -.00015 | -.00015 | 0 | 0 |
| 60 | VERT5 | PY | -.00015 | -.00015 | 0 | 0 |
| 61 | VERT6 | PY | -.00015 | -.00015 | 0 | 0 |
| 62 | VERT7 | PY | -.00015 | -.00015 | 0 | 0 |
| 63 | VERT8 | PY | -.00015 | -.00015 | 0 | 0 |
| 64 | VERT9 | PY | -.00015 | -.00015 | 0 | 0 |
| 65 | VERT10 | PY | -.00015 | -.00015 | 0 | 0 |
| 66 | VERT11 | PY | -.00015 | -.00015 | 0 | 0 |
| 67 | VERT12 | PY | -.00015 | -.00015 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.000444 | -.000444 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.000444 | -.000444 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.000444 | -.000444 | 0 | 0 |
| 71 | CORNER1 | PX | -.00074 | -.00074 | 0 | 0 |
| 72 | CORNER2 | PX | -.00074 | -.00074 | 0 | 0 |
| 73 | CORNER3 | PX | -.00074 | -.00074 | 0 | 0 |
| 74 | DIAG1 | PX | -.000259 | -.000259 | 0 | 0 |
| 75 | DIAG2 | PX | -.000259 | -.000259 | 0 | 0 |
| 76 | DIAG3 | PX | -.000259 | -.000259 | 0 | 0 |
| 77 | DIAG4 | PX | -.000259 | -.000259 | 0 | 0 |
| 78 | DIAG5 | PX | -.000259 | -.000259 | 0 | 0 |
| 79 | DIAG6 | PX | -.000259 | -.000259 | 0 | 0 |
| 80 | FACE1A | PX | -.00074 | -.00074 | 0 | 0 |
| 81 | FACE1B | PX | -.00074 | -.00074 | 0 | 0 |
| 82 | FACE2A | PX | -.001 | -.001 | 0 | 0 |
| 83 | FACE2B | PX | -.001 | -.001 | 0 | 0 |
| 84 | FACE3A | PX | -.001 | -.001 | 0 | 0 |
| 85 | FACE3B | PX | -.001 | -.001 | 0 | 0 |
| 86 | HORIZ1 | PX | -.000259 | -.000259 | 0 | 0 |
| 87 | HORIZ2 | PX | -.000259 | -.000259 | 0 | 0 |
| 88 | HORIZ3 | PX | -.000259 | -.000259 | 0 | 0 |
| 89 | LADDER1 | PX | -.000259 | -.000259 | 0 | 0 |
| 90 | LADDER2 | PX | -.000259 | -.000259 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.000592 | -.000592 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.000592 | -.000592 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.000422 | -.000422 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.000422 | -.000422 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.000422 | -.000422 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.000422 | -.000422 | 0 | 0 |
| 97 | MP BETA1 | PX | -.000422 | -.000422 | 0 | 0 |
| 98 | MP BETA2 | PX | -.000422 | -.000422 | 0 | 0 |
| 99 | MP BETA3 | PX | -.000422 | -.000422 | 0 | 0 |
| 100 | MP BETA4 | PX | -.000422 | -.000422 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.000422 | -.000422 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.000422 | -.000422 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.000422 | -.000422 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.000422 | -.000422 | 0 | 0 |
| 105 | PLATE1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 106 | PLATE2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 107 | PLATE3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 108 | RAIL1 | PX | -.000444 | -.000444 | 0 | 0 |
| 109 | RAIL2 | PX | -.000888 | -.000888 | 0 | 0 |
| 110 | RAIL3 | PX | -.000888 | -.000888 | 0 | 0 |
| 111 | RUNG1 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 112 | RUNG2 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 113 | RUNG3 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 114 | RUNG4 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |

## Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 115 | RUNG5 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 116 | RUNG6 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 117 | RUNG7 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 118 | SP1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 119 | SP2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 120 | SP3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.00074 | -.00074 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.00074 | -.00074 | 0 | 0 |
| 123 | VERT1 | PX | -.000259 | -.000259 | 0 | 0 |
| 124 | VERT2 | PX | -.000259 | -.000259 | 0 | 0 |
| 125 | VERT3 | PX | -.000259 | -.000259 | 0 | 0 |
| 126 | VERT4 | PX | -.000259 | -.000259 | 0 | 0 |
| 127 | VERT5 | PX | -.000259 | -.000259 | 0 | 0 |
| 128 | VERT6 | PX | -.000259 | -.000259 | 0 | 0 |
| 129 | VERT7 | PX | -.000259 | -.000259 | 0 | 0 |
| 130 | VERT8 | PX | -.000259 | -.000259 | 0 | 0 |
| 131 | VERT9 | PX | -.000259 | -.000259 | 0 | 0 |
| 132 | VERT10 | PX | -.000259 | -.000259 | 0 | 0 |
| 133 | VERT11 | PX | -.000259 | -.000259 | 0 | 0 |
| 134 | VERT12 | PX | -.000259 | -.000259 | 0 | 0 |

## Member Distributed Loads (BLC 18 : Maintanence (90))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PX | -.000513 | -.000513 | 0 | 0 |
| 2 | CONNANGLE2 | PX | -.000513 | -.000513 | 0 | 0 |
| 3 | CONNANGLE3 | PX | -.000513 | -.000513 | 0 | 0 |
| 4 | CORNER1 | PX | -.000855 | -.000855 | 0 | 0 |
| 5 | CORNER2 | PX | -.000855 | -.000855 | 0 | 0 |
| 6 | CORNER3 | PX | -.000855 | -.000855 | 0 | 0 |
| 7 | DIAG1 | PX | -.000299 | -.000299 | 0 | 0 |
| 8 | DIAG2 | PX | -.000299 | -.000299 | 0 | 0 |
| 9 | DIAG3 | PX | -.000299 | -.000299 | 0 | 0 |
| 10 | DIAG4 | PX | -.000299 | -.000299 | 0 | 0 |
| 11 | DIAG5 | PX | -.000299 | -.000299 | 0 | 0 |
| 12 | DIAG6 | PX | -.000299 | -.000299 | 0 | 0 |
| 13 | FACE2A | PX | -.000855 | -.000855 | 0 | 0 |
| 14 | FACE2B | PX | -.000855 | -.000855 | 0 | 0 |
| 15 | FACE3A | PX | -.002 | -.002 | 0 | 0 |
| 16 | FACE3B | PX | -.002 | -.002 | 0 | 0 |
| 17 | FACE1A | PX | -.002 | -.002 | 0 | 0 |
| 18 | FACE1B | PX | -.002 | -.002 | 0 | 0 |
| 19 | HORIZ1 | PX | -.000299 | -.000299 | 0 | 0 |
| 20 | HORIZ2 | PX | -.000299 | -.000299 | 0 | 0 |
| 21 | HORIZ3 | PX | -.000299 | -.000299 | 0 | 0 |
| 22 | LADDER1 | PX | -.000299 | -.000299 | 0 | 0 |
| 23 | LADDER2 | PX | -.000299 | -.000299 | 0 | 0 |
| 24 | LADDERPLATE1 | PX | -.000684 | -.000684 | 0 | 0 |
| 25 | LADDERPLATE2 | PX | -.000684 | -.000684 | 0 | 0 |
| 26 | MP ALPHA1 | PX | -.000487 | -.000487 | 0 | 0 |
| 27 | MP ALPHA2 | PX | -.000487 | -.000487 | 0 | 0 |
| 28 | MP ALPHA3 | PX | -.000487 | -.000487 | 0 | 0 |
| 29 | MP ALPHA4 | PX | -.000487 | -.000487 | 0 | 0 |
| 30 | MP BETA1 | PX | -.000487 | -.000487 | 0 | 0 |
| 31 | MP BETA2 | PX | -.000487 | -.000487 | 0 | 0 |
| 32 | MP BETA3 | PX | -.000487 | -.000487 | 0 | 0 |
| 33 | MP BETA4 | PX | -.000487 | -.000487 | 0 | 0 |

## Member Distributed Loads (BLC 18 : Maintanence (90)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 34 | MP GAMMA1 | PX | -.000487 | -.000487 | 0 | 0 |
| 35 | MP GAMMA2 | PX | -.000487 | -.000487 | 0 | 0 |
| 36 | MP GAMMA3 | PX | -.000487 | -.000487 | 0 | 0 |
| 37 | MP GAMMA4 | PX | -.000487 | -.000487 | 0 | 0 |
| 38 | PLATE1 | PX | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 39 | PLATE2 | PX | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 40 | PLATE3 | PX | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 41 | RAIL2 | PX | -.000513 | -.000513 | 0 | 0 |
| 42 | RAIL1 | PX | -.001 | -.001 | 0 | 0 |
| 43 | RAIL3 | PX | -.001 | -.001 | 0 | 0 |
| 44 | RUNG1 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 45 | RUNG2 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 46 | RUNG3 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 47 | RUNG4 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 48 | RUNG5 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 49 | RUNG6 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 50 | RUNG7 | PX | -3.8e-5 | -3.8e-5 | 0 | 0 |
| 51 | SP1 | PX | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 52 | SP2 | PX | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 53 | SP3 | PX | -6.4e-5 | -6.4e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.000855 | -.000855 | 0 | 0 |
| 55 | SUPPORT2 | PX | -.000855 | -.000855 | 0 | 0 |
| 56 | VERT1 | PX | -.000299 | -.000299 | 0 | 0 |
| 57 | VERT2 | PX | -.000299 | -.000299 | 0 | 0 |
| 58 | VERT3 | PX | -.000299 | -.000299 | 0 | 0 |
| 59 | VERT4 | PX | -.000299 | -.000299 | 0 | 0 |
| 60 | VERT5 | PX | -.000299 | -.000299 | 0 | 0 |
| 61 | VERT6 | PX | -.000299 | -.000299 | 0 | 0 |
| 62 | VERT7 | PX | -.000299 | -.000299 | 0 | 0 |
| 63 | VERT8 | PX | -.000299 | -.000299 | 0 | 0 |
| 64 | VERT9 | PX | -.000299 | -.000299 | 0 | 0 |
| 65 | VERT10 | PX | -.000299 | -.000299 | 0 | 0 |
| 66 | VERT11 | PX | -.000299 | -.000299 | 0 | 0 |
| 67 | VERT12 | PX | -.000299 | -.000299 | 0 | 0 |

## Member Distributed Loads (BLC 19 : Maintanence (120))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .000256 | .000256 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .000256 | .000256 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .000256 | .000256 | 0 | 0 |
| 4 | CORNER1 | PY | .000427 | .000427 | 0 | 0 |
| 5 | CORNER2 | PY | .000427 | .000427 | 0 | 0 |
| 6 | CORNER3 | PY | .000427 | .000427 | 0 | 0 |
| 7 | DIAG1 | PY | .00015 | .00015 | 0 | 0 |
| 8 | DIAG2 | PY | .00015 | .00015 | 0 | 0 |
| 9 | DIAG3 | PY | .00015 | .00015 | 0 | 0 |
| 10 | DIAG4 | PY | .00015 | .00015 | 0 | 0 |
| 11 | DIAG5 | PY | .00015 | .00015 | 0 | 0 |
| 12 | DIAG6 | PY | .00015 | .00015 | 0 | 0 |
| 13 | FACE2A | PY | .000427 | .000427 | 0 | 0 |
| 14 | FACE2B | PY | .000427 | .000427 | 0 | 0 |
| 15 | FACE3A | PY | .000855 | .000855 | 0 | 0 |
| 16 | FACE3B | PY | .000855 | .000855 | 0 | 0 |
| 17 | FACE1A | PY | .000855 | .000855 | 0 | 0 |
| 18 | FACE1B | PY | .000855 | .000855 | 0 | 0 |
| 19 | HORIZ1 | PY | .00015 | .00015 | 0 | 0 |

## Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 20 | HORIZ2 | PY | .00015 | .00015 | 0 | 0 |
| 21 | HORIZ3 | PY | .00015 | .00015 | 0 | 0 |
| 22 | LADDER1 | PY | .00015 | .00015 | 0 | 0 |
| 23 | LADDER2 | PY | .00015 | .00015 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .000342 | .000342 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .000342 | .000342 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .000244 | .000244 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .000244 | .000244 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .000244 | .000244 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .000244 | .000244 | 0 | 0 |
| 30 | MP BETA1 | PY | .000244 | .000244 | 0 | 0 |
| 31 | MP BETA2 | PY | .000244 | .000244 | 0 | 0 |
| 32 | MP BETA3 | PY | .000244 | .000244 | 0 | 0 |
| 33 | MP BETA4 | PY | .000244 | .000244 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .000244 | .000244 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .000244 | .000244 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .000244 | .000244 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .000244 | .000244 | 0 | 0 |
| 38 | PLATE1 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 39 | PLATE2 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 40 | PLATE3 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 41 | RAIL2 | PY | .000256 | .000256 | 0 | 0 |
| 42 | RAIL1 | PY | .000513 | .000513 | 0 | 0 |
| 43 | RAIL3 | PY | .000513 | .000513 | 0 | 0 |
| 44 | RUNG1 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 45 | RUNG2 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 46 | RUNG3 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 47 | RUNG4 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 48 | RUNG5 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 49 | RUNG6 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 50 | RUNG7 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 51 | SP1 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 52 | SP2 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 53 | SP3 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | .000427 | .000427 | 0 | 0 |
| 55 | SUPPORT2 | PY | .000427 | .000427 | 0 | 0 |
| 56 | VERT1 | PY | .00015 | .00015 | 0 | 0 |
| 57 | VERT2 | PY | .00015 | .00015 | 0 | 0 |
| 58 | VERT3 | PY | .00015 | .00015 | 0 | 0 |
| 59 | VERT4 | PY | .00015 | .00015 | 0 | 0 |
| 60 | VERT5 | PY | .00015 | .00015 | 0 | 0 |
| 61 | VERT6 | PY | .00015 | .00015 | 0 | 0 |
| 62 | VERT7 | PY | .00015 | .00015 | 0 | 0 |
| 63 | VERT8 | PY | .00015 | .00015 | 0 | 0 |
| 64 | VERT9 | PY | .00015 | .00015 | 0 | 0 |
| 65 | VERT10 | PY | .00015 | .00015 | 0 | 0 |
| 66 | VERT11 | PY | .00015 | .00015 | 0 | 0 |
| 67 | VERT12 | PY | .00015 | .00015 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.000444 | -.000444 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.000444 | -.000444 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.000444 | -.000444 | 0 | 0 |
| 71 | CORNER1 | PX | -.00074 | -.00074 | 0 | 0 |
| 72 | CORNER2 | PX | -.00074 | -.00074 | 0 | 0 |
| 73 | CORNER3 | PX | -.00074 | -.00074 | 0 | 0 |
| 74 | DIAG1 | PX | -.000259 | -.000259 | 0 | 0 |
| 75 | DIAG2 | PX | -.000259 | -.000259 | 0 | 0 |
| 76 | DIAG3 | PX | -.000259 | -.000259 | 0 | 0 |

## Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 77 | DIAG4 | PX | -.000259 | -.000259 | 0 | 0 |
| 78 | DIAG5 | PX | -.000259 | -.000259 | 0 | 0 |
| 79 | DIAG6 | PX | -.000259 | -.000259 | 0 | 0 |
| 80 | FACE2A | PX | -.00074 | -.00074 | 0 | 0 |
| 81 | FACE2B | PX | -.00074 | -.00074 | 0 | 0 |
| 82 | FACE3A | PX | -.001 | -.001 | 0 | 0 |
| 83 | FACE3B | PX | -.001 | -.001 | 0 | 0 |
| 84 | FACE1A | PX | -.001 | -.001 | 0 | 0 |
| 85 | FACE1B | PX | -.001 | -.001 | 0 | 0 |
| 86 | HORIZ1 | PX | -.000259 | -.000259 | 0 | 0 |
| 87 | HORIZ2 | PX | -.000259 | -.000259 | 0 | 0 |
| 88 | HORIZ3 | PX | -.000259 | -.000259 | 0 | 0 |
| 89 | LADDER1 | PX | -.000259 | -.000259 | 0 | 0 |
| 90 | LADDER2 | PX | -.000259 | -.000259 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.000592 | -.000592 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.000592 | -.000592 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.000422 | -.000422 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.000422 | -.000422 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.000422 | -.000422 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.000422 | -.000422 | 0 | 0 |
| 97 | MP BETA1 | PX | -.000422 | -.000422 | 0 | 0 |
| 98 | MP BETA2 | PX | -.000422 | -.000422 | 0 | 0 |
| 99 | MP BETA3 | PX | -.000422 | -.000422 | 0 | 0 |
| 100 | MP BETA4 | PX | -.000422 | -.000422 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.000422 | -.000422 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.000422 | -.000422 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.000422 | -.000422 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.000422 | -.000422 | 0 | 0 |
| 105 | PLATE1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 106 | PLATE2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 107 | PLATE3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 108 | RAIL2 | PX | -.000444 | -.000444 | 0 | 0 |
| 109 | RAIL1 | PX | -.000888 | -.000888 | 0 | 0 |
| 110 | RAIL3 | PX | -.000888 | -.000888 | 0 | 0 |
| 111 | RUNG1 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 112 | RUNG2 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 113 | RUNG3 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 114 | RUNG4 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 115 | RUNG5 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 116 | RUNG6 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 117 | RUNG7 | PX | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 118 | SP1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 119 | SP2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 120 | SP3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.00074 | -.00074 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.00074 | -.00074 | 0 | 0 |
| 123 | VERT1 | PX | -.000259 | -.000259 | 0 | 0 |
| 124 | VERT2 | PX | -.000259 | -.000259 | 0 | 0 |
| 125 | VERT3 | PX | -.000259 | -.000259 | 0 | 0 |
| 126 | VERT4 | PX | -.000259 | -.000259 | 0 | 0 |
| 127 | VERT5 | PX | -.000259 | -.000259 | 0 | 0 |
| 128 | VERT6 | PX | -.000259 | -.000259 | 0 | 0 |
| 129 | VERT7 | PX | -.000259 | -.000259 | 0 | 0 |
| 130 | VERT8 | PX | -.000259 | -.000259 | 0 | 0 |
| 131 | VERT9 | PX | -.000259 | -.000259 | 0 | 0 |
| 132 | VERT10 | PX | -.000259 | -.000259 | 0 | 0 |
| 133 | VERT11 | PX | -.000259 | -.000259 | 0 | 0 |

## Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 134 | VERT12 | PX | -.000259 | -.000259 | 0 | 0 |

## Member Distributed Loads (BLC 20 : Maintanence (150))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .000444 | .000444 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .000444 | .000444 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .000444 | .000444 | 0 | 0 |
| 4 | CORNER1 | PY | .00074 | .00074 | 0 | 0 |
| 5 | CORNER2 | PY | .00074 | .00074 | 0 | 0 |
| 6 | CORNER3 | PY | .00074 | .00074 | 0 | 0 |
| 7 | DIAG1 | PY | .000259 | .000259 | 0 | 0 |
| 8 | DIAG2 | PY | .000259 | .000259 | 0 | 0 |
| 9 | DIAG3 | PY | .000259 | .000259 | 0 | 0 |
| 10 | DIAG4 | PY | .000259 | .000259 | 0 | 0 |
| 11 | DIAG5 | PY | .000259 | .000259 | 0 | 0 |
| 12 | DIAG6 | PY | .000259 | .000259 | 0 | 0 |
| 13 | FACE2A | PY | .00074 | .00074 | 0 | 0 |
| 14 | FACE2B | PY | .00074 | .00074 | 0 | 0 |
| 15 | FACE3A | PY | .001 | .001 | 0 | 0 |
| 16 | FACE3B | PY | .001 | .001 | 0 | 0 |
| 17 | FACE1A | PY | .001 | .001 | 0 | 0 |
| 18 | FACE1B | PY | .001 | .001 | 0 | 0 |
| 19 | HORIZ1 | PY | .000259 | .000259 | 0 | 0 |
| 20 | HORIZ2 | PY | .000259 | .000259 | 0 | 0 |
| 21 | HORIZ3 | PY | .000259 | .000259 | 0 | 0 |
| 22 | LADDER1 | PY | .000259 | .000259 | 0 | 0 |
| 23 | LADDER2 | PY | .000259 | .000259 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .000592 | .000592 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .000592 | .000592 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .000422 | .000422 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .000422 | .000422 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .000422 | .000422 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .000422 | .000422 | 0 | 0 |
| 30 | MP BETA1 | PY | .000422 | .000422 | 0 | 0 |
| 31 | MP BETA2 | PY | .000422 | .000422 | 0 | 0 |
| 32 | MP BETA3 | PY | .000422 | .000422 | 0 | 0 |
| 33 | MP BETA4 | PY | .000422 | .000422 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .000422 | .000422 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .000422 | .000422 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .000422 | .000422 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .000422 | .000422 | 0 | 0 |
| 38 | PLATE1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 39 | PLATE2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 40 | PLATE3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 41 | RAIL2 | PY | .000444 | .000444 | 0 | 0 |
| 42 | RAIL1 | PY | .000888 | .000888 | 0 | 0 |
| 43 | RAIL3 | PY | .000888 | .000888 | 0 | 0 |
| 44 | RUNG1 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 45 | RUNG2 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 46 | RUNG3 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 47 | RUNG4 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 48 | RUNG5 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 49 | RUNG6 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 50 | RUNG7 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 51 | SP1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 52 | SP2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |

## Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 53 | SP3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | .00074 | .00074 | 0 | 0 |
| 55 | SUPPORT2 | PY | .00074 | .00074 | 0 | 0 |
| 56 | VERT1 | PY | .000259 | .000259 | 0 | 0 |
| 57 | VERT2 | PY | .000259 | .000259 | 0 | 0 |
| 58 | VERT3 | PY | .000259 | .000259 | 0 | 0 |
| 59 | VERT4 | PY | .000259 | .000259 | 0 | 0 |
| 60 | VERT5 | PY | .000259 | .000259 | 0 | 0 |
| 61 | VERT6 | PY | .000259 | .000259 | 0 | 0 |
| 62 | VERT7 | PY | .000259 | .000259 | 0 | 0 |
| 63 | VERT8 | PY | .000259 | .000259 | 0 | 0 |
| 64 | VERT9 | PY | .000259 | .000259 | 0 | 0 |
| 65 | VERT10 | PY | .000259 | .000259 | 0 | 0 |
| 66 | VERT11 | PY | .000259 | .000259 | 0 | 0 |
| 67 | VERT12 | PY | .000259 | .000259 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.000256 | -.000256 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.000256 | -.000256 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.000256 | -.000256 | 0 | 0 |
| 71 | CORNER1 | PX | -.000427 | -.000427 | 0 | 0 |
| 72 | CORNER2 | PX | -.000427 | -.000427 | 0 | 0 |
| 73 | CORNER3 | PX | -.000427 | -.000427 | 0 | 0 |
| 74 | DIAG1 | PX | -.00015 | -.00015 | 0 | 0 |
| 75 | DIAG2 | PX | -.00015 | -.00015 | 0 | 0 |
| 76 | DIAG3 | PX | -.00015 | -.00015 | 0 | 0 |
| 77 | DIAG4 | PX | -.00015 | -.00015 | 0 | 0 |
| 78 | DIAG5 | PX | -.00015 | -.00015 | 0 | 0 |
| 79 | DIAG6 | PX | -.00015 | -.00015 | 0 | 0 |
| 80 | FACE2A | PX | -.000427 | -.000427 | 0 | 0 |
| 81 | FACE2B | PX | -.000427 | -.000427 | 0 | 0 |
| 82 | FACE3A | PX | -.000855 | -.000855 | 0 | 0 |
| 83 | FACE3B | PX | -.000855 | -.000855 | 0 | 0 |
| 84 | FACE1A | PX | -.000855 | -.000855 | 0 | 0 |
| 85 | FACE1B | PX | -.000855 | -.000855 | 0 | 0 |
| 86 | HORIZ1 | PX | -.00015 | -.00015 | 0 | 0 |
| 87 | HORIZ2 | PX | -.00015 | -.00015 | 0 | 0 |
| 88 | HORIZ3 | PX | -.00015 | -.00015 | 0 | 0 |
| 89 | LADDER1 | PX | -.00015 | -.00015 | 0 | 0 |
| 90 | LADDER2 | PX | -.00015 | -.00015 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.000342 | -.000342 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.000342 | -.000342 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.000244 | -.000244 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.000244 | -.000244 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.000244 | -.000244 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.000244 | -.000244 | 0 | 0 |
| 97 | MP BETA1 | PX | -.000244 | -.000244 | 0 | 0 |
| 98 | MP BETA2 | PX | -.000244 | -.000244 | 0 | 0 |
| 99 | MP BETA3 | PX | -.000244 | -.000244 | 0 | 0 |
| 100 | MP BETA4 | PX | -.000244 | -.000244 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.000244 | -.000244 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.000244 | -.000244 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.000244 | -.000244 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.000244 | -.000244 | 0 | 0 |
| 105 | PLATE1 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 106 | PLATE2 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 107 | PLATE3 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 108 | RAIL2 | PX | -.000256 | -.000256 | 0 | 0 |
| 109 | RAIL1 | PX | -.000513 | -.000513 | 0 | 0 |

## Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 110 | RAIL3 | PX | -.000513 | -.000513 | 0 | 0 |
| 111 | RUNG1 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 112 | RUNG2 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 113 | RUNG3 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 114 | RUNG4 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 115 | RUNG5 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 116 | RUNG6 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 117 | RUNG7 | PX | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 118 | SP1 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 119 | SP2 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 120 | SP3 | PX | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.000427 | -.000427 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.000427 | -.000427 | 0 | 0 |
| 123 | VERT1 | PX | -.00015 | -.00015 | 0 | 0 |
| 124 | VERT2 | PX | -.00015 | -.00015 | 0 | 0 |
| 125 | VERT3 | PX | -.00015 | -.00015 | 0 | 0 |
| 126 | VERT4 | PX | -.00015 | -.00015 | 0 | 0 |
| 127 | VERT5 | PX | -.00015 | -.00015 | 0 | 0 |
| 128 | VERT6 | PX | -.00015 | -.00015 | 0 | 0 |
| 129 | VERT7 | PX | -.00015 | -.00015 | 0 | 0 |
| 130 | VERT8 | PX | -.00015 | -.00015 | 0 | 0 |
| 131 | VERT9 | PX | -.00015 | -.00015 | 0 | 0 |
| 132 | VERT10 | PX | -.00015 | -.00015 | 0 | 0 |
| 133 | VERT11 | PX | -.00015 | -.00015 | 0 | 0 |
| 134 | VERT12 | PX | -.00015 | -.00015 | 0 | 0 |

