INDUSTRIAL AVE,
TE 3
HWAH NJ 07430

NE: 201.684.0055
: 201.684.0066

Transcend Wireless

May 13th, 2022

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

RE: Notice of Exempt Modification
99 Christian Hill Road, Cromwell, CT 06416
Latitude: 41.60621
Longitude: -72.701206
T-Mobile Site#: CTHA240A - Anchor

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 108-foot level of the existing 111-foot self support tower at 99 Christian Hill Road, Cromwell, CT. The 111-foot self support tower is owned by American Tower. The property is owned by M360 Berlin Land Holdings LLC. T-Mobile now intends to remove and replace (3) antennas and add (3) additional antennas at the 111-foot level of the tower. These antennas will support 5G services.

**Planned Modifications:**
**Tower:**
Install New:
(3) Ericsson AIR 6419 B41 Antennas
(3) Commscope VV-65A-R1 Antennas
(3) Radio 4460 B25 B66
(2) 6x24 Hybrid Cables
To Remain:
(3) RFS APXVAALL24 Antennas
(3) Radio 4449 B71 B85
(3) 1 ⅝" Hybrid Cables
To Be Removed:
(3) AIR32 Antennas
(3) KRY 112 144/1 TMAs
(6) 1 ⅝" Coax Cables

**Ground:**
Install (1) 6160 Power Enclosure
Install (1) B160 Battery Cabinet
Remove (1) Nortel Cabinet and (6) RU22 RRUs

This facility was approved by the Connecticut Siting Council on January 25, 2006 (Petition 750) and January 13, 2015 (Petition 1129) in two separate petitions. The proposed modification complies with the original approval.

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 Mayor Allan Spotts, Elected Official, and Stuart B. Popper, Director of Planning and Development, 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 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,

**Eric Breun**
Transcend Wireless
Cell: 201-658-7728
Email: ebreun@transcendwireless.com

Attachments
cc: Mayor Allan Spotts - Mayor of Cromwell
Stuart B. Popper - Director of Zoning and Development
M360 Berlin Land Holdings LLC - Property Owner
American Tower - Tower Owner

ERIC BREUN
2016587728
1 INTERNATIONAL BLVD.
MAHWAH NJ 07495

1 LBS

1 OF 1

**SHIP TO:**
MAYOR ALLAN SPOTTS
41 WEST STREET
**CROMWELL CT 06416**

**CT 061 9-01**

**UPS GROUND**
TRACKING #: 1Z V25 742 03 9766 8181

BILLING: P/P

Reference #1: CTHA240A

XOL 22.04.20 NV45 20.0A 05/2022*

ERIC BREUN
2016587728
1 INTERNATIONAL BLVD.
MAHWAH NJ 07495

1 LBS

1 OF 1

**SHIP TO:**
STUART B POPPER
41 WEST STREET
**CROMWELL CT 06416**

**CT 061 9-01**

**UPS GROUND**
TRACKING #: 1Z V25 742 03 9629 8172

BILLING: P/P

Reference #1: CTHA240A

XOL 22.04.20 NV45 20.0A 05/2022*

ERIC BREUN
2016587728
1 INTERNATIONAL BLVD.
MAHWAH NJ 07495

1 LBS

1 OF 1

**SHIP TO:**
CONTACTS MANAGEMENT
AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY
**WOBURN MA 01801**

**MA 018 9-04**

**UPS GROUND**

TRACKING #: 1Z V25 742 03 9905 8194

BILLING: P/P

Reference #1: CTHA240A

XOL 22.04.20 NV45 20.0A 05/2022*

ERIC BREUN
2016587728
1 INTERNATIONAL BLVD.
MAHWAH NJ 07495

1 LBS

1 OF 1

**SHIP TO:**
M360 BERLIN LAND HOLDINGS LLC
999 CORPORATE DRIVE
**LADERA RANCH CA 92694**

**CA 926 9-06**

**UPS GROUND**

TRACKING #: 1Z V25 742 03 9205 0829

BILLING: P/P

Reference #1: CTHA240A

XOL 22.04.20 NV45 20.0A 05/2022*

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

**Delivery Date:** Tuesday, 05/10/2022

**Delivery Time:** 10:03 AM

**Left At:** FRONT DESK

**Signed by:** MAYOR

## TRANSCEND WIRELESS

| | |
|---|---|
| **Tracking Number:** | 1ZV257420396298172 |
| **Ship To:** | STUART B POPPER<br>41 WEST STREET<br>CROMWELL, CT 06416<br>US |
| **Number of Packages:** | 1 |
| **UPS Service:** | UPS Ground |
| **Package Weight:** | 1.0 LBS |
| **Reference Number:** | CTHA240A |

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

**Delivery Date:** Tuesday, 05/10/2022

**Delivery Time:** 10:03 AM

**Left At:** FRONT DESK

**Signed by:** MAYOR

## TRANSCEND WIRELESS

| | |
|---|---|
| **Tracking Number:** | 1ZV257420397668181 |
| **Ship To:** | MAYOR ALLAN SPOTTS<br>41 WEST STREET<br>CROMWELL, CT 06416<br>US |
| **Number of Packages:** | 1 |
| **UPS Service:** | UPS Ground |
| **Package Weight:** | 1.0 LBS |
| **Reference Number:** | CTHA240A |

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

**Delivery Date:** Tuesday, 05/10/2022

**Delivery Time:** 11:39 AM

**Left At:** FRONT DESK

**Signed by:** LONG

## TRANSCEND WIRELESS

| | |
|---|---|
| **Tracking Number:** | 1ZV257420399058194 |
| **Ship To:** | AMERICAN TOWER CORPORATION<br>10 PRESIDENTIAL WAY<br>WOBURN, MA 01801<br>US |
| **Number of Packages:** | 1 |
| **UPS Service:** | UPS Ground |
| **Package Weight:** | 1.0 LBS |
| **Reference Number:** | CTHA240A |

Your shipment
1ZV257420392050829

Estimated delivery

# Friday, May 13 by 7:00 P.M.

- Label Created
- **On the Way**
- Out for Delivery
- Delivery

**Ship To**
LADERA RANCH, CA US

# Map: 7

June 2021

Parcel on Current Map
Parcel Not on Current Map
Easements
Historic Lines
0088200 Parcel Identifier
9.02 AC Parcel Size (in acres)
100 Parcel Address
234.5 Parcel Dimension

Feet 200 100 0

N W E S

# Town of Cromwell Connecticut

| | | |
|---|---|---|
| 2 | 8 | 15 |
| 1 | 7 | 14 |
| | 6 | 13 |

This tax map is for assessment purpose only. It is not valid to use this map as a survey or for property conveyance.

AppGeo

I-91
NORTH RD
CHRISTIAN HILL RD
CHRISTIAN HILL RD
COLES RD
CEDAR DR
BERLIN RD

00071600 1.26 AC 22
00456400 1.02 AC 20
00470600 0.82 AC 1
00444000 0.46 AC 16
00342900 0.31 AC 18
00234500 1.1 AC 2
10405900 0.57 AC 10
00258000 0.46 AC 37
00020000 0.63 AC 35
00228900 0.46 AC 36
03430000 0.49 AC 4
0.46 AC 2
0.52 AC 6
0.84 AC 8
00403000 2.6 AC 34
00026400 1.66 AC
00380700 0.36 AC 24
00099700 0.21 AC 9
00401400 0.47 AC 7
00300800 0.25 AC 11
00090000 0.42 AC 17
00203400 0.58 AC 15
00134200 0.57 AC 3
00134100 1.44 AC 5
10406000 0.57 AC 33
00165200 1.23 AC 30
00338500 1.06 AC 28
11101000 0.45 AC
11300100 3.7 AC 15R
00133900 3.28 AC
31
00376100 0.68 AC 29
00055100 0.58 AC 22
00454500 1.02 AC 20
00459100 9.04 AC 100
00350800 3.56 AC 27
00117200 0.57 AC 18
00142900 0.45 AC 16
00024900 0.43 AC 14
00361700 16.85 AC 90
00042400 0.65 AC 17
00223700 0.56 AC 15
00044100 0.58 AC 11
03223400 0.6 AC 9
00065400 0.74 AC 7
00068100 0.92 AC 5
00379300 3.16 AC 117
00445600 2.7 AC 115
00071800 0.83 AC 119
11900200 1.86 AC 113A
00459200 2.45 AC 113
00430000 0.81 AC 97
00430100 0.97 AC 91

**TOWN OF CROMWELL**

***Printed By:*** Tami 01/04/2022 10:00:55AM

***Parcel ID:*** **00459100** ***Location:*** 100 BERLIN ROAD ***Map-Lot*** 07-21 ***Last Revaluation - October 1, 2022***

***Current Owner*** ***Percent***

M360 BERLIN LAND HOLDINGS LLC 0

999 CORPORATE DRIVE

LADERA RANCH CA 92694

***Previous Owner(s)***

100 BERLIN LAND LLC

## Current Value Information

Override

| Use Code | Land Value | PA 490 Value | Building Value | Outbuildings | Total Value | Total Assessed |
|---|---|---|---|---|---|---|
| 201 | 1,882,600 | 0 | 4,687,100 | 1,314,200 | 7,883,900 | 5,518,730 |
| **TOTAL** | **1,882,600** | **0** | **4,269,100** | **998,000** | **7,149,700** | **5,004,790** |

## Previous Value Information

| Tax Yr | Land Value | Bldg Value | Outbuildings | Total Value | Total Assessment |
|---|---|---|---|---|---|
| 2021 | 1,882,600 | 4,687,100 | 1,314,200 | 7,883,900 | 5,518,730 |
| 2020 | 1,882,600 | 4,687,100 | 1,314,200 | 7,883,900 | 5,518,730 |
| 2019 | 1,882,600 | 4,687,100 | 1,314,200 | 7,883,900 | 5,518,730 |
| 2018 | 1,882,600 | 4,687,100 | 1,314,200 | 7,883,900 | 5,518,730 |
| 2017 | 1,882,600 | 4,587,100 | 1,314,200 | 7,783,900 | 5,448,730 |
| 2016 | 2,035,080 | 8,364,210 | 632,930 | 11,032,220 | 7,722,560 |

## Sales Information

| Grantee | Vol-Page | Type | SaleDate | SalePrice | Sale Verif | GeneralNotes |
|---|---|---|---|---|---|---|
| M360 BERLIN LAND HOLDING | 1743-66 | SW | 10/18/2021 | 2,550,000 | Other | |
| 100 BERLIN LAND LLC | 1598-217 | W | 07/28/2017 | 6,720,000 | Family Members | |
| 100 BERLIN HOLDINGS LLC | 1520-134 | | 04/07/2015 | 7,500,000 | Other | |
| SHANER SPE ASSOCIATES LI | 1114-112 | | 09/26/2005 | 0 | No Consideration | |
| SHANER HOTEL GROUP PRO | 623-284 | | 12/06/1996 | 0 | | |

## General Notes

CROWNE PLAZA/(1) 117 SF FREEZER
FUNC-OBSOL
50/50 SPLIT BETWEEN DOUBLE/SINGLE ROOMS
POOL/JACUZZI/FITNESS CENTER/BIZ CENTER
RESTAURANT = 104 PERSON CAPACITY
LOUNGE = 32 PERSON CAPACITY
21 FUNCTION ROOMS = 2420 PERSON CAPACITY
2 STORY PARKING GARAGE

## Activity Information

| Date | Results | Visited By |
|---|---|---|
| 04/09/2018 | Court Stip | Shawna Baron |
| 09/04/2017 | Change - Value Change Company | John Valente |
| 05/18/2017 | No Change - Field Review | Dave Stannard |
| 08/31/2016 | Permit- Miscellaneous | Assessor Office |
| 08/09/2016 | Permit- Miscellaneous | Assessor Office |
| 05/20/2016 | Permit- Miscellaneous | Assessor Office |
| 11/29/2012 | Change - Value Change Company | |
| 01/27/2010 | Permit- Miscellaneous | Assessor Office |
| 06/24/2009 | Permit- Miscellaneous | Assessor Office |
| 02/03/2009 | Permit- Miscellaneous | Assessor Office |

## Building Permit Information

| Date | Permit # | Description | Amount | % Comp | Visit Date | CO Date | GeneralNotes |
|---|---|---|---|---|---|---|---|
| 07/20/2018 | 25515 | Sign | 13,000 | 100 | | | Signage rebranding |
| 05/01/2018 | 25357 | Oil Tank | 49,920 | 100 | | | REPLACEMENT OF UNDERGROUND OIL TANK |
| 01/02/2018 | 25810 | HVAC | 5,000 | 100 | | | HOOD |
| 08/31/2016 | 24262 | Other | 19,000 | 100 | 31-Aug-2016 | | Alterations to Existing R |
| 08/09/2016 | 24228 | Electric | 26,528 | 100 | 09-Aug-2016 | | Replace Fire Alarm Contro |
| 05/20/2016 | 24042 | Sign | 19,995 | 100 | 20-May-2016 | | Replace Existing Signs |
| 06/29/2009 | 18460 | Electric | 3,500 | 100 | 24-Jun-2009 | | |
| 06/01/2009 | 18397 | Other | 26,000 | 100 | 27-Jan-2010 | 27-Jan-2010 | swap antennas on existing |

## Land Data

| Use | Description | Units | Unit Type | Neigh | Land Adjustments | Special Land Calc | Appraised Value | PA 490 Asmt | Neigh Order | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 201 | Commercial | 393,778 | SF | CL | Shape -30% Access -40% | | 1,882,600 | 0 | 1500 | |

**Total Area: 9.04** **PA 490 Use Asmt: 0** **Total Appraised: 1,882,600** **Assessed Value: 1,317,820**

## Property Factors

Census 5701
Flood: YES
Topo:
Street: Paved
Dev. Map
Dev. Map

## Zoning Data

| Desc. | % |
|---|---|
| HB | 100.00 |

## Utilities

2 Public Water

## BAA

15K;12K,08K;07K

***Patriot***
**Properties Inc.**

**ParcelID:** 00459100 **Location:** 100 BERLIN ROAD **Printed By:** Tami 01/04/2022 10:00:55AM

Bldg Seq 1 Of 1

## Exterior Information

| | | |
|---|---|---|
| Building Type: | Hotel - FS | |
| Story Ht: | 5 Story | |
| Living Units: | 0 | |
| Foundation: | | |
| Prim. Ext. Wall: | Concrete | 50% |
| Sec. Ext. Wall: | Brick/Masonr | 50% |
| Roof Type: | Flat | |
| Roof Cover: | T&G/Rubber | |
| Avg. Wall Ht: | 10.00 | |
| Color: | | |

## Interior Information

| | | |
|---|---|---|
| Prime Wall: | Drywall | |
| Sec. Wall: | | |
| Floor Type: | Carpet | 50% |
| Sec. Floor: | Ceram Clay T | 50 % |
| Heat Fuel: | Gas | |
| Heat Type: | Forced Air | |
| Sec. Ht Type: | | |
| % A/C: | 100 | |
| % Sprinkled: | 100 | |
| Bsmt. Gar: | 0 | |
| Kitchens: | 0 | Add. Kit: 0 |
| Fireplaces: | 0 | Gas: 0 |
| Int. Condition: | Typical | |

## Room Count

| | |
|---|---|
| Total Rooms: | |
| Bedrooms: | |

## Bath Features

| | |
|---|---|
| Full Baths: | 0 |
| Addl. Full Baths: | 0 |
| Half Baths: | 0 |
| Addl. Half Baths: | 0 |
| Full Bths Below: | 0 |
| Half Bths Below: | 0 |
| Other Fixtures: | 0 |
| Total Baths: | 0 0 |