## Member Distributed Loads (BLC 21 : Maintanence (180))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .000513 | .000513 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .000513 | .000513 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .000513 | .000513 | 0 | 0 |
| 4 | CORNER1 | PY | .000855 | .000855 | 0 | 0 |
| 5 | CORNER2 | PY | .000855 | .000855 | 0 | 0 |
| 6 | CORNER3 | PY | .000855 | .000855 | 0 | 0 |
| 7 | DIAG1 | PY | .000299 | .000299 | 0 | 0 |
| 8 | DIAG2 | PY | .000299 | .000299 | 0 | 0 |
| 9 | DIAG3 | PY | .000299 | .000299 | 0 | 0 |
| 10 | DIAG4 | PY | .000299 | .000299 | 0 | 0 |
| 11 | DIAG5 | PY | .000299 | .000299 | 0 | 0 |
| 12 | DIAG6 | PY | .000299 | .000299 | 0 | 0 |
| 13 | FACE2A | PY | .000855 | .000855 | 0 | 0 |
| 14 | FACE2B | PY | .000855 | .000855 | 0 | 0 |
| 15 | FACE3A | PY | .002 | .002 | 0 | 0 |
| 16 | FACE3B | PY | .002 | .002 | 0 | 0 |
| 17 | FACE1A | PY | .002 | .002 | 0 | 0 |
| 18 | FACE1B | PY | .002 | .002 | 0 | 0 |
| 19 | HORIZ1 | PY | .000299 | .000299 | 0 | 0 |
| 20 | HORIZ2 | PY | .000299 | .000299 | 0 | 0 |
| 21 | HORIZ3 | PY | .000299 | .000299 | 0 | 0 |
| 22 | LADDER1 | PY | .000299 | .000299 | 0 | 0 |
| 23 | LADDER2 | PY | .000299 | .000299 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .000684 | .000684 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .000684 | .000684 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .000487 | .000487 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .000487 | .000487 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .000487 | .000487 | 0 | 0 |

## Member Distributed Loads (BLC 21 : Maintanence (180)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 29 | MP ALPHA4 | PY | .000487 | .000487 | 0 | 0 |
| 30 | MP BETA1 | PY | .000487 | .000487 | 0 | 0 |
| 31 | MP BETA2 | PY | .000487 | .000487 | 0 | 0 |
| 32 | MP BETA3 | PY | .000487 | .000487 | 0 | 0 |
| 33 | MP BETA4 | PY | .000487 | .000487 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .000487 | .000487 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .000487 | .000487 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .000487 | .000487 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .000487 | .000487 | 0 | 0 |
| 38 | PLATE1 | PY | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 39 | PLATE2 | PY | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 40 | PLATE3 | PY | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 41 | RAIL2 | PY | .000513 | .000513 | 0 | 0 |
| 42 | RAIL1 | PY | .001 | .001 | 0 | 0 |
| 43 | RAIL3 | PY | .001 | .001 | 0 | 0 |
| 44 | RUNG1 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 45 | RUNG2 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 46 | RUNG3 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 47 | RUNG4 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 48 | RUNG5 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 49 | RUNG6 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 50 | RUNG7 | PY | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 51 | SP1 | PY | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 52 | SP2 | PY | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 53 | SP3 | PY | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | .000855 | .000855 | 0 | 0 |
| 55 | SUPPORT2 | PY | .000855 | .000855 | 0 | 0 |
| 56 | VERT1 | PY | .000299 | .000299 | 0 | 0 |
| 57 | VERT2 | PY | .000299 | .000299 | 0 | 0 |
| 58 | VERT3 | PY | .000299 | .000299 | 0 | 0 |
| 59 | VERT4 | PY | .000299 | .000299 | 0 | 0 |
| 60 | VERT5 | PY | .000299 | .000299 | 0 | 0 |
| 61 | VERT6 | PY | .000299 | .000299 | 0 | 0 |
| 62 | VERT7 | PY | .000299 | .000299 | 0 | 0 |
| 63 | VERT8 | PY | .000299 | .000299 | 0 | 0 |
| 64 | VERT9 | PY | .000299 | .000299 | 0 | 0 |
| 65 | VERT10 | PY | .000299 | .000299 | 0 | 0 |
| 66 | VERT11 | PY | .000299 | .000299 | 0 | 0 |
| 67 | VERT12 | PY | .000299 | .000299 | 0 | 0 |

## Member Distributed Loads (BLC 22 : Maintanence (210))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .000444 | .000444 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .000444 | .000444 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .000444 | .000444 | 0 | 0 |
| 4 | CORNER1 | PY | .00074 | .00074 | 0 | 0 |
| 5 | CORNER2 | PY | .00074 | .00074 | 0 | 0 |
| 6 | CORNER3 | PY | .00074 | .00074 | 0 | 0 |
| 7 | DIAG1 | PY | .000259 | .000259 | 0 | 0 |
| 8 | DIAG2 | PY | .000259 | .000259 | 0 | 0 |
| 9 | DIAG3 | PY | .000259 | .000259 | 0 | 0 |
| 10 | DIAG4 | PY | .000259 | .000259 | 0 | 0 |
| 11 | DIAG5 | PY | .000259 | .000259 | 0 | 0 |
| 12 | DIAG6 | PY | .000259 | .000259 | 0 | 0 |
| 13 | FACE3A | PY | .00074 | .00074 | 0 | 0 |
| 14 | FACE3B | PY | .00074 | .00074 | 0 | 0 |

## Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 15 | FACE2A | PY | .001 | .001 | 0 | 0 |
| 16 | FACE2B | PY | .001 | .001 | 0 | 0 |
| 17 | FACE1A | PY | .001 | .001 | 0 | 0 |
| 18 | FACE1B | PY | .001 | .001 | 0 | 0 |
| 19 | HORIZ1 | PY | .000259 | .000259 | 0 | 0 |
| 20 | HORIZ2 | PY | .000259 | .000259 | 0 | 0 |
| 21 | HORIZ3 | PY | .000259 | .000259 | 0 | 0 |
| 22 | LADDER1 | PY | .000259 | .000259 | 0 | 0 |
| 23 | LADDER2 | PY | .000259 | .000259 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .000592 | .000592 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .000592 | .000592 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .000422 | .000422 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .000422 | .000422 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .000422 | .000422 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .000422 | .000422 | 0 | 0 |
| 30 | MP BETA1 | PY | .000422 | .000422 | 0 | 0 |
| 31 | MP BETA2 | PY | .000422 | .000422 | 0 | 0 |
| 32 | MP BETA3 | PY | .000422 | .000422 | 0 | 0 |
| 33 | MP BETA4 | PY | .000422 | .000422 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .000422 | .000422 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .000422 | .000422 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .000422 | .000422 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .000422 | .000422 | 0 | 0 |
| 38 | PLATE1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 39 | PLATE2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 40 | PLATE3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 41 | RAIL3 | PY | .000444 | .000444 | 0 | 0 |
| 42 | RAIL2 | PY | .000888 | .000888 | 0 | 0 |
| 43 | RAIL1 | PY | .000888 | .000888 | 0 | 0 |
| 44 | RUNG1 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 45 | RUNG2 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 46 | RUNG3 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 47 | RUNG4 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 48 | RUNG5 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 49 | RUNG6 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 50 | RUNG7 | PY | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 51 | SP1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 52 | SP2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 53 | SP3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | .00074 | .00074 | 0 | 0 |
| 55 | SUPPORT2 | PY | .00074 | .00074 | 0 | 0 |
| 56 | VERT1 | PY | .000259 | .000259 | 0 | 0 |
| 57 | VERT2 | PY | .000259 | .000259 | 0 | 0 |
| 58 | VERT3 | PY | .000259 | .000259 | 0 | 0 |
| 59 | VERT4 | PY | .000259 | .000259 | 0 | 0 |
| 60 | VERT5 | PY | .000259 | .000259 | 0 | 0 |
| 61 | VERT6 | PY | .000259 | .000259 | 0 | 0 |
| 62 | VERT7 | PY | .000259 | .000259 | 0 | 0 |
| 63 | VERT8 | PY | .000259 | .000259 | 0 | 0 |
| 64 | VERT9 | PY | .000259 | .000259 | 0 | 0 |
| 65 | VERT10 | PY | .000259 | .000259 | 0 | 0 |
| 66 | VERT11 | PY | .000259 | .000259 | 0 | 0 |
| 67 | VERT12 | PY | .000259 | .000259 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .000256 | .000256 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .000256 | .000256 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .000256 | .000256 | 0 | 0 |
| 71 | CORNER1 | PX | .000427 | .000427 | 0 | 0 |

## Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 72 | CORNER2 | PX | .000427 | .000427 | 0 | 0 |
| 73 | CORNER3 | PX | .000427 | .000427 | 0 | 0 |
| 74 | DIAG1 | PX | .00015 | .00015 | 0 | 0 |
| 75 | DIAG2 | PX | .00015 | .00015 | 0 | 0 |
| 76 | DIAG3 | PX | .00015 | .00015 | 0 | 0 |
| 77 | DIAG4 | PX | .00015 | .00015 | 0 | 0 |
| 78 | DIAG5 | PX | .00015 | .00015 | 0 | 0 |
| 79 | DIAG6 | PX | .00015 | .00015 | 0 | 0 |
| 80 | FACE3A | PX | .000427 | .000427 | 0 | 0 |
| 81 | FACE3B | PX | .000427 | .000427 | 0 | 0 |
| 82 | FACE2A | PX | .000855 | .000855 | 0 | 0 |
| 83 | FACE2B | PX | .000855 | .000855 | 0 | 0 |
| 84 | FACE1A | PX | .000855 | .000855 | 0 | 0 |
| 85 | FACE1B | PX | .000855 | .000855 | 0 | 0 |
| 86 | HORIZ1 | PX | .00015 | .00015 | 0 | 0 |
| 87 | HORIZ2 | PX | .00015 | .00015 | 0 | 0 |
| 88 | HORIZ3 | PX | .00015 | .00015 | 0 | 0 |
| 89 | LADDER1 | PX | .00015 | .00015 | 0 | 0 |
| 90 | LADDER2 | PX | .00015 | .00015 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .000342 | .000342 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .000342 | .000342 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .000244 | .000244 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .000244 | .000244 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .000244 | .000244 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .000244 | .000244 | 0 | 0 |
| 97 | MP BETA1 | PX | .000244 | .000244 | 0 | 0 |
| 98 | MP BETA2 | PX | .000244 | .000244 | 0 | 0 |
| 99 | MP BETA3 | PX | .000244 | .000244 | 0 | 0 |
| 100 | MP BETA4 | PX | .000244 | .000244 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .000244 | .000244 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .000244 | .000244 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .000244 | .000244 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .000244 | .000244 | 0 | 0 |
| 105 | PLATE1 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 106 | PLATE2 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 107 | PLATE3 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 108 | RAIL3 | PX | .000256 | .000256 | 0 | 0 |
| 109 | RAIL2 | PX | .000513 | .000513 | 0 | 0 |
| 110 | RAIL1 | PX | .000513 | .000513 | 0 | 0 |
| 111 | RUNG1 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 112 | RUNG2 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 113 | RUNG3 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 114 | RUNG4 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 115 | RUNG5 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 116 | RUNG6 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 117 | RUNG7 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 118 | SP1 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 119 | SP2 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 120 | SP3 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | .000427 | .000427 | 0 | 0 |
| 122 | SUPPORT2 | PX | .000427 | .000427 | 0 | 0 |
| 123 | VERT1 | PX | .00015 | .00015 | 0 | 0 |
| 124 | VERT2 | PX | .00015 | .00015 | 0 | 0 |
| 125 | VERT3 | PX | .00015 | .00015 | 0 | 0 |
| 126 | VERT4 | PX | .00015 | .00015 | 0 | 0 |
| 127 | VERT5 | PX | .00015 | .00015 | 0 | 0 |
| 128 | VERT6 | PX | .00015 | .00015 | 0 | 0 |

## Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 129 | VERT7 | PX | .00015 | .00015 | 0 | 0 |
| 130 | VERT8 | PX | .00015 | .00015 | 0 | 0 |
| 131 | VERT9 | PX | .00015 | .00015 | 0 | 0 |
| 132 | VERT10 | PX | .00015 | .00015 | 0 | 0 |
| 133 | VERT11 | PX | .00015 | .00015 | 0 | 0 |
| 134 | VERT12 | PX | .00015 | .00015 | 0 | 0 |

## Member Distributed Loads (BLC 23 : Maintanence (240))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .000256 | .000256 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .000256 | .000256 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .000256 | .000256 | 0 | 0 |
| 4 | CORNER1 | PY | .000427 | .000427 | 0 | 0 |
| 5 | CORNER2 | PY | .000427 | .000427 | 0 | 0 |
| 6 | CORNER3 | PY | .000427 | .000427 | 0 | 0 |
| 7 | DIAG1 | PY | .00015 | .00015 | 0 | 0 |
| 8 | DIAG2 | PY | .00015 | .00015 | 0 | 0 |
| 9 | DIAG3 | PY | .00015 | .00015 | 0 | 0 |
| 10 | DIAG4 | PY | .00015 | .00015 | 0 | 0 |
| 11 | DIAG5 | PY | .00015 | .00015 | 0 | 0 |
| 12 | DIAG6 | PY | .00015 | .00015 | 0 | 0 |
| 13 | FACE3A | PY | .000427 | .000427 | 0 | 0 |
| 14 | FACE3B | PY | .000427 | .000427 | 0 | 0 |
| 15 | FACE2A | PY | .000855 | .000855 | 0 | 0 |
| 16 | FACE2B | PY | .000855 | .000855 | 0 | 0 |
| 17 | FACE1A | PY | .000855 | .000855 | 0 | 0 |
| 18 | FACE1B | PY | .000855 | .000855 | 0 | 0 |
| 19 | HORIZ1 | PY | .00015 | .00015 | 0 | 0 |
| 20 | HORIZ2 | PY | .00015 | .00015 | 0 | 0 |
| 21 | HORIZ3 | PY | .00015 | .00015 | 0 | 0 |
| 22 | LADDER1 | PY | .00015 | .00015 | 0 | 0 |
| 23 | LADDER2 | PY | .00015 | .00015 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .000342 | .000342 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .000342 | .000342 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .000244 | .000244 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .000244 | .000244 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .000244 | .000244 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .000244 | .000244 | 0 | 0 |
| 30 | MP BETA1 | PY | .000244 | .000244 | 0 | 0 |
| 31 | MP BETA2 | PY | .000244 | .000244 | 0 | 0 |
| 32 | MP BETA3 | PY | .000244 | .000244 | 0 | 0 |
| 33 | MP BETA4 | PY | .000244 | .000244 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .000244 | .000244 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .000244 | .000244 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .000244 | .000244 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .000244 | .000244 | 0 | 0 |
| 38 | PLATE1 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 39 | PLATE2 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 40 | PLATE3 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 41 | RAIL3 | PY | .000256 | .000256 | 0 | 0 |
| 42 | RAIL2 | PY | .000513 | .000513 | 0 | 0 |
| 43 | RAIL1 | PY | .000513 | .000513 | 0 | 0 |
| 44 | RUNG1 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 45 | RUNG2 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 46 | RUNG3 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 47 | RUNG4 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |

## Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 48 | RUNG5 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 49 | RUNG6 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 50 | RUNG7 | PY | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 51 | SP1 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 52 | SP2 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 53 | SP3 | PY | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | .000427 | .000427 | 0 | 0 |
| 55 | SUPPORT2 | PY | .000427 | .000427 | 0 | 0 |
| 56 | VERT1 | PY | .00015 | .00015 | 0 | 0 |
| 57 | VERT2 | PY | .00015 | .00015 | 0 | 0 |
| 58 | VERT3 | PY | .00015 | .00015 | 0 | 0 |
| 59 | VERT4 | PY | .00015 | .00015 | 0 | 0 |
| 60 | VERT5 | PY | .00015 | .00015 | 0 | 0 |
| 61 | VERT6 | PY | .00015 | .00015 | 0 | 0 |
| 62 | VERT7 | PY | .00015 | .00015 | 0 | 0 |
| 63 | VERT8 | PY | .00015 | .00015 | 0 | 0 |
| 64 | VERT9 | PY | .00015 | .00015 | 0 | 0 |
| 65 | VERT10 | PY | .00015 | .00015 | 0 | 0 |
| 66 | VERT11 | PY | .00015 | .00015 | 0 | 0 |
| 67 | VERT12 | PY | .00015 | .00015 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .000444 | .000444 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .000444 | .000444 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .000444 | .000444 | 0 | 0 |
| 71 | CORNER1 | PX | .00074 | .00074 | 0 | 0 |
| 72 | CORNER2 | PX | .00074 | .00074 | 0 | 0 |
| 73 | CORNER3 | PX | .00074 | .00074 | 0 | 0 |
| 74 | DIAG1 | PX | .000259 | .000259 | 0 | 0 |
| 75 | DIAG2 | PX | .000259 | .000259 | 0 | 0 |
| 76 | DIAG3 | PX | .000259 | .000259 | 0 | 0 |
| 77 | DIAG4 | PX | .000259 | .000259 | 0 | 0 |
| 78 | DIAG5 | PX | .000259 | .000259 | 0 | 0 |
| 79 | DIAG6 | PX | .000259 | .000259 | 0 | 0 |
| 80 | FACE3A | PX | .00074 | .00074 | 0 | 0 |
| 81 | FACE3B | PX | .00074 | .00074 | 0 | 0 |
| 82 | FACE2A | PX | .001 | .001 | 0 | 0 |
| 83 | FACE2B | PX | .001 | .001 | 0 | 0 |
| 84 | FACE1A | PX | .001 | .001 | 0 | 0 |
| 85 | FACE1B | PX | .001 | .001 | 0 | 0 |
| 86 | HORIZ1 | PX | .000259 | .000259 | 0 | 0 |
| 87 | HORIZ2 | PX | .000259 | .000259 | 0 | 0 |
| 88 | HORIZ3 | PX | .000259 | .000259 | 0 | 0 |
| 89 | LADDER1 | PX | .000259 | .000259 | 0 | 0 |
| 90 | LADDER2 | PX | .000259 | .000259 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .000592 | .000592 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .000592 | .000592 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .000422 | .000422 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .000422 | .000422 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .000422 | .000422 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .000422 | .000422 | 0 | 0 |
| 97 | MP BETA1 | PX | .000422 | .000422 | 0 | 0 |
| 98 | MP BETA2 | PX | .000422 | .000422 | 0 | 0 |
| 99 | MP BETA3 | PX | .000422 | .000422 | 0 | 0 |
| 100 | MP BETA4 | PX | .000422 | .000422 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .000422 | .000422 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .000422 | .000422 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .000422 | .000422 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .000422 | .000422 | 0 | 0 |

## Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 105 | PLATE1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 106 | PLATE2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 107 | PLATE3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 108 | RAIL3 | PX | .000444 | .000444 | 0 | 0 |
| 109 | RAIL2 | PX | .000888 | .000888 | 0 | 0 |
| 110 | RAIL1 | PX | .000888 | .000888 | 0 | 0 |
| 111 | RUNG1 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 112 | RUNG2 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 113 | RUNG3 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 114 | RUNG4 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 115 | RUNG5 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 116 | RUNG6 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 117 | RUNG7 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 118 | SP1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 119 | SP2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 120 | SP3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | .00074 | .00074 | 0 | 0 |
| 122 | SUPPORT2 | PX | .00074 | .00074 | 0 | 0 |
| 123 | VERT1 | PX | .000259 | .000259 | 0 | 0 |
| 124 | VERT2 | PX | .000259 | .000259 | 0 | 0 |
| 125 | VERT3 | PX | .000259 | .000259 | 0 | 0 |
| 126 | VERT4 | PX | .000259 | .000259 | 0 | 0 |
| 127 | VERT5 | PX | .000259 | .000259 | 0 | 0 |
| 128 | VERT6 | PX | .000259 | .000259 | 0 | 0 |
| 129 | VERT7 | PX | .000259 | .000259 | 0 | 0 |
| 130 | VERT8 | PX | .000259 | .000259 | 0 | 0 |
| 131 | VERT9 | PX | .000259 | .000259 | 0 | 0 |
| 132 | VERT10 | PX | .000259 | .000259 | 0 | 0 |
| 133 | VERT11 | PX | .000259 | .000259 | 0 | 0 |
| 134 | VERT12 | PX | .000259 | .000259 | 0 | 0 |

## Member Distributed Loads (BLC 24 : Maintanence (270))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PX | .000513 | .000513 | 0 | 0 |
| 2 | CONNANGLE2 | PX | .000513 | .000513 | 0 | 0 |
| 3 | CONNANGLE3 | PX | .000513 | .000513 | 0 | 0 |
| 4 | CORNER1 | PX | .000855 | .000855 | 0 | 0 |
| 5 | CORNER2 | PX | .000855 | .000855 | 0 | 0 |
| 6 | CORNER3 | PX | .000855 | .000855 | 0 | 0 |
| 7 | DIAG1 | PX | .000299 | .000299 | 0 | 0 |
| 8 | DIAG2 | PX | .000299 | .000299 | 0 | 0 |
| 9 | DIAG3 | PX | .000299 | .000299 | 0 | 0 |
| 10 | DIAG4 | PX | .000299 | .000299 | 0 | 0 |
| 11 | DIAG5 | PX | .000299 | .000299 | 0 | 0 |
| 12 | DIAG6 | PX | .000299 | .000299 | 0 | 0 |
| 13 | FACE3A | PX | .000855 | .000855 | 0 | 0 |
| 14 | FACE3B | PX | .000855 | .000855 | 0 | 0 |
| 15 | FACE2A | PX | .002 | .002 | 0 | 0 |
| 16 | FACE2B | PX | .002 | .002 | 0 | 0 |
| 17 | FACE1A | PX | .002 | .002 | 0 | 0 |
| 18 | FACE1B | PX | .002 | .002 | 0 | 0 |
| 19 | HORIZ1 | PX | .000299 | .000299 | 0 | 0 |
| 20 | HORIZ2 | PX | .000299 | .000299 | 0 | 0 |
| 21 | HORIZ3 | PX | .000299 | .000299 | 0 | 0 |
| 22 | LADDER1 | PX | .000299 | .000299 | 0 | 0 |
| 23 | LADDER2 | PX | .000299 | .000299 | 0 | 0 |

## Member Distributed Loads (BLC 24 : Maintanence (270)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 24 | LADDERPLATE1 | PX | .000684 | .000684 | 0 | 0 |
| 25 | LADDERPLATE2 | PX | .000684 | .000684 | 0 | 0 |
| 26 | MP ALPHA1 | PX | .000487 | .000487 | 0 | 0 |
| 27 | MP ALPHA2 | PX | .000487 | .000487 | 0 | 0 |
| 28 | MP ALPHA3 | PX | .000487 | .000487 | 0 | 0 |
| 29 | MP ALPHA4 | PX | .000487 | .000487 | 0 | 0 |
| 30 | MP BETA1 | PX | .000487 | .000487 | 0 | 0 |
| 31 | MP BETA2 | PX | .000487 | .000487 | 0 | 0 |
| 32 | MP BETA3 | PX | .000487 | .000487 | 0 | 0 |
| 33 | MP BETA4 | PX | .000487 | .000487 | 0 | 0 |
| 34 | MP GAMMA1 | PX | .000487 | .000487 | 0 | 0 |
| 35 | MP GAMMA2 | PX | .000487 | .000487 | 0 | 0 |
| 36 | MP GAMMA3 | PX | .000487 | .000487 | 0 | 0 |
| 37 | MP GAMMA4 | PX | .000487 | .000487 | 0 | 0 |
| 38 | PLATE1 | PX | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 39 | PLATE2 | PX | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 40 | PLATE3 | PX | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 41 | RAIL3 | PX | .000513 | .000513 | 0 | 0 |
| 42 | RAIL2 | PX | .001 | .001 | 0 | 0 |
| 43 | RAIL1 | PX | .001 | .001 | 0 | 0 |
| 44 | RUNG1 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 45 | RUNG2 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 46 | RUNG3 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 47 | RUNG4 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 48 | RUNG5 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 49 | RUNG6 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 50 | RUNG7 | PX | 3.8e-5 | 3.8e-5 | 0 | 0 |
| 51 | SP1 | PX | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 52 | SP2 | PX | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 53 | SP3 | PX | 6.4e-5 | 6.4e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | .000855 | .000855 | 0 | 0 |
| 55 | SUPPORT2 | PX | .000855 | .000855 | 0 | 0 |
| 56 | VERT1 | PX | .000299 | .000299 | 0 | 0 |
| 57 | VERT2 | PX | .000299 | .000299 | 0 | 0 |
| 58 | VERT3 | PX | .000299 | .000299 | 0 | 0 |
| 59 | VERT4 | PX | .000299 | .000299 | 0 | 0 |
| 60 | VERT5 | PX | .000299 | .000299 | 0 | 0 |
| 61 | VERT6 | PX | .000299 | .000299 | 0 | 0 |
| 62 | VERT7 | PX | .000299 | .000299 | 0 | 0 |
| 63 | VERT8 | PX | .000299 | .000299 | 0 | 0 |
| 64 | VERT9 | PX | .000299 | .000299 | 0 | 0 |
| 65 | VERT10 | PX | .000299 | .000299 | 0 | 0 |
| 66 | VERT11 | PX | .000299 | .000299 | 0 | 0 |
| 67 | VERT12 | PX | .000299 | .000299 | 0 | 0 |

## Member Distributed Loads (BLC 25 : Maintanence (300))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.000256 | -.000256 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.000256 | -.000256 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.000256 | -.000256 | 0 | 0 |
| 4 | CORNER1 | PY | -.000427 | -.000427 | 0 | 0 |
| 5 | CORNER2 | PY | -.000427 | -.000427 | 0 | 0 |
| 6 | CORNER3 | PY | -.000427 | -.000427 | 0 | 0 |
| 7 | DIAG1 | PY | -.00015 | -.00015 | 0 | 0 |
| 8 | DIAG2 | PY | -.00015 | -.00015 | 0 | 0 |
| 9 | DIAG3 | PY | -.00015 | -.00015 | 0 | 0 |

## Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 10 | DIAG4 | PY | -.00015 | -.00015 | 0 | 0 |
| 11 | DIAG5 | PY | -.00015 | -.00015 | 0 | 0 |
| 12 | DIAG6 | PY | -.00015 | -.00015 | 0 | 0 |
| 13 | FACE3A | PY | -.000427 | -.000427 | 0 | 0 |
| 14 | FACE3B | PY | -.000427 | -.000427 | 0 | 0 |
| 15 | FACE2A | PY | -.000855 | -.000855 | 0 | 0 |
| 16 | FACE2B | PY | -.000855 | -.000855 | 0 | 0 |
| 17 | FACE1A | PY | -.000855 | -.000855 | 0 | 0 |
| 18 | FACE1B | PY | -.000855 | -.000855 | 0 | 0 |
| 19 | HORIZ1 | PY | -.00015 | -.00015 | 0 | 0 |
| 20 | HORIZ2 | PY | -.00015 | -.00015 | 0 | 0 |
| 21 | HORIZ3 | PY | -.00015 | -.00015 | 0 | 0 |
| 22 | LADDER1 | PY | -.00015 | -.00015 | 0 | 0 |
| 23 | LADDER2 | PY | -.00015 | -.00015 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.000342 | -.000342 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.000342 | -.000342 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.000244 | -.000244 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.000244 | -.000244 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.000244 | -.000244 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.000244 | -.000244 | 0 | 0 |
| 30 | MP BETA1 | PY | -.000244 | -.000244 | 0 | 0 |
| 31 | MP BETA2 | PY | -.000244 | -.000244 | 0 | 0 |
| 32 | MP BETA3 | PY | -.000244 | -.000244 | 0 | 0 |
| 33 | MP BETA4 | PY | -.000244 | -.000244 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.000244 | -.000244 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.000244 | -.000244 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.000244 | -.000244 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.000244 | -.000244 | 0 | 0 |
| 38 | PLATE1 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 39 | PLATE2 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 40 | PLATE3 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 41 | RAIL3 | PY | -.000256 | -.000256 | 0 | 0 |
| 42 | RAIL2 | PY | -.000513 | -.000513 | 0 | 0 |
| 43 | RAIL1 | PY | -.000513 | -.000513 | 0 | 0 |
| 44 | RUNG1 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 45 | RUNG2 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 46 | RUNG3 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 47 | RUNG4 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 48 | RUNG5 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 49 | RUNG6 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 50 | RUNG7 | PY | -1.9e-5 | -1.9e-5 | 0 | 0 |
| 51 | SP1 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 52 | SP2 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 53 | SP3 | PY | -3.2e-5 | -3.2e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.000427 | -.000427 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.000427 | -.000427 | 0 | 0 |
| 56 | VERT1 | PY | -.00015 | -.00015 | 0 | 0 |
| 57 | VERT2 | PY | -.00015 | -.00015 | 0 | 0 |
| 58 | VERT3 | PY | -.00015 | -.00015 | 0 | 0 |
| 59 | VERT4 | PY | -.00015 | -.00015 | 0 | 0 |
| 60 | VERT5 | PY | -.00015 | -.00015 | 0 | 0 |
| 61 | VERT6 | PY | -.00015 | -.00015 | 0 | 0 |
| 62 | VERT7 | PY | -.00015 | -.00015 | 0 | 0 |
| 63 | VERT8 | PY | -.00015 | -.00015 | 0 | 0 |
| 64 | VERT9 | PY | -.00015 | -.00015 | 0 | 0 |
| 65 | VERT10 | PY | -.00015 | -.00015 | 0 | 0 |
| 66 | VERT11 | PY | -.00015 | -.00015 | 0 | 0 |

## Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 67 | VERT12 | PY | -.00015 | -.00015 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .000444 | .000444 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .000444 | .000444 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .000444 | .000444 | 0 | 0 |
| 71 | CORNER1 | PX | .00074 | .00074 | 0 | 0 |
| 72 | CORNER2 | PX | .00074 | .00074 | 0 | 0 |
| 73 | CORNER3 | PX | .00074 | .00074 | 0 | 0 |
| 74 | DIAG1 | PX | .000259 | .000259 | 0 | 0 |
| 75 | DIAG2 | PX | .000259 | .000259 | 0 | 0 |
| 76 | DIAG3 | PX | .000259 | .000259 | 0 | 0 |
| 77 | DIAG4 | PX | .000259 | .000259 | 0 | 0 |
| 78 | DIAG5 | PX | .000259 | .000259 | 0 | 0 |
| 79 | DIAG6 | PX | .000259 | .000259 | 0 | 0 |
| 80 | FACE3A | PX | .00074 | .00074 | 0 | 0 |
| 81 | FACE3B | PX | .00074 | .00074 | 0 | 0 |
| 82 | FACE2A | PX | .001 | .001 | 0 | 0 |
| 83 | FACE2B | PX | .001 | .001 | 0 | 0 |
| 84 | FACE1A | PX | .001 | .001 | 0 | 0 |
| 85 | FACE1B | PX | .001 | .001 | 0 | 0 |
| 86 | HORIZ1 | PX | .000259 | .000259 | 0 | 0 |
| 87 | HORIZ2 | PX | .000259 | .000259 | 0 | 0 |
| 88 | HORIZ3 | PX | .000259 | .000259 | 0 | 0 |
| 89 | LADDER1 | PX | .000259 | .000259 | 0 | 0 |
| 90 | LADDER2 | PX | .000259 | .000259 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .000592 | .000592 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .000592 | .000592 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .000422 | .000422 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .000422 | .000422 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .000422 | .000422 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .000422 | .000422 | 0 | 0 |
| 97 | MP BETA1 | PX | .000422 | .000422 | 0 | 0 |
| 98 | MP BETA2 | PX | .000422 | .000422 | 0 | 0 |
| 99 | MP BETA3 | PX | .000422 | .000422 | 0 | 0 |
| 100 | MP BETA4 | PX | .000422 | .000422 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .000422 | .000422 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .000422 | .000422 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .000422 | .000422 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .000422 | .000422 | 0 | 0 |
| 105 | PLATE1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 106 | PLATE2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 107 | PLATE3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 108 | RAIL3 | PX | .000444 | .000444 | 0 | 0 |
| 109 | RAIL2 | PX | .000888 | .000888 | 0 | 0 |
| 110 | RAIL1 | PX | .000888 | .000888 | 0 | 0 |
| 111 | RUNG1 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 112 | RUNG2 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 113 | RUNG3 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 114 | RUNG4 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 115 | RUNG5 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 116 | RUNG6 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 117 | RUNG7 | PX | 3.3e-5 | 3.3e-5 | 0 | 0 |
| 118 | SP1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 119 | SP2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 120 | SP3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | .00074 | .00074 | 0 | 0 |
| 122 | SUPPORT2 | PX | .00074 | .00074 | 0 | 0 |
| 123 | VERT1 | PX | .000259 | .000259 | 0 | 0 |

## Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 124 | VERT2 | PX | .000259 | .000259 | 0 | 0 |
| 125 | VERT3 | PX | .000259 | .000259 | 0 | 0 |
| 126 | VERT4 | PX | .000259 | .000259 | 0 | 0 |
| 127 | VERT5 | PX | .000259 | .000259 | 0 | 0 |
| 128 | VERT6 | PX | .000259 | .000259 | 0 | 0 |
| 129 | VERT7 | PX | .000259 | .000259 | 0 | 0 |
| 130 | VERT8 | PX | .000259 | .000259 | 0 | 0 |
| 131 | VERT9 | PX | .000259 | .000259 | 0 | 0 |
| 132 | VERT10 | PX | .000259 | .000259 | 0 | 0 |
| 133 | VERT11 | PX | .000259 | .000259 | 0 | 0 |
| 134 | VERT12 | PX | .000259 | .000259 | 0 | 0 |

## Member Distributed Loads (BLC 26 : Maintanence (330))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.000444 | -.000444 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.000444 | -.000444 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.000444 | -.000444 | 0 | 0 |
| 4 | CORNER1 | PY | -.00074 | -.00074 | 0 | 0 |
| 5 | CORNER2 | PY | -.00074 | -.00074 | 0 | 0 |
| 6 | CORNER3 | PY | -.00074 | -.00074 | 0 | 0 |
| 7 | DIAG1 | PY | -.000259 | -.000259 | 0 | 0 |
| 8 | DIAG2 | PY | -.000259 | -.000259 | 0 | 0 |
| 9 | DIAG3 | PY | -.000259 | -.000259 | 0 | 0 |
| 10 | DIAG4 | PY | -.000259 | -.000259 | 0 | 0 |
| 11 | DIAG5 | PY | -.000259 | -.000259 | 0 | 0 |
| 12 | DIAG6 | PY | -.000259 | -.000259 | 0 | 0 |
| 13 | FACE1A | PY | -.00074 | -.00074 | 0 | 0 |
| 14 | FACE1B | PY | -.00074 | -.00074 | 0 | 0 |
| 15 | FACE2A | PY | -.001 | -.001 | 0 | 0 |
| 16 | FACE2B | PY | -.001 | -.001 | 0 | 0 |
| 17 | FACE3A | PY | -.001 | -.001 | 0 | 0 |
| 18 | FACE3B | PY | -.001 | -.001 | 0 | 0 |
| 19 | HORIZ1 | PY | -.000259 | -.000259 | 0 | 0 |
| 20 | HORIZ2 | PY | -.000259 | -.000259 | 0 | 0 |
| 21 | HORIZ3 | PY | -.000259 | -.000259 | 0 | 0 |
| 22 | LADDER1 | PY | -.000259 | -.000259 | 0 | 0 |
| 23 | LADDER2 | PY | -.000259 | -.000259 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.000592 | -.000592 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.000592 | -.000592 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.000422 | -.000422 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.000422 | -.000422 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.000422 | -.000422 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.000422 | -.000422 | 0 | 0 |
| 30 | MP BETA1 | PY | -.000422 | -.000422 | 0 | 0 |
| 31 | MP BETA2 | PY | -.000422 | -.000422 | 0 | 0 |
| 32 | MP BETA3 | PY | -.000422 | -.000422 | 0 | 0 |
| 33 | MP BETA4 | PY | -.000422 | -.000422 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.000422 | -.000422 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.000422 | -.000422 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.000422 | -.000422 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.000422 | -.000422 | 0 | 0 |
| 38 | PLATE1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 39 | PLATE2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 40 | PLATE3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 41 | RAIL1 | PY | -.000444 | -.000444 | 0 | 0 |
| 42 | RAIL2 | PY | -.000888 | -.000888 | 0 | 0 |

## Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 43 | RAIL3 | PY | -.000888 | -.000888 | 0 | 0 |
| 44 | RUNG1 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 45 | RUNG2 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 46 | RUNG3 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 47 | RUNG4 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 48 | RUNG5 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 49 | RUNG6 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 50 | RUNG7 | PY | -3.3e-5 | -3.3e-5 | 0 | 0 |
| 51 | SP1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 52 | SP2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 53 | SP3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.00074 | -.00074 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.00074 | -.00074 | 0 | 0 |
| 56 | VERT1 | PY | -.000259 | -.000259 | 0 | 0 |
| 57 | VERT2 | PY | -.000259 | -.000259 | 0 | 0 |
| 58 | VERT3 | PY | -.000259 | -.000259 | 0 | 0 |
| 59 | VERT4 | PY | -.000259 | -.000259 | 0 | 0 |
| 60 | VERT5 | PY | -.000259 | -.000259 | 0 | 0 |
| 61 | VERT6 | PY | -.000259 | -.000259 | 0 | 0 |
| 62 | VERT7 | PY | -.000259 | -.000259 | 0 | 0 |
| 63 | VERT8 | PY | -.000259 | -.000259 | 0 | 0 |
| 64 | VERT9 | PY | -.000259 | -.000259 | 0 | 0 |
| 65 | VERT10 | PY | -.000259 | -.000259 | 0 | 0 |
| 66 | VERT11 | PY | -.000259 | -.000259 | 0 | 0 |
| 67 | VERT12 | PY | -.000259 | -.000259 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .000256 | .000256 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .000256 | .000256 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .000256 | .000256 | 0 | 0 |
| 71 | CORNER1 | PX | .000427 | .000427 | 0 | 0 |
| 72 | CORNER2 | PX | .000427 | .000427 | 0 | 0 |
| 73 | CORNER3 | PX | .000427 | .000427 | 0 | 0 |
| 74 | DIAG1 | PX | .00015 | .00015 | 0 | 0 |
| 75 | DIAG2 | PX | .00015 | .00015 | 0 | 0 |
| 76 | DIAG3 | PX | .00015 | .00015 | 0 | 0 |
| 77 | DIAG4 | PX | .00015 | .00015 | 0 | 0 |
| 78 | DIAG5 | PX | .00015 | .00015 | 0 | 0 |
| 79 | DIAG6 | PX | .00015 | .00015 | 0 | 0 |
| 80 | FACE1A | PX | .000427 | .000427 | 0 | 0 |
| 81 | FACE1B | PX | .000427 | .000427 | 0 | 0 |
| 82 | FACE2A | PX | .000855 | .000855 | 0 | 0 |
| 83 | FACE2B | PX | .000855 | .000855 | 0 | 0 |
| 84 | FACE3A | PX | .000855 | .000855 | 0 | 0 |
| 85 | FACE3B | PX | .000855 | .000855 | 0 | 0 |
| 86 | HORIZ1 | PX | .00015 | .00015 | 0 | 0 |
| 87 | HORIZ2 | PX | .00015 | .00015 | 0 | 0 |
| 88 | HORIZ3 | PX | .00015 | .00015 | 0 | 0 |
| 89 | LADDER1 | PX | .00015 | .00015 | 0 | 0 |
| 90 | LADDER2 | PX | .00015 | .00015 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .000342 | .000342 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .000342 | .000342 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .000244 | .000244 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .000244 | .000244 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .000244 | .000244 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .000244 | .000244 | 0 | 0 |
| 97 | MP BETA1 | PX | .000244 | .000244 | 0 | 0 |
| 98 | MP BETA2 | PX | .000244 | .000244 | 0 | 0 |
| 99 | MP BETA3 | PX | .000244 | .000244 | 0 | 0 |

## Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 100 | MP BETA4 | PX | .000244 | .000244 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .000244 | .000244 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .000244 | .000244 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .000244 | .000244 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .000244 | .000244 | 0 | 0 |
| 105 | PLATE1 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 106 | PLATE2 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 107 | PLATE3 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 108 | RAIL1 | PX | .000256 | .000256 | 0 | 0 |
| 109 | RAIL2 | PX | .000513 | .000513 | 0 | 0 |
| 110 | RAIL3 | PX | .000513 | .000513 | 0 | 0 |
| 111 | RUNG1 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 112 | RUNG2 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 113 | RUNG3 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 114 | RUNG4 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 115 | RUNG5 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 116 | RUNG6 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 117 | RUNG7 | PX | 1.9e-5 | 1.9e-5 | 0 | 0 |
| 118 | SP1 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 119 | SP2 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 120 | SP3 | PX | 3.2e-5 | 3.2e-5 | 0 | 0 |
| 121 | SUPPORT1 | PX | .000427 | .000427 | 0 | 0 |
| 122 | SUPPORT2 | PX | .000427 | .000427 | 0 | 0 |
| 123 | VERT1 | PX | .00015 | .00015 | 0 | 0 |
| 124 | VERT2 | PX | .00015 | .00015 | 0 | 0 |
| 125 | VERT3 | PX | .00015 | .00015 | 0 | 0 |
| 126 | VERT4 | PX | .00015 | .00015 | 0 | 0 |
| 127 | VERT5 | PX | .00015 | .00015 | 0 | 0 |
| 128 | VERT6 | PX | .00015 | .00015 | 0 | 0 |
| 129 | VERT7 | PX | .00015 | .00015 | 0 | 0 |
| 130 | VERT8 | PX | .00015 | .00015 | 0 | 0 |
| 131 | VERT9 | PX | .00015 | .00015 | 0 | 0 |
| 132 | VERT10 | PX | .00015 | .00015 | 0 | 0 |
| 133 | VERT11 | PX | .00015 | .00015 | 0 | 0 |
| 134 | VERT12 | PX | .00015 | .00015 | 0 | 0 |

## Member Distributed Loads (BLC 27 : Ice Dead Load)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | Z | -.013 | -.013 | 0 | 0 |
| 2 | CONNANGLE2 | Z | -.013 | -.013 | 0 | 0 |
| 3 | CONNANGLE3 | Z | -.013 | -.013 | 0 | 0 |
| 4 | CORNER1 | Z | -.017 | -.017 | 0 | 0 |
| 5 | CORNER2 | Z | -.017 | -.017 | 0 | 0 |
| 6 | CORNER3 | Z | -.017 | -.017 | 0 | 0 |
| 7 | DIAG1 | Z | -.009 | -.009 | 0 | 0 |
| 8 | DIAG2 | Z | -.009 | -.009 | 0 | 0 |
| 9 | DIAG3 | Z | -.009 | -.009 | 0 | 0 |
| 10 | DIAG4 | Z | -.009 | -.009 | 0 | 0 |
| 11 | DIAG5 | Z | -.009 | -.009 | 0 | 0 |
| 12 | DIAG6 | Z | -.009 | -.009 | 0 | 0 |
| 13 | FACE1A | Z | -.017 | -.017 | 0 | 0 |
| 14 | FACE1B | Z | -.017 | -.017 | 0 | 0 |
| 15 | FACE2A | Z | -.017 | -.017 | 0 | 0 |
| 16 | FACE2B | Z | -.017 | -.017 | 0 | 0 |
| 17 | FACE3A | Z | -.017 | -.017 | 0 | 0 |
| 18 | FACE3B | Z | -.017 | -.017 | 0 | 0 |

## Member Distributed Loads (BLC 27 : Ice Dead Load) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | HORIZ1 | Z | -.009 | -.009 | 0 | 0 |
| 20 | HORIZ2 | Z | -.009 | -.009 | 0 | 0 |
| 21 | HORIZ3 | Z | -.009 | -.009 | 0 | 0 |
| 22 | LADDER1 | Z | -.009 | -.009 | 0 | 0 |
| 23 | LADDER2 | Z | -.009 | -.009 | 0 | 0 |
| 24 | LADDERPLATE1 | Z | -.01 | -.01 | 0 | 0 |
| 25 | LADDERPLATE2 | Z | -.01 | -.01 | 0 | 0 |
| 26 | MP ALPHA1 | Z | -.009 | -.009 | 0 | 0 |
| 27 | MP ALPHA2 | Z | -.009 | -.009 | 0 | 0 |
| 28 | MP ALPHA3 | Z | -.009 | -.009 | 0 | 0 |
| 29 | MP ALPHA4 | Z | -.009 | -.009 | 0 | 0 |
| 30 | MP BETA1 | Z | -.009 | -.009 | 0 | 0 |
| 31 | MP BETA2 | Z | -.009 | -.009 | 0 | 0 |
| 32 | MP BETA3 | Z | -.009 | -.009 | 0 | 0 |
| 33 | MP BETA4 | Z | -.009 | -.009 | 0 | 0 |
| 34 | MP GAMMA1 | Z | -.009 | -.009 | 0 | 0 |
| 35 | MP GAMMA2 | Z | -.009 | -.009 | 0 | 0 |
| 36 | MP GAMMA3 | Z | -.009 | -.009 | 0 | 0 |
| 37 | MP GAMMA4 | Z | -.009 | -.009 | 0 | 0 |
| 38 | PLATE1 | Z | -.013 | -.013 | 0 | 0 |
| 39 | PLATE2 | Z | -.013 | -.013 | 0 | 0 |
| 40 | PLATE3 | Z | -.013 | -.013 | 0 | 0 |
| 41 | RAIL1 | Z | -.013 | -.013 | 0 | 0 |
| 42 | RAIL2 | Z | -.013 | -.013 | 0 | 0 |
| 43 | RAIL3 | Z | -.013 | -.013 | 0 | 0 |
| 44 | RUNG1 | Z | -.005 | -.005 | 0 | 0 |
| 45 | RUNG2 | Z | -.005 | -.005 | 0 | 0 |
| 46 | RUNG3 | Z | -.005 | -.005 | 0 | 0 |
| 47 | RUNG4 | Z | -.005 | -.005 | 0 | 0 |
| 48 | RUNG5 | Z | -.005 | -.005 | 0 | 0 |
| 49 | RUNG6 | Z | -.005 | -.005 | 0 | 0 |
| 50 | RUNG7 | Z | -.005 | -.005 | 0 | 0 |
| 51 | SP1 | Z | -.013 | -.013 | 0 | 0 |
| 52 | SP2 | Z | -.013 | -.013 | 0 | 0 |
| 53 | SP3 | Z | -.013 | -.013 | 0 | 0 |
| 54 | SUPPORT1 | Z | -.017 | -.017 | 0 | 0 |
| 55 | SUPPORT2 | Z | -.017 | -.017 | 0 | 0 |
| 56 | VERT1 | Z | -.009 | -.009 | 0 | 0 |
| 57 | VERT2 | Z | -.009 | -.009 | 0 | 0 |
| 58 | VERT3 | Z | -.009 | -.009 | 0 | 0 |
| 59 | VERT4 | Z | -.009 | -.009 | 0 | 0 |
| 60 | VERT5 | Z | -.009 | -.009 | 0 | 0 |
| 61 | VERT6 | Z | -.009 | -.009 | 0 | 0 |
| 62 | VERT7 | Z | -.009 | -.009 | 0 | 0 |
| 63 | VERT8 | Z | -.009 | -.009 | 0 | 0 |
| 64 | VERT9 | Z | -.009 | -.009 | 0 | 0 |
| 65 | VERT10 | Z | -.009 | -.009 | 0 | 0 |
| 66 | VERT11 | Z | -.009 | -.009 | 0 | 0 |
| 67 | VERT12 | Z | -.009 | -.009 | 0 | 0 |

## Member Distributed Loads (BLC 28 : Ice Wind Load (0))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.002 | -.002 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.002 | -.002 | 0 | 0 |
| 4 | CORNER1 | PY | -.003 | -.003 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 5 | CORNER2 | PY | -.003 | -.003 | 0 | 0 |
| 6 | CORNER3 | PY | -.003 | -.003 | 0 | 0 |
| 7 | DIAG1 | PY | -.002 | -.002 | 0 | 0 |
| 8 | DIAG2 | PY | -.002 | -.002 | 0 | 0 |
| 9 | DIAG3 | PY | -.002 | -.002 | 0 | 0 |
| 10 | DIAG4 | PY | -.002 | -.002 | 0 | 0 |
| 11 | DIAG5 | PY | -.002 | -.002 | 0 | 0 |
| 12 | DIAG6 | PY | -.002 | -.002 | 0 | 0 |
| 13 | FACE1A | PY | -.003 | -.003 | 0 | 0 |
| 14 | FACE1B | PY | -.003 | -.003 | 0 | 0 |
| 15 | FACE2A | PY | -.005 | -.005 | 0 | 0 |
| 16 | FACE2B | PY | -.005 | -.005 | 0 | 0 |
| 17 | FACE3A | PY | -.005 | -.005 | 0 | 0 |
| 18 | FACE3B | PY | -.005 | -.005 | 0 | 0 |
| 19 | HORIZ1 | PY | -.002 | -.002 | 0 | 0 |
| 20 | HORIZ2 | PY | -.002 | -.002 | 0 | 0 |
| 21 | HORIZ3 | PY | -.002 | -.002 | 0 | 0 |
| 22 | LADDER1 | PY | -.002 | -.002 | 0 | 0 |
| 23 | LADDER2 | PY | -.002 | -.002 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.002 | -.002 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.002 | -.002 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.003 | -.003 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.003 | -.003 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.003 | -.003 | 0 | 0 |
| 30 | MP BETA1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | MP BETA2 | PY | -.003 | -.003 | 0 | 0 |
| 32 | MP BETA3 | PY | -.003 | -.003 | 0 | 0 |
| 33 | MP BETA4 | PY | -.003 | -.003 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.003 | -.003 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.003 | -.003 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.003 | -.003 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.003 | -.003 | 0 | 0 |
| 38 | PLATE1 | PY | -.001 | -.001 | 0 | 0 |
| 39 | PLATE2 | PY | -.001 | -.001 | 0 | 0 |
| 40 | PLATE3 | PY | -.001 | -.001 | 0 | 0 |
| 41 | RAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 42 | RAIL2 | PY | -.004 | -.004 | 0 | 0 |
| 43 | RAIL3 | PY | -.004 | -.004 | 0 | 0 |
| 44 | RUNG1 | PY | -.000784 | -.000784 | 0 | 0 |
| 45 | RUNG2 | PY | -.000784 | -.000784 | 0 | 0 |
| 46 | RUNG3 | PY | -.000784 | -.000784 | 0 | 0 |
| 47 | RUNG4 | PY | -.000784 | -.000784 | 0 | 0 |
| 48 | RUNG5 | PY | -.000784 | -.000784 | 0 | 0 |
| 49 | RUNG6 | PY | -.000784 | -.000784 | 0 | 0 |
| 50 | RUNG7 | PY | -.000784 | -.000784 | 0 | 0 |
| 51 | SP1 | PY | -.001 | -.001 | 0 | 0 |
| 52 | SP2 | PY | -.001 | -.001 | 0 | 0 |
| 53 | SP3 | PY | -.001 | -.001 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.003 | -.003 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.003 | -.003 | 0 | 0 |
| 56 | VERT1 | PY | -.002 | -.002 | 0 | 0 |
| 57 | VERT2 | PY | -.002 | -.002 | 0 | 0 |
| 58 | VERT3 | PY | -.002 | -.002 | 0 | 0 |
| 59 | VERT4 | PY | -.002 | -.002 | 0 | 0 |
| 60 | VERT5 | PY | -.002 | -.002 | 0 | 0 |
| 61 | VERT6 | PY | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 62 | VERT7 | PY | -.002 | -.002 | 0 | 0 |
| 63 | VERT8 | PY | -.002 | -.002 | 0 | 0 |
| 64 | VERT9 | PY | -.002 | -.002 | 0 | 0 |
| 65 | VERT10 | PY | -.002 | -.002 | 0 | 0 |
| 66 | VERT11 | PY | -.002 | -.002 | 0 | 0 |
| 67 | VERT12 | PY | -.002 | -.002 | 0 | 0 |