## Condo Information

| | |
|---|---|
| Name: | |
| Style: | |
| Location: | |
| Tot Units: | |

## General Information

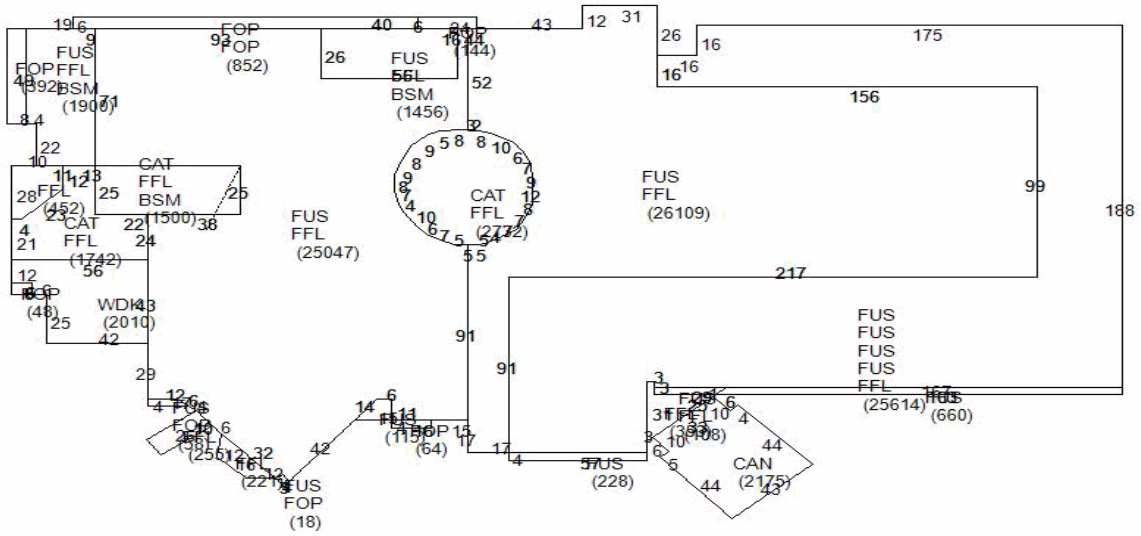
| | |
|---|---|
| Year Blt: | 1968 |
| Grade: | B- |
| Remodeled Yr: | |
| Rem. Kitchen Yr: | |
| Rem. Bath Yr: | |

## Depreciation %

| | | |
|---|---|---|
| Phys Cond | Average | 38.25 |
| Func | | 50.00 |
| Econ | | 40.00 |
| Spec | | |
| OV | | |
| Total %Dep: | | 81.48 |

## Calculation

| | |
|---|---|
| Basic $/SQ | 101.00 |
| Replacement Cost | 22,619,464 |
| Depreciation | 18,430,339 |
| Depreciated Value | 4,189,125 |
| Final Total (Rounded) | 4,269,100 |




## Extra Features / Yard Items (1st 10 Lines Displayed)

| Code | Description | Qty | Size | Cond. | Year | Unit Price | Dep% | UndepValue | Appraised Value | Assessment |
|---|---|---|---|---|---|---|---|---|---|---|
| ELEV | Elevator | 1 | 4 | VG | 1984 | 180,000.00 | 82 | 720,000 | 133,200 | 93,240 |
| LNFR | Lean-To Fram | 1 | 390 | AV | 2006 | 12.00 | 14 | 4,680 | 4,000 | 2,800 |
| LT1 | Light 1 | 1 | 20 | AV | 2006 | 1,200.00 | 14 | 24,000 | 20,600 | 14,420 |
| LT2 | Light 2 | 1 | 4 | AV | 2006 | 1,800.00 | 14 | 7,200 | 6,200 | 4,340 |
| LT3 | Light 3 | 1 | 2 | AV | 2006 | 2,520.00 | 14 | 5,040 | 4,300 | 3,010 |
| LT4 | Light 4 | 1 | 4 | AV | 2006 | 3,240.00 | 14 | 12,960 | 11,100 | 7,770 |
| PAV1 | Paving Asph. | 1 | 30,000 | AV | 1983 | 3.60 | 30 | 108,000 | 75,600 | 52,920 |
| PAV1 | Paving Asph. | 1 | 63,400 | AV | 1983 | 3.60 | 30 | 228,240 | 159,800 | 111,860 |
| PGAR | Parking Gara | 1 | 46,754 | PR | 1983 | 42.00 | 65 | 1,963,668 | 687,300 | 481,110 |
| SH1C | Shed CindBk/ | 1 | 320 | AV | 2006 | 21.60 | 14 | 6,912 | 5,900 | 4,130 |

## Sub Area Detail

| Code | Desc. | Living | Gross Area |
|---|---|---|---|
| FUS | Finished Upp | 158,155 | 158,155 |
| FFL | First Floor | 87,489 | 87,489 |
| FOP | Framed Open | 0 | 2,428 |
| WDK | Wood Deck | 0 | 2,010 |
| BSM | Basement | 0 | 4,856 |
| CAN | Canopy | 0 | 2,175 |
| CAT | Cath Ceil | 0 | 5,974 |
| **Total** | | **245,644** | **263,087** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Total Sp. Features:** | **133,200** | **Total Yard Items:** | **974,800** | **Total Appraised:** | **1,108,000** | **Total Assessed Value:** | **775,600** |

Petition No. 1129
T-Mobile Northeast LLC
Cromwell, Connecticut
Staff Report
January 13, 2015

On December 19, 2014, T-Mobile Northeast LLC (T-Mobile) submitted a petition (Petition) to the Connecticut Siting Council (Council) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modification of a telecommunications facility located on a former billboard structure in Cromwell, Connecticut. In 2006, the Council, as part of Petition 750, approved a 111-foot pole with an antenna platform to be mounted to the structure to support co-location by T-Mobile. In this petition, T-Mobile seeks to increase the height of the facility by one foot.

This existing facility and proposed modification qualifies as an "eligible facility request" pursuant to Section 6409 of the Spectrum Act and Federal Communication Commission October 21, 2014 rule-making in the matter of Acceleration of Broadband Deployment by Improving Wireless Facilities Siting Policies.

The existing facility consists of an 82-foot high billboard structure (erroneously listed as 86 feet high in previous reports) that supports multiple antennas as well the previously approved 111-foot pole that extends through the center of the structure. The structure is adjacent to the Interstate 91 northbound Interchange 21 on-ramp. An equipment compound is located adjacent to the base of the structure.

T-Mobile proposes to replace six antennas with six new LTE antennas at a centerline height of 108 feet. The new antennas would extend to a height of 112 feet above grade, one foot higher than the previous antenna installation. Additional work includes the removal of tower mounted amplifiers, new remote radio heads, a new gps unit and cable improvements.

The maximum worst-case power density for the facility with the proposed equipment would be 59.2 percent of the applicable limit. A Professional Engineer duly licensed in the State of Connecticut has certified that the tower is structurally capable of supporting the proposed loading.

Notice was provided to the property owner, abutting property owners, and the Town of Cromwell. No comments were received in the Council's office.

Photograph of site from google earth

**Petition No. 750**
**Omnipoint Communications, Inc., a/k/a T-Mobile (T-Mobile)**
**Cromwell, Connecticut**
**Staff Report**
**January 25, 2006**

On December 13, 2005, Connecticut Siting Council (Council) member Philip T. Ashton and Christina Lepage of Council staff met at the proposed site located at 100 Berlin Road in Cromwell to review this petition. T-Mobile proposes to construct a 111-foot pole. T-mobile is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for this facility.

An existing structure is located at the proposed site. This structure was built upon an abandoned billboard. The existing structure includes an 86-foot tower with multiple antennas that bring the total height to approximately 100 feet above ground level (agl). T-Mobile proposes to build a 111-foot pole that would be centered within and attached to the existing structure for support. The top of the antennas would be flush with the top of the proposed pole.

The current structure is made up of four I-beams with associated bracing. Two of the I-beams with x-bracing can be removed during the installation of the proposed pole provided that additional bracing be installed on the remaining two I-beams.

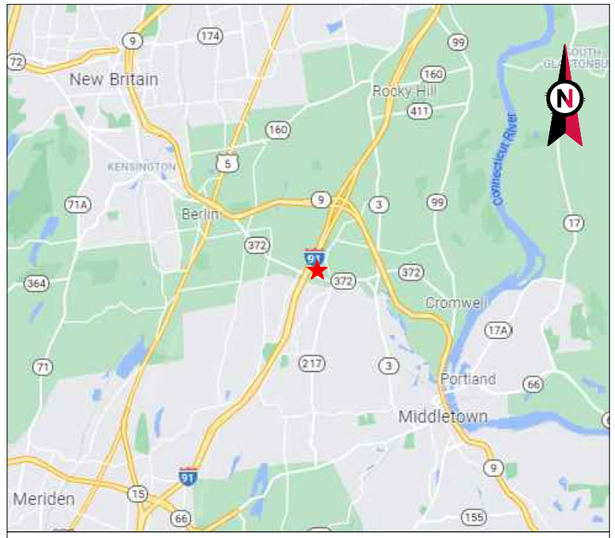
The associated equipment would be located on a ten-foot by five-foot concrete slab would be located to the south of the proposed pole. The existing 15-foot by 15-foot leased area is currently enclosed by chain link and barbed wire fence. The existing leased area would have to be expanded to fully enclose the proposed equipment.

The existing structure is located on a parcel that is zoned general business (BUS) and currently is the location of the Crowne Plaza Hotel (Cromwell). The property to the south and southeast of the parcel are also zoned BUS. The property to the east and north of the parcel are zoned residential.

T-Mobile has proposed this project to fill an existing gap in coverage along the Interstate 91 (I-91) corridor and its interchange with Route 372 in Cromwell.

The proposed cumulative radio frequency electromagnetic radiation is below the ANSI/IEEE standard.

Content Last Modified on 1/26/2006 9:40:18 AM




VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: CROMWELLSW CT
ATC SITE NUMBER: 411261
T-MOBILE SITE NAME: CTHA240/VERIZON_BB
T-MOBILE SITE NUMBER: CTHA240A
SITE ADDRESS: 99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612


LOCATION MAP

# T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
# 67D5A998E OUTDOOR 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. 2015 INTERNATIONAL BUILDING CODE (IBC)
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

## UTILITY COMPANIES

POWER COMPANY: NORTHEAST
PHONE: (800) 286-2000

TELEPHONE COMPANY: UNKNOWN
PHONE: UNKNOWN

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

## PROJECT SUMMARY

SITE ADDRESS:

99 CHRISTIAN HILL ROAD

CROMWELL, CT 06416-2612

COUNTY:MIDDLESEX

GEOGRAPHIC COORDINATES:

LATITUDE: 41.60621

LONGITUDE: -72.701206

GROUND ELEVATION: 82' AMSL

## PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

T-MOBILE
6200 OAK TREE BLVD, STE 125
INDEPENDENCE, OH 44131

ENGINEER:

POWER OF DESIGN GROUP, LLC
11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299

PROPERTY OWNER:

100 BERLIN HOLDINGS LLC
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416

## PROJECT DESCRIPTION

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

TOWER WORK:

REMOVE (3) ANTENNA(s), (3) TMA(s), AND (6) COAX CABLE(s)

INSTALL (6) ANTENNA(s), (3) RRH(s), (2) HYBRID CABLE(s), AND MOUNT MODIFICATIONS

EXISTING (3) ANTENNA(s), (3) RRH(s), AND (2) HYBRID CABLE(s) TO REMAIN

GROUND WORK:

REMOVE (1) NORTEL CABINET AND (6) RU22 RRU(s)

INSTALL (1) ENCLOSURE 6160 CABINET, (1) B160 BATTERY CABINET, (1) BB 6648, (1) PSU 4813 vR4A VOLTAGE BOOSTER, AND (1) CSR IXRe V2 ROUTER

EXISTING (1) RBS 6131 CABINET, (1) DUW30, (1) DUG20, (2) BB 6630, AND (1) GPS ANTENNA TO REMAIN

## 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 ENTITLES 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 SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

## PROJECT LOCATION DIRECTIONS

TAKE I-91 NORTH TOWARDS HARTFORD. TAKE EXIT 21. TAKE A LEFT AT THE END OF EXIT. ( RT. 372) TAKE A LEFT ONTO COLES RD. TAKE YOUR FIRST LEFT ONTO CHRISTIAN HILL RD. FOLLOW TO THE TOP OF THIS DEAD END ROAD. SITE TO THE LEFT UNDER THE SIGN POST. GATE COMBO IS 4667.

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| | MOUNT MODIFICATION SHEETS | | | |

AMERICAN TOWER®

POD
POWER OF DESIGN
11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299
502-437-5252

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 0 | FOR CONSTRUCTION | AJ | 05/03/22 |
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ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

T-MOBILE SITE NAME:
CTHA240/VERIZON_BB

SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:


05/03/2022

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

TITLE SHEET

| SHEET NUMBER: | REVISION: |
|---|---|
| G-001 | 0 |

## 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.
   - 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)

**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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ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

T-MOBILE SITE NAME:
CTHA240/VERIZON_BB

SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:


05/03/2022

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

GENERAL NOTES

| SHEET NUMBER: | REVISION: |
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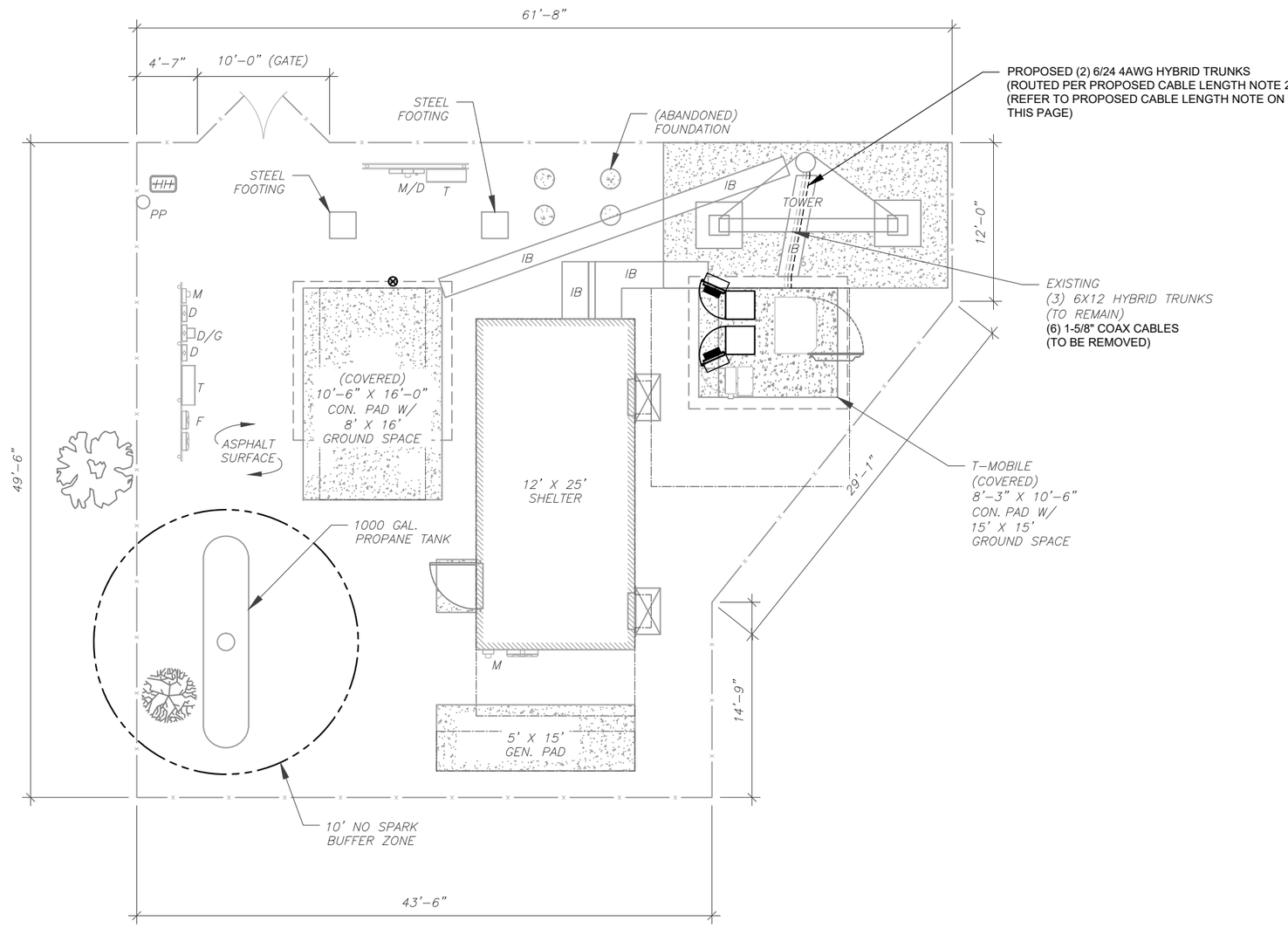
| G-002 | 0 |

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. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

## LEGEND

| | |
|---|---|
| ⊗ | GROUNDING TEST WELL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| B | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACAL |
| 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 **141'**. 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. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).