## Member Distributed Loads (BLC 29 : Ice Wind Load (30))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.002 | -.002 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.002 | -.002 | 0 | 0 |
| 4 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 5 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 6 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 7 | DIAG1 | PY | -.001 | -.001 | 0 | 0 |
| 8 | DIAG2 | PY | -.001 | -.001 | 0 | 0 |
| 9 | DIAG3 | PY | -.001 | -.001 | 0 | 0 |
| 10 | DIAG4 | PY | -.001 | -.001 | 0 | 0 |
| 11 | DIAG5 | PY | -.001 | -.001 | 0 | 0 |
| 12 | DIAG6 | PY | -.001 | -.001 | 0 | 0 |
| 13 | FACE1A | PY | -.002 | -.002 | 0 | 0 |
| 14 | FACE1B | PY | -.002 | -.002 | 0 | 0 |
| 15 | FACE2A | PY | -.005 | -.005 | 0 | 0 |
| 16 | FACE2B | PY | -.005 | -.005 | 0 | 0 |
| 17 | FACE3A | PY | -.005 | -.005 | 0 | 0 |
| 18 | FACE3B | PY | -.005 | -.005 | 0 | 0 |
| 19 | HORIZ1 | PY | -.001 | -.001 | 0 | 0 |
| 20 | HORIZ2 | PY | -.001 | -.001 | 0 | 0 |
| 21 | HORIZ3 | PY | -.001 | -.001 | 0 | 0 |
| 22 | LADDER1 | PY | -.001 | -.001 | 0 | 0 |
| 23 | LADDER2 | PY | -.001 | -.001 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.002 | -.002 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.002 | -.002 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.003 | -.003 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.003 | -.003 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.003 | -.003 | 0 | 0 |
| 30 | MP BETA1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | MP BETA2 | PY | -.003 | -.003 | 0 | 0 |
| 32 | MP BETA3 | PY | -.003 | -.003 | 0 | 0 |
| 33 | MP BETA4 | PY | -.003 | -.003 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.003 | -.003 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.003 | -.003 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.003 | -.003 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.003 | -.003 | 0 | 0 |
| 38 | PLATE1 | PY | -.001 | -.001 | 0 | 0 |
| 39 | PLATE2 | PY | -.001 | -.001 | 0 | 0 |
| 40 | PLATE3 | PY | -.001 | -.001 | 0 | 0 |
| 41 | RAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 42 | RAIL2 | PY | -.004 | -.004 | 0 | 0 |
| 43 | RAIL3 | PY | -.004 | -.004 | 0 | 0 |
| 44 | RUNG1 | PY | -.000679 | -.000679 | 0 | 0 |
| 45 | RUNG2 | PY | -.000679 | -.000679 | 0 | 0 |
| 46 | RUNG3 | PY | -.000679 | -.000679 | 0 | 0 |
| 47 | RUNG4 | PY | -.000679 | -.000679 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 48 | RUNG5 | PY | -.000679 | -.000679 | 0 | 0 |
| 49 | RUNG6 | PY | -.000679 | -.000679 | 0 | 0 |
| 50 | RUNG7 | PY | -.000679 | -.000679 | 0 | 0 |
| 51 | SP1 | PY | -.001 | -.001 | 0 | 0 |
| 52 | SP2 | PY | -.001 | -.001 | 0 | 0 |
| 53 | SP3 | PY | -.001 | -.001 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 56 | VERT1 | PY | -.001 | -.001 | 0 | 0 |
| 57 | VERT2 | PY | -.001 | -.001 | 0 | 0 |
| 58 | VERT3 | PY | -.001 | -.001 | 0 | 0 |
| 59 | VERT4 | PY | -.001 | -.001 | 0 | 0 |
| 60 | VERT5 | PY | -.001 | -.001 | 0 | 0 |
| 61 | VERT6 | PY | -.001 | -.001 | 0 | 0 |
| 62 | VERT7 | PY | -.001 | -.001 | 0 | 0 |
| 63 | VERT8 | PY | -.001 | -.001 | 0 | 0 |
| 64 | VERT9 | PY | -.001 | -.001 | 0 | 0 |
| 65 | VERT10 | PY | -.001 | -.001 | 0 | 0 |
| 66 | VERT11 | PY | -.001 | -.001 | 0 | 0 |
| 67 | VERT12 | PY | -.001 | -.001 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.001 | -.001 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.001 | -.001 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.001 | -.001 | 0 | 0 |
| 71 | CORNER1 | PX | -.001 | -.001 | 0 | 0 |
| 72 | CORNER2 | PX | -.001 | -.001 | 0 | 0 |
| 73 | CORNER3 | PX | -.001 | -.001 | 0 | 0 |
| 74 | DIAG1 | PX | -.000834 | -.000834 | 0 | 0 |
| 75 | DIAG2 | PX | -.000834 | -.000834 | 0 | 0 |
| 76 | DIAG3 | PX | -.000834 | -.000834 | 0 | 0 |
| 77 | DIAG4 | PX | -.000834 | -.000834 | 0 | 0 |
| 78 | DIAG5 | PX | -.000834 | -.000834 | 0 | 0 |
| 79 | DIAG6 | PX | -.000834 | -.000834 | 0 | 0 |
| 80 | FACE1A | PX | -.001 | -.001 | 0 | 0 |
| 81 | FACE1B | PX | -.001 | -.001 | 0 | 0 |
| 82 | FACE2A | PX | -.003 | -.003 | 0 | 0 |
| 83 | FACE2B | PX | -.003 | -.003 | 0 | 0 |
| 84 | FACE3A | PX | -.003 | -.003 | 0 | 0 |
| 85 | FACE3B | PX | -.003 | -.003 | 0 | 0 |
| 86 | HORIZ1 | PX | -.000834 | -.000834 | 0 | 0 |
| 87 | HORIZ2 | PX | -.000834 | -.000834 | 0 | 0 |
| 88 | HORIZ3 | PX | -.000834 | -.000834 | 0 | 0 |
| 89 | LADDER1 | PX | -.000834 | -.000834 | 0 | 0 |
| 90 | LADDER2 | PX | -.000834 | -.000834 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.001 | -.001 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.001 | -.001 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.002 | -.002 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.002 | -.002 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.002 | -.002 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.002 | -.002 | 0 | 0 |
| 97 | MP BETA1 | PX | -.002 | -.002 | 0 | 0 |
| 98 | MP BETA2 | PX | -.002 | -.002 | 0 | 0 |
| 99 | MP BETA3 | PX | -.002 | -.002 | 0 | 0 |
| 100 | MP BETA4 | PX | -.002 | -.002 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.002 | -.002 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.002 | -.002 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.002 | -.002 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 105 | PLATE1 | PX | -.000613 | -.000613 | 0 | 0 |
| 106 | PLATE2 | PX | -.000613 | -.000613 | 0 | 0 |
| 107 | PLATE3 | PX | -.000613 | -.000613 | 0 | 0 |
| 108 | RAIL1 | PX | -.001 | -.001 | 0 | 0 |
| 109 | RAIL2 | PX | -.002 | -.002 | 0 | 0 |
| 110 | RAIL3 | PX | -.002 | -.002 | 0 | 0 |
| 111 | RUNG1 | PX | -.000392 | -.000392 | 0 | 0 |
| 112 | RUNG2 | PX | -.000392 | -.000392 | 0 | 0 |
| 113 | RUNG3 | PX | -.000392 | -.000392 | 0 | 0 |
| 114 | RUNG4 | PX | -.000392 | -.000392 | 0 | 0 |
| 115 | RUNG5 | PX | -.000392 | -.000392 | 0 | 0 |
| 116 | RUNG6 | PX | -.000392 | -.000392 | 0 | 0 |
| 117 | RUNG7 | PX | -.000392 | -.000392 | 0 | 0 |
| 118 | SP1 | PX | -.000613 | -.000613 | 0 | 0 |
| 119 | SP2 | PX | -.000613 | -.000613 | 0 | 0 |
| 120 | SP3 | PX | -.000613 | -.000613 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 123 | VERT1 | PX | -.000834 | -.000834 | 0 | 0 |
| 124 | VERT2 | PX | -.000834 | -.000834 | 0 | 0 |
| 125 | VERT3 | PX | -.000834 | -.000834 | 0 | 0 |
| 126 | VERT4 | PX | -.000834 | -.000834 | 0 | 0 |
| 127 | VERT5 | PX | -.000834 | -.000834 | 0 | 0 |
| 128 | VERT6 | PX | -.000834 | -.000834 | 0 | 0 |
| 129 | VERT7 | PX | -.000834 | -.000834 | 0 | 0 |
| 130 | VERT8 | PX | -.000834 | -.000834 | 0 | 0 |
| 131 | VERT9 | PX | -.000834 | -.000834 | 0 | 0 |
| 132 | VERT10 | PX | -.000834 | -.000834 | 0 | 0 |
| 133 | VERT11 | PX | -.000834 | -.000834 | 0 | 0 |
| 134 | VERT12 | PX | -.000834 | -.000834 | 0 | 0 |

## Member Distributed Loads (BLC 30 : Ice Wind Load (60))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.001 | -.001 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.001 | -.001 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.001 | -.001 | 0 | 0 |
| 4 | CORNER1 | PY | -.001 | -.001 | 0 | 0 |
| 5 | CORNER2 | PY | -.001 | -.001 | 0 | 0 |
| 6 | CORNER3 | PY | -.001 | -.001 | 0 | 0 |
| 7 | DIAG1 | PY | -.000834 | -.000834 | 0 | 0 |
| 8 | DIAG2 | PY | -.000834 | -.000834 | 0 | 0 |
| 9 | DIAG3 | PY | -.000834 | -.000834 | 0 | 0 |
| 10 | DIAG4 | PY | -.000834 | -.000834 | 0 | 0 |
| 11 | DIAG5 | PY | -.000834 | -.000834 | 0 | 0 |
| 12 | DIAG6 | PY | -.000834 | -.000834 | 0 | 0 |
| 13 | FACE1A | PY | -.001 | -.001 | 0 | 0 |
| 14 | FACE1B | PY | -.001 | -.001 | 0 | 0 |
| 15 | FACE2A | PY | -.003 | -.003 | 0 | 0 |
| 16 | FACE2B | PY | -.003 | -.003 | 0 | 0 |
| 17 | FACE3A | PY | -.003 | -.003 | 0 | 0 |
| 18 | FACE3B | PY | -.003 | -.003 | 0 | 0 |
| 19 | HORIZ1 | PY | -.000834 | -.000834 | 0 | 0 |
| 20 | HORIZ2 | PY | -.000834 | -.000834 | 0 | 0 |
| 21 | HORIZ3 | PY | -.000834 | -.000834 | 0 | 0 |
| 22 | LADDER1 | PY | -.000834 | -.000834 | 0 | 0 |
| 23 | LADDER2 | PY | -.000834 | -.000834 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 24 | LADDERPLATE1 | PY | -.001 | -.001 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.001 | -.001 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.002 | -.002 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.002 | -.002 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.002 | -.002 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.002 | -.002 | 0 | 0 |
| 30 | MP BETA1 | PY | -.002 | -.002 | 0 | 0 |
| 31 | MP BETA2 | PY | -.002 | -.002 | 0 | 0 |
| 32 | MP BETA3 | PY | -.002 | -.002 | 0 | 0 |
| 33 | MP BETA4 | PY | -.002 | -.002 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.002 | -.002 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.002 | -.002 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.002 | -.002 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.002 | -.002 | 0 | 0 |
| 38 | PLATE1 | PY | -.000613 | -.000613 | 0 | 0 |
| 39 | PLATE2 | PY | -.000613 | -.000613 | 0 | 0 |
| 40 | PLATE3 | PY | -.000613 | -.000613 | 0 | 0 |
| 41 | RAIL1 | PY | -.001 | -.001 | 0 | 0 |
| 42 | RAIL2 | PY | -.002 | -.002 | 0 | 0 |
| 43 | RAIL3 | PY | -.002 | -.002 | 0 | 0 |
| 44 | RUNG1 | PY | -.000392 | -.000392 | 0 | 0 |
| 45 | RUNG2 | PY | -.000392 | -.000392 | 0 | 0 |
| 46 | RUNG3 | PY | -.000392 | -.000392 | 0 | 0 |
| 47 | RUNG4 | PY | -.000392 | -.000392 | 0 | 0 |
| 48 | RUNG5 | PY | -.000392 | -.000392 | 0 | 0 |
| 49 | RUNG6 | PY | -.000392 | -.000392 | 0 | 0 |
| 50 | RUNG7 | PY | -.000392 | -.000392 | 0 | 0 |
| 51 | SP1 | PY | -.000613 | -.000613 | 0 | 0 |
| 52 | SP2 | PY | -.000613 | -.000613 | 0 | 0 |
| 53 | SP3 | PY | -.000613 | -.000613 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 56 | VERT1 | PY | -.000834 | -.000834 | 0 | 0 |
| 57 | VERT2 | PY | -.000834 | -.000834 | 0 | 0 |
| 58 | VERT3 | PY | -.000834 | -.000834 | 0 | 0 |
| 59 | VERT4 | PY | -.000834 | -.000834 | 0 | 0 |
| 60 | VERT5 | PY | -.000834 | -.000834 | 0 | 0 |
| 61 | VERT6 | PY | -.000834 | -.000834 | 0 | 0 |
| 62 | VERT7 | PY | -.000834 | -.000834 | 0 | 0 |
| 63 | VERT8 | PY | -.000834 | -.000834 | 0 | 0 |
| 64 | VERT9 | PY | -.000834 | -.000834 | 0 | 0 |
| 65 | VERT10 | PY | -.000834 | -.000834 | 0 | 0 |
| 66 | VERT11 | PY | -.000834 | -.000834 | 0 | 0 |
| 67 | VERT12 | PY | -.000834 | -.000834 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.002 | -.002 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.002 | -.002 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.002 | -.002 | 0 | 0 |
| 71 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 72 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 73 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 74 | DIAG1 | PX | -.001 | -.001 | 0 | 0 |
| 75 | DIAG2 | PX | -.001 | -.001 | 0 | 0 |
| 76 | DIAG3 | PX | -.001 | -.001 | 0 | 0 |
| 77 | DIAG4 | PX | -.001 | -.001 | 0 | 0 |
| 78 | DIAG5 | PX | -.001 | -.001 | 0 | 0 |
| 79 | DIAG6 | PX | -.001 | -.001 | 0 | 0 |
| 80 | FACE1A | PX | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 81 | FACE1B | PX | -.002 | -.002 | 0 | 0 |
| 82 | FACE2A | PX | -.005 | -.005 | 0 | 0 |
| 83 | FACE2B | PX | -.005 | -.005 | 0 | 0 |
| 84 | FACE3A | PX | -.005 | -.005 | 0 | 0 |
| 85 | FACE3B | PX | -.005 | -.005 | 0 | 0 |
| 86 | HORIZ1 | PX | -.001 | -.001 | 0 | 0 |
| 87 | HORIZ2 | PX | -.001 | -.001 | 0 | 0 |
| 88 | HORIZ3 | PX | -.001 | -.001 | 0 | 0 |
| 89 | LADDER1 | PX | -.001 | -.001 | 0 | 0 |
| 90 | LADDER2 | PX | -.001 | -.001 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.002 | -.002 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.002 | -.002 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.003 | -.003 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.003 | -.003 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.003 | -.003 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.003 | -.003 | 0 | 0 |
| 97 | MP BETA1 | PX | -.003 | -.003 | 0 | 0 |
| 98 | MP BETA2 | PX | -.003 | -.003 | 0 | 0 |
| 99 | MP BETA3 | PX | -.003 | -.003 | 0 | 0 |
| 100 | MP BETA4 | PX | -.003 | -.003 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.003 | -.003 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.003 | -.003 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.003 | -.003 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.003 | -.003 | 0 | 0 |
| 105 | PLATE1 | PX | -.001 | -.001 | 0 | 0 |
| 106 | PLATE2 | PX | -.001 | -.001 | 0 | 0 |
| 107 | PLATE3 | PX | -.001 | -.001 | 0 | 0 |
| 108 | RAIL1 | PX | -.002 | -.002 | 0 | 0 |
| 109 | RAIL2 | PX | -.004 | -.004 | 0 | 0 |
| 110 | RAIL3 | PX | -.004 | -.004 | 0 | 0 |
| 111 | RUNG1 | PX | -.000679 | -.000679 | 0 | 0 |
| 112 | RUNG2 | PX | -.000679 | -.000679 | 0 | 0 |
| 113 | RUNG3 | PX | -.000679 | -.000679 | 0 | 0 |
| 114 | RUNG4 | PX | -.000679 | -.000679 | 0 | 0 |
| 115 | RUNG5 | PX | -.000679 | -.000679 | 0 | 0 |
| 116 | RUNG6 | PX | -.000679 | -.000679 | 0 | 0 |
| 117 | RUNG7 | PX | -.000679 | -.000679 | 0 | 0 |
| 118 | SP1 | PX | -.001 | -.001 | 0 | 0 |
| 119 | SP2 | PX | -.001 | -.001 | 0 | 0 |
| 120 | SP3 | PX | -.001 | -.001 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 123 | VERT1 | PX | -.001 | -.001 | 0 | 0 |
| 124 | VERT2 | PX | -.001 | -.001 | 0 | 0 |
| 125 | VERT3 | PX | -.001 | -.001 | 0 | 0 |
| 126 | VERT4 | PX | -.001 | -.001 | 0 | 0 |
| 127 | VERT5 | PX | -.001 | -.001 | 0 | 0 |
| 128 | VERT6 | PX | -.001 | -.001 | 0 | 0 |
| 129 | VERT7 | PX | -.001 | -.001 | 0 | 0 |
| 130 | VERT8 | PX | -.001 | -.001 | 0 | 0 |
| 131 | VERT9 | PX | -.001 | -.001 | 0 | 0 |
| 132 | VERT10 | PX | -.001 | -.001 | 0 | 0 |
| 133 | VERT11 | PX | -.001 | -.001 | 0 | 0 |
| 134 | VERT12 | PX | -.001 | -.001 | 0 | 0 |

## Member Distributed Loads (BLC 31 : Ice Wind Load (90))

| Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|

## Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PX | -.002 | -.002 | 0 | 0 |
| 2 | CONNANGLE2 | PX | -.002 | -.002 | 0 | 0 |
| 3 | CONNANGLE3 | PX | -.002 | -.002 | 0 | 0 |
| 4 | CORNER1 | PX | -.003 | -.003 | 0 | 0 |
| 5 | CORNER2 | PX | -.003 | -.003 | 0 | 0 |
| 6 | CORNER3 | PX | -.003 | -.003 | 0 | 0 |
| 7 | DIAG1 | PX | -.002 | -.002 | 0 | 0 |
| 8 | DIAG2 | PX | -.002 | -.002 | 0 | 0 |
| 9 | DIAG3 | PX | -.002 | -.002 | 0 | 0 |
| 10 | DIAG4 | PX | -.002 | -.002 | 0 | 0 |
| 11 | DIAG5 | PX | -.002 | -.002 | 0 | 0 |
| 12 | DIAG6 | PX | -.002 | -.002 | 0 | 0 |
| 13 | FACE2A | PX | -.003 | -.003 | 0 | 0 |
| 14 | FACE2B | PX | -.003 | -.003 | 0 | 0 |
| 15 | FACE3A | PX | -.005 | -.005 | 0 | 0 |
| 16 | FACE3B | PX | -.005 | -.005 | 0 | 0 |
| 17 | FACE1A | PX | -.005 | -.005 | 0 | 0 |
| 18 | FACE1B | PX | -.005 | -.005 | 0 | 0 |
| 19 | HORIZ1 | PX | -.002 | -.002 | 0 | 0 |
| 20 | HORIZ2 | PX | -.002 | -.002 | 0 | 0 |
| 21 | HORIZ3 | PX | -.002 | -.002 | 0 | 0 |
| 22 | LADDER1 | PX | -.002 | -.002 | 0 | 0 |
| 23 | LADDER2 | PX | -.002 | -.002 | 0 | 0 |
| 24 | LADDERPLATE1 | PX | -.002 | -.002 | 0 | 0 |
| 25 | LADDERPLATE2 | PX | -.002 | -.002 | 0 | 0 |
| 26 | MP ALPHA1 | PX | -.003 | -.003 | 0 | 0 |
| 27 | MP ALPHA2 | PX | -.003 | -.003 | 0 | 0 |
| 28 | MP ALPHA3 | PX | -.003 | -.003 | 0 | 0 |
| 29 | MP ALPHA4 | PX | -.003 | -.003 | 0 | 0 |
| 30 | MP BETA1 | PX | -.003 | -.003 | 0 | 0 |
| 31 | MP BETA2 | PX | -.003 | -.003 | 0 | 0 |
| 32 | MP BETA3 | PX | -.003 | -.003 | 0 | 0 |
| 33 | MP BETA4 | PX | -.003 | -.003 | 0 | 0 |
| 34 | MP GAMMA1 | PX | -.003 | -.003 | 0 | 0 |
| 35 | MP GAMMA2 | PX | -.003 | -.003 | 0 | 0 |
| 36 | MP GAMMA3 | PX | -.003 | -.003 | 0 | 0 |
| 37 | MP GAMMA4 | PX | -.003 | -.003 | 0 | 0 |
| 38 | PLATE1 | PX | -.001 | -.001 | 0 | 0 |
| 39 | PLATE2 | PX | -.001 | -.001 | 0 | 0 |
| 40 | PLATE3 | PX | -.001 | -.001 | 0 | 0 |
| 41 | RAIL2 | PX | -.002 | -.002 | 0 | 0 |
| 42 | RAIL1 | PX | -.004 | -.004 | 0 | 0 |
| 43 | RAIL3 | PX | -.004 | -.004 | 0 | 0 |
| 44 | RUNG1 | PX | -.000784 | -.000784 | 0 | 0 |
| 45 | RUNG2 | PX | -.000784 | -.000784 | 0 | 0 |
| 46 | RUNG3 | PX | -.000784 | -.000784 | 0 | 0 |
| 47 | RUNG4 | PX | -.000784 | -.000784 | 0 | 0 |
| 48 | RUNG5 | PX | -.000784 | -.000784 | 0 | 0 |
| 49 | RUNG6 | PX | -.000784 | -.000784 | 0 | 0 |
| 50 | RUNG7 | PX | -.000784 | -.000784 | 0 | 0 |
| 51 | SP1 | PX | -.001 | -.001 | 0 | 0 |
| 52 | SP2 | PX | -.001 | -.001 | 0 | 0 |
| 53 | SP3 | PX | -.001 | -.001 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.003 | -.003 | 0 | 0 |
| 55 | SUPPORT2 | PX | -.003 | -.003 | 0 | 0 |
| 56 | VERT1 | PX | -.002 | -.002 | 0 | 0 |
| 57 | VERT2 | PX | -.002 | -.002 | 0 | 0 |

## Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | VERT3 | PX | -.002 | -.002 | 0 | 0 |
| 59 | VERT4 | PX | -.002 | -.002 | 0 | 0 |
| 60 | VERT5 | PX | -.002 | -.002 | 0 | 0 |
| 61 | VERT6 | PX | -.002 | -.002 | 0 | 0 |
| 62 | VERT7 | PX | -.002 | -.002 | 0 | 0 |
| 63 | VERT8 | PX | -.002 | -.002 | 0 | 0 |
| 64 | VERT9 | PX | -.002 | -.002 | 0 | 0 |
| 65 | VERT10 | PX | -.002 | -.002 | 0 | 0 |
| 66 | VERT11 | PX | -.002 | -.002 | 0 | 0 |
| 67 | VERT12 | PX | -.002 | -.002 | 0 | 0 |