1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

( IN FEET )
1 UNIT = 10 FEET

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| 0 | FOR CONSTRUCTION | AJ | 05/03/22 |
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ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

T-MOBILE SITE NAME:
CTHA240/VERIZON_BB

SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:

STATE OF CONNECTICUT
MARK E. PATTERSON
No. 31284
LICENSED PROFESSIONAL ENGINEER

05/03/2022

T-Mobile

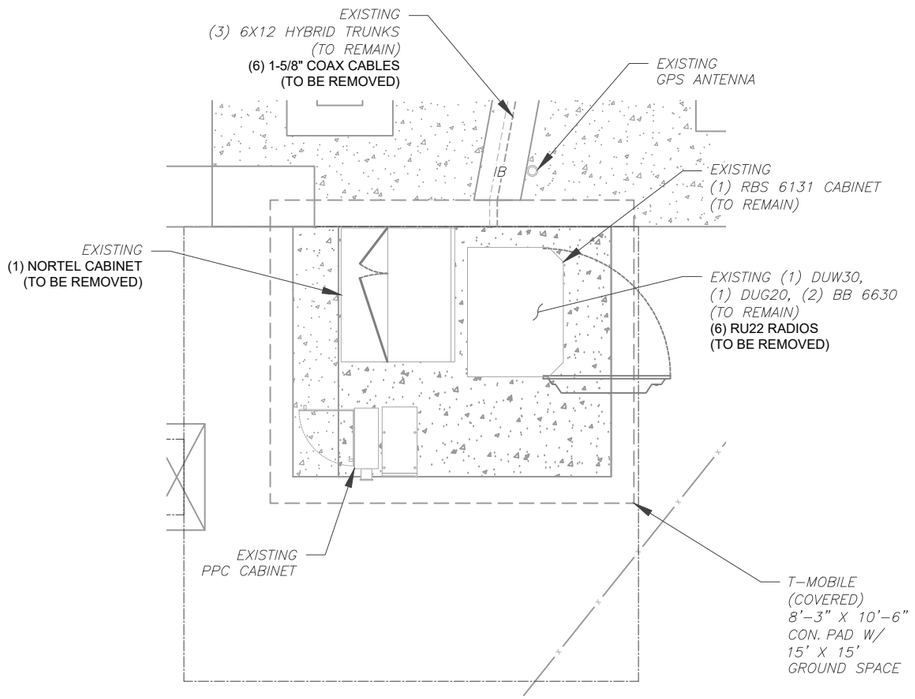
| | |
|---|---|
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

DETAILED SITE PLAN

| SHEET NUMBER: | REVISION: |
|---|---|
| C-101 | 0 |

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.

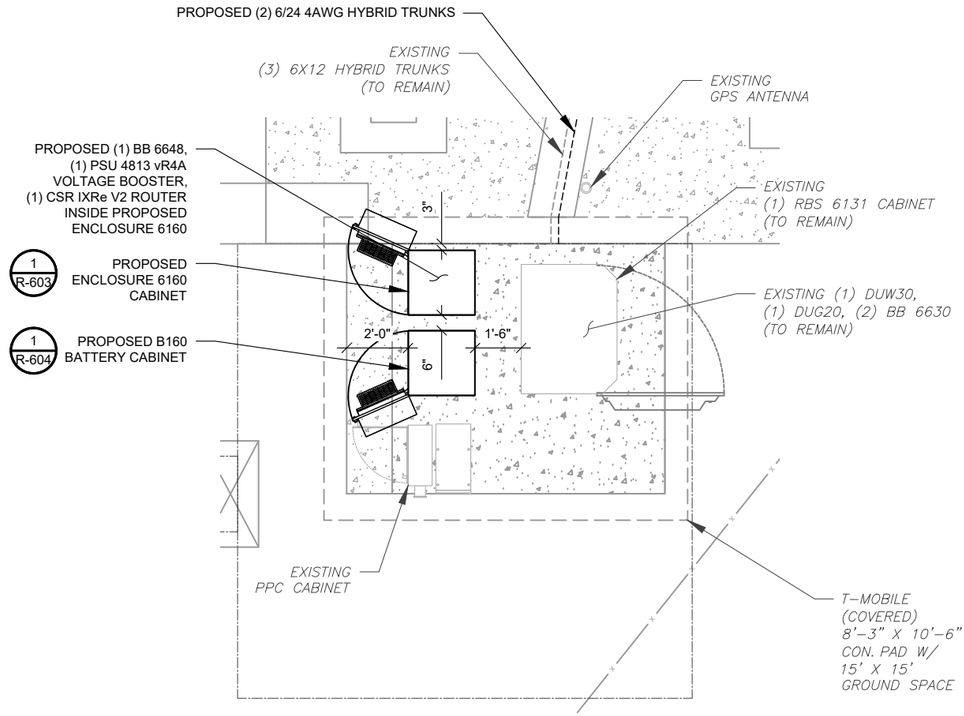



1 EXISTING GROUND EQUIPMENT LAYOUT

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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SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:


05/03/2022

T-Mobile

| | |
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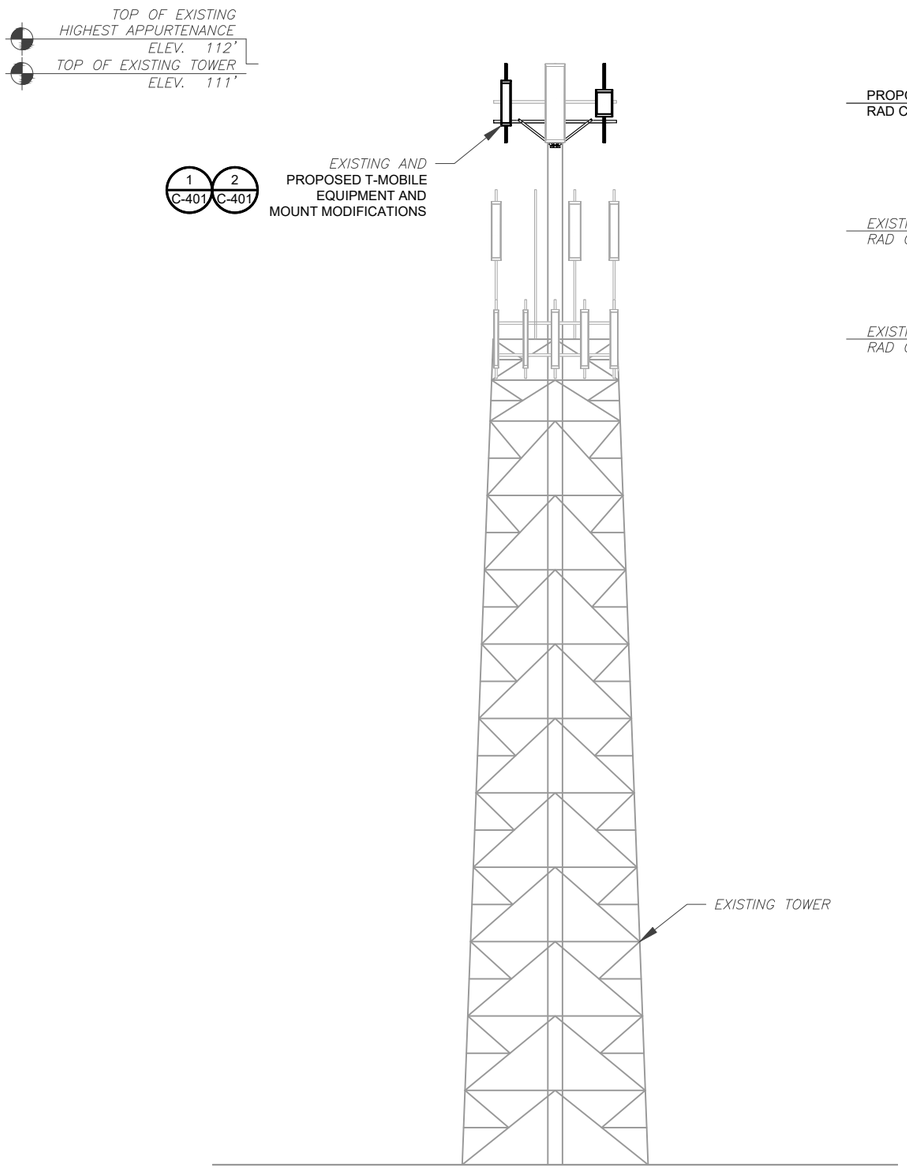
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

DETAILED GROUND PLAN

| SHEET NUMBER: | REVISION: |
|---|---|
| C-102 | 0 |

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN GROUP, DATED MARCH 3, 2022, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT




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. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
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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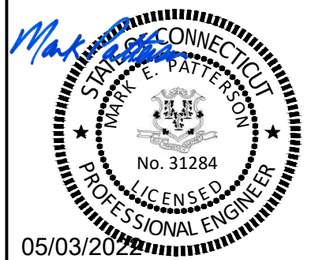


T-Mobile

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| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
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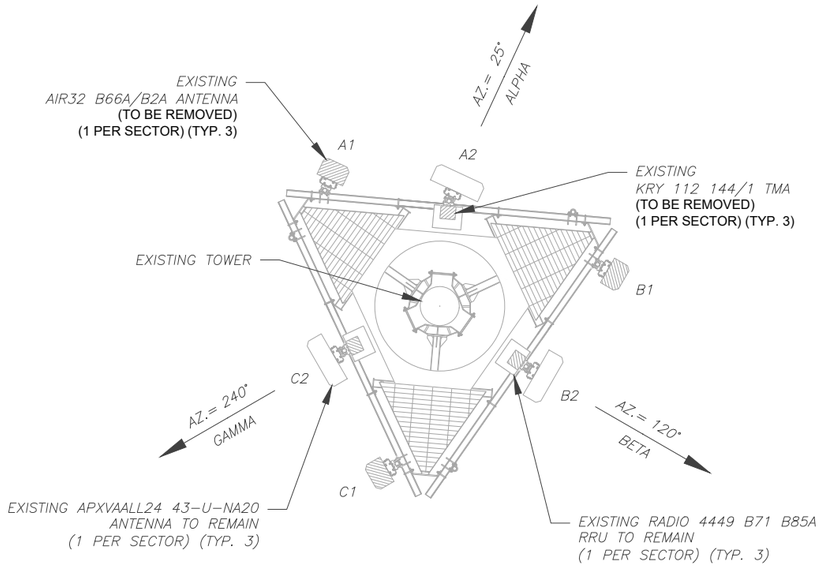
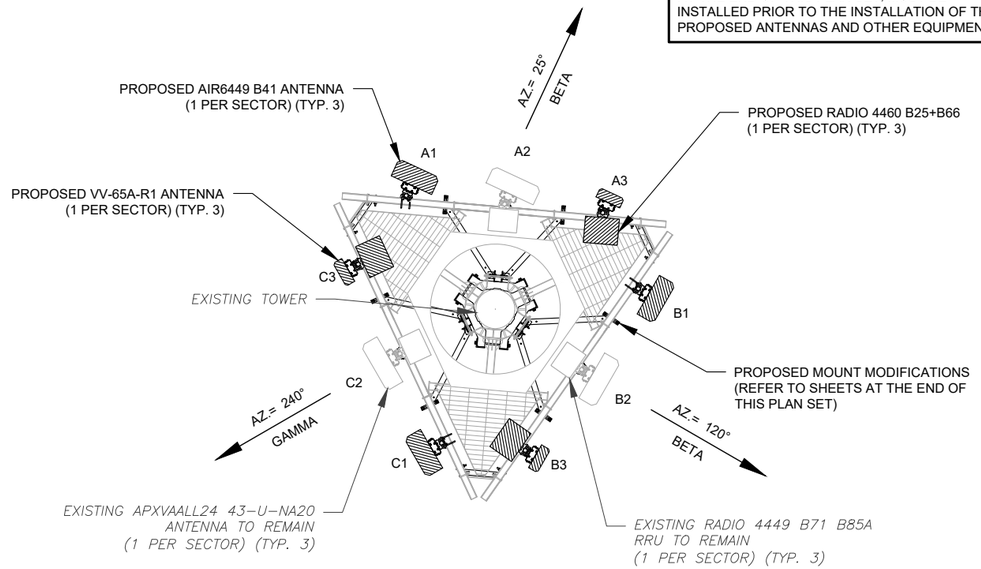
TOWER ELEVATION

| SHEET NUMBER: | REVISION: |
|---|---|
| C-201 | 0 |




1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN GROUP, DATED MARCH 3, 2022, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT




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 | 108' | 25° | A1 | AIR32 B66A/B2A | L2100/L1900/G1900 | 0°/2° | RMV | – | – |
| | | | A2 | APXVAALL24_43-U-NA20 | L700/L600/ N600/U2100 | 0°/2° | RMN | RADIO 4449 B71+B85 | RMN |
| | | | | | | | | KRY 112 144/1 | RMV |
| | | | A3 | – | – | – | – | – | – |
| BETA | 108' | 120° | B1 | AIR32 B66A/B2A | L2100/L1900/G1900 | 0°/2° | RMV | – | – |
| | | | B2 | APXVAALL24_43-U-NA20 | L700/L600/ N600/U2100 | 0°/2° | RMN | RADIO 4449 B71+B85 | RMN |
| | | | | | | | | KRY 112 144/1 | RMV |
| | | | B3 | – | – | – | – | – | – |
| GAMMA | 108' | 240° | C1 | AIR32 B66A/B2A | L2100/L1900/G1900 | 0°/2° | RMV | – | – |
| | | | C2 | APXVAALL24_43-U-NA20 | L700/L600/ N600/U2100 | 0°/2° | RMN | RADIO 4449 B71+B85 | RMN |
| | | | | | | | | KRY 112 144/1 | RMV |
| | | | C3 | – | – | – | – | – | – |

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 | 108' | 25° | A1 | AIR6449 B41 | L2500/N2500 | 0°/2° | ADD | - | - |
| | | | A2 | APXVAALL24_43-U-NA20 | L700/L600/N600 | 0°/2° | RMN | RADIO 4449 B71+B85 | RMN |
| | | | A3 | VV-65A-R1 | L2100/L1900/ G1900/U2100 | 0°/2° | ADD | RADIO 4460 B25+B66 | ADD |
| BETA | 108' | 120° | B1 | AIR6449 B41 | L2500/N2500 | 0°/2° | ADD | - | - |
| | | | B2 | APXVAALL24_43-U-NA20 | L700/L600/N600 | 0°/2° | RMN | RADIO 4449 B71+B85 | RMN |
| | | | B3 | VV-65A-R1 | L2100/L1900/ G1900/U2100 | 0°/2° | ADD | RADIO 4460 B25+B66 | ADD |
| GAMMA | 108' | 240° | C1 | AIR6449 B41 | L2500/N2500 | 0°/2° | ADD | - | - |
| | | | C2 | APXVAALL24_43-U-NA20 | L700/L600/N600 | 0°/2° | RMN | RADIO 4449 B71+B85 | RMN |
| | | | C3 | VV-65A-R1 | L2100/L1900/ G1900/U2100 | 0°/2° | ADD | RADIO 4460 B25+B66 | ADD |

| EXISTING FIBER DISTRIBUTION/OVP BOX | | EXISTING CABLING SUMMARY | | |
|---|---|---|---|---|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| – | – | – | (3) 1-5/8" | RMN |
| – | – | (6) 1-5/8" | – | RMV |