## Member Distributed Loads (BLC 32 : Ice Wind Load (120))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .001 | .001 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .001 | .001 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .001 | .001 | 0 | 0 |
| 4 | CORNER1 | PY | .001 | .001 | 0 | 0 |
| 5 | CORNER2 | PY | .001 | .001 | 0 | 0 |
| 6 | CORNER3 | PY | .001 | .001 | 0 | 0 |
| 7 | DIAG1 | PY | .000834 | .000834 | 0 | 0 |
| 8 | DIAG2 | PY | .000834 | .000834 | 0 | 0 |
| 9 | DIAG3 | PY | .000834 | .000834 | 0 | 0 |
| 10 | DIAG4 | PY | .000834 | .000834 | 0 | 0 |
| 11 | DIAG5 | PY | .000834 | .000834 | 0 | 0 |
| 12 | DIAG6 | PY | .000834 | .000834 | 0 | 0 |
| 13 | FACE2A | PY | .001 | .001 | 0 | 0 |
| 14 | FACE2B | PY | .001 | .001 | 0 | 0 |
| 15 | FACE3A | PY | .003 | .003 | 0 | 0 |
| 16 | FACE3B | PY | .003 | .003 | 0 | 0 |
| 17 | FACE1A | PY | .003 | .003 | 0 | 0 |
| 18 | FACE1B | PY | .003 | .003 | 0 | 0 |
| 19 | HORIZ1 | PY | .000834 | .000834 | 0 | 0 |
| 20 | HORIZ2 | PY | .000834 | .000834 | 0 | 0 |
| 21 | HORIZ3 | PY | .000834 | .000834 | 0 | 0 |
| 22 | LADDER1 | PY | .000834 | .000834 | 0 | 0 |
| 23 | LADDER2 | PY | .000834 | .000834 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .001 | .001 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .001 | .001 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .002 | .002 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .002 | .002 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .002 | .002 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .002 | .002 | 0 | 0 |
| 30 | MP BETA1 | PY | .002 | .002 | 0 | 0 |
| 31 | MP BETA2 | PY | .002 | .002 | 0 | 0 |
| 32 | MP BETA3 | PY | .002 | .002 | 0 | 0 |
| 33 | MP BETA4 | PY | .002 | .002 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .002 | .002 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .002 | .002 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .002 | .002 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .002 | .002 | 0 | 0 |
| 38 | PLATE1 | PY | .000613 | .000613 | 0 | 0 |
| 39 | PLATE2 | PY | .000613 | .000613 | 0 | 0 |
| 40 | PLATE3 | PY | .000613 | .000613 | 0 | 0 |
| 41 | RAIL2 | PY | .001 | .001 | 0 | 0 |
| 42 | RAIL1 | PY | .002 | .002 | 0 | 0 |
| 43 | RAIL3 | PY | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 44 | RUNG1 | PY | .000392 | .000392 | 0 | 0 |
| 45 | RUNG2 | PY | .000392 | .000392 | 0 | 0 |
| 46 | RUNG3 | PY | .000392 | .000392 | 0 | 0 |
| 47 | RUNG4 | PY | .000392 | .000392 | 0 | 0 |
| 48 | RUNG5 | PY | .000392 | .000392 | 0 | 0 |
| 49 | RUNG6 | PY | .000392 | .000392 | 0 | 0 |
| 50 | RUNG7 | PY | .000392 | .000392 | 0 | 0 |
| 51 | SP1 | PY | .000613 | .000613 | 0 | 0 |
| 52 | SP2 | PY | .000613 | .000613 | 0 | 0 |
| 53 | SP3 | PY | .000613 | .000613 | 0 | 0 |
| 54 | SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 55 | SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 56 | VERT1 | PY | .000834 | .000834 | 0 | 0 |
| 57 | VERT2 | PY | .000834 | .000834 | 0 | 0 |
| 58 | VERT3 | PY | .000834 | .000834 | 0 | 0 |
| 59 | VERT4 | PY | .000834 | .000834 | 0 | 0 |
| 60 | VERT5 | PY | .000834 | .000834 | 0 | 0 |
| 61 | VERT6 | PY | .000834 | .000834 | 0 | 0 |
| 62 | VERT7 | PY | .000834 | .000834 | 0 | 0 |
| 63 | VERT8 | PY | .000834 | .000834 | 0 | 0 |
| 64 | VERT9 | PY | .000834 | .000834 | 0 | 0 |
| 65 | VERT10 | PY | .000834 | .000834 | 0 | 0 |
| 66 | VERT11 | PY | .000834 | .000834 | 0 | 0 |
| 67 | VERT12 | PY | .000834 | .000834 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.002 | -.002 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.002 | -.002 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.002 | -.002 | 0 | 0 |
| 71 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 72 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 73 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 74 | DIAG1 | PX | -.001 | -.001 | 0 | 0 |
| 75 | DIAG2 | PX | -.001 | -.001 | 0 | 0 |
| 76 | DIAG3 | PX | -.001 | -.001 | 0 | 0 |
| 77 | DIAG4 | PX | -.001 | -.001 | 0 | 0 |
| 78 | DIAG5 | PX | -.001 | -.001 | 0 | 0 |
| 79 | DIAG6 | PX | -.001 | -.001 | 0 | 0 |
| 80 | FACE2A | PX | -.002 | -.002 | 0 | 0 |
| 81 | FACE2B | PX | -.002 | -.002 | 0 | 0 |
| 82 | FACE3A | PX | -.005 | -.005 | 0 | 0 |
| 83 | FACE3B | PX | -.005 | -.005 | 0 | 0 |
| 84 | FACE1A | PX | -.005 | -.005 | 0 | 0 |
| 85 | FACE1B | PX | -.005 | -.005 | 0 | 0 |
| 86 | HORIZ1 | PX | -.001 | -.001 | 0 | 0 |
| 87 | HORIZ2 | PX | -.001 | -.001 | 0 | 0 |
| 88 | HORIZ3 | PX | -.001 | -.001 | 0 | 0 |
| 89 | LADDER1 | PX | -.001 | -.001 | 0 | 0 |
| 90 | LADDER2 | PX | -.001 | -.001 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.002 | -.002 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.002 | -.002 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.003 | -.003 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.003 | -.003 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.003 | -.003 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.003 | -.003 | 0 | 0 |
| 97 | MP BETA1 | PX | -.003 | -.003 | 0 | 0 |
| 98 | MP BETA2 | PX | -.003 | -.003 | 0 | 0 |
| 99 | MP BETA3 | PX | -.003 | -.003 | 0 | 0 |
| 100 | MP BETA4 | PX | -.003 | -.003 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 101 | MP GAMMA1 | PX | -.003 | -.003 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.003 | -.003 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.003 | -.003 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.003 | -.003 | 0 | 0 |
| 105 | PLATE1 | PX | -.001 | -.001 | 0 | 0 |
| 106 | PLATE2 | PX | -.001 | -.001 | 0 | 0 |
| 107 | PLATE3 | PX | -.001 | -.001 | 0 | 0 |
| 108 | RAIL2 | PX | -.002 | -.002 | 0 | 0 |
| 109 | RAIL1 | PX | -.004 | -.004 | 0 | 0 |
| 110 | RAIL3 | PX | -.004 | -.004 | 0 | 0 |
| 111 | RUNG1 | PX | -.000679 | -.000679 | 0 | 0 |
| 112 | RUNG2 | PX | -.000679 | -.000679 | 0 | 0 |
| 113 | RUNG3 | PX | -.000679 | -.000679 | 0 | 0 |
| 114 | RUNG4 | PX | -.000679 | -.000679 | 0 | 0 |
| 115 | RUNG5 | PX | -.000679 | -.000679 | 0 | 0 |
| 116 | RUNG6 | PX | -.000679 | -.000679 | 0 | 0 |
| 117 | RUNG7 | PX | -.000679 | -.000679 | 0 | 0 |
| 118 | SP1 | PX | -.001 | -.001 | 0 | 0 |
| 119 | SP2 | PX | -.001 | -.001 | 0 | 0 |
| 120 | SP3 | PX | -.001 | -.001 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 123 | VERT1 | PX | -.001 | -.001 | 0 | 0 |
| 124 | VERT2 | PX | -.001 | -.001 | 0 | 0 |
| 125 | VERT3 | PX | -.001 | -.001 | 0 | 0 |
| 126 | VERT4 | PX | -.001 | -.001 | 0 | 0 |
| 127 | VERT5 | PX | -.001 | -.001 | 0 | 0 |
| 128 | VERT6 | PX | -.001 | -.001 | 0 | 0 |
| 129 | VERT7 | PX | -.001 | -.001 | 0 | 0 |
| 130 | VERT8 | PX | -.001 | -.001 | 0 | 0 |
| 131 | VERT9 | PX | -.001 | -.001 | 0 | 0 |
| 132 | VERT10 | PX | -.001 | -.001 | 0 | 0 |
| 133 | VERT11 | PX | -.001 | -.001 | 0 | 0 |
| 134 | VERT12 | PX | -.001 | -.001 | 0 | 0 |

## Member Distributed Loads (BLC 33 : Ice Wind Load (150))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .002 | .002 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .002 | .002 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .002 | .002 | 0 | 0 |
| 4 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 5 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 6 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 7 | DIAG1 | PY | .001 | .001 | 0 | 0 |
| 8 | DIAG2 | PY | .001 | .001 | 0 | 0 |
| 9 | DIAG3 | PY | .001 | .001 | 0 | 0 |
| 10 | DIAG4 | PY | .001 | .001 | 0 | 0 |
| 11 | DIAG5 | PY | .001 | .001 | 0 | 0 |
| 12 | DIAG6 | PY | .001 | .001 | 0 | 0 |
| 13 | FACE2A | PY | .002 | .002 | 0 | 0 |
| 14 | FACE2B | PY | .002 | .002 | 0 | 0 |
| 15 | FACE3A | PY | .005 | .005 | 0 | 0 |
| 16 | FACE3B | PY | .005 | .005 | 0 | 0 |
| 17 | FACE1A | PY | .005 | .005 | 0 | 0 |
| 18 | FACE1B | PY | .005 | .005 | 0 | 0 |
| 19 | HORIZ1 | PY | .001 | .001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 20 | HORIZ2 | PY | .001 | .001 | 0 | 0 |
| 21 | HORIZ3 | PY | .001 | .001 | 0 | 0 |
| 22 | LADDER1 | PY | .001 | .001 | 0 | 0 |
| 23 | LADDER2 | PY | .001 | .001 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .002 | .002 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .002 | .002 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .003 | .003 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .003 | .003 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .003 | .003 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .003 | .003 | 0 | 0 |
| 30 | MP BETA1 | PY | .003 | .003 | 0 | 0 |
| 31 | MP BETA2 | PY | .003 | .003 | 0 | 0 |
| 32 | MP BETA3 | PY | .003 | .003 | 0 | 0 |
| 33 | MP BETA4 | PY | .003 | .003 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .003 | .003 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .003 | .003 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .003 | .003 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .003 | .003 | 0 | 0 |
| 38 | PLATE1 | PY | .001 | .001 | 0 | 0 |
| 39 | PLATE2 | PY | .001 | .001 | 0 | 0 |
| 40 | PLATE3 | PY | .001 | .001 | 0 | 0 |
| 41 | RAIL2 | PY | .002 | .002 | 0 | 0 |
| 42 | RAIL1 | PY | .004 | .004 | 0 | 0 |
| 43 | RAIL3 | PY | .004 | .004 | 0 | 0 |
| 44 | RUNG1 | PY | .000679 | .000679 | 0 | 0 |
| 45 | RUNG2 | PY | .000679 | .000679 | 0 | 0 |
| 46 | RUNG3 | PY | .000679 | .000679 | 0 | 0 |
| 47 | RUNG4 | PY | .000679 | .000679 | 0 | 0 |
| 48 | RUNG5 | PY | .000679 | .000679 | 0 | 0 |
| 49 | RUNG6 | PY | .000679 | .000679 | 0 | 0 |
| 50 | RUNG7 | PY | .000679 | .000679 | 0 | 0 |
| 51 | SP1 | PY | .001 | .001 | 0 | 0 |
| 52 | SP2 | PY | .001 | .001 | 0 | 0 |
| 53 | SP3 | PY | .001 | .001 | 0 | 0 |
| 54 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 55 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 56 | VERT1 | PY | .001 | .001 | 0 | 0 |
| 57 | VERT2 | PY | .001 | .001 | 0 | 0 |
| 58 | VERT3 | PY | .001 | .001 | 0 | 0 |
| 59 | VERT4 | PY | .001 | .001 | 0 | 0 |
| 60 | VERT5 | PY | .001 | .001 | 0 | 0 |
| 61 | VERT6 | PY | .001 | .001 | 0 | 0 |
| 62 | VERT7 | PY | .001 | .001 | 0 | 0 |
| 63 | VERT8 | PY | .001 | .001 | 0 | 0 |
| 64 | VERT9 | PY | .001 | .001 | 0 | 0 |
| 65 | VERT10 | PY | .001 | .001 | 0 | 0 |
| 66 | VERT11 | PY | .001 | .001 | 0 | 0 |
| 67 | VERT12 | PY | .001 | .001 | 0 | 0 |
| 68 | CONNANGLE1 | PX | -.001 | -.001 | 0 | 0 |
| 69 | CONNANGLE2 | PX | -.001 | -.001 | 0 | 0 |
| 70 | CONNANGLE3 | PX | -.001 | -.001 | 0 | 0 |
| 71 | CORNER1 | PX | -.001 | -.001 | 0 | 0 |
| 72 | CORNER2 | PX | -.001 | -.001 | 0 | 0 |
| 73 | CORNER3 | PX | -.001 | -.001 | 0 | 0 |
| 74 | DIAG1 | PX | -.000834 | -.000834 | 0 | 0 |
| 75 | DIAG2 | PX | -.000834 | -.000834 | 0 | 0 |
| 76 | DIAG3 | PX | -.000834 | -.000834 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 77 | DIAG4 | PX | -.000834 | -.000834 | 0 | 0 |
| 78 | DIAG5 | PX | -.000834 | -.000834 | 0 | 0 |
| 79 | DIAG6 | PX | -.000834 | -.000834 | 0 | 0 |
| 80 | FACE2A | PX | -.001 | -.001 | 0 | 0 |
| 81 | FACE2B | PX | -.001 | -.001 | 0 | 0 |
| 82 | FACE3A | PX | -.003 | -.003 | 0 | 0 |
| 83 | FACE3B | PX | -.003 | -.003 | 0 | 0 |
| 84 | FACE1A | PX | -.003 | -.003 | 0 | 0 |
| 85 | FACE1B | PX | -.003 | -.003 | 0 | 0 |
| 86 | HORIZ1 | PX | -.000834 | -.000834 | 0 | 0 |
| 87 | HORIZ2 | PX | -.000834 | -.000834 | 0 | 0 |
| 88 | HORIZ3 | PX | -.000834 | -.000834 | 0 | 0 |
| 89 | LADDER1 | PX | -.000834 | -.000834 | 0 | 0 |
| 90 | LADDER2 | PX | -.000834 | -.000834 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | -.001 | -.001 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | -.001 | -.001 | 0 | 0 |
| 93 | MP ALPHA1 | PX | -.002 | -.002 | 0 | 0 |
| 94 | MP ALPHA2 | PX | -.002 | -.002 | 0 | 0 |
| 95 | MP ALPHA3 | PX | -.002 | -.002 | 0 | 0 |
| 96 | MP ALPHA4 | PX | -.002 | -.002 | 0 | 0 |
| 97 | MP BETA1 | PX | -.002 | -.002 | 0 | 0 |
| 98 | MP BETA2 | PX | -.002 | -.002 | 0 | 0 |
| 99 | MP BETA3 | PX | -.002 | -.002 | 0 | 0 |
| 100 | MP BETA4 | PX | -.002 | -.002 | 0 | 0 |
| 101 | MP GAMMA1 | PX | -.002 | -.002 | 0 | 0 |
| 102 | MP GAMMA2 | PX | -.002 | -.002 | 0 | 0 |
| 103 | MP GAMMA3 | PX | -.002 | -.002 | 0 | 0 |
| 104 | MP GAMMA4 | PX | -.002 | -.002 | 0 | 0 |
| 105 | PLATE1 | PX | -.000613 | -.000613 | 0 | 0 |
| 106 | PLATE2 | PX | -.000613 | -.000613 | 0 | 0 |
| 107 | PLATE3 | PX | -.000613 | -.000613 | 0 | 0 |
| 108 | RAIL2 | PX | -.001 | -.001 | 0 | 0 |
| 109 | RAIL1 | PX | -.002 | -.002 | 0 | 0 |
| 110 | RAIL3 | PX | -.002 | -.002 | 0 | 0 |
| 111 | RUNG1 | PX | -.000392 | -.000392 | 0 | 0 |
| 112 | RUNG2 | PX | -.000392 | -.000392 | 0 | 0 |
| 113 | RUNG3 | PX | -.000392 | -.000392 | 0 | 0 |
| 114 | RUNG4 | PX | -.000392 | -.000392 | 0 | 0 |
| 115 | RUNG5 | PX | -.000392 | -.000392 | 0 | 0 |
| 116 | RUNG6 | PX | -.000392 | -.000392 | 0 | 0 |
| 117 | RUNG7 | PX | -.000392 | -.000392 | 0 | 0 |
| 118 | SP1 | PX | -.000613 | -.000613 | 0 | 0 |
| 119 | SP2 | PX | -.000613 | -.000613 | 0 | 0 |
| 120 | SP3 | PX | -.000613 | -.000613 | 0 | 0 |
| 121 | SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 122 | SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 123 | VERT1 | PX | -.000834 | -.000834 | 0 | 0 |
| 124 | VERT2 | PX | -.000834 | -.000834 | 0 | 0 |
| 125 | VERT3 | PX | -.000834 | -.000834 | 0 | 0 |
| 126 | VERT4 | PX | -.000834 | -.000834 | 0 | 0 |
| 127 | VERT5 | PX | -.000834 | -.000834 | 0 | 0 |
| 128 | VERT6 | PX | -.000834 | -.000834 | 0 | 0 |
| 129 | VERT7 | PX | -.000834 | -.000834 | 0 | 0 |
| 130 | VERT8 | PX | -.000834 | -.000834 | 0 | 0 |
| 131 | VERT9 | PX | -.000834 | -.000834 | 0 | 0 |
| 132 | VERT10 | PX | -.000834 | -.000834 | 0 | 0 |
| 133 | VERT11 | PX | -.000834 | -.000834 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 134 | VERT12 | PX | -.000834 | -.000834 | 0 | 0 |

## Member Distributed Loads (BLC 34 : Ice Wind Load (180))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .002 | .002 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .002 | .002 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .002 | .002 | 0 | 0 |
| 4 | CORNER1 | PY | .003 | .003 | 0 | 0 |
| 5 | CORNER2 | PY | .003 | .003 | 0 | 0 |
| 6 | CORNER3 | PY | .003 | .003 | 0 | 0 |
| 7 | DIAG1 | PY | .002 | .002 | 0 | 0 |
| 8 | DIAG2 | PY | .002 | .002 | 0 | 0 |
| 9 | DIAG3 | PY | .002 | .002 | 0 | 0 |
| 10 | DIAG4 | PY | .002 | .002 | 0 | 0 |
| 11 | DIAG5 | PY | .002 | .002 | 0 | 0 |
| 12 | DIAG6 | PY | .002 | .002 | 0 | 0 |
| 13 | FACE2A | PY | .003 | .003 | 0 | 0 |
| 14 | FACE2B | PY | .003 | .003 | 0 | 0 |
| 15 | FACE3A | PY | .005 | .005 | 0 | 0 |
| 16 | FACE3B | PY | .005 | .005 | 0 | 0 |
| 17 | FACE1A | PY | .005 | .005 | 0 | 0 |
| 18 | FACE1B | PY | .005 | .005 | 0 | 0 |
| 19 | HORIZ1 | PY | .002 | .002 | 0 | 0 |
| 20 | HORIZ2 | PY | .002 | .002 | 0 | 0 |
| 21 | HORIZ3 | PY | .002 | .002 | 0 | 0 |
| 22 | LADDER1 | PY | .002 | .002 | 0 | 0 |
| 23 | LADDER2 | PY | .002 | .002 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .002 | .002 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .002 | .002 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .003 | .003 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .003 | .003 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .003 | .003 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .003 | .003 | 0 | 0 |
| 30 | MP BETA1 | PY | .003 | .003 | 0 | 0 |
| 31 | MP BETA2 | PY | .003 | .003 | 0 | 0 |
| 32 | MP BETA3 | PY | .003 | .003 | 0 | 0 |
| 33 | MP BETA4 | PY | .003 | .003 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .003 | .003 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .003 | .003 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .003 | .003 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .003 | .003 | 0 | 0 |
| 38 | PLATE1 | PY | .001 | .001 | 0 | 0 |
| 39 | PLATE2 | PY | .001 | .001 | 0 | 0 |
| 40 | PLATE3 | PY | .001 | .001 | 0 | 0 |
| 41 | RAIL2 | PY | .002 | .002 | 0 | 0 |
| 42 | RAIL1 | PY | .004 | .004 | 0 | 0 |
| 43 | RAIL3 | PY | .004 | .004 | 0 | 0 |
| 44 | RUNG1 | PY | .000784 | .000784 | 0 | 0 |
| 45 | RUNG2 | PY | .000784 | .000784 | 0 | 0 |
| 46 | RUNG3 | PY | .000784 | .000784 | 0 | 0 |
| 47 | RUNG4 | PY | .000784 | .000784 | 0 | 0 |
| 48 | RUNG5 | PY | .000784 | .000784 | 0 | 0 |
| 49 | RUNG6 | PY | .000784 | .000784 | 0 | 0 |
| 50 | RUNG7 | PY | .000784 | .000784 | 0 | 0 |
| 51 | SP1 | PY | .001 | .001 | 0 | 0 |
| 52 | SP2 | PY | .001 | .001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 53 | SP3 | PY | .001 | .001 | 0 | 0 |
| 54 | SUPPORT1 | PY | .003 | .003 | 0 | 0 |
| 55 | SUPPORT2 | PY | .003 | .003 | 0 | 0 |
| 56 | VERT1 | PY | .002 | .002 | 0 | 0 |
| 57 | VERT2 | PY | .002 | .002 | 0 | 0 |
| 58 | VERT3 | PY | .002 | .002 | 0 | 0 |
| 59 | VERT4 | PY | .002 | .002 | 0 | 0 |
| 60 | VERT5 | PY | .002 | .002 | 0 | 0 |
| 61 | VERT6 | PY | .002 | .002 | 0 | 0 |
| 62 | VERT7 | PY | .002 | .002 | 0 | 0 |
| 63 | VERT8 | PY | .002 | .002 | 0 | 0 |
| 64 | VERT9 | PY | .002 | .002 | 0 | 0 |
| 65 | VERT10 | PY | .002 | .002 | 0 | 0 |
| 66 | VERT11 | PY | .002 | .002 | 0 | 0 |
| 67 | VERT12 | PY | .002 | .002 | 0 | 0 |