3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION / OVP BOX | | FINAL CABLING SUMMARY | | |
|---|---|---|---|---|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| - | - | - | (2) 1.99" | ADD |
| - | - | - | (3) 1-5/8" | RMN |

AMERICAN TOWER®

POD
POWER OF DESIGN
11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299
502-437-5252



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 0 | FOR CONSTRUCTION | AJ | 05/03/22 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

T-MOBILE SITE NAME:
CTHA240/VERIZON_BB

SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:

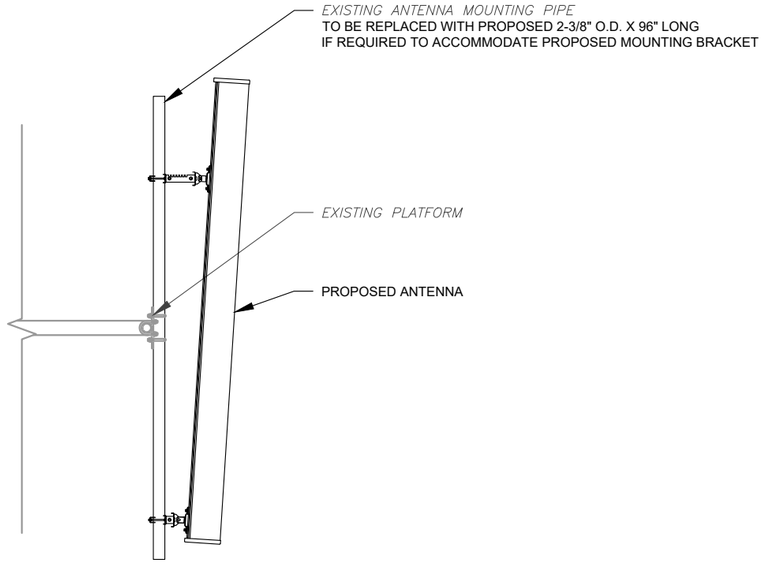

05/03/2022

T-Mobile

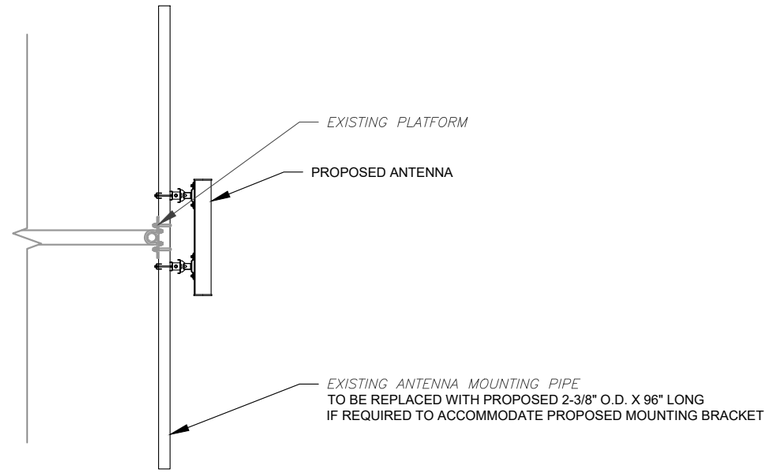
| | |
|---|---|
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

ANTENNA INFORMATION & SCHEDULE

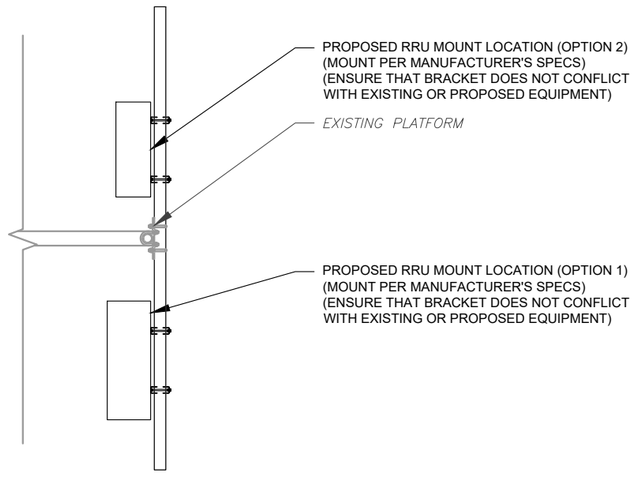
| SHEET NUMBER: | REVISION: |
|---|---|
| C-401 | 0 |




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.

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| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 0 | FOR CONSTRUCTION | AJ | 05/03/22 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

T-MOBILE SITE NAME:
CTHA240/VERIZON_BB

SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:

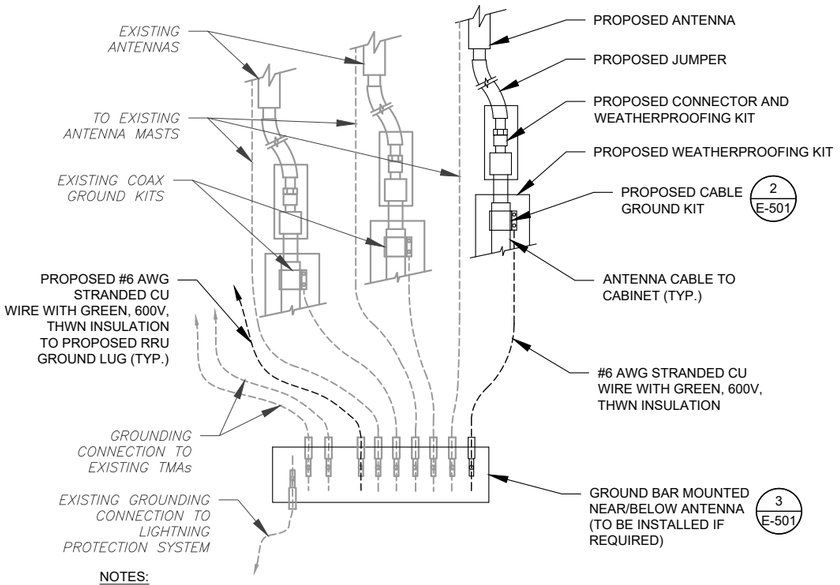

05/03/2022

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

CONSTRUCTION DETAILS

| SHEET NUMBER: | REVISION: |
|---|---|
| C-501 | 0 |

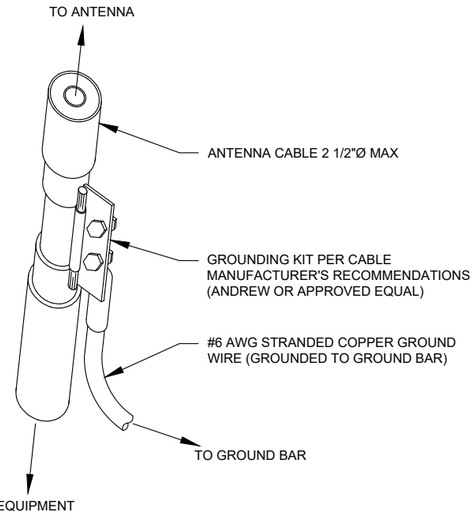



NOTES:

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.

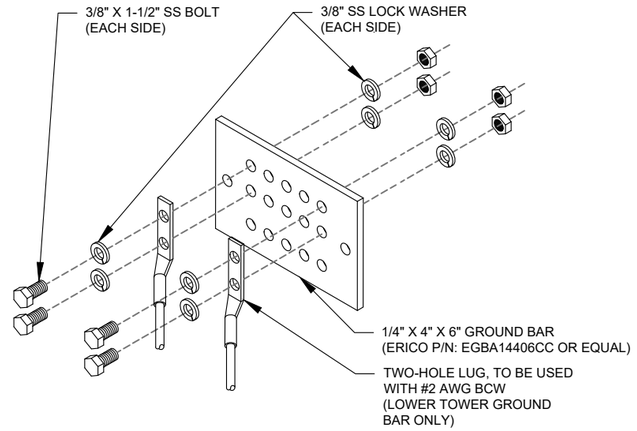



GROUND KIT NOTES:

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.

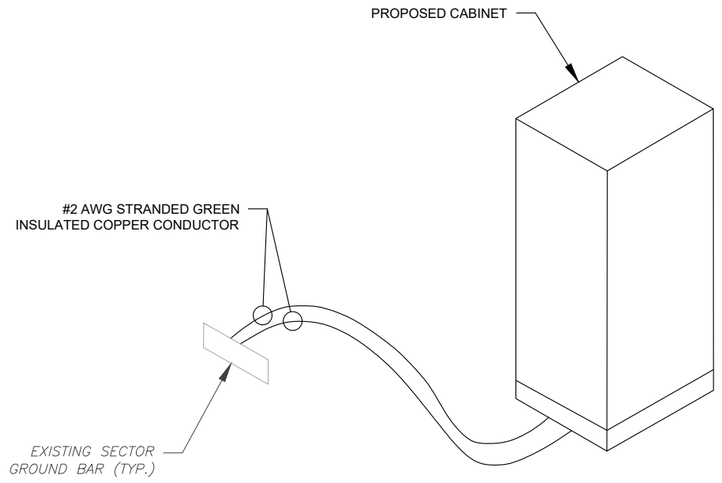
## 3 TOWER GROUND BAR DETAIL

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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502-437-5252



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 0 | FOR CONSTRUCTION | AJ | 05/03/22 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
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SITE ADDRESS:
99 CHRISTIAN HILL ROAD
CROMWELL, CT 06416-2612

SEAL:


05/03/2022

T-Mobile

| | |
|---|---|
| DATE DRAWN: | 05/03/22 |
| ATC JOB NO: | 13764584 |
| CUSTOMER ID: | CTHA240/VERIZON_BB |
| CUSTOMER #: | CTHA240A |

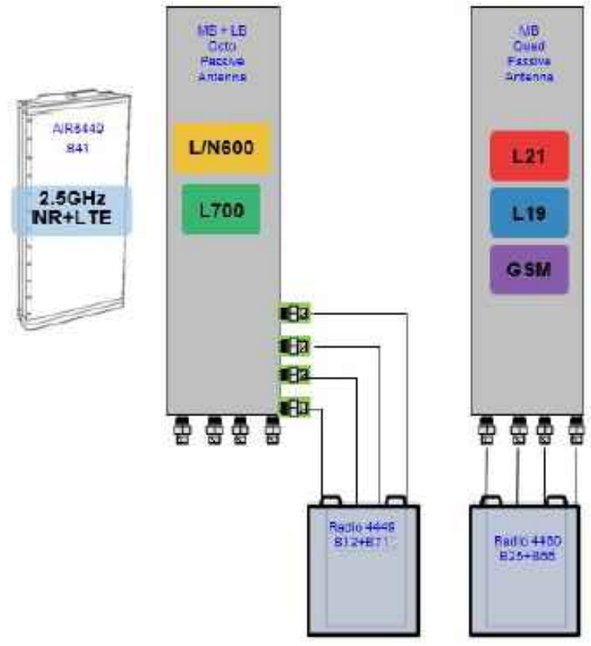
GROUNDING DETAILS

| SHEET NUMBER: | REVISION: |
|---|---|
| E-501 | 0 |

DigiSigner Document ID: c2506542-5384-4329-894b-b7daa4107805

| Proposed RAN Equipment | | | |
|---|---|---|---|
| Template: 67D5A998E Outdoor | | | |
| Enclosure | 1 | 2 | 3 |
| Enclosure Type | RBS 6131 | Enclosure 6160 AC V1 | B160 |
| Baseband | DUW30 U2100; DUG20 G1900; BB 6630 L700 L600 N600; BB 6630 L2100 L1900 | BB 6648 L2500 N2500 | |
| Hybrid Cable System | Ericsson 6x12 HCS "Select Length & AWG" (x 3 ) | RSU 4813 vR4A (Kit); Ericsson Hybrid Trunk 6/24 4AWG 100m (x 2 ) | |
| Transport System | | CSR IXRe V2 (Gen2) | |

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

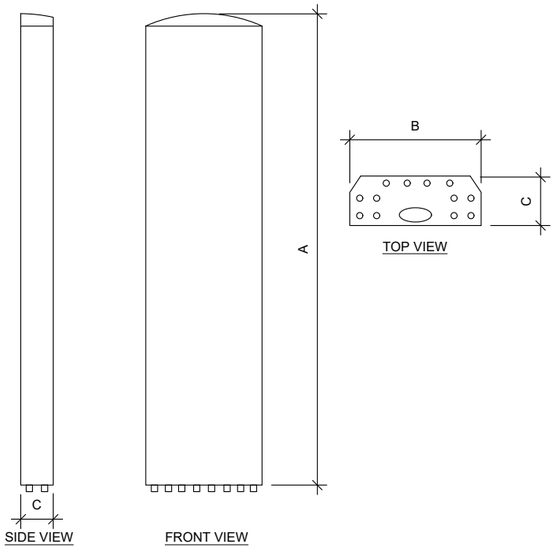



2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

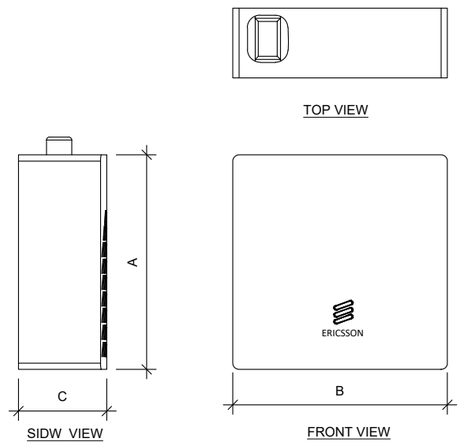
NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| R-601 | 0 |




| 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 |




| RRU SPECIFICATIONS | | | | |
|---|---|---|---|---|
| RRU MODEL | A | B | C | WEIGHT (LBS) |
| RADIO 4460 B25+B66 | 19.6" | 15.7" | 12.1" | 109.0 |

1 EQUIPMENT DETAILS
SCALE: NOT TO SCALE



SUPPLEMENTAL

SHEET NUMBER: R-602

REVISION: 0

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

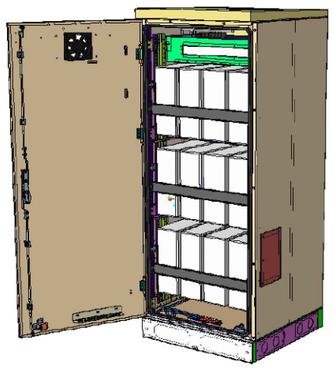
| | |
|---|---|
| **CAPACITY** | |
| Rack space user equipment | 19U (19" rack) |
| Hardware capabilities | Power and CPRI support for multi-standard remote radios (RRU or AIR) |
| | ERS Baseband and Transport units |
| | Li-Ion batteries |
| | 3PP equipment |
| | Additional power feed available as option |
| **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.

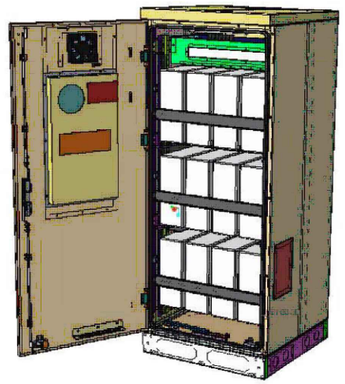
SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| R-603 | 0 |

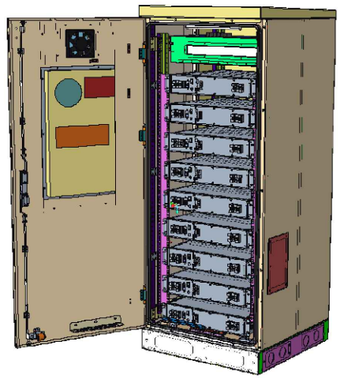
# Enclosure B160



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: 0

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

POD
PENCIL OF DESIGN

# Antenna Mount Analysis Report

| | | |
|---|---|---|
| **ATC Site Name** | : | **CROMWELLSW CT** |
| **ATC Site Number** | : | **411261** |
| **Engineering Number** | : | **13764584_C9_04** |
| **Mount Elevation** | : | **106.5 ft** |
| **Carrier** | : | **T-Mobile** |
| **Carrier Site Name** | : | **CTHA240/Verizon_BB** |
| **Carrier Site Number** | : | **CTHA240A** |
| **Site Location** | : | **99 Christian Hill Road**<br>**Cromwell, CT 06416**<br>**41.60570499, -72.70136490** |
| **County** | : | **Middlesex** |
| **Date** | : | **March 3, 2022** |
| **Max Usage** | : | **69%** |
| **Result** | : | **Contingent Pass** |

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





## Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-Mobile at 108 ft.

## Supporting Documents

| | |
|---|---|
| **Spec. Sheet** | Spec Sheet for SitePro1 Part #: HRK12, dated July 14, 2014 |
| **Spec. Sheet** | Spec Sheet for SitePro1 Part #: PRK-SFS, dated March 16, 2017 |
| **Failing Mount Analysis** | POD Engineering #: 13764584_C8_01, dated January 19, 2022 |
| **Mount Mapping** | Engineered Tower Solutions Project #150929.01, dated August 21, 2015 |
| **RFDS** | RFDS dated December 10, 2021 |
| **Photos** | Site photos from 2018 |
| **Structural Analysis** | ATC Engineering # 13698647_C3_02, dated August 26, 2021 |

## Analysis

This antenna mount was analyzed using RISA-3D v 17 analysis software

| | |
|---|---|
| **Basic Wind Speed:** | 119 mph, Vult (3-Second Gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating) |
| **Codes:** | TIA-222-H |
| **Structure Class:** | II |
| **Exposure Category:** | C |
| **Topographic Factor Procedure:** | Method 2 |
| **Topographic Feature:** | Flat |
| **Crest Height:** | 0 ft |
| **Spectral Response:** | $S_S$ = 0.204, $S_1$ = 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 provided the modifications listed below are completed:

1. Installation of proposed modifications done by POD in Project #: 13764584_C9_04, dated March 3, 2022

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.

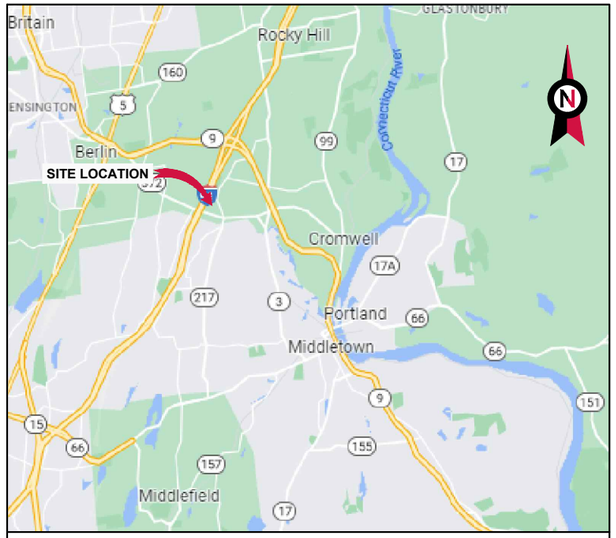


1 MOUNT ANALYSIS

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: | REVISION: |
|---|---|
| R-605 | 0 |




VICINITY MAP

AMERICAN TOWER®

SITE NAME: CROMWELLSW CT
SITE NUMBER: 411261
ATC PROJECT NUMBER: 13764584_C9_04
SITE ADDRESS: 99 CHRISTIAN HILL RD., CROMWELL, CT 06416
CARRIER SITE NUMBER: CTHA240A
CARRIER PROJECT: ANCHORPROJECT


LOCATION MAP

# MOUNT REINFORCEMENT DRAWINGS PREPARED FOR T-MOBILE

## PROJECT TEAM

**TOWER OWNER**

AMERICAN TOWER
10 PRESIDENTAL WAY
WOBURN, MA 01801

**ENGINEERED BY**

POWER OF DESIGN GROUP, LLC
1033 E. TURKEYFOOT LAKE ROAD, SUITE 206
AKRON, OH 44312

**CARRIER INFORMATION**

CARRIER: T-MOBILE
CARRIER SITE NAME: CTHA240/Verizon_BB
CARRIER SITE NUMBER: CTHA240A

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

## PROJECT DESCRIPTION

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13764584_C8_01 DATED 01/19/2022. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE MOUNT MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE MOUNT ANALYSIS WAS COMPLETED.

## 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. TIA: STRUCTURAL STANDARDS (222-H EDITION)

## PROJECT LOCATION

**GEOGRAPHIC COORDINATES**

LATITUDE: 41.60570499,

LONGITUDE: -72.70136490

| SHEET | SHEET TITLE | REV. |
|---|---|---|
| N-01 | IBC GENERAL NOTES | 0 |
| MI-01 | MODIFICATION INSPECTION CHECKLIST | 0 |
| S-01 | MODIFICATION PROFILE | 0 |
| C-01 | SUPPLEMENTAL | 0 |
| R-01 | SUPPLEMENTAL | 0 |
| R-02 | SUPPLEMENTAL | 0 |
| R-03 | SUPPLEMENTAL | 0 |

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



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022


| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

COVER

SHEET NUMBER: T-01

REVISION: 0

## GENERAL NOTES

1. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE OR APPROVED BY POD. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE PERFORMING WORK SIMILAR TO THAT DESCRIBED WITHIN THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO PERFORM THE WORK IN THE PROJECT JURISDICTION.
2. WORK SHALL ONLY BE PERFORMED DURING CALM, DRY DAYS (WINDS LESS THAN 10XMPH). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTILLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIEXDOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
3. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND POD. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE POD SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
4. THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBER, LOOSE BOLTS, CRACKED WELDS, AND OTHER STRUCTURAL DEFECTS HAVE NOT BEEN CONSIDERED UNLESS SPECIFICALLY NOTED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED LEVEL. THE OWNER AND/OR POD SHALL BE NOTIFIED IMMEDIATELY IF ANY VARIANCES ARE FOUND.
5. THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY, LEASE AREA OR APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS PERFORMED WITHIN THESE BOUNDARIES. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAIN AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK PERFORMED COMPLIES WITH ALL APPLICATION SAFETY CODES AND GOVERNING REGULATIONS.
7. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULES AND MATERIAL DELIVERIES, WITH THE OWNER/RESIDENT LEASING AGENT FOR APPROVAL.
8. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
9. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDED BUT NOT LIMITED TO ALTERED SIZED AND/OR STRENGTHS, MUST BE APPROVED BY POD.
10. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
11. ALL DIMENSIONS AND QUANTITIES LISTED WITHIN THESE DRAWINGS ARE INTENDED TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
12. ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE POD.
13. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING COAX, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCE THAT MAY INTERFERE WITH THE INSTILLATION OF THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACE AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOM MOUNTS OR ATTACHMENTS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE OWNER/POD PRIOR TO REMOVAL. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER IN WRITING.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
15. DO NOT SCALE DRAWINGS.

## STRUCTURAL STEEL NOTES

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

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

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

## BOLT TIGHTENING PROCEDURE

1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
2. FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
3. IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (POD). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:
4. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

   FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

   8.2.1 TURN-OF-NUT PRETENSIONING
   BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

5. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

   ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

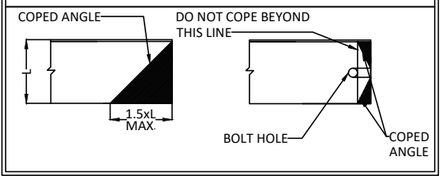
**BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS**

| | | |
|---|---|---|
| 1/2" | BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 5/8" | BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 3/4" | BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 7/8" | BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1" | BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/8" | BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/4" | BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-3/8" | BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/2" | BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |

**BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS**

| | | |
|---|---|---|
| 1/2" | BOLTS 2.25 TO 4.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 5/8" | BOLTS 2.75 TO 5.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 3/4" | BOLTS 3.25 TO 6.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 7/8" | BOLTS 3.75 TO 7.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1" | BOLTS 4.25 TO 8.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/8" | BOLTS 4.75 TO 9.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/4" | BOLTS 5.25 TO 10.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-3/8" | BOLTS 5.75 TO 11.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/2" | BOLTS 6.25 TO 12.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |

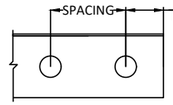
## ALLOWABLE ANGLE COPE




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

## BOLT SCHEDULE

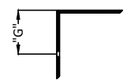
| BOLT DIAMETER | STANDARD HOLE | SHORT SLOT | MIN. EDGE DISTANCE | SPACING |
|---|---|---|---|---|
| 1/2 | 9/16 | 9/16x11/16 | 7/8 | 1-1/2 |
| 5/8 | 11/16 | 11/16x7/8 | 1-1/8 | 1-7/8 |
| 3/4 | 13/16 | 13/16x1 | 1-1/4 | 2-1/4 |
| 7/8 | 15/16 | 15/16x1-1/8 | 1-1/2 | 2-5/8 |
| 1 | 1-1/16 | 1-1/16x1-5/16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




- DIMENSIONS GIVEN IN INCHES.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED ON THE PLANS.

## WORKABLE GAGES

| | | | |
|---|---|---|---|
| LEG | 2-1/2 | ---- | ---- |
| G | 1-3/8 | ---- | ---- |




- DIMENSIONS GIVEN IN INCHES.
- MATCH EXISTING WHEN APPLICABLE.

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



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
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| | | | |
| | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022


| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

IBC GENERAL NOTES

| SHEET NUMBER: | REVISION: |
|---|---|
| N-01 | 0 |

## MODIFICATION INSPECTION CHECKLIST

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

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NAMELY THE MODIFICATION DRAWINGS., AS DESIGNED BY THE ENGINEER OF RECORD.

2. THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AN IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MODIFICATION INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.

3. TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

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

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE
- INSPECTIONS
- DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS

2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS. REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INXFEILD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

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

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

1. IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, TO THE MODIFICATION INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR HE MODIFICATION INSPECTION TO BE CONDUCTED.

- THE GC AND MODIFICATION INSPECTION COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE MODIFICATION INSPECTOR AND GC ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR REXTENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTION TO ALLOW FOUNDATION AND MODIFICATION INSPECTION(S) DONE IN ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MODIFICATION INSPECTOR ON-SITE DURING THE MODIFICATION INSPECTION. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MODIFICATION INSPECTION CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

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

CORRECTION OF FAILING MODIFICATION INSPECTION:

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

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

VERIFICATION INSPECTIONS:

1. TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTION(S) ON TOWER MODIFICATION PRODUCTS.

2. VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

REQUIRED PHOTOS:

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:

- PREXCONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - WELD PREPARATION
  - FOUNDATION MODIFICATION
  - BOLT INSTALLATION AND TORQUE
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR
- POST CONDITION PHOTOGRAPHS
- FINAL INFIELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DENTALS OF MODIFICATIONS

2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

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



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022

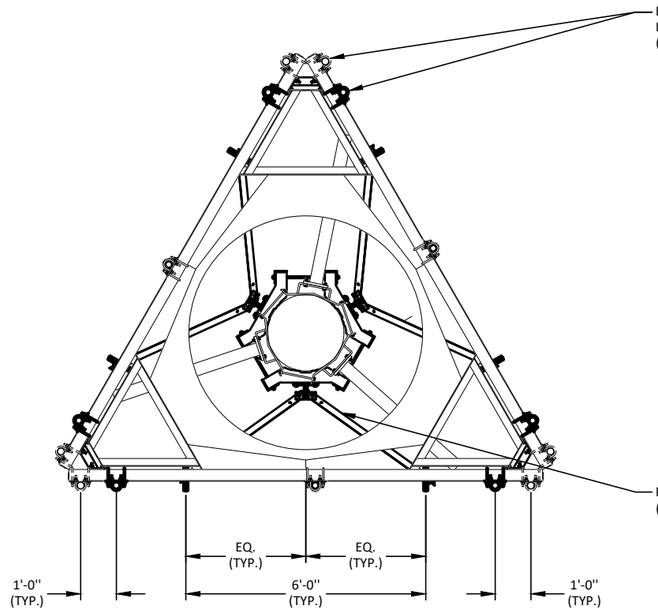
STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

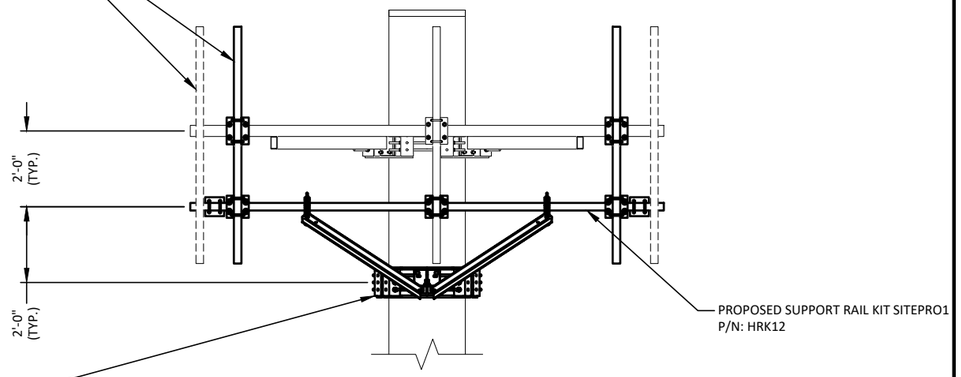
MOUNT MODIFICATION INSPECTION

| SHEET NUMBER: | REVISION: |
|---|---|
| MI-01 | 0 |

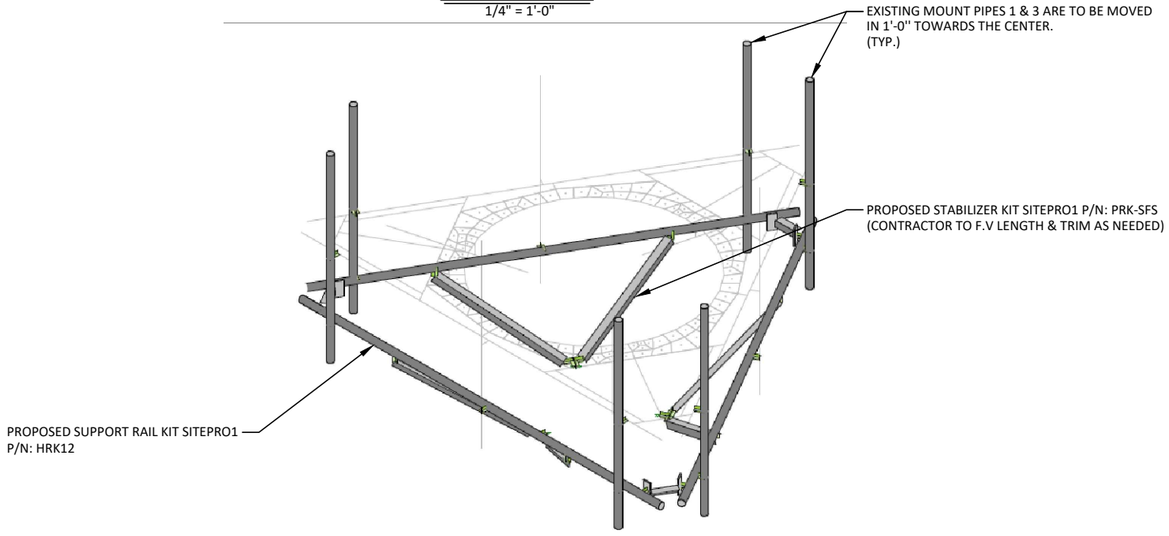
NOTES:
- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