## Member Distributed Loads (BLC 35 : Ice Wind Load (210))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .002 | .002 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .002 | .002 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .002 | .002 | 0 | 0 |
| 4 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 5 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 6 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 7 | DIAG1 | PY | .001 | .001 | 0 | 0 |
| 8 | DIAG2 | PY | .001 | .001 | 0 | 0 |
| 9 | DIAG3 | PY | .001 | .001 | 0 | 0 |
| 10 | DIAG4 | PY | .001 | .001 | 0 | 0 |
| 11 | DIAG5 | PY | .001 | .001 | 0 | 0 |
| 12 | DIAG6 | PY | .001 | .001 | 0 | 0 |
| 13 | FACE3A | PY | .002 | .002 | 0 | 0 |
| 14 | FACE3B | PY | .002 | .002 | 0 | 0 |
| 15 | FACE2A | PY | .005 | .005 | 0 | 0 |
| 16 | FACE2B | PY | .005 | .005 | 0 | 0 |
| 17 | FACE1A | PY | .005 | .005 | 0 | 0 |
| 18 | FACE1B | PY | .005 | .005 | 0 | 0 |
| 19 | HORIZ1 | PY | .001 | .001 | 0 | 0 |
| 20 | HORIZ2 | PY | .001 | .001 | 0 | 0 |
| 21 | HORIZ3 | PY | .001 | .001 | 0 | 0 |
| 22 | LADDER1 | PY | .001 | .001 | 0 | 0 |
| 23 | LADDER2 | PY | .001 | .001 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .002 | .002 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .002 | .002 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .003 | .003 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .003 | .003 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .003 | .003 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .003 | .003 | 0 | 0 |
| 30 | MP BETA1 | PY | .003 | .003 | 0 | 0 |
| 31 | MP BETA2 | PY | .003 | .003 | 0 | 0 |
| 32 | MP BETA3 | PY | .003 | .003 | 0 | 0 |
| 33 | MP BETA4 | PY | .003 | .003 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .003 | .003 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .003 | .003 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .003 | .003 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .003 | .003 | 0 | 0 |
| 38 | PLATE1 | PY | .001 | .001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 39 | PLATE2 | PY | .001 | .001 | 0 | 0 |
| 40 | PLATE3 | PY | .001 | .001 | 0 | 0 |
| 41 | RAIL3 | PY | .002 | .002 | 0 | 0 |
| 42 | RAIL2 | PY | .004 | .004 | 0 | 0 |
| 43 | RAIL1 | PY | .004 | .004 | 0 | 0 |
| 44 | RUNG1 | PY | .000679 | .000679 | 0 | 0 |
| 45 | RUNG2 | PY | .000679 | .000679 | 0 | 0 |
| 46 | RUNG3 | PY | .000679 | .000679 | 0 | 0 |
| 47 | RUNG4 | PY | .000679 | .000679 | 0 | 0 |
| 48 | RUNG5 | PY | .000679 | .000679 | 0 | 0 |
| 49 | RUNG6 | PY | .000679 | .000679 | 0 | 0 |
| 50 | RUNG7 | PY | .000679 | .000679 | 0 | 0 |
| 51 | SP1 | PY | .001 | .001 | 0 | 0 |
| 52 | SP2 | PY | .001 | .001 | 0 | 0 |
| 53 | SP3 | PY | .001 | .001 | 0 | 0 |
| 54 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 55 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 56 | VERT1 | PY | .001 | .001 | 0 | 0 |
| 57 | VERT2 | PY | .001 | .001 | 0 | 0 |
| 58 | VERT3 | PY | .001 | .001 | 0 | 0 |
| 59 | VERT4 | PY | .001 | .001 | 0 | 0 |
| 60 | VERT5 | PY | .001 | .001 | 0 | 0 |
| 61 | VERT6 | PY | .001 | .001 | 0 | 0 |
| 62 | VERT7 | PY | .001 | .001 | 0 | 0 |
| 63 | VERT8 | PY | .001 | .001 | 0 | 0 |
| 64 | VERT9 | PY | .001 | .001 | 0 | 0 |
| 65 | VERT10 | PY | .001 | .001 | 0 | 0 |
| 66 | VERT11 | PY | .001 | .001 | 0 | 0 |
| 67 | VERT12 | PY | .001 | .001 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .001 | .001 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .001 | .001 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .001 | .001 | 0 | 0 |
| 71 | CORNER1 | PX | .001 | .001 | 0 | 0 |
| 72 | CORNER2 | PX | .001 | .001 | 0 | 0 |
| 73 | CORNER3 | PX | .001 | .001 | 0 | 0 |
| 74 | DIAG1 | PX | .000834 | .000834 | 0 | 0 |
| 75 | DIAG2 | PX | .000834 | .000834 | 0 | 0 |
| 76 | DIAG3 | PX | .000834 | .000834 | 0 | 0 |
| 77 | DIAG4 | PX | .000834 | .000834 | 0 | 0 |
| 78 | DIAG5 | PX | .000834 | .000834 | 0 | 0 |
| 79 | DIAG6 | PX | .000834 | .000834 | 0 | 0 |
| 80 | FACE3A | PX | .001 | .001 | 0 | 0 |
| 81 | FACE3B | PX | .001 | .001 | 0 | 0 |
| 82 | FACE2A | PX | .003 | .003 | 0 | 0 |
| 83 | FACE2B | PX | .003 | .003 | 0 | 0 |
| 84 | FACE1A | PX | .003 | .003 | 0 | 0 |
| 85 | FACE1B | PX | .003 | .003 | 0 | 0 |
| 86 | HORIZ1 | PX | .000834 | .000834 | 0 | 0 |
| 87 | HORIZ2 | PX | .000834 | .000834 | 0 | 0 |
| 88 | HORIZ3 | PX | .000834 | .000834 | 0 | 0 |
| 89 | LADDER1 | PX | .000834 | .000834 | 0 | 0 |
| 90 | LADDER2 | PX | .000834 | .000834 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .001 | .001 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .001 | .001 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .002 | .002 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .002 | .002 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 96 | MP ALPHA4 | PX | .002 | .002 | 0 | 0 |
| 97 | MP BETA1 | PX | .002 | .002 | 0 | 0 |
| 98 | MP BETA2 | PX | .002 | .002 | 0 | 0 |
| 99 | MP BETA3 | PX | .002 | .002 | 0 | 0 |
| 100 | MP BETA4 | PX | .002 | .002 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .002 | .002 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .002 | .002 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .002 | .002 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .002 | .002 | 0 | 0 |
| 105 | PLATE1 | PX | .000613 | .000613 | 0 | 0 |
| 106 | PLATE2 | PX | .000613 | .000613 | 0 | 0 |
| 107 | PLATE3 | PX | .000613 | .000613 | 0 | 0 |
| 108 | RAIL3 | PX | .001 | .001 | 0 | 0 |
| 109 | RAIL2 | PX | .002 | .002 | 0 | 0 |
| 110 | RAIL1 | PX | .002 | .002 | 0 | 0 |
| 111 | RUNG1 | PX | .000392 | .000392 | 0 | 0 |
| 112 | RUNG2 | PX | .000392 | .000392 | 0 | 0 |
| 113 | RUNG3 | PX | .000392 | .000392 | 0 | 0 |
| 114 | RUNG4 | PX | .000392 | .000392 | 0 | 0 |
| 115 | RUNG5 | PX | .000392 | .000392 | 0 | 0 |
| 116 | RUNG6 | PX | .000392 | .000392 | 0 | 0 |
| 117 | RUNG7 | PX | .000392 | .000392 | 0 | 0 |
| 118 | SP1 | PX | .000613 | .000613 | 0 | 0 |
| 119 | SP2 | PX | .000613 | .000613 | 0 | 0 |
| 120 | SP3 | PX | .000613 | .000613 | 0 | 0 |
| 121 | SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 122 | SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 123 | VERT1 | PX | .000834 | .000834 | 0 | 0 |
| 124 | VERT2 | PX | .000834 | .000834 | 0 | 0 |
| 125 | VERT3 | PX | .000834 | .000834 | 0 | 0 |
| 126 | VERT4 | PX | .000834 | .000834 | 0 | 0 |
| 127 | VERT5 | PX | .000834 | .000834 | 0 | 0 |
| 128 | VERT6 | PX | .000834 | .000834 | 0 | 0 |
| 129 | VERT7 | PX | .000834 | .000834 | 0 | 0 |
| 130 | VERT8 | PX | .000834 | .000834 | 0 | 0 |
| 131 | VERT9 | PX | .000834 | .000834 | 0 | 0 |
| 132 | VERT10 | PX | .000834 | .000834 | 0 | 0 |
| 133 | VERT11 | PX | .000834 | .000834 | 0 | 0 |
| 134 | VERT12 | PX | .000834 | .000834 | 0 | 0 |

## Member Distributed Loads (BLC 36 : Ice Wind Load (240))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | .001 | .001 | 0 | 0 |
| 2 | CONNANGLE2 | PY | .001 | .001 | 0 | 0 |
| 3 | CONNANGLE3 | PY | .001 | .001 | 0 | 0 |
| 4 | CORNER1 | PY | .001 | .001 | 0 | 0 |
| 5 | CORNER2 | PY | .001 | .001 | 0 | 0 |
| 6 | CORNER3 | PY | .001 | .001 | 0 | 0 |
| 7 | DIAG1 | PY | .000834 | .000834 | 0 | 0 |
| 8 | DIAG2 | PY | .000834 | .000834 | 0 | 0 |
| 9 | DIAG3 | PY | .000834 | .000834 | 0 | 0 |
| 10 | DIAG4 | PY | .000834 | .000834 | 0 | 0 |
| 11 | DIAG5 | PY | .000834 | .000834 | 0 | 0 |
| 12 | DIAG6 | PY | .000834 | .000834 | 0 | 0 |
| 13 | FACE3A | PY | .001 | .001 | 0 | 0 |
| 14 | FACE3B | PY | .001 | .001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 15 | FACE2A | PY | .003 | .003 | 0 | 0 |
| 16 | FACE2B | PY | .003 | .003 | 0 | 0 |
| 17 | FACE1A | PY | .003 | .003 | 0 | 0 |
| 18 | FACE1B | PY | .003 | .003 | 0 | 0 |
| 19 | HORIZ1 | PY | .000834 | .000834 | 0 | 0 |
| 20 | HORIZ2 | PY | .000834 | .000834 | 0 | 0 |
| 21 | HORIZ3 | PY | .000834 | .000834 | 0 | 0 |
| 22 | LADDER1 | PY | .000834 | .000834 | 0 | 0 |
| 23 | LADDER2 | PY | .000834 | .000834 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | .001 | .001 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | .001 | .001 | 0 | 0 |
| 26 | MP ALPHA1 | PY | .002 | .002 | 0 | 0 |
| 27 | MP ALPHA2 | PY | .002 | .002 | 0 | 0 |
| 28 | MP ALPHA3 | PY | .002 | .002 | 0 | 0 |
| 29 | MP ALPHA4 | PY | .002 | .002 | 0 | 0 |
| 30 | MP BETA1 | PY | .002 | .002 | 0 | 0 |
| 31 | MP BETA2 | PY | .002 | .002 | 0 | 0 |
| 32 | MP BETA3 | PY | .002 | .002 | 0 | 0 |
| 33 | MP BETA4 | PY | .002 | .002 | 0 | 0 |
| 34 | MP GAMMA1 | PY | .002 | .002 | 0 | 0 |
| 35 | MP GAMMA2 | PY | .002 | .002 | 0 | 0 |
| 36 | MP GAMMA3 | PY | .002 | .002 | 0 | 0 |
| 37 | MP GAMMA4 | PY | .002 | .002 | 0 | 0 |
| 38 | PLATE1 | PY | .000613 | .000613 | 0 | 0 |
| 39 | PLATE2 | PY | .000613 | .000613 | 0 | 0 |
| 40 | PLATE3 | PY | .000613 | .000613 | 0 | 0 |
| 41 | RAIL3 | PY | .001 | .001 | 0 | 0 |
| 42 | RAIL2 | PY | .002 | .002 | 0 | 0 |
| 43 | RAIL1 | PY | .002 | .002 | 0 | 0 |
| 44 | RUNG1 | PY | .000392 | .000392 | 0 | 0 |
| 45 | RUNG2 | PY | .000392 | .000392 | 0 | 0 |
| 46 | RUNG3 | PY | .000392 | .000392 | 0 | 0 |
| 47 | RUNG4 | PY | .000392 | .000392 | 0 | 0 |
| 48 | RUNG5 | PY | .000392 | .000392 | 0 | 0 |
| 49 | RUNG6 | PY | .000392 | .000392 | 0 | 0 |
| 50 | RUNG7 | PY | .000392 | .000392 | 0 | 0 |
| 51 | SP1 | PY | .000613 | .000613 | 0 | 0 |
| 52 | SP2 | PY | .000613 | .000613 | 0 | 0 |
| 53 | SP3 | PY | .000613 | .000613 | 0 | 0 |
| 54 | SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 55 | SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 56 | VERT1 | PY | .000834 | .000834 | 0 | 0 |
| 57 | VERT2 | PY | .000834 | .000834 | 0 | 0 |
| 58 | VERT3 | PY | .000834 | .000834 | 0 | 0 |
| 59 | VERT4 | PY | .000834 | .000834 | 0 | 0 |
| 60 | VERT5 | PY | .000834 | .000834 | 0 | 0 |
| 61 | VERT6 | PY | .000834 | .000834 | 0 | 0 |
| 62 | VERT7 | PY | .000834 | .000834 | 0 | 0 |
| 63 | VERT8 | PY | .000834 | .000834 | 0 | 0 |
| 64 | VERT9 | PY | .000834 | .000834 | 0 | 0 |
| 65 | VERT10 | PY | .000834 | .000834 | 0 | 0 |
| 66 | VERT11 | PY | .000834 | .000834 | 0 | 0 |
| 67 | VERT12 | PY | .000834 | .000834 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .002 | .002 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .002 | .002 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .002 | .002 | 0 | 0 |
| 71 | CORNER1 | PX | .002 | .002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 72 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 73 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 74 | DIAG1 | PX | .001 | .001 | 0 | 0 |
| 75 | DIAG2 | PX | .001 | .001 | 0 | 0 |
| 76 | DIAG3 | PX | .001 | .001 | 0 | 0 |
| 77 | DIAG4 | PX | .001 | .001 | 0 | 0 |
| 78 | DIAG5 | PX | .001 | .001 | 0 | 0 |
| 79 | DIAG6 | PX | .001 | .001 | 0 | 0 |
| 80 | FACE3A | PX | .002 | .002 | 0 | 0 |
| 81 | FACE3B | PX | .002 | .002 | 0 | 0 |
| 82 | FACE2A | PX | .005 | .005 | 0 | 0 |
| 83 | FACE2B | PX | .005 | .005 | 0 | 0 |
| 84 | FACE1A | PX | .005 | .005 | 0 | 0 |
| 85 | FACE1B | PX | .005 | .005 | 0 | 0 |
| 86 | HORIZ1 | PX | .001 | .001 | 0 | 0 |
| 87 | HORIZ2 | PX | .001 | .001 | 0 | 0 |
| 88 | HORIZ3 | PX | .001 | .001 | 0 | 0 |
| 89 | LADDER1 | PX | .001 | .001 | 0 | 0 |
| 90 | LADDER2 | PX | .001 | .001 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .002 | .002 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .002 | .002 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .003 | .003 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .003 | .003 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .003 | .003 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .003 | .003 | 0 | 0 |
| 97 | MP BETA1 | PX | .003 | .003 | 0 | 0 |
| 98 | MP BETA2 | PX | .003 | .003 | 0 | 0 |
| 99 | MP BETA3 | PX | .003 | .003 | 0 | 0 |
| 100 | MP BETA4 | PX | .003 | .003 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .003 | .003 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .003 | .003 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .003 | .003 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .003 | .003 | 0 | 0 |
| 105 | PLATE1 | PX | .001 | .001 | 0 | 0 |
| 106 | PLATE2 | PX | .001 | .001 | 0 | 0 |
| 107 | PLATE3 | PX | .001 | .001 | 0 | 0 |
| 108 | RAIL3 | PX | .002 | .002 | 0 | 0 |
| 109 | RAIL2 | PX | .004 | .004 | 0 | 0 |
| 110 | RAIL1 | PX | .004 | .004 | 0 | 0 |
| 111 | RUNG1 | PX | .000679 | .000679 | 0 | 0 |
| 112 | RUNG2 | PX | .000679 | .000679 | 0 | 0 |
| 113 | RUNG3 | PX | .000679 | .000679 | 0 | 0 |
| 114 | RUNG4 | PX | .000679 | .000679 | 0 | 0 |
| 115 | RUNG5 | PX | .000679 | .000679 | 0 | 0 |
| 116 | RUNG6 | PX | .000679 | .000679 | 0 | 0 |
| 117 | RUNG7 | PX | .000679 | .000679 | 0 | 0 |
| 118 | SP1 | PX | .001 | .001 | 0 | 0 |
| 119 | SP2 | PX | .001 | .001 | 0 | 0 |
| 120 | SP3 | PX | .001 | .001 | 0 | 0 |
| 121 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 122 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 123 | VERT1 | PX | .001 | .001 | 0 | 0 |
| 124 | VERT2 | PX | .001 | .001 | 0 | 0 |
| 125 | VERT3 | PX | .001 | .001 | 0 | 0 |
| 126 | VERT4 | PX | .001 | .001 | 0 | 0 |
| 127 | VERT5 | PX | .001 | .001 | 0 | 0 |
| 128 | VERT6 | PX | .001 | .001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 129 | VERT7 | PX | .001 | .001 | 0 | 0 |
| 130 | VERT8 | PX | .001 | .001 | 0 | 0 |
| 131 | VERT9 | PX | .001 | .001 | 0 | 0 |
| 132 | VERT10 | PX | .001 | .001 | 0 | 0 |
| 133 | VERT11 | PX | .001 | .001 | 0 | 0 |
| 134 | VERT12 | PX | .001 | .001 | 0 | 0 |

## Member Distributed Loads (BLC 37 : Ice Wind Load (270))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PX | .002 | .002 | 0 | 0 |
| 2 | CONNANGLE2 | PX | .002 | .002 | 0 | 0 |
| 3 | CONNANGLE3 | PX | .002 | .002 | 0 | 0 |
| 4 | CORNER1 | PX | .003 | .003 | 0 | 0 |
| 5 | CORNER2 | PX | .003 | .003 | 0 | 0 |
| 6 | CORNER3 | PX | .003 | .003 | 0 | 0 |
| 7 | DIAG1 | PX | .002 | .002 | 0 | 0 |
| 8 | DIAG2 | PX | .002 | .002 | 0 | 0 |
| 9 | DIAG3 | PX | .002 | .002 | 0 | 0 |
| 10 | DIAG4 | PX | .002 | .002 | 0 | 0 |
| 11 | DIAG5 | PX | .002 | .002 | 0 | 0 |
| 12 | DIAG6 | PX | .002 | .002 | 0 | 0 |
| 13 | FACE3A | PX | .003 | .003 | 0 | 0 |
| 14 | FACE3B | PX | .003 | .003 | 0 | 0 |
| 15 | FACE2A | PX | .005 | .005 | 0 | 0 |
| 16 | FACE2B | PX | .005 | .005 | 0 | 0 |
| 17 | FACE1A | PX | .005 | .005 | 0 | 0 |
| 18 | FACE1B | PX | .005 | .005 | 0 | 0 |
| 19 | HORIZ1 | PX | .002 | .002 | 0 | 0 |
| 20 | HORIZ2 | PX | .002 | .002 | 0 | 0 |
| 21 | HORIZ3 | PX | .002 | .002 | 0 | 0 |
| 22 | LADDER1 | PX | .002 | .002 | 0 | 0 |
| 23 | LADDER2 | PX | .002 | .002 | 0 | 0 |
| 24 | LADDERPLATE1 | PX | .002 | .002 | 0 | 0 |
| 25 | LADDERPLATE2 | PX | .002 | .002 | 0 | 0 |
| 26 | MP ALPHA1 | PX | .003 | .003 | 0 | 0 |
| 27 | MP ALPHA2 | PX | .003 | .003 | 0 | 0 |
| 28 | MP ALPHA3 | PX | .003 | .003 | 0 | 0 |
| 29 | MP ALPHA4 | PX | .003 | .003 | 0 | 0 |
| 30 | MP BETA1 | PX | .003 | .003 | 0 | 0 |
| 31 | MP BETA2 | PX | .003 | .003 | 0 | 0 |
| 32 | MP BETA3 | PX | .003 | .003 | 0 | 0 |
| 33 | MP BETA4 | PX | .003 | .003 | 0 | 0 |
| 34 | MP GAMMA1 | PX | .003 | .003 | 0 | 0 |
| 35 | MP GAMMA2 | PX | .003 | .003 | 0 | 0 |
| 36 | MP GAMMA3 | PX | .003 | .003 | 0 | 0 |
| 37 | MP GAMMA4 | PX | .003 | .003 | 0 | 0 |
| 38 | PLATE1 | PX | .001 | .001 | 0 | 0 |
| 39 | PLATE2 | PX | .001 | .001 | 0 | 0 |
| 40 | PLATE3 | PX | .001 | .001 | 0 | 0 |
| 41 | RAIL3 | PX | .002 | .002 | 0 | 0 |
| 42 | RAIL2 | PX | .004 | .004 | 0 | 0 |
| 43 | RAIL1 | PX | .004 | .004 | 0 | 0 |
| 44 | RUNG1 | PX | .000784 | .000784 | 0 | 0 |
| 45 | RUNG2 | PX | .000784 | .000784 | 0 | 0 |
| 46 | RUNG3 | PX | .000784 | .000784 | 0 | 0 |
| 47 | RUNG4 | PX | .000784 | .000784 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 48 | RUNG5 | PX | .000784 | .000784 | 0 | 0 |
| 49 | RUNG6 | PX | .000784 | .000784 | 0 | 0 |
| 50 | RUNG7 | PX | .000784 | .000784 | 0 | 0 |
| 51 | SP1 | PX | .001 | .001 | 0 | 0 |
| 52 | SP2 | PX | .001 | .001 | 0 | 0 |
| 53 | SP3 | PX | .001 | .001 | 0 | 0 |
| 54 | SUPPORT1 | PX | .003 | .003 | 0 | 0 |
| 55 | SUPPORT2 | PX | .003 | .003 | 0 | 0 |
| 56 | VERT1 | PX | .002 | .002 | 0 | 0 |
| 57 | VERT2 | PX | .002 | .002 | 0 | 0 |
| 58 | VERT3 | PX | .002 | .002 | 0 | 0 |
| 59 | VERT4 | PX | .002 | .002 | 0 | 0 |
| 60 | VERT5 | PX | .002 | .002 | 0 | 0 |
| 61 | VERT6 | PX | .002 | .002 | 0 | 0 |
| 62 | VERT7 | PX | .002 | .002 | 0 | 0 |
| 63 | VERT8 | PX | .002 | .002 | 0 | 0 |
| 64 | VERT9 | PX | .002 | .002 | 0 | 0 |
| 65 | VERT10 | PX | .002 | .002 | 0 | 0 |
| 66 | VERT11 | PX | .002 | .002 | 0 | 0 |
| 67 | VERT12 | PX | .002 | .002 | 0 | 0 |

## Member Distributed Loads (BLC 38 : Ice Wind Load (300))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.001 | -.001 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.001 | -.001 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.001 | -.001 | 0 | 0 |
| 4 | CORNER1 | PY | -.001 | -.001 | 0 | 0 |
| 5 | CORNER2 | PY | -.001 | -.001 | 0 | 0 |
| 6 | CORNER3 | PY | -.001 | -.001 | 0 | 0 |
| 7 | DIAG1 | PY | -.000834 | -.000834 | 0 | 0 |
| 8 | DIAG2 | PY | -.000834 | -.000834 | 0 | 0 |
| 9 | DIAG3 | PY | -.000834 | -.000834 | 0 | 0 |
| 10 | DIAG4 | PY | -.000834 | -.000834 | 0 | 0 |
| 11 | DIAG5 | PY | -.000834 | -.000834 | 0 | 0 |
| 12 | DIAG6 | PY | -.000834 | -.000834 | 0 | 0 |
| 13 | FACE3A | PY | -.001 | -.001 | 0 | 0 |
| 14 | FACE3B | PY | -.001 | -.001 | 0 | 0 |
| 15 | FACE2A | PY | -.003 | -.003 | 0 | 0 |
| 16 | FACE2B | PY | -.003 | -.003 | 0 | 0 |
| 17 | FACE1A | PY | -.003 | -.003 | 0 | 0 |
| 18 | FACE1B | PY | -.003 | -.003 | 0 | 0 |
| 19 | HORIZ1 | PY | -.000834 | -.000834 | 0 | 0 |
| 20 | HORIZ2 | PY | -.000834 | -.000834 | 0 | 0 |
| 21 | HORIZ3 | PY | -.000834 | -.000834 | 0 | 0 |
| 22 | LADDER1 | PY | -.000834 | -.000834 | 0 | 0 |
| 23 | LADDER2 | PY | -.000834 | -.000834 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.001 | -.001 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.001 | -.001 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.002 | -.002 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.002 | -.002 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.002 | -.002 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.002 | -.002 | 0 | 0 |
| 30 | MP BETA1 | PY | -.002 | -.002 | 0 | 0 |
| 31 | MP BETA2 | PY | -.002 | -.002 | 0 | 0 |
| 32 | MP BETA3 | PY | -.002 | -.002 | 0 | 0 |
| 33 | MP BETA4 | PY | -.002 | -.002 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 34 | MP GAMMA1 | PY | -.002 | -.002 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.002 | -.002 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.002 | -.002 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.002 | -.002 | 0 | 0 |
| 38 | PLATE1 | PY | -.000613 | -.000613 | 0 | 0 |
| 39 | PLATE2 | PY | -.000613 | -.000613 | 0 | 0 |
| 40 | PLATE3 | PY | -.000613 | -.000613 | 0 | 0 |
| 41 | RAIL3 | PY | -.001 | -.001 | 0 | 0 |
| 42 | RAIL2 | PY | -.002 | -.002 | 0 | 0 |
| 43 | RAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 44 | RUNG1 | PY | -.000392 | -.000392 | 0 | 0 |
| 45 | RUNG2 | PY | -.000392 | -.000392 | 0 | 0 |
| 46 | RUNG3 | PY | -.000392 | -.000392 | 0 | 0 |
| 47 | RUNG4 | PY | -.000392 | -.000392 | 0 | 0 |
| 48 | RUNG5 | PY | -.000392 | -.000392 | 0 | 0 |
| 49 | RUNG6 | PY | -.000392 | -.000392 | 0 | 0 |
| 50 | RUNG7 | PY | -.000392 | -.000392 | 0 | 0 |
| 51 | SP1 | PY | -.000613 | -.000613 | 0 | 0 |
| 52 | SP2 | PY | -.000613 | -.000613 | 0 | 0 |
| 53 | SP3 | PY | -.000613 | -.000613 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 56 | VERT1 | PY | -.000834 | -.000834 | 0 | 0 |
| 57 | VERT2 | PY | -.000834 | -.000834 | 0 | 0 |
| 58 | VERT3 | PY | -.000834 | -.000834 | 0 | 0 |
| 59 | VERT4 | PY | -.000834 | -.000834 | 0 | 0 |
| 60 | VERT5 | PY | -.000834 | -.000834 | 0 | 0 |
| 61 | VERT6 | PY | -.000834 | -.000834 | 0 | 0 |
| 62 | VERT7 | PY | -.000834 | -.000834 | 0 | 0 |
| 63 | VERT8 | PY | -.000834 | -.000834 | 0 | 0 |
| 64 | VERT9 | PY | -.000834 | -.000834 | 0 | 0 |
| 65 | VERT10 | PY | -.000834 | -.000834 | 0 | 0 |
| 66 | VERT11 | PY | -.000834 | -.000834 | 0 | 0 |
| 67 | VERT12 | PY | -.000834 | -.000834 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .002 | .002 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .002 | .002 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .002 | .002 | 0 | 0 |
| 71 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 72 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 73 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 74 | DIAG1 | PX | .001 | .001 | 0 | 0 |
| 75 | DIAG2 | PX | .001 | .001 | 0 | 0 |
| 76 | DIAG3 | PX | .001 | .001 | 0 | 0 |
| 77 | DIAG4 | PX | .001 | .001 | 0 | 0 |
| 78 | DIAG5 | PX | .001 | .001 | 0 | 0 |
| 79 | DIAG6 | PX | .001 | .001 | 0 | 0 |
| 80 | FACE3A | PX | .002 | .002 | 0 | 0 |
| 81 | FACE3B | PX | .002 | .002 | 0 | 0 |
| 82 | FACE2A | PX | .005 | .005 | 0 | 0 |
| 83 | FACE2B | PX | .005 | .005 | 0 | 0 |
| 84 | FACE1A | PX | .005 | .005 | 0 | 0 |
| 85 | FACE1B | PX | .005 | .005 | 0 | 0 |
| 86 | HORIZ1 | PX | .001 | .001 | 0 | 0 |
| 87 | HORIZ2 | PX | .001 | .001 | 0 | 0 |
| 88 | HORIZ3 | PX | .001 | .001 | 0 | 0 |
| 89 | LADDER1 | PX | .001 | .001 | 0 | 0 |
| 90 | LADDER2 | PX | .001 | .001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 91 | LADDERPLATE1 | PX | .002 | .002 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .002 | .002 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .003 | .003 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .003 | .003 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .003 | .003 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .003 | .003 | 0 | 0 |
| 97 | MP BETA1 | PX | .003 | .003 | 0 | 0 |
| 98 | MP BETA2 | PX | .003 | .003 | 0 | 0 |
| 99 | MP BETA3 | PX | .003 | .003 | 0 | 0 |
| 100 | MP BETA4 | PX | .003 | .003 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .003 | .003 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .003 | .003 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .003 | .003 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .003 | .003 | 0 | 0 |
| 105 | PLATE1 | PX | .001 | .001 | 0 | 0 |
| 106 | PLATE2 | PX | .001 | .001 | 0 | 0 |
| 107 | PLATE3 | PX | .001 | .001 | 0 | 0 |
| 108 | RAIL3 | PX | .002 | .002 | 0 | 0 |
| 109 | RAIL2 | PX | .004 | .004 | 0 | 0 |
| 110 | RAIL1 | PX | .004 | .004 | 0 | 0 |
| 111 | RUNG1 | PX | .000679 | .000679 | 0 | 0 |
| 112 | RUNG2 | PX | .000679 | .000679 | 0 | 0 |
| 113 | RUNG3 | PX | .000679 | .000679 | 0 | 0 |
| 114 | RUNG4 | PX | .000679 | .000679 | 0 | 0 |
| 115 | RUNG5 | PX | .000679 | .000679 | 0 | 0 |
| 116 | RUNG6 | PX | .000679 | .000679 | 0 | 0 |
| 117 | RUNG7 | PX | .000679 | .000679 | 0 | 0 |
| 118 | SP1 | PX | .001 | .001 | 0 | 0 |
| 119 | SP2 | PX | .001 | .001 | 0 | 0 |
| 120 | SP3 | PX | .001 | .001 | 0 | 0 |
| 121 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 122 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 123 | VERT1 | PX | .001 | .001 | 0 | 0 |
| 124 | VERT2 | PX | .001 | .001 | 0 | 0 |
| 125 | VERT3 | PX | .001 | .001 | 0 | 0 |
| 126 | VERT4 | PX | .001 | .001 | 0 | 0 |
| 127 | VERT5 | PX | .001 | .001 | 0 | 0 |
| 128 | VERT6 | PX | .001 | .001 | 0 | 0 |
| 129 | VERT7 | PX | .001 | .001 | 0 | 0 |
| 130 | VERT8 | PX | .001 | .001 | 0 | 0 |
| 131 | VERT9 | PX | .001 | .001 | 0 | 0 |
| 132 | VERT10 | PX | .001 | .001 | 0 | 0 |
| 133 | VERT11 | PX | .001 | .001 | 0 | 0 |
| 134 | VERT12 | PX | .001 | .001 | 0 | 0 |