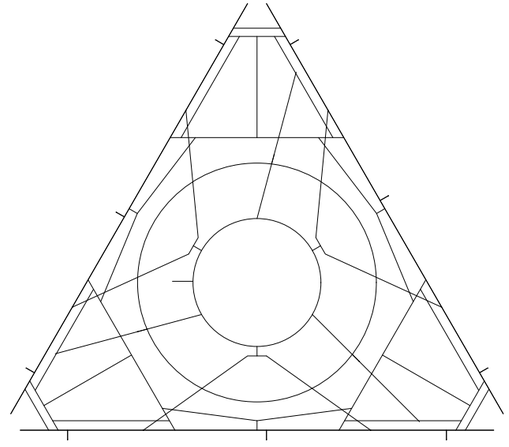

## PLAN VIEW
1/4" = 1'-0"




## ELEVATION VIEW
1/4" = 1'-0"




## ISOMETRIC VIEW
N.T.S.



## SAFETY CLIMB LOCATION
1/2" = 1'-0"

**REINFORCEMENT MATERIALS LIST (ALL SECTORS)**

| QUANTITY REQUIRED | MANUFACTURER | PART NUMBER | DESCRIPTION | LENGTH | PART WEIGHT (lb) | WEIGHT (lb) | NOTES |
|---|---|---|---|---|---|---|---|
| 1 | SITEPRO1 | PRK-SFS | STABILIZER KIT | - | 642.04 | 642.04 | |
| 1 | SITEPRO1 | HRK12 | SUPPORT RAIL KIT | | 261.72 | 261.72 | |
| | | | | | NET WEIGHT (lb) | 903.76 | |

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



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

ATC SITE NUMBER:
411261

ATC SITE NAME:
CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022


| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

MODIFICATION PROFILE

| SHEET NUMBER: | REVISION: |
|---|---|
| S-01 | 0 |

POD
POWER OF DESIGN

**Option 1 - Modify: Estimate for T-Mobile @ 411261 CROMWELLSW CT 13764584_C9_04**

**Site/Carrier Data**

| | |
|---|---|
| ATC Site Name | CROMWELLSW CT |
| ATC Site Number | 411261 |
| State | CT |
| County | Middlesex |
| City | Cromwell |
| Failing Analysis Eng. # | 13764584_C8_01 |
| Modification Drawing Eng. # | 13764584_C9_04 |
| # of RADs | 1 |
| Carrier | T-Mobile |

***Codes and Results***

| | | |
|---|---|---|
| IBC | N/A | |
| TIA | TIA-222-H | |
| Local Code | N/A | |
| Failing Analysis % | 160 | % |
| Post MOD % | 69 | % |
| Controlling Member | Plate | |
| Max Capacity Limit | 105% | |

**Modification Description**

Install (1) SitePro1 support rail kit. Install (1) SitePro1 Stabilizer kit.

**Modification Summary**

| Item # | Description | Quantity | Manufacture | Type | Part # | Locations |
|---|---|---|---|---|---|---|
| 1 | Install | 1 | SitePro1 | Support Rail Kit | HRK12 | Per Sector |
| 2 | Install | 1 | SitePro1 | Stabilizer Kit | PRK-SFS-L | Per Sector |
| Estimated Cost | $13,000 | | | | | |

Ver 1.0 - 4/1/2021

POD
POWER OF DESIGN

**Option 2 - Replace: Estimate for T-Mobile @ 411261 CROMWELLSW CT 13764584_C9_04**

**Site/Carrier Data**

| | |
|---|---|
| ATC Site Name | CROMWELLSW CT |
| ATC Site Number | 411261 |
| State | CT |
| County | Middlesex |
| City | Cromwell |
| Failing Analysis Eng. # | 13764584_C8_01 |
| Modification Drawing Eng. # | 13764584_C9_04 |
| # of RADs | 1 |
| Carrier | T-Mobile |

***Codes and Results***

| | |
|---|---|
| IBC | N/A |
| TIA | TIA-222-H |
| Local Code | N/A |

**Project Requirements**

| | | |
|---|---|---|
| Can it be modified? | Yes | |
| Face Width (ft) | 12.5 | |
| # of Sector | 3 | |
| Recommended Mount | SitePro1 RMQP-496-HK | *or approved equivalent |
| Estimated Cost | $25,000 | |

Ver 1.0 - 4/1/2021

SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| C-01 | 0 |

AMERICAN TOWER® CORPORATION

This report was prepared for American Tower Corporation by

POD POWER OF DESIGN

# Antenna Mount Analysis Report

| | | |
|---|---|---|
| **ATC Site Name** | : | **CROMWELLSW CT** |
| **ATC Site Number** | : | **411261** |
| **Engineering Number** | : | **13764584_C9_04** |
| **Mount Elevation** | : | **106.5 ft** |
| **Carrier** | : | **T-Mobile** |
| **Carrier Site Name** | : | **CTHA240/Verizon_BB** |
| **Carrier Site Number** | : | **CTHA240A** |
| **Site Location** | : | **99 Christian Hill Road<br>Cromwell, CT 06416<br>41.60570499, -72.70136490** |
| **County** | : | **Middlesex** |
| **Date** | : | **March 3, 2022** |
| **Max Usage** | : | **69%** |
| **Result** | : | **Contingent Pass** |

Prepared By: Cait Campbell
Jason G. 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 T-Mobile at 108 ft.

**Supporting Documents**

| | |
|---|---|
| **Spec. Sheet** | Spec Sheet for SitePro1 Part #: HRK12, dated July 14, 2014 |
| **Spec. Sheet** | Spec Sheet for SitePro1 Part #: PRK-SFS, dated March 16, 2017 |
| **Failing Mount Analysis** | POD Engineering #: 13764584_C8_01, dated January 19, 2022 |
| **Mount Mapping** | Engineered Tower Solutions Project #1509291.01, dated August 21, 2015 |
| **RFDS** | RFDS dated December 10, 2021 |
| **Photos** | Site photos from 2018 |
| **Structural Analysis** | ATC Engineering # 13698647_C3_02, dated August 26, 2021 |

**Analysis**

This antenna mount was analyzed using RISA-3D v 17 analysis software

| | |
|---|---|
| **Basic Wind Speed:** | 119 mph, Vult (3-Second Gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating) |
| **Codes:** | TIA-222-H |
| **Structure Class:** | II |
| **Exposure Category:** | C |
| **Topographic Factor Procedure:** | Method 2 |
| **Topographic Feature:** | Flat |
| **Crest Height:** | 0 ft |
| **Spectral Response:** | $S_s$ = 0.204, $S_1$ = 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 provided the modifications listed below are completed:

1. Installation of proposed modifications done by POD in Project #: 13764584_C9_04, dated March 3, 2022

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 |
|---|---|---|---|
| 106.5 | 108.0 | 3 | RFS APXVAALL24 43-U-NA20 |
| | | 3 | CommScope VV-65A-R1 |
| | | 3 | Ericsson Air6449 B41 |
| | | 3 | Ericsson Radio 4449 B71 B85A |
| | | 3 | Ericsson 4460 BAND 2/25 |

*Equipment assumed to be mounted directly to tower.

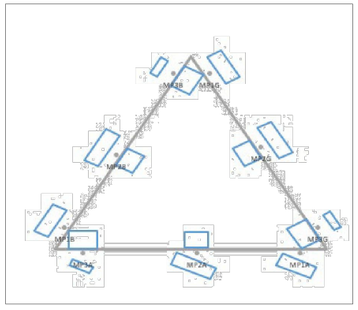
**Structure Usages**

| Structural Component | Controlling Usage | Pass/Fail |
|---|---|---|
| Circular Connection Plate | 69% | Pass |
| Mounting Pipes | 67% | Pass |
| Square Flange Plates | 36% | Pass |
| Mod Support Rails | 35% | Pass |
| Mod Stabilizers | 30% | Pass |
| Supports | 27% | Pass |
| Corners | 17% | Pass |
| Standoffs | 16% | Pass |
| Faces | 13% | Pass |
| P Supports | 12% | Pass |
| Bolts | 3% | Pass |
| Flange Bolts | 1% | Pass |





**Mount Layout (From Above)**

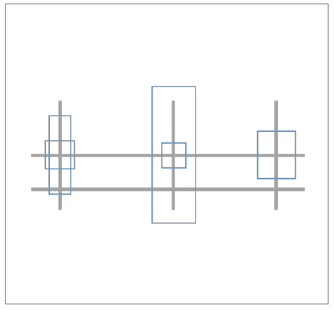



| Equipment Model | Quantity | Height (in) | Width (in) | Depth (in) | Azimuth | Sector | Mount Pipe # |
|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 25 | A | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 25 | A | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 25 | A | 1 |
| Radio 4449 B71 B85A | 1 | 17.91 | 13.2 | 10.63 | 0 | A/B/C | 2 |
| 4460 BAND 2/25 | 1 | 19.6 | 15.7 | 12.1 | 0 | A/B/C | 3 |
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 0 | B/C | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 0 | B/C | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 0 | B/C | 1 |





**Equipment Layout (From Front)**



| Equipment Model | Quantity | Height (in) | Width (in) | Depth (in) | Azimuth | Sector | Mount Pipe # |
|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 25 | A | 2 |
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| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 0 | B/C | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 0 | B/C | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 0 | B/C | 1 |





**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.

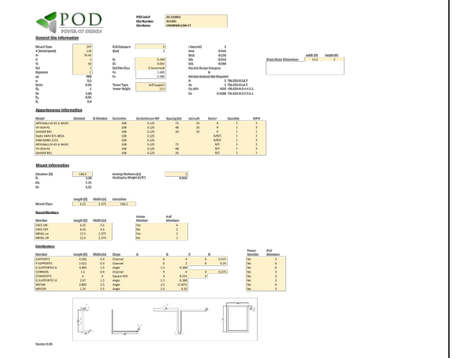
All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

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



| REV. | DESCRIPTION | BY DATE |
|---|---|---|
| △ | | |
| △ | | |
| △ | | |
| △ | | |
| △ | | |

ATC SITE NUMBER:

411261

ATC SITE NAME:

CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| R-01 | 0 |

**Appurtenance Wind Calculations**

| Model | Height | Width | Depth | Weight (lbs) | Kz | w/Ar(lb.) | EPPA_EPT | EPPA_EPT | Front | Side | Wind Force(lbs) Front | Side | Ka/Kzca |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APEXWALL24 10 ft MLD | 10.0 | 24.0 | 9.0 | 2916.0 | 1.04 | 44.82 | 5.00 | 7.00 | 4.993 | 6.990 | 0.000 | 0.000 | 0.800 |
| CH-SEAL41 | 34.0 | 41.1 | 9.0 | 2916.0 | 1.04 | 44.82 | 5.00 | 7.00 | 4.993 | 6.990 | 0.000 | 0.000 | 0.801 |
| SLH30180 | 35.2 | 35.2 | 9.0 | 3343.0 | 1.04 | 44.82 | 5.31 | 2.24 | 6.226 | 0.000 | 0.000 | 0.000 | 0.800 |
| Platform 18 FT S MOA | 1.0 | 20.0 | 13.0 | 12185 | 1.04 | 44.82 | 1.00 | 7.00 | 0.000 | 0.000 | 0.000 | 0.000 | 0.800 |
| SWB1 SERIES 1225 | 19.4 | 19.7 | 19.4 | 5954.0 | 1.04 | 44.82 | 3.25 | 4.50 | 4.493 | 6.000 | 0.000 | 0.000 | 0.800 |
| APEXWALL24 10 ft MLD | 10.0 | 24.0 | 9.0 | 2916.0 | 1.04 | 44.82 | 5.00 | 7.00 | 4.993 | 6.990 | 0.000 | 0.000 | 0.800 |
| CH-SEAL41 | 34.0 | 41.1 | 9.0 | 2916.0 | 1.04 | 44.82 | 5.00 | 7.00 | 4.993 | 6.990 | 0.000 | 0.000 | 0.801 |
| SLH30180 | 35.2 | 35.2 | 9.0 | 3343.0 | 1.04 | 44.82 | 5.31 | 2.24 | 6.226 | 0.000 | 0.000 | 0.000 | 0.800 |

**Appurtenance Ice Calculations**

| Model | Ka/Kzca | Height | Width | Depth | Weight (lbs) | Kz | w/Ar(lb.) | EPPA_EPT | EPPA_EPT | Front | Side | Wind Force (lbs) Front | Side | Ka/Kzca |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APEXWALL24 10 ft MLD | 1.15 | 84.24 | 28.74 | 20.16 | 243.09 | 1.15 | 4.66 | 18.65 | 0.19 | 0.268 | 0.044 | 0.214 | 0.034 | 0.164 |
| CH-SEAL41 | 1.15 | 90.00 | 33.00 | 9.00 | 1215.0 | 1.15 | 18.68 | 5.00 | 7.00 | 0.697 | 0.097 | 0.557 | 0.078 | 0.426 |
| SLH30180 | 1.15 | 93.05 | 33.05 | 9.00 | 1215.0 | 1.15 | 18.68 | 5.00 | 7.00 | 0.697 | 0.097 | 0.557 | 0.078 | 0.426 |
| Platform 18 FT S MOA | 1.20 | 20.00 | 13.05 | 12185 | 70.41 | 1.20 | 7.04 | 2.05 | 1.00 | 0.028 | 0.010 | 0.057 | 0.057 | 0.055 |
| SWB1 SERIES 1225 | 1.15 | 79.44 | 19.44 | 19.74 | 243.09 | 1.15 | 4.66 | 18.65 | 0.19 | 0.268 | 0.044 | 0.214 | 0.034 | 0.164 |
| APEXWALL24 10 ft MLD | 1.15 | 84.24 | 28.74 | 20.16 | 243.09 | 1.15 | 4.66 | 18.65 | 0.19 | 0.268 | 0.044 | 0.214 | 0.034 | 0.164 |
| CH-SEAL41 | 1.15 | 90.00 | 33.00 | 9.00 | 1215.0 | 1.15 | 18.68 | 5.00 | 7.00 | 0.697 | 0.097 | 0.557 | 0.078 | 0.426 |
| SLH30180 | 1.15 | 93.05 | 33.05 | 9.00 | 1215.0 | 1.15 | 18.68 | 5.00 | 7.00 | 0.697 | 0.097 | 0.557 | 0.078 | 0.426 |

**Round Members**

| Member | Ka/Kzca | Ar | d | Wind Calculations w/ | EPPA/PT1 | Load(lb/ft) | Weight | Weight (lb/ft) | Ka/Kzca | Ice Calculations w/ | EPPA/PT1 | Load(lb/ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CSQ 2IN | 44.81 | 0.33 | 10.25 | 0.33 | 1.20 | 5.94 | 0.000 | 3.75 | 0.65 | 7.76 | 0.00 | 0.67 | 1.15 | 3.81 | 0.000 |
| CSQ 2SP | 44.81 | 0.33 | 10.25 | 0.33 | 1.20 | 5.94 | 0.000 | 2.75 | 0.65 | 7.76 | 0.00 | 0.67 | 1.15 | 3.81 | 0.000 |
| SAFETY CABLE | 44.81 | 0.04 | 1.25 | 0.04 | 1.20 | 5.94 | 0.000 | 0.25 | 0.65 | 7.76 | 0.00 | 0.67 | 1.15 | 3.81 | 0.000 |
| WIRE-1/4" | 44.81 | 0.02 | 0.25 | 0.02 | 1.20 | 5.94 | 0.000 | 0.02 | 0.65 | 7.76 | 0.00 | 0.67 | 1.15 | 3.81 | 0.000 |

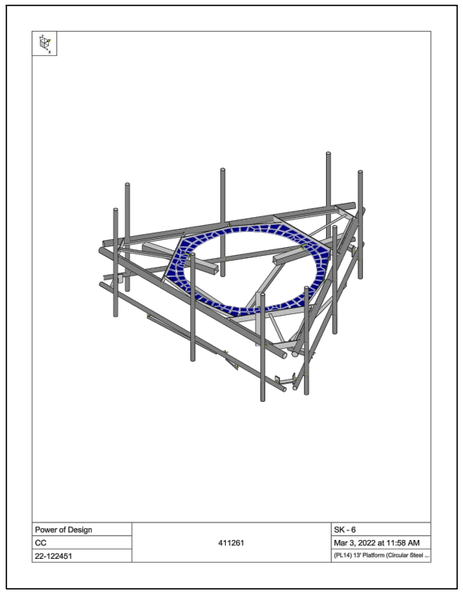
**Flat Members**

| Member | q_z(lb/ft²) | Af | Af | Wind Calculations Ka/Kzca | Load(lb/ft) | Member Ice Calculations Weight (lb/ft) | q_z(lb/ft²) | Area | Ratio | Af | Ka/Kzca | Load(lb/ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUPPORT1 | 44.81 | 0.42 | 0.00 | 0.23 | 0.001 | 2.05 | 0.65 | 7.76 | 2.23 | 0.87 | 0.00 | 1.40 | 0.001 |
| SUPPORT2 | 44.81 | 0.42 | 0.00 | 0.23 | 0.001 | 2.05 | 0.65 | 7.76 | 2.23 | 0.87 | 0.00 | 1.40 | 0.001 |
| C SUPPORT1-4 | 44.81 | 0.74 | 0.00 | 0.40 | 0.001 | 2.05 | 0.65 | 7.76 | 3.95 | 0.87 | 0.00 | 1.41 | 0.002 |
| C-MAIN1 | 44.81 | 0.23 | 0.00 | 0.20 | 0.001 | 2.05 | 0.65 | 7.76 | 0.99 | 0.87 | 0.00 | 1.33 | 0.001 |
| C SUPPORT1-3 | 44.81 | 1.03 | 0.00 | 0.55 | 0.002 | 2.05 | 0.65 | 7.76 | 5.53 | 0.87 | 0.00 | 1.43 | 0.003 |
| C SUPPORT2-3 | 44.81 | 1.03 | 0.00 | 0.55 | 0.002 | 2.05 | 0.65 | 7.76 | 5.53 | 0.87 | 0.00 | 1.43 | 0.003 |
| MOTOR | 44.81 | 0.71 | 0.00 | 0.43 | 0.001 | 2.05 | 0.65 | 7.76 | 4.25 | 0.87 | 0.00 | 1.41 | 0.002 |
| MOTOR | 44.81 | 0.74 | 0.00 | 0.47 | 0.001 | 2.05 | 0.65 | 7.76 | 5.48 | 0.87 | 0.00 | 1.43 | 0.002 |

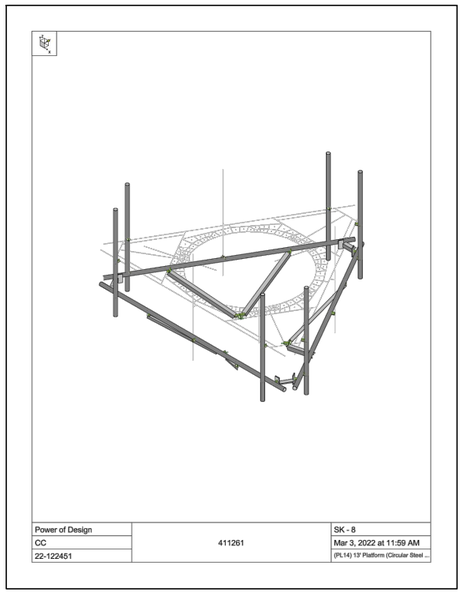
**Appurtenance Ice Calculations**

| Model | Height | Width | Depth | Weight (lbs) | Kz | Ka | Ar |
|---|---|---|---|---|---|---|---|
| APEXWALL24 10 ft MLD | 10.0 | 28 | 0.918 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CH-SEAL41 | 35.8 | 0.033 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| SLH30180 | 35.2 | 0.033 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Platform 18 FT S MOA | 18.5 | 0.033 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| SWB1 SERIES 1225 | 19.4 | 0.033 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| APEXWALL24 10 ft MLD | 10.0 | 28 | 0.918 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CH-SEAL41 | 35.8 | 0.033 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| SLH30180 | 35.2 | 0.033 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 |

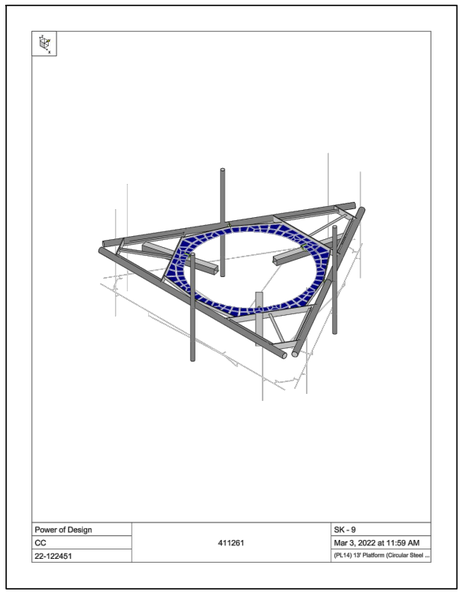
Version 6.05



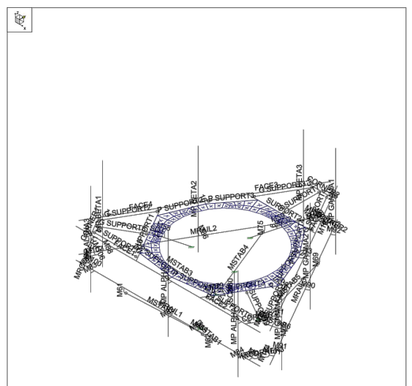
| | | |
|---|---|---|
| Power of Design | 411261 | SK - 6 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |



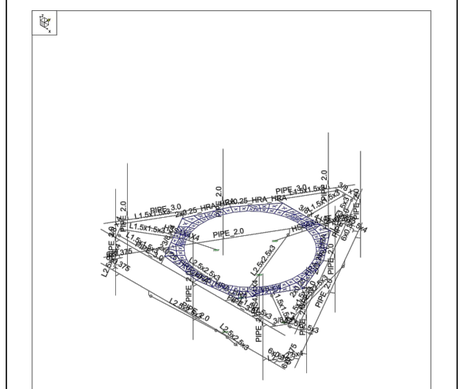
| | | |
|---|---|---|
| Power of Design | 411261 | SK - 8 |
| CC | | Mar 3, 2022 at 11:59 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |



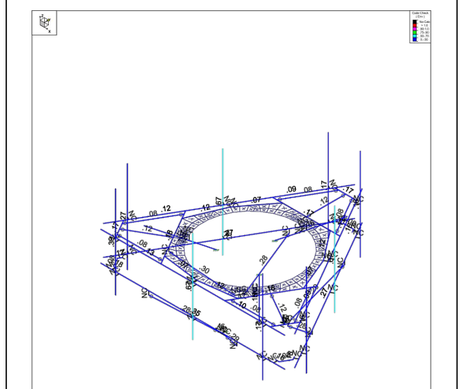
| | | |
|---|---|---|
| Power of Design | 411261 | SK - 9 |
| CC | | Mar 3, 2022 at 11:59 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |



| | | |
|---|---|---|
| Power of Design | 411261 | SK - 1 |
| CC | | Mar 3, 2022 at 11:57 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |

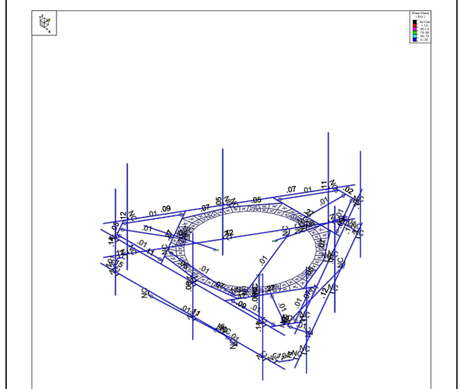


| | | |
|---|---|---|
| Power of Design | 411261 | SK - 2 |
| CC | | Mar 3, 2022 at 11:57 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |



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

| | | |
|---|---|---|
| Power of Design | 411261 | SK - 3 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |



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

| | | |
|---|---|---|
| Power of Design | 411261 | SK - 4 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |

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



| REV. | DESCRIPTION | BY DATE |
|---|---|---|
| △ | | |
| △ | | |
| △ | | |
| △ | | |
| △ | | |

ATC SITE NUMBER:

411261

ATC SITE NAME:

CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022

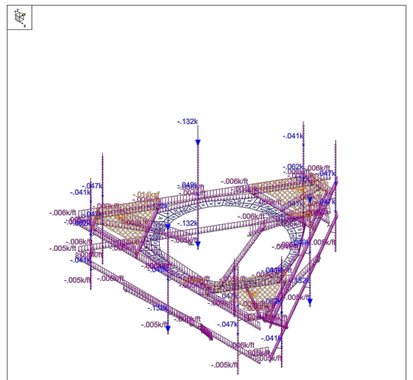
STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| R-02 | 0 |

DigiSigner Document ID: c2506542-5384-4329-894b-b7daa4107805




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



| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

ATC SITE NUMBER:

411261

ATC SITE NAME:

CROMWELLSW CT

SITE ADDRESS:
99 CHRISTIAN HILL RD.,
CROMWELL, CT 06416

3/3/2022


| | |
|---|---|
| DRAWN BY: | LT |
| APPROVED BY: | JGC |
| DATE DRAWN: | 03/03/2022 |
| ATC JOB NO: | 13764584_C9_04 |

SUPPLEMENTAL

| SHEET NUMBER: | REVISION: |
|---|---|
| R-03 | 0 |

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

POD
POWER OF DESIGN

# Antenna Mount Analysis Report

| | | |
|---|---|---|
| **ATC Site Name** | : | **CROMWELLSW CT** |
| **ATC Site Number** | : | **411261** |
| **Engineering Number** | : | **13764584_C9_04** |
| **Mount Elevation** | : | **106.5 ft** |
| **Carrier** | : | **T-Mobile** |
| **Carrier Site Name** | : | **CTHA240/Verizon_BB** |
| **Carrier Site Number** | : | **CTHA240A** |
| **Site Location** | : | **99 Christian Hill Road**<br>**Cromwell, CT 06416**<br>**41.60570499, -72.70136490** |
| **County** | : | **Middlesex** |
| **Date** | : | **March 7, 2022** |
| **Max Usage** | : | **69%** |
| **Result** | : | **Contingent Pass** |

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

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED PROFESSIONAL ENGINEER

Jason Cheronis

Digitally signed by Jason Cheronis
Date: 2022.03.07 12:02:29 -05'00'

**Table of Contents**

## Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-Mobile at 108 ft.

## Supporting Documents

| | |
|---|---|
| **Spec. Sheet** | Spec Sheet for SitePro1 Part #: HRK12, dated July 14, 2014 |
| **Spec. Sheet** | Spec Sheet for SitePro1 Part #: PRK-SFS, dated March 16, 2017 |
| **Failing Mount Analysis** | POD Engineering #: 13764584_C8_01, dated January 19, 2022 |
| **Mount Mapping** | Engineered Tower Solutions Project #150929.01, dated August 21, 2015 |
| **RFDS** | RFDS dated December 10, 2021 |
| **Photos** | Site photos from 2018 |
| **Structural Analysis** | ATC Engineering # 13698647_C3_02, dated August 26, 2021 |

## Analysis

This antenna mount was analyzed using RISA-3D v 17 analysis software

| | |
|---|---|
| **Basic Wind Speed:** | 119 mph, Vult (3-Second Gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating) |
| **Codes:** | TIA-222-H |
| **Structure Class:** | II |
| **Exposure Category:** | C |
| **Topographic Factor Procedure:** | Method 2 |
| **Topographic Feature:** | Flat |
| **Crest Height:** | 0 ft |
| **Spectral Response:** | Ss = 0.204, $S_1$ = 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 provided the modifications listed below are completed:

1. Installation of proposed modifications done by POD in Project #: 13764584_C9_04, dated March 2, 2022

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

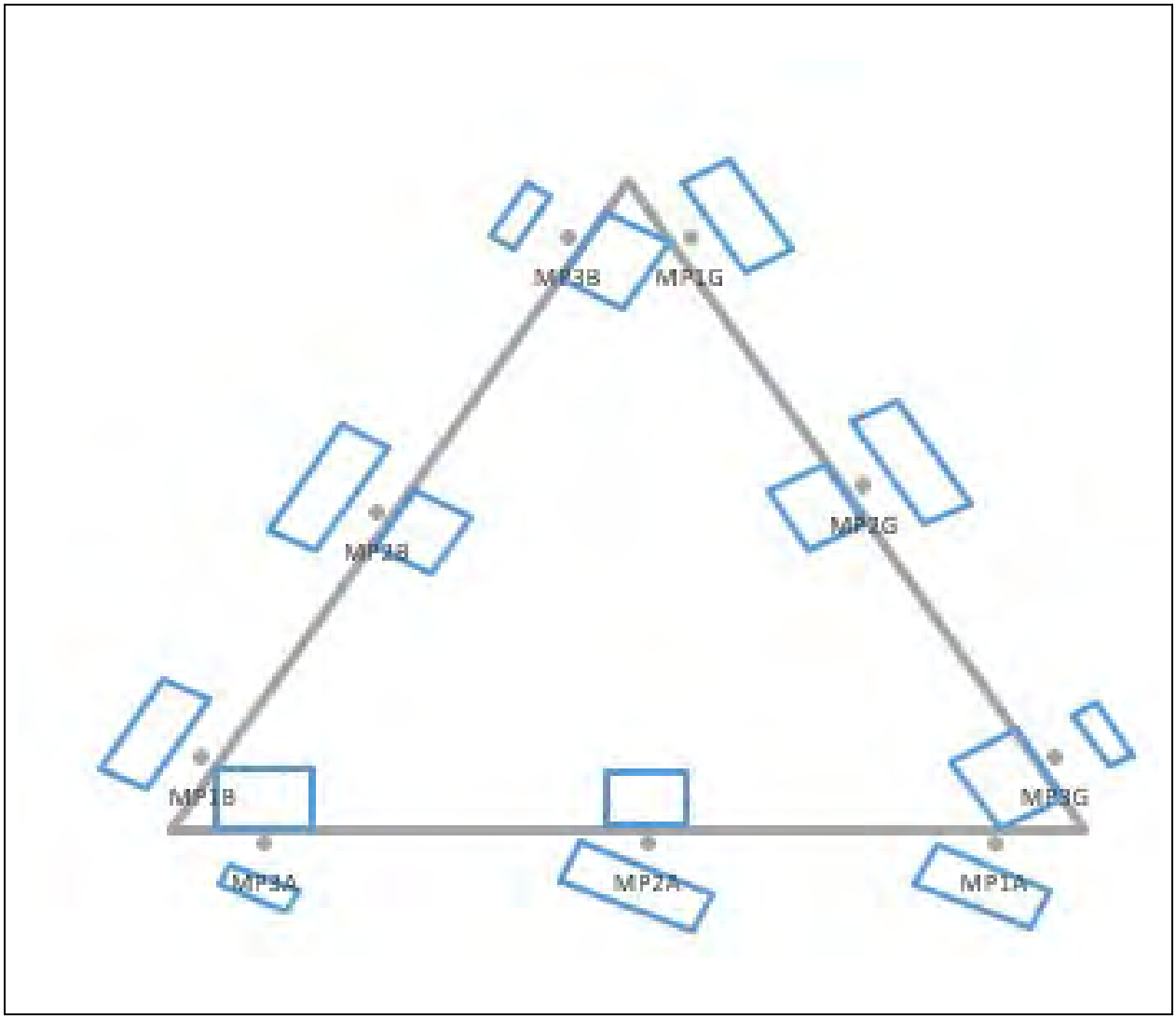
| Mount Centerline (ft) | Antenna Centerline (ft) | Qty | Antenna Model |
|---|---|---|---|
| 106.5 | 108.0 | 3 | RFS APXVAALL24 43-U-NA20 |
| | | 3 | CommScope VV-65A-R1 |
| | | 3 | Ericsson Air6449 B41 |
| | | 3 | Ericsson Radio 4449 B71 B85A |
| | | 3 | Ericsson 4460 BAND 2/25 |