## Member Distributed Loads (BLC 39 : Ice Wind Load (330))

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | PY | -.002 | -.002 | 0 | 0 |
| 2 | CONNANGLE2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | CONNANGLE3 | PY | -.002 | -.002 | 0 | 0 |
| 4 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 5 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 6 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 7 | DIAG1 | PY | -.001 | -.001 | 0 | 0 |
| 8 | DIAG2 | PY | -.001 | -.001 | 0 | 0 |
| 9 | DIAG3 | PY | -.001 | -.001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 10 | DIAG4 | PY | -.001 | -.001 | 0 | 0 |
| 11 | DIAG5 | PY | -.001 | -.001 | 0 | 0 |
| 12 | DIAG6 | PY | -.001 | -.001 | 0 | 0 |
| 13 | FACE1A | PY | -.002 | -.002 | 0 | 0 |
| 14 | FACE1B | PY | -.002 | -.002 | 0 | 0 |
| 15 | FACE2A | PY | -.005 | -.005 | 0 | 0 |
| 16 | FACE2B | PY | -.005 | -.005 | 0 | 0 |
| 17 | FACE3A | PY | -.005 | -.005 | 0 | 0 |
| 18 | FACE3B | PY | -.005 | -.005 | 0 | 0 |
| 19 | HORIZ1 | PY | -.001 | -.001 | 0 | 0 |
| 20 | HORIZ2 | PY | -.001 | -.001 | 0 | 0 |
| 21 | HORIZ3 | PY | -.001 | -.001 | 0 | 0 |
| 22 | LADDER1 | PY | -.001 | -.001 | 0 | 0 |
| 23 | LADDER2 | PY | -.001 | -.001 | 0 | 0 |
| 24 | LADDERPLATE1 | PY | -.002 | -.002 | 0 | 0 |
| 25 | LADDERPLATE2 | PY | -.002 | -.002 | 0 | 0 |
| 26 | MP ALPHA1 | PY | -.003 | -.003 | 0 | 0 |
| 27 | MP ALPHA2 | PY | -.003 | -.003 | 0 | 0 |
| 28 | MP ALPHA3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | MP ALPHA4 | PY | -.003 | -.003 | 0 | 0 |
| 30 | MP BETA1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | MP BETA2 | PY | -.003 | -.003 | 0 | 0 |
| 32 | MP BETA3 | PY | -.003 | -.003 | 0 | 0 |
| 33 | MP BETA4 | PY | -.003 | -.003 | 0 | 0 |
| 34 | MP GAMMA1 | PY | -.003 | -.003 | 0 | 0 |
| 35 | MP GAMMA2 | PY | -.003 | -.003 | 0 | 0 |
| 36 | MP GAMMA3 | PY | -.003 | -.003 | 0 | 0 |
| 37 | MP GAMMA4 | PY | -.003 | -.003 | 0 | 0 |
| 38 | PLATE1 | PY | -.001 | -.001 | 0 | 0 |
| 39 | PLATE2 | PY | -.001 | -.001 | 0 | 0 |
| 40 | PLATE3 | PY | -.001 | -.001 | 0 | 0 |
| 41 | RAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 42 | RAIL2 | PY | -.004 | -.004 | 0 | 0 |
| 43 | RAIL3 | PY | -.004 | -.004 | 0 | 0 |
| 44 | RUNG1 | PY | -.000679 | -.000679 | 0 | 0 |
| 45 | RUNG2 | PY | -.000679 | -.000679 | 0 | 0 |
| 46 | RUNG3 | PY | -.000679 | -.000679 | 0 | 0 |
| 47 | RUNG4 | PY | -.000679 | -.000679 | 0 | 0 |
| 48 | RUNG5 | PY | -.000679 | -.000679 | 0 | 0 |
| 49 | RUNG6 | PY | -.000679 | -.000679 | 0 | 0 |
| 50 | RUNG7 | PY | -.000679 | -.000679 | 0 | 0 |
| 51 | SP1 | PY | -.001 | -.001 | 0 | 0 |
| 52 | SP2 | PY | -.001 | -.001 | 0 | 0 |
| 53 | SP3 | PY | -.001 | -.001 | 0 | 0 |
| 54 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 55 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 56 | VERT1 | PY | -.001 | -.001 | 0 | 0 |
| 57 | VERT2 | PY | -.001 | -.001 | 0 | 0 |
| 58 | VERT3 | PY | -.001 | -.001 | 0 | 0 |
| 59 | VERT4 | PY | -.001 | -.001 | 0 | 0 |
| 60 | VERT5 | PY | -.001 | -.001 | 0 | 0 |
| 61 | VERT6 | PY | -.001 | -.001 | 0 | 0 |
| 62 | VERT7 | PY | -.001 | -.001 | 0 | 0 |
| 63 | VERT8 | PY | -.001 | -.001 | 0 | 0 |
| 64 | VERT9 | PY | -.001 | -.001 | 0 | 0 |
| 65 | VERT10 | PY | -.001 | -.001 | 0 | 0 |
| 66 | VERT11 | PY | -.001 | -.001 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 67 | VERT12 | PY | -.001 | -.001 | 0 | 0 |
| 68 | CONNANGLE1 | PX | .001 | .001 | 0 | 0 |
| 69 | CONNANGLE2 | PX | .001 | .001 | 0 | 0 |
| 70 | CONNANGLE3 | PX | .001 | .001 | 0 | 0 |
| 71 | CORNER1 | PX | .001 | .001 | 0 | 0 |
| 72 | CORNER2 | PX | .001 | .001 | 0 | 0 |
| 73 | CORNER3 | PX | .001 | .001 | 0 | 0 |
| 74 | DIAG1 | PX | .000834 | .000834 | 0 | 0 |
| 75 | DIAG2 | PX | .000834 | .000834 | 0 | 0 |
| 76 | DIAG3 | PX | .000834 | .000834 | 0 | 0 |
| 77 | DIAG4 | PX | .000834 | .000834 | 0 | 0 |
| 78 | DIAG5 | PX | .000834 | .000834 | 0 | 0 |
| 79 | DIAG6 | PX | .000834 | .000834 | 0 | 0 |
| 80 | FACE1A | PX | .001 | .001 | 0 | 0 |
| 81 | FACE1B | PX | .001 | .001 | 0 | 0 |
| 82 | FACE2A | PX | .003 | .003 | 0 | 0 |
| 83 | FACE2B | PX | .003 | .003 | 0 | 0 |
| 84 | FACE3A | PX | .003 | .003 | 0 | 0 |
| 85 | FACE3B | PX | .003 | .003 | 0 | 0 |
| 86 | HORIZ1 | PX | .000834 | .000834 | 0 | 0 |
| 87 | HORIZ2 | PX | .000834 | .000834 | 0 | 0 |
| 88 | HORIZ3 | PX | .000834 | .000834 | 0 | 0 |
| 89 | LADDER1 | PX | .000834 | .000834 | 0 | 0 |
| 90 | LADDER2 | PX | .000834 | .000834 | 0 | 0 |
| 91 | LADDERPLATE1 | PX | .001 | .001 | 0 | 0 |
| 92 | LADDERPLATE2 | PX | .001 | .001 | 0 | 0 |
| 93 | MP ALPHA1 | PX | .002 | .002 | 0 | 0 |
| 94 | MP ALPHA2 | PX | .002 | .002 | 0 | 0 |
| 95 | MP ALPHA3 | PX | .002 | .002 | 0 | 0 |
| 96 | MP ALPHA4 | PX | .002 | .002 | 0 | 0 |
| 97 | MP BETA1 | PX | .002 | .002 | 0 | 0 |
| 98 | MP BETA2 | PX | .002 | .002 | 0 | 0 |
| 99 | MP BETA3 | PX | .002 | .002 | 0 | 0 |
| 100 | MP BETA4 | PX | .002 | .002 | 0 | 0 |
| 101 | MP GAMMA1 | PX | .002 | .002 | 0 | 0 |
| 102 | MP GAMMA2 | PX | .002 | .002 | 0 | 0 |
| 103 | MP GAMMA3 | PX | .002 | .002 | 0 | 0 |
| 104 | MP GAMMA4 | PX | .002 | .002 | 0 | 0 |
| 105 | PLATE1 | PX | .000613 | .000613 | 0 | 0 |
| 106 | PLATE2 | PX | .000613 | .000613 | 0 | 0 |
| 107 | PLATE3 | PX | .000613 | .000613 | 0 | 0 |
| 108 | RAIL1 | PX | .001 | .001 | 0 | 0 |
| 109 | RAIL2 | PX | .002 | .002 | 0 | 0 |
| 110 | RAIL3 | PX | .002 | .002 | 0 | 0 |
| 111 | RUNG1 | PX | .000392 | .000392 | 0 | 0 |
| 112 | RUNG2 | PX | .000392 | .000392 | 0 | 0 |
| 113 | RUNG3 | PX | .000392 | .000392 | 0 | 0 |
| 114 | RUNG4 | PX | .000392 | .000392 | 0 | 0 |
| 115 | RUNG5 | PX | .000392 | .000392 | 0 | 0 |
| 116 | RUNG6 | PX | .000392 | .000392 | 0 | 0 |
| 117 | RUNG7 | PX | .000392 | .000392 | 0 | 0 |
| 118 | SP1 | PX | .000613 | .000613 | 0 | 0 |
| 119 | SP2 | PX | .000613 | .000613 | 0 | 0 |
| 120 | SP3 | PX | .000613 | .000613 | 0 | 0 |
| 121 | SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 122 | SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 123 | VERT1 | PX | .000834 | .000834 | 0 | 0 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 124 | VERT2 | PX | .000834 | .000834 | 0 | 0 |
| 125 | VERT3 | PX | .000834 | .000834 | 0 | 0 |
| 126 | VERT4 | PX | .000834 | .000834 | 0 | 0 |
| 127 | VERT5 | PX | .000834 | .000834 | 0 | 0 |
| 128 | VERT6 | PX | .000834 | .000834 | 0 | 0 |
| 129 | VERT7 | PX | .000834 | .000834 | 0 | 0 |
| 130 | VERT8 | PX | .000834 | .000834 | 0 | 0 |
| 131 | VERT9 | PX | .000834 | .000834 | 0 | 0 |
| 132 | VERT10 | PX | .000834 | .000834 | 0 | 0 |
| 133 | VERT11 | PX | .000834 | .000834 | 0 | 0 |
| 134 | VERT12 | PX | .000834 | .000834 | 0 | 0 |

## Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | FACE1B | Z | -.0007304 | -.006 | 0 | 1.083 |
| 2 | FACE1B | Z | -.006 | -.007 | 1.083 | 2.167 |
| 3 | FACE1B | Z | -.007 | -.002 | 2.167 | 3.25 |
| 4 | FACE2A | Z | -.0007456 | -.006 | 0 | 1.083 |
| 5 | FACE2A | Z | -.006 | -.008 | 1.083 | 2.167 |
| 6 | FACE2A | Z | -.008 | -.002 | 2.167 | 3.25 |
| 7 | SUPPORT1 | Z | -.006 | -.006 | .861 | 2.314 |
| 8 | CORNER1 | Z | -.005 | -.005 | .157 | 1.854 |
| 9 | FACE1B | Z | -.006 | -.006 | 3.42 | 4.36 |
| 10 | SUPPORT1 | Z | -.004 | -.004 | 2.313 | 3.153 |
| 11 | SUPPORT2 | Z | -.007 | -.007 | .351 | 1.221 |
| 12 | CORNER2 | Z | -.002 | -.009 | .517 | 1.897 |
| 13 | CORNER2 | Z | -.009 | -.01 | 1.897 | 3.277 |
| 14 | CORNER2 | Z | -.01 | -.005 | 3.277 | 4.656 |
| 15 | FACE1A | Z | -.0002446 | -.006 | 0 | 1.083 |
| 16 | FACE1A | Z | -.006 | -.011 | 1.083 | 2.167 |
| 17 | FACE1A | Z | -.011 | -.01 | 2.167 | 3.25 |
| 18 | FACE1A | Z | -.01 | -.007 | 3.25 | 4.333 |
| 19 | FACE1A | Z | -.007 | -.006 | 4.333 | 5.417 |
| 20 | FACE3B | Z | -.0003758 | -.006 | 0 | 1.083 |
| 21 | FACE3B | Z | -.006 | -.01 | 1.083 | 2.167 |
| 22 | FACE3B | Z | -.01 | -.01 | 2.167 | 3.25 |
| 23 | FACE3B | Z | -.01 | -.009 | 3.25 | 4.333 |
| 24 | FACE3B | Z | -.009 | -.005 | 4.333 | 5.417 |
| 25 | CORNER3 | Z | -.001 | -.009 | .517 | 1.897 |
| 26 | CORNER3 | Z | -.009 | -.01 | 1.897 | 3.277 |
| 27 | CORNER3 | Z | -.01 | -.002 | 3.277 | 4.656 |
| 28 | FACE2B | Z | -.0002528 | -.006 | 0 | 1.083 |
| 29 | FACE2B | Z | -.006 | -.014 | 1.083 | 2.167 |
| 30 | FACE2B | Z | -.014 | -.012 | 2.167 | 3.25 |
| 31 | FACE2B | Z | -.012 | -.007 | 3.25 | 4.333 |
| 32 | FACE2B | Z | -.007 | -.006 | 4.333 | 5.417 |
| 33 | FACE3A | Z | -.0007877 | -.008 | 0 | 1.354 |
| 34 | FACE3A | Z | -.008 | -.011 | 1.354 | 2.708 |
| 35 | FACE3A | Z | -.011 | -.008 | 2.708 | 4.062 |
| 36 | FACE3A | Z | -.008 | -.004 | 4.062 | 5.417 |

## Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | FACE1B | Z | -.001 | -.012 | 0 | 1.083 |
| 2 | FACE1B | Z | -.012 | -.014 | 1.083 | 2.167 |
| 3 | FACE1B | Z | -.014 | -.004 | 2.167 | 3.25 |

## Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads) (Continued)

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 4 | FACE2A | Z | -.001 | -.013 | 0 | 1.083 |
| 5 | FACE2A | Z | -.013 | -.015 | 1.083 | 2.167 |
| 6 | FACE2A | Z | -.015 | -.004 | 2.167 | 3.25 |
| 7 | SUPPORT1 | Z | -.011 | -.011 | .861 | 2.314 |
| 8 | CORNER1 | Z | -.01 | -.01 | .157 | 1.854 |
| 9 | FACE1B | Z | -.012 | -.012 | 3.42 | 4.36 |
| 10 | SUPPORT1 | Z | -.008 | -.008 | 2.313 | 3.153 |
| 11 | SUPPORT2 | Z | -.013 | -.013 | .351 | 1.221 |
| 12 | CORNER2 | Z | -.005 | -.018 | .517 | 1.897 |
| 13 | CORNER2 | Z | -.018 | -.02 | 1.897 | 3.277 |
| 14 | CORNER2 | Z | -.02 | -.009 | 3.277 | 4.656 |
| 15 | FACE1A | Z | -.0004893 | -.013 | 0 | 1.083 |
| 16 | FACE1A | Z | -.013 | -.023 | 1.083 | 2.167 |
| 17 | FACE1A | Z | -.023 | -.02 | 2.167 | 3.25 |
| 18 | FACE1A | Z | -.02 | -.014 | 3.25 | 4.333 |
| 19 | FACE1A | Z | -.014 | -.012 | 4.333 | 5.417 |
| 20 | FACE3B | Z | -.0007516 | -.013 | 0 | 1.083 |
| 21 | FACE3B | Z | -.013 | -.02 | 1.083 | 2.167 |
| 22 | FACE3B | Z | -.02 | -.02 | 2.167 | 3.25 |
| 23 | FACE3B | Z | -.02 | -.018 | 3.25 | 4.333 |
| 24 | FACE3B | Z | -.018 | -.01 | 4.333 | 5.417 |
| 25 | CORNER3 | Z | -.003 | -.018 | .517 | 1.897 |
| 26 | CORNER3 | Z | -.018 | -.019 | 1.897 | 3.277 |
| 27 | CORNER3 | Z | -.019 | -.003 | 3.277 | 4.656 |
| 28 | FACE2B | Z | -.0005057 | -.013 | 0 | 1.083 |
| 29 | FACE2B | Z | -.013 | -.027 | 1.083 | 2.167 |
| 30 | FACE2B | Z | -.027 | -.024 | 2.167 | 3.25 |
| 31 | FACE2B | Z | -.024 | -.014 | 3.25 | 4.333 |
| 32 | FACE2B | Z | -.014 | -.011 | 4.333 | 5.417 |
| 33 | FACE3A | Z | -.002 | -.017 | 0 | 1.354 |
| 34 | FACE3A | Z | -.017 | -.022 | 1.354 | 2.708 |
| 35 | FACE3A | Z | -.022 | -.015 | 2.708 | 4.062 |
| 36 | FACE3A | Z | -.015 | -.009 | 4.062 | 5.417 |

## Member Area Loads (BLC 3 : Dead Load)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---|---|---|---|---|---|---|
| 1 | N157 | N89 | N32 | N31 | Z | Two Way | -.01 |
| 2 | N33 | N32 | N3 | N34 | Z | Two Way | -.01 |
| 3 | N6 | N90 | N117A | N5 | Z | Two Way | -.01 |
| 4 | N118A | N156 | N1 | N2 | 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 | N157 | N89 | N32 | N31 | Z | Two Way | -.02 |
| 2 | N33 | N32 | N3 | N34 | Z | Two Way | -.02 |
| 3 | N6 | N90 | N117A | N5 | Z | Two Way | -.02 |
| 4 | N118A | N156 | N1 | N2 | 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 | N170A | max | 1.647 | 17 | 2.724 | 35 | 3.809 | 9 | 3.584 | 17 | 2.119 | 17 | .332 | 14 |
| 2 | | min | -1.681 | 35 | -2.743 | 17 | .23 | 26 | -3.655 | 35 | -2.074 | 35 | -.325 | 35 |
| 3 | N180 | max | 1.464 | 5 | 2.53 | 5 | 3.58 | 33 | 3.459 | 23 | 2.086 | 5 | .27 | 5 |

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | min | -1.435 | 23 | -2.552 | 23 | .191 | 14 | -3.683 | 5 | -2.037 | 23 | -.255 | 23 |
| 5 | N190 | max | 3.123 | 11 | .151 | 2 | 3.551 | 21 | .113 | 21 | 4.153 | 11 | .292 | 29 |
| 6 | | min | -3.123 | 29 | -.111 | 20 | .168 | 2 | -.033 | 2 | -4.067 | 29 | -.289 | 11 |
| 7 | Totals: | max | 4.47 | 11 | 4.577 | 2 | 10.087 | 33 | | | | | | |
| 8 | | min | -4.47 | 29 | -4.686 | 20 | 3.761 | 14 | | | | | | |

## Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distrib.. | Area(Me... | Surface(... |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Live Load | DL | | | | | 1 | | | |
| 2 | Wind Load (0) | DL | | | | | 24 | 67 | | |
| 3 | Dead Load | DL | | | -1.1 | | 24 | | 4 | |
| 4 | Wind Load (30) | DL | | | | | 48 | 134 | | |
| 5 | Wind Load (60) | DL | | | | | 48 | 134 | | |
| 6 | Wind Load (90) | DL | | | | | 24 | 67 | | |
| 7 | Wind Load (120) | DL | | | | | 48 | 134 | | |
| 8 | Wind Load (150) | DL | | | | | 48 | 134 | | |
| 9 | Wind Load (180) | DL | | | | | 24 | 67 | | |
| 10 | Wind Load (210) | DL | | | | | 48 | 134 | | |
| 11 | Wind Load (240) | DL | | | | | 48 | 134 | | |
| 12 | Wind Load (270) | DL | | | | | 24 | 67 | | |
| 13 | Wind Load (300) | DL | | | | | 48 | 134 | | |
| 14 | Wind Load (330) | DL | | | | | 48 | 134 | | |
| 15 | Maintanence (0) | DL | | | | | 24 | 67 | | |
| 16 | Maintanence (30) | DL | | | | | 48 | 134 | | |
| 17 | Maintanence (60) | DL | | | | | 48 | 134 | | |
| 18 | Maintanence (90) | DL | | | | | 24 | 67 | | |
| 19 | Maintanence (120) | DL | | | | | 48 | 134 | | |
| 20 | Maintanence (150) | DL | | | | | 48 | 134 | | |
| 21 | Maintanence (180) | DL | | | | | 24 | 67 | | |
| 22 | Maintanence (210) | DL | | | | | 48 | 134 | | |
| 23 | Maintanence (240) | DL | | | | | 48 | 134 | | |
| 24 | Maintanence (270) | DL | | | | | 24 | 67 | | |
| 25 | Maintanence (300) | DL | | | | | 48 | 134 | | |
| 26 | Maintanence (330) | DL | | | | | 48 | 134 | | |
| 27 | Ice Dead Load | DL | | | | | 24 | 67 | 4 | |
| 28 | Ice Wind Load (0) | DL | | | | | 24 | 67 | | |
| 29 | Ice Wind Load (30) | DL | | | | | 48 | 134 | | |
| 30 | Ice Wind Load (60) | DL | | | | | 48 | 134 | | |
| 31 | Ice Wind Load (90) | DL | | | | | 24 | 67 | | |
| 32 | Ice Wind Load (120) | DL | | | | | 48 | 134 | | |
| 33 | Ice Wind Load (150) | DL | | | | | 48 | 134 | | |
| 34 | Ice Wind Load (180) | DL | | | | | 24 | 67 | | |
| 35 | Ice Wind Load (210) | DL | | | | | 48 | 134 | | |
| 36 | Ice Wind Load (240) | DL | | | | | 48 | 134 | | |
| 37 | Ice Wind Load (270) | DL | | | | | 24 | 67 | | |
| 38 | Ice Wind Load (300) | DL | | | | | 48 | 134 | | |
| 39 | Ice Wind Load (330) | DL | | | | | 48 | 134 | | |
| 40 | Earthquake (x-direction) | DL | -.106 | | | | 24 | | | |
| 41 | Earthquake (y-direction) | DL | | -.106 | | | 24 | | | |
| 42 | Earthquake (z-direction) | DL | | | -.042 | | 24 | | | |
| 43 | BLC 3 Transient Area Loads | None | | | | | | 36 | | |
| 44 | BLC 27 Transient Area Loads | None | | | | | | 36 | | |

## Load Combinations

| | Description | So.. | P... | S... | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. | BLC | Fac.. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.4D | Yes | Y | | 3 | 1.4 | | | | | | | | | | | | | | | | | | | | |
| 2 | 1.2D + 1.0W(0) | Yes | Y | | 3 | 1.2 | 2 | 1 | | | | | | | | | | | | | | | | | | |
| 3 | 1.2D + 1.0Di + 1.0Wi(0) | Yes | Y | | 3 | 1.2 | 27 | 1 | 28 | 1 | | | | | | | | | | | | | | | | |
| 4 | 1.2D + 1.5L + 1.0Wl(0) | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 15 | 1 | | | | | | | | | | | | | | | | |
| 5 | 1.2D + 1.0W(30) | Yes | Y | | 3 | 1.2 | 4 | 1 | | | | | | | | | | | | | | | | | | |
| 6 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 29 | 1 | | | | | | | | | | | | | | | | |
| 7 | 1.2D + 1.5L + 1.0Wl(30) | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 16 | 1 | | | | | | | | | | | | | | | | |
| 8 | 1.2D + 1.0W(60) | Yes | Y | | 3 | 1.2 | 5 | 1 | | | | | | | | | | | | | | | | | | |
| 9 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 30 | 1 | | | | | | | | | | | | | | | | |
| 10 | 1.2D + 1.5L + 1.0Wl(60) | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 17 | 1 | | | | | | | | | | | | | | | | |
| 11 | 1.2D + 1.0W(90) | Yes | Y | | 3 | 1.2 | 6 | 1 | | | | | | | | | | | | | | | | | | |
| 12 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 31 | 1 | | | | | | | | | | | | | | | | |
| 13 | 1.2D + 1.5L + 1.0Wl(90) | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 18 | 1 | | | | | | | | | | | | | | | | |
| 14 | 1.2D + 1.0W(120) | Yes | Y | | 3 | 1.2 | 7 | 1 | | | | | | | | | | | | | | | | | | |
| 15 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 32 | 1 | | | | | | | | | | | | | | | | |
| 16 | 1.2D + 1.5L + 1.0Wl(1... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 19 | 1 | | | | | | | | | | | | | | | | |
| 17 | 1.2D + 1.0W(150) | Yes | Y | | 3 | 1.2 | 8 | 1 | | | | | | | | | | | | | | | | | | |
| 18 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 33 | 1 | | | | | | | | | | | | | | | | |
| 19 | 1.2D + 1.5L + 1.0Wl(1... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 20 | 1 | | | | | | | | | | | | | | | | |
| 20 | 1.2D + 1.0W(180) | Yes | Y | | 3 | 1.2 | 9 | 1 | | | | | | | | | | | | | | | | | | |
| 21 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 34 | 1 | | | | | | | | | | | | | | | | |
| 22 | 1.2D + 1.5L + 1.0Wl(1... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 21 | 1 | | | | | | | | | | | | | | | | |
| 23 | 1.2D + 1.0W(210) | Yes | Y | | 3 | 1.2 | 10 | 1 | | | | | | | | | | | | | | | | | | |
| 24 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 35 | 1 | | | | | | | | | | | | | | | | |
| 25 | 1.2D + 1.5L + 1.0Wl(2... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 22 | 1 | | | | | | | | | | | | | | | | |
| 26 | 1.2D + 1.0W(240) | Yes | Y | | 3 | 1.2 | 11 | 1 | | | | | | | | | | | | | | | | | | |
| 27 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 36 | 1 | | | | | | | | | | | | | | | | |
| 28 | 1.2D + 1.5L + 1.0Wl(2... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 23 | 1 | | | | | | | | | | | | | | | | |
| 29 | 1.2D + 1.0W(270) | Yes | Y | | 3 | 1.2 | 12 | 1 | | | | | | | | | | | | | | | | | | |
| 30 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 37 | 1 | | | | | | | | | | | | | | | | |
| 31 | 1.2D + 1.5L + 1.0Wl(2... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 24 | 1 | | | | | | | | | | | | | | | | |
| 32 | 1.2D + 1.0W(300) | Yes | Y | | 3 | 1.2 | 13 | 1 | | | | | | | | | | | | | | | | | | |
| 33 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 38 | 1 | | | | | | | | | | | | | | | | |
| 34 | 1.2D + 1.5L + 1.0Wl(3... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 25 | 1 | | | | | | | | | | | | | | | | |
| 35 | 1.2D + 1.0W(330) | Yes | Y | | 3 | 1.2 | 14 | 1 | | | | | | | | | | | | | | | | | | |
| 36 | 1.2D + 1.0Di + 1.0Wi(... | Yes | Y | | 3 | 1.2 | 27 | 1 | 39 | 1 | | | | | | | | | | | | | | | | |
| 37 | 1.2D + 1.5L + 1.0Wl(3... | Yes | Y | | 3 | 1.2 | 1 | 1.5 | 26 | 1 | | | | | | | | | | | | | | | | |
| 38 | 1.2D + 1.0E(x) + 1.0E(... | Yes | Y | | 3 | 1.2 | 40 | 1 | 42 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| 39 | 1.2D + 1.0E(y) + 1.0E(... | Yes | Y | | 3 | 1.2 | 41 | 1 | 42 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| 40 | 1.2D - 1.0E(x) + 1.0E(... | Yes | Y | | 3 | 1.2 | 40 | -1 | 42 | 1 | 1 | 1 | | | | | | | | | | | | | | |
| 41 | 1.2D - 1.0E(y) + 1.0E(... | Yes | Y | | 3 | 1.2 | 41 | -1 | 42 | 1 | 1 | 1 | | | | | | | | | | | | | | |

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

| | Member | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc[ft] | Dir | LC | phi*P... | phi*P... | phi*M... | phi*M... | Cb | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CONNANGLE1 | L3X3X6 | .286 | .5 | 3 | .043 | .5 | z | 3 | 66.846 | 68.364 | 2.307 | 5.322 | 1.... | H2-1 |
| 2 | CONNANGLE2 | L3X3X6 | .282 | .5 | 3 | .040 | .5 | z | 3 | 66.846 | 68.364 | 2.307 | 5.322 | 1.... | H2-1 |
| 3 | CONNANGLE3 | L3X3X6 | .275 | .5 | 15 | .038 | .5 | z | 15 | 66.846 | 68.364 | 2.307 | 5.322 | 1.... | H2-1 |
| 4 | CORNER1 | C5X9 | .432 | 2.587 | 6 | .085 | 2.21 | y | 2 | 36.252 | 85.536 | 1.909 | 11.853 | 1.29 | H1-1b |
| 5 | CORNER2 | C5X9 | .420 | 2.587 | 36 | .083 | 2.964 | y | 2 | 36.252 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 6 | CORNER3 | C5X9 | .411 | 2.587 | 18 | .082 | 2.21 | y | 14 | 36.252 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 7 | DIAG1 | L1.75x1... | .492 | 1.863 | 35 | .012 | 4.362 | y | 11 | 7.806 | 26.325 | .513 | 1.06 | 1.... | H2-1 |
| 8 | DIAG2 | L1.75x1... | .483 | .182 | 2 | .009 | 0 | y | 26 | 7.806 | 26.325 | .513 | 1.066 | 1.... | H2-1 |
| 9 | DIAG3 | L1.75x1... | .490 | .409 | 23 | .010 | 0 | z | 35 | 7.806 | 26.325 | .513 | 1.058 | 1.... | H2-1 |
| 10 | DIAG4 | L1.75x1... | .479 | 2.908 | 29 | .009 | 0 | z | 14 | 7.806 | 26.325 | .513 | 1.058 | 1.... | H2-1 |

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

| | Member | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc[ft] | Dir | LC | phi*P... | phi*P... | phi*M... | phi*M... | Cb | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | DIAG5 | L1.75x1... | .491 | 0 | 11 | .012 | 4.362 | z | 23 | 7.806 | 26.325 | .513 | 1.06 | 1.... | H2-1 |
| 12 | DIAG6 | L1.75x1... | .455 | 2.181 | 17 | .010 | 0 | y | 5 | 7.806 | 26.325 | .513 | 1.092 | 1.... | H2-1 |
| 13 | FACE1A | C5X9 | .270 | 5.134 | 5 | .100 | .733 | y | 23 | 33.368 | 85.536 | 1.909 | 11.853 | 2.... | H1-1b |
| 14 | FACE1B | C5X9 | .361 | 5.134 | 32 | .103 | .733 | y | 35 | 33.368 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 15 | FACE2A | C5X9 | .330 | 5.134 | 20 | .106 | .733 | y | 35 | 33.368 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 16 | FACE2B | C5X9 | .320 | 5.134 | 8 | .103 | .733 | y | 11 | 33.368 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 17 | FACE3A | C5X9 | .310 | 5.134 | 29 | .103 | .733 | y | 11 | 33.368 | 85.536 | 1.909 | 11.853 | 2.... | H1-1b |
| 18 | FACE3B | C5X9 | .339 | 5.134 | 20 | .104 | .733 | y | 23 | 33.368 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 19 | HORIZ1 | L1.75x1... | .046 | 0 | 14 | .012 | 0 | y | 11 | 14.658 | 26.325 | .513 | 1.177 | 2.28 | H2-1 |
| 20 | HORIZ2 | L1.75x1... | .053 | 0 | 26 | .014 | 0 | y | 23 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 21 | HORIZ3 | L1.75x1... | .049 | 0 | 2 | .016 | 0 | y | 35 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 22 | LADDER1 | L1.75x1... | .154 | 6 | 17 | .012 | 6 | y | 26 | 2.321 | 26.325 | .513 | 1.027 | 1.... | H2-1 |
| 23 | LADDER2 | L1.75x1... | .149 | 6 | 35 | .011 | 6 | z | 26 | 2.321 | 26.325 | .513 | 1.028 | 1.63 | H2-1 |
| 24 | LADDERPLA... | 4x.375 | .004 | .5 | 17 | .000 | .5 | y | 8 | 25.45 | 48.6 | .38 | 3.791 | 1 | H1-1b |
| 25 | LADDERPLA... | 4x.375 | .004 | .5 | 35 | .000 | .5 | y | 8 | 25.45 | 48.6 | .38 | 3.791 | 1 | H1-1b |
| 26 | MP ALPHA1 | PIPE_2.0 | .083 | 5.5 | 35 | .149 | 5.5 | | 5 | 14.916 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 27 | MP ALPHA2 | PIPE_2.0 | .483 | 5.5 | 2 | .139 | 5.5 | | 17 | 14.916 | 32.13 | 1.872 | 1.872 | 2.... | H1-1b |
| 28 | MP ALPHA3 | PIPE_2.0 | .090 | 5.5 | 20 | .118 | 2.5 | | 20 | 14.916 | 32.13 | 1.872 | 1.872 | 2.... | H1-1b |
| 29 | MP ALPHA4 | PIPE_2.0 | .074 | 5.5 | 5 | .145 | 2.5 | | 17 | 14.916 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 30 | MP BETA1 | PIPE_2.0 | .082 | 5.5 | 11 | .152 | 5.5 | | 17 | 14.916 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 31 | MP BETA2 | PIPE_2.0 | .481 | 5.5 | 14 | .130 | 5.5 | | 29 | 14.916 | 32.13 | 1.872 | 1.872 | 2.4 | H1-1b |
| 32 | MP BETA3 | PIPE_2.0 | .091 | 5.5 | 14 | .119 | 2.5 | | 32 | 14.916 | 32.13 | 1.872 | 1.872 | 2.... | H1-1b |
| 33 | MP BETA4 | PIPE_2.0 | .073 | 5.5 | 17 | .149 | 2.5 | | 11 | 14.916 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 34 | MP GAMMA1 | PIPE_2.0 | .081 | 5.5 | 23 | .153 | 5.5 | | 29 | 14.916 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 35 | MP GAMMA2 | PIPE_2.0 | .483 | 5.5 | 26 | .137 | 5.5 | | 5 | 14.916 | 32.13 | 1.872 | 1.872 | 2.... | H1-1b |
| 36 | MP GAMMA3 | PIPE_2.0 | .090 | 5.5 | 26 | .120 | 2.5 | | 8 | 14.916 | 32.13 | 1.872 | 1.872 | 2.... | H1-1b |
| 37 | MP GAMMA4 | PIPE_2.0 | .069 | 5.5 | 29 | .150 | 2.5 | | 23 | 14.916 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 38 | PLATE1 | 6x0.375 | .219 | .95 | 32 | .066 | .95 | y | 17 | 40.661 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 39 | PLATE2 | 6x0.375 | .230 | .95 | 20 | .068 | 0 | y | 5 | 40.661 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 40 | PLATE3 | 6x0.375 | .230 | .95 | 8 | .069 | 0 | y | 29 | 40.661 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 41 | RAIL1 | L3X3X5 | .547 | 6.222 | 20 | .113 | 9.139 | y | 20 | 10.897 | 57.672 | 2.015 | 3.919 | 1.... | H2-1 |
| 42 | RAIL2 | L3X3X5 | .544 | 6.222 | 32 | .128 | 0 | y | 11 | 10.897 | 57.672 | 2.015 | 3.924 | 1.... | H2-1 |
| 43 | RAIL3 | L3X3X5 | .540 | 6.222 | 8 | .115 | 9.139 | y | 11 | 10.897 | 57.672 | 2.015 | 3.917 | 1.... | H2-1 |
| 44 | RUNG1 | SR 5/8 | .061 | 0 | 26 | .006 | 0 | | 26 | 7.287 | 9.94 | .104 | .104 | 1.85 | H1-1b |
| 45 | RUNG2 | SR 5/8 | .078 | 0 | 26 | .005 | 1 | | 8 | 7.287 | 9.94 | .104 | .104 | 2.... | H1-1b |
| 46 | RUNG3 | SR 5/8 | .098 | 0 | 26 | .011 | 1 | | 8 | 7.287 | 9.94 | .104 | .104 | 2.21 | H1-1b |
| 47 | RUNG4 | SR 5/8 | .103 | 1 | 8 | .015 | 1 | | 8 | 7.287 | 9.94 | .104 | .104 | 1.... | H1-1b |
| 48 | RUNG5 | SR 5/8 | .073 | 1 | 8 | .011 | 1 | | 8 | 7.287 | 9.94 | .104 | .104 | 2.... | H1-1b |
| 49 | RUNG6 | SR 5/8 | .018 | 1 | 27 | .015 | 1 | | 27 | 7.287 | 9.94 | .104 | .104 | 2.... | H1-1b |
| 50 | RUNG7 | SR 5/8 | .019 | 1 | 26 | .012 | 1 | | 26 | 7.287 | 9.94 | .104 | .104 | 2.25 | H1-1b |
| 51 | SP1 | 6x0.375 | .066 | 0 | 35 | .028 | 0 | y | 35 | 65.732 | 72.9 | .57 | 9.113 | 2.... | H1-1b |
| 52 | SP2 | 6x0.375 | .077 | 0 | 20 | .028 | .4 | y | 23 | 65.732 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 53 | SP3 | 6x0.375 | .072 | 0 | 8 | .028 | 0 | y | 11 | 65.732 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 54 | SUPPORT1 | C5X9 | .085 | 2.299 | 26 | .039 | 3.153 | y | 17 | 62.186 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 55 | SUPPORT2 | C5X9 | .015 | 1.367 | 20 | .162 | 1.75 | z | 35 | 77.534 | 85.536 | 1.909 | 11.853 | 1.... | H1-1b |
| 56 | VERT1 | L1.75x1... | .132 | 3 | 17 | .026 | 0 | y | 17 | 14.658 | 26.325 | .513 | 1.177 | 1.... | H2-1 |
| 57 | VERT2 | L1.75x1... | .087 | 3 | 17 | .032 | 1.5 | z | 2 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 58 | VERT3 | L1.75x1... | .272 | 3 | 20 | .039 | 3 | z | 35 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 59 | VERT4 | L1.75x1... | .133 | 0 | 23 | .026 | 0 | z | 23 | 14.658 | 26.325 | .513 | 1.177 | 1.... | H2-1 |
| 60 | VERT5 | L1.75x1... | .163 | 3 | 26 | .027 | 3 | z | 29 | 14.658 | 26.325 | .513 | 1.151 | 1.... | H2-1 |
| 61 | VERT6 | L1.75x1... | .093 | 3 | 29 | .034 | 1.5 | z | 14 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 62 | VERT7 | L1.75x1... | .272 | 3 | 32 | .040 | 3 | z | 11 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 63 | VERT8 | L1.75x1... | .136 | 0 | 35 | .027 | 0 | z | 35 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 64 | VERT9 | L1.75x1... | .136 | 3 | 5 | .027 | 0 | y | 5 | 14.658 | 26.325 | .513 | 1.177 | 1.... | H2-1 |
| 65 | VERT10 | L1.75x1... | .087 | 3 | 5 | .033 | 1.5 | z | 26 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 66 | VERT11 | L1.75x1... | .271 | 3 | 8 | .040 | 3 | z | 23 | 14.658 | 26.325 | .513 | 1.177 | 2.... | H2-1 |
| 67 | VERT12 | L1.75x1... | .136 | 0 | 11 | .027 | 0 | z | 11 | 14.658 | 26.325 | .513 | 1.177 | 1.... | H2-1 |

POD
POWER OF DESIGN

| | |
|---|---|
| **POD Job #** | **21-113065** |
| **Site Number** | **302495** |
| **Site Name** | **Tolland CT** |

*Reactions from tnxTower*

| | | |
|---|---|---|
| Moment | 8.784 | ft-kip |
| Axial | 3.761 | kips |
| Shear | 4.577 | kips |

*Ratings*

| | |
|---|---|
| *Flange Bolts* | *2.6%* |
| *Flange Plate* | *6.7%* |

*Flange Bolt Information*

| | | |
|---|---|---|
| Number of Bolts | 12 | |
| Diameter | 1 | in |
| Grade | A325 | |
| Bolt Circle | 28 | in |
| Threads Included | Yes | |

*Upper Flange Plate*

| | | |
|---|---|---|
| Location = | External | |
| Plate Strength (Fy) = | 36 | ksi |
| Plate Tensile (Fu) = | 58 | ksi |
| Plate Thickness = | 1 | in |
| Outer Diameter = | 30.5 | in |

*Lower Flange Plate*

| | | |
|---|---|---|
| Location = | External | |
| Plate Strength (Fy) = | 36 | ksi |
| Plate Tensile (Fu) = | 58 | ksi |
| Plate Thickness = | 1 | in |
| Outer Diameter = | 30.5 | in |

*Pole Information*

| | | |
|---|---|---|
| Shaft Diam. (Upper) = | 21 | in |
| Thickness (Upper)= | 0.1875 | in |
| # of Sides (Upper) = | 12 | |
| Fy (Upper) = | 65 | ksi |
| | | |
| Shaft Diam. (Lower) = | 26 | in |
| Thickness (Lower)= | 0.1875 | in |
| # of Sides (Lower) = | 12 | |
| Fy (Lower) = | 65 | ksi |

*Upper Stiffeners*

| | |
|---|---|
| Configuration = | None |

*Lower Stiffeners*

| | |
|---|---|
| Configuration = | None |

EBI Consulting

environmental | engineering | due diligence

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

T-Mobile Existing Facility

Site ID: CT11725A

1 Eagle Hill
Tolland, Connecticut 06084

**November 29, 2021**

**EBI Project Number: 6221007052**

| **Site Compliance Summary** | |
|---|---|
| Compliance Status: | **COMPLIANT** |
| Site total MPE% of FCC general population allowable limit: | **23.60%** |

21 B Street, Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

November 29, 2021

T-Mobile
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11725A -

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **1 Eagle Hill** in **Tolland, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

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

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

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

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

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

Additional details can be found in FCC OET 65.

## CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 1 Eagle Hill in Tolland, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, 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 power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

For all calculations, all equipment was calculated using the following assumptions:

1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

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

3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

5) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

7) 1 LTE Traffic channel (LTE 1C and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 60 Watts.

8) 1 LTE Broadcast channel (LTE 1C and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 20 Watts.

9) 1 NR Traffic channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.

10) 1 NR Broadcast channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts.

11) 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.

12) 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.

13) The antennas used in this modeling are the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz channel(s), the Commscope VV-65A-R1 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector C. 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.

14) The antenna mounting height centerline of the proposed antennas is 132 feet above ground level (AGL).

15) 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.

16) All calculations were done with respect to uncontrolled / general population threshold limits.

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environmental | engineering | due diligence

# T-Mobile Site Inventory and Power Data

| Sector: | A | Sector: | B | Sector: | C |
|---|---|---|---|---|---|
| Antenna #: | 1 | Antenna #: | 1 | Antenna #: | 1 |
| Make / Model: | Ericsson AIR 6449 | Make / Model: | Ericsson AIR 6449 | Make / Model: | Ericsson AIR 6449 |
| Frequency Bands: | 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz | Frequency Bands: | 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz | Frequency Bands: | 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz |
| Gain: | 22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd | Gain: | 22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd | Gain: | 22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd |
| Height (AGL): | 132 feet | Height (AGL): | 132 feet | Height (AGL): | 132 feet |
| Channel Count: | 4 | Channel Count: | 4 | Channel Count: | 4 |
| Total TX Power (W): | 240 Watts | Total TX Power (W): | 240 Watts | Total TX Power (W): | 240 Watts |
| ERP (W): | 36,356.09 | ERP (W): | 36,356.09 | ERP (W): | 36,356.09 |
| Antenna A1 MPE %: | **8.23%** | Antenna B1 MPE %: | **8.23%** | Antenna C1 MPE %: | **8.23%** |
| Antenna #: | **2** | Antenna #: | **2** | Antenna #: | **2** |
| Make / Model: | RFS APXVAARR24_43-U-NA20 | Make / Model: | RFS APXVAARR24_43-U-NA20 | Make / Model: | RFS APXVAARR24_43-U-NA20 |
| Frequency Bands: | 600 MHz / 600 MHz / 700 MHz | Frequency Bands: | 600 MHz / 600 MHz / 700 MHz | Frequency Bands: | 600 MHz / 600 MHz / 700 MHz |
| Gain: | 12.95 dBd / 12.95 dBd / 13.35 dBd | Gain: | 12.95 dBd / 12.95 dBd / 13.35 dBd | Gain: | 12.95 dBd / 12.95 dBd / 13.35 dBd |
| Height (AGL): | 132 feet | Height (AGL): | 132 feet | Height (AGL): | 132 feet |
| Channel Count: | 5 | Channel Count: | 5 | Channel Count: | 5 |
| Total TX Power (W): | 200 Watts | Total TX Power (W): | 200 Watts | Total TX Power (W): | 200 Watts |
| ERP (W): | 4,059.02 | ERP (W): | 4,059.02 | ERP (W): | 4,059.02 |
| Antenna A2 MPE %: | **2.19%** | Antenna B2 MPE %: | **2.19%** | Antenna C2 MPE %: | **2.19%** |
| Antenna #: | **3** | Antenna #: | **3** | Antenna #: | **3** |
| Make / Model: | Commscope VV-65A-R1 | Make / Model: | Commscope VV-65A-R1 | Make / Model: | Commscope VV-65A-R1 |
| Frequency Bands: | 1900 MHz / 1900 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 1900 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 1900 MHz / 2100 MHz |
| Gain: | 15.15 dBd / 15.15 dBd / 15.8 dBd | Gain: | 15.15 dBd / 15.15 dBd / 15.8 dBd | Gain: | 15.15 dBd / 15.15 dBd / 15.8 dBd |
| Height (AGL): | 132 feet | Height (AGL): | 132 feet | Height (AGL): | 132 feet |
| Channel Count: | 8 | Channel Count: | 8 | Channel Count: | 8 |
| Total TX Power (W): | 360 Watts | Total TX Power (W): | 360 Watts | Total TX Power (W): | 360 Watts |
| ERP (W): | 12,418.45 | ERP (W): | 12,418.45 | ERP (W): | 12,418.45 |
| Antenna A3 MPE %: | **2.81%** | Antenna B3 MPE %: | **2.81%** | Antenna C3 MPE %: | **2.81%** |

| Site Composite MPE % | |
|---|---|
| **Carrier** | **MPE %** |
| T-Mobile (Max at Sector A): | 13.24% |
| T-Mobile (Existing) | 1.75% |
| AT&T | 2.98% |
| Verizon | 5.19% |
| Nextel | 0.44% |
| **Site Total MPE % :** | 23.60% |

| T-Mobile MPE % Per Sector | |
|---|---|
| T-Mobile Sector A Total: | 13.24% |
| T-Mobile Sector B Total: | 13.24% |
| T-Mobile Sector C Total: | 13.24% |
| | |
| Site Total MPE % : | 23.60% |

## T-Mobile Maximum MPE Power Values (Sector A)

| T-Mobile Frequency Band / Technology (Sector A) | # Channels | Watts ERP (Per Channel) | Height (feet) | Total Power Density (μW/cm²) | Frequency (MHz) | Allowable MPE (μW/cm²) | Calculated % MPE |
|---|---|---|---|---|---|---|---|
| T-Mobile 2500 MHz LTE 1C & 2C Traffic | 1 | 11044.63 | 132.0 | 25.01 | 2500 MHz LTE 1C & 2C Traffic | 1000 | 2.50% |
| T-Mobile 2500 MHz LTE 1C & 2C Broadcast | 1 | 1074.06 | 132.0 | 2.43 | 2500 MHz LTE 1C & 2C Broadcast | 1000 | 0.24% |
| T-Mobile 2500 MHz NR Traffic | 1 | 22089.26 | 132.0 | 50.02 | 2500 MHz NR Traffic | 1000 | 5.00% |
| T-Mobile 2500 MHz NR Broadcast | 1 | 2148.13 | 132.0 | 4.86 | 2500 MHz NR Broadcast | 1000 | 0.49% |
| T-Mobile 600 MHz LTE | 2 | 591.73 | 132.0 | 2.68 | 600 MHz LTE | 400 | 0.67% |
| T-Mobile 600 MHz NR | 1 | 1577.94 | 132.0 | 3.57 | 600 MHz NR | 400 | 0.89% |
| T-Mobile 700 MHz LTE | 2 | 648.82 | 132.0 | 2.94 | 700 MHz LTE | 467 | 0.63% |
| T-Mobile 1900 MHz GSM | 4 | 982.02 | 132.0 | 8.90 | 1900 MHz GSM | 1000 | 0.89% |
| T-Mobile 1900 MHz LTE | 2 | 1964.04 | 132.0 | 8.90 | 1900 MHz LTE | 1000 | 0.89% |
| T-Mobile 2100 MHz LTE | 2 | 2281.14 | 132.0 | 10.33 | 2100 MHz LTE | 1000 | 1.03% |
| | | | | | | **Total:** | **13.24%** |

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

## Summary

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

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

| T-Mobile Sector | Power Density Value (%) |
|---|---|
| Sector A: | 13.24% |
| Sector B: | 13.24% |
| Sector C: | 13.24% |
| T-Mobile Maximum MPE % (Sector A): | 13.24% |
| | |
| Site Total: | 23.60% |
| | |
| Site Compliance Status: | **COMPLIANT** |

The anticipated composite MPE value for this site assuming all carriers present is **23.60%** 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.