***Equipment assumed to be mounted directly to tower.**

## Structure Usages

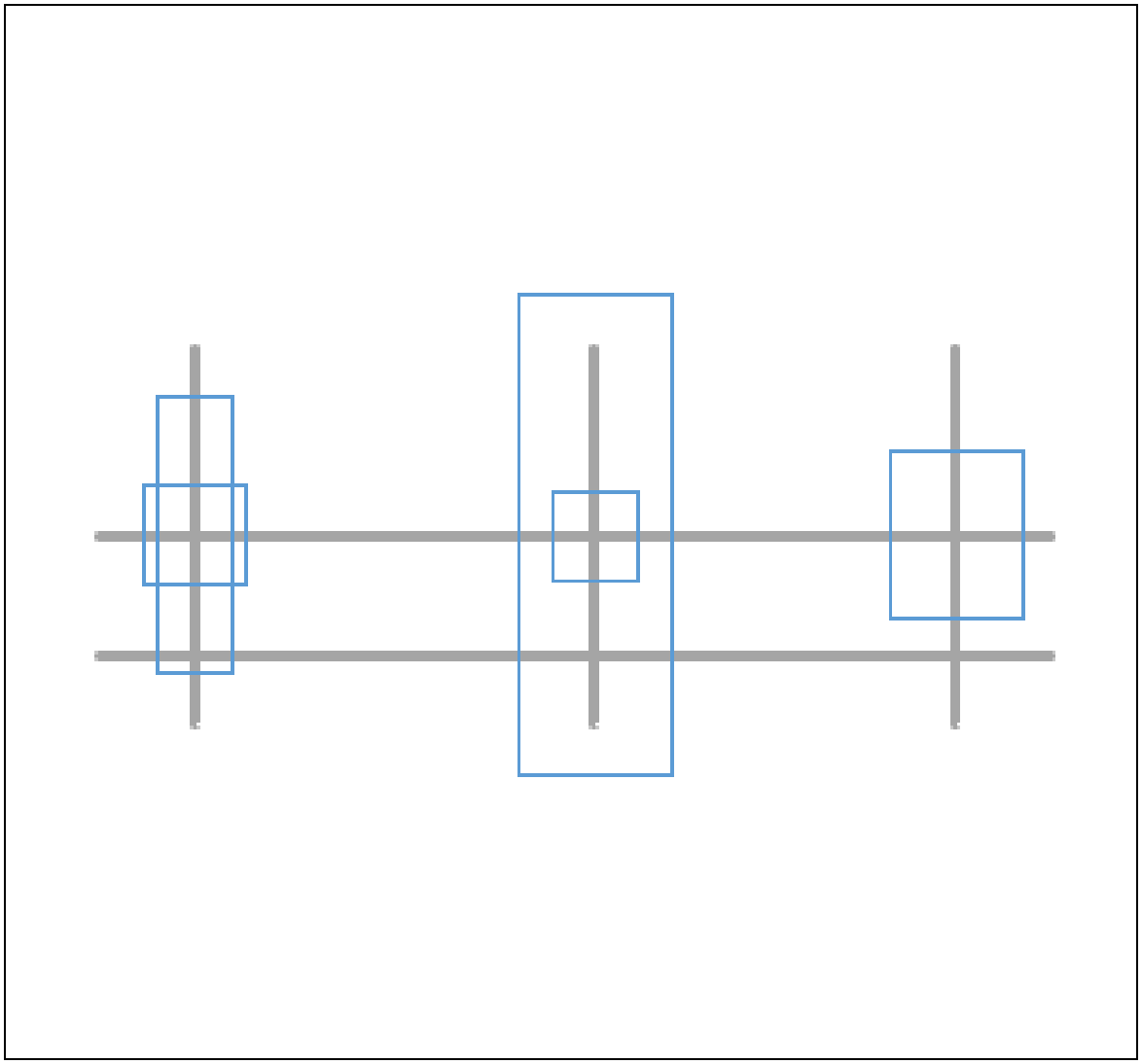
| Structural Component | Controlling Usage | Pass/Fail |
|---|---|---|
| Circular Connection Plate | 69% | Pass |
| Mounting Pipes | 67% | Pass |
| Square Flange Plates | 36% | Pass |
| Mod Support Rails | 35% | Pass |
| Mod Stabilizers | 30% | Pass |
| Supports | 27% | Pass |
| Corners | 17% | Pass |
| Standoffs | 16% | Pass |
| Faces | 13% | Pass |
| P Supports | 12% | Pass |
| Bolts | 3% | Pass |
| Flange Bolts | 1% | Pass |

## Mount Layout (From Above)




| Equipment Model | Quantity | Height (in) | Width (in) | Depth (in) | Azimuth | Sector | Mount Pipe # |
|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 25 | A | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 25 | A | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 25 | A | 1 |
| Radio 4449 B71 B85A | 1 | 17.91 | 13.2 | 10.63 | 0 | A/B/C | 2 |
| 4460 BAND 2/25 | 1 | 19.6 | 15.7 | 12.1 | 0 | A/B/C | 3 |
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 0 | B/C | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 0 | B/C | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 0 | B/C | 1 |

## Equipment Layout (From Front)



| Equipment Model | Quantity | Height (in) | Width (in) | Depth (in) | Azimuth | Sector | Mount Pipe # |
|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 25 | A | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 25 | A | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 25 | A | 1 |
| Radio 4449 B71 B85A | 1 | 17.91 | 13.2 | 10.63 | 0 | A/B/C | 2 |
| 4460 BAND 2/25 | 1 | 19.6 | 15.7 | 12.1 | 0 | A/B/C | 3 |
| APXVAALL24 43-U-NA20 | 1 | 95.9 | 24 | 8.5 | 0 | B/C | 2 |
| VV-65A-R1 | 1 | 54.7 | 12.1 | 4.6 | 0 | B/C | 3 |
| Air6449 B41 | 1 | 33.1 | 20.6 | 8.6 | 0 | B/C | 1 |

**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 #** | **22-122451** |
| **Site Number** | **411261** |
| **Site Name** | **CROMWELLSW CT** |

## General Site Information

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mount Type | SFP | Risk Category | II | I (seismic) | 1 | | | |
| V (Wind Speed) | 119 | I(ice) | 1 | Sms | 0.326 | | | |
| Zs | 76.42 | | | Sm1 | 0.132 | | width (ft) | height (ft) |
| ti | 1 | Ss | 0.204 | Sds | 0.218 | Front Outer Dimensions | 12.5 | 2 |
| Vi | 50 | S1 | 0.055 | Sd1 | 0.088 | | | |
| Kzt | 1 | Soil Site Class | D (assumed) | Seismic Design Category | | | | |
| Exposure | C | Fa | 1.600 | B | | | | |
| zg | 900 | Fv | 2.400 | Seismic Analysis Not Required | | | | |
| α | 9.5 | | | R | 2 | TIA-222-H 16.7 | | |
| Kmin | 0.85 | Tower Type | Self Support | As | 1 | TIA-222-H 16.7 | | |
| $G_H$ | 1 | Tower Height | 111 | Cs, Min | 0.03 | TIA-222-H 2.7.7.1.1 | | |
| Ke | 1.00 | | | Cs | 0.1088 | TIA-222-H 2.7.7.1.1 | | |
| $K_D$ | 0.95 | | | | | | | |
| $K_a$ | 0.9 | | | | | | | |

## Appurtenance Information

| Model | Shielded | % Shielded | Centerline | Centerline on MP | Spacing (in) | Azimuth | Sector | Quantity | MP # |
|---|---|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | | | 108 | 3.125 | 72 | 25 | A | 1 | 2 |
| VV-65A-R1 | | | 108 | 3.125 | 48 | 25 | A | 1 | 3 |
| Air6449 B41 | | | 108 | 3.125 | 20 | 25 | A | 1 | 1 |
| Radio 4449 B71 B85A | | | 108 | 3.125 | | | A/B/C | 1 | 2 |
| 4460 BAND 2/25 | | | 108 | 3.125 | | | A/B/C | 1 | 3 |
| APXVAALL24 43-U-NA20 | | | 108 | 3.125 | 72 | | B/C | 1 | 2 |
| VV-65A-R1 | | | 108 | 3.125 | 48 | | B/C | 1 | 3 |
| Air6449 B41 | | | 108 | 3.125 | 20 | | B/C | 1 | 1 |

## Mount Information

| | | | |
|---|---|---|---|
| Elevation (ft) | 106.5 | Grating Thickness (in) | 1 |
| $K_z$ | 1.28 | Grating Ice Weight (k/ft²) | 0.014 |
| Kiz | 1.12 | | |
| tiz | 1.12 | | |

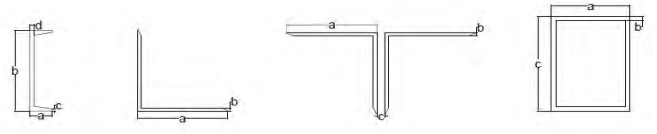
| | Length (ft) | Width (in) | Centerline |
|---|---|---|---|
| Mount Pipes | 6.25 | 2.375 | 106.5 |

### Round Members

| Member | Length (ft) | Width (in) | Frame Member | # of Members |
|---|---|---|---|---|
| FACE ON | 6.25 | 3.5 | Yes | 4 |
| FACE OFF | 6.25 | 3.5 | No | 2 |
| MRAIL on | 12.5 | 2.375 | Yes | 2 |
| MRAIL off | 12.5 | 2.375 | No | 1 |

### Flat Members

| Member | Length (ft) | Width (in) | Shape | A | B | C | D | Frame Member | # of Members |
|---|---|---|---|---|---|---|---|---|---|
| SUPPORTS | 4.583 | 0.4 | Channel | 0 | 4 | 0 | 0.375 | No | 3 |
| P SUPPORTS | 2.521 | 0.3 | Channel | 0 | 2 | 0 | 0.25 | No | 6 |
| G SUPPORTS1-6 | 3.083 | 1.5 | Angle | 1.5 | 0.188 | | | No | 6 |
| CORNERS | 1.5 | 0.4 | Channel | 0 | 4 | 0 | 0.375 | No | 3 |
| STANDOFFS | 4 | 4 | Square HSS | 4 | 0.233 | 4 | | No | 3 |
| G SUPPORTS7-9 | 2.67 | 1.5 | Angle | 1.5 | 0.188 | | | No | 3 |
| MSTAB | 3.803 | 2.5 | Angle | 2.5 | 0.1875 | | | No | 6 |
| MRCOR | 1.25 | 2.5 | Angle | 2.5 | 0.25 | | | No | 3 |




Version 3.56

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 95.9 | 24.0 | 8.5 | 122.8 | 1.29 | 44.18 | 18.22 | 7.86 | 0.805 | 0.347 | 0.801 | 0.801 | 0.429 |
| VV-65A-R1 | 54.7 | 12.1 | 4.6 | 23.8 | 1.29 | 44.18 | 5.34 | 2.46 | 0.236 | 0.109 | 0.235 | 0.235 | 0.131 |
| Air6449 B41 | 33.1 | 20.6 | 8.6 | 104.0 | 1.29 | 44.18 | 5.11 | 2.24 | 0.226 | 0.099 | 0.225 | 0.225 | 0.122 |
| Radio 4449 B71 B85A | 17.9 | 13.2 | 10.6 | 46.3 | 1.29 | 44.18 | 1.77 | 1.43 | 0.078 | 0.063 | 0.075 | 0.075 | 0.063 |
| 4460 BAND 2/25 | 19.6 | 15.7 | 12.1 | 109.0 | 1.29 | 44.18 | 2.31 | 1.78 | 0.102 | 0.079 | 0.096 | 0.096 | 0.079 |
| APXVAALL24 43-U-NA20 | 95.9 | 24.0 | 8.5 | 122.8 | 1.29 | 44.18 | 18.22 | 7.86 | 0.805 | 0.347 | 0.690 | 0.690 | 0.347 |
| VV-65A-R1 | 54.7 | 12.1 | 4.6 | 23.8 | 1.29 | 44.18 | 5.34 | 2.46 | 0.236 | 0.109 | 0.204 | 0.204 | 0.109 |
| Air6449 B41 | 33.1 | 20.6 | 8.6 | 104.0 | 1.29 | 44.18 | 5.11 | 2.24 | 0.226 | 0.099 | 0.194 | 0.194 | 0.099 |

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 1.13 | 98.15 | 26.25 | 10.75 | 263.80 | 1.13 | 7.80 | 20.21 | 9.70 | 0.158 | 0.076 | 0.175 | 0.175 | 0.104 |
| VV-65A-R1 | 1.13 | 56.95 | 14.35 | 6.85 | 82.82 | 1.13 | 7.80 | 6.46 | 3.52 | 0.050 | 0.027 | 0.057 | 0.057 | 0.036 |
| Air6449 B41 | 1.13 | 35.35 | 22.85 | 10.85 | 94.07 | 1.13 | 7.80 | 6.06 | 2.96 | 0.047 | 0.023 | 0.053 | 0.053 | 0.032 |
| Radio 4449 B71 B85A | 1.13 | 20.16 | 15.45 | 12.88 | 48.61 | 1.13 | 7.80 | 2.34 | 1.95 | 0.018 | 0.015 | 0.017 | 0.017 | 0.015 |
| 4460 BAND 2/25 | 1.13 | 21.85 | 17.95 | 14.35 | 61.78 | 1.13 | 7.80 | 2.94 | 2.35 | 0.023 | 0.018 | 0.022 | 0.022 | 0.018 |
| APXVAALL24 43-U-NA20 | 1.13 | 98.15 | 26.25 | 10.75 | 263.80 | 1.13 | 7.80 | 20.21 | 9.70 | 0.158 | 0.076 | 0.137 | 0.137 | 0.076 |
| VV-65A-R1 | 1.13 | 56.95 | 14.35 | 6.85 | 82.82 | 1.13 | 7.80 | 6.46 | 3.52 | 0.050 | 0.027 | 0.045 | 0.045 | 0.027 |
| Air6449 B41 | 1.13 | 35.35 | 22.85 | 10.85 | 94.07 | 1.13 | 7.80 | 6.06 | 2.96 | 0.047 | 0.023 | 0.041 | 0.041 | 0.023 |

### Round Members

| Member | $q_z$ (lb/ft$^2$) | Ar | C | Wind Calculations Rr | Cf | EPA (ft$^2$) | Load (k/ft) | Width (in) | Weight (k/ft) | Ice Calculations $q_z$ (lb/ft$^2$) | Arice | Rrice | Cf | EPA (ft$^2$) | Load (k/ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FACE ON | 44.05 | 7.29 | 38.31 | 0.68 | 1.20 | 1.34 | 0.009 | 5.75 | 0.01 | 7.78 | 11.98 | 0.87 | 1.20 | 2.81 | 0.003 |
| FACE OFF | 44.05 | 3.65 | 38.31 | 0.68 | 1.20 | 1.34 | 0.005 | 5.75 | 0.01 | 7.78 | 5.99 | 0.87 | 1.20 | 2.81 | 0.002 |
| MRAIL on | 44.05 | 4.95 | 26.00 | 0.68 | 1.20 | 1.82 | 0.006 | 4.62 | 0.00 | 7.78 | 9.63 | 0.87 | 1.20 | 4.52 | 0.003 |
| MRAIL off | 44.05 | 2.47 | 26.00 | 0.68 | 1.20 | 1.82 | 0.003 | 4.62 | 0.00 | 7.78 | 4.82 | 0.87 | 1.20 | 4.52 | 0.001 |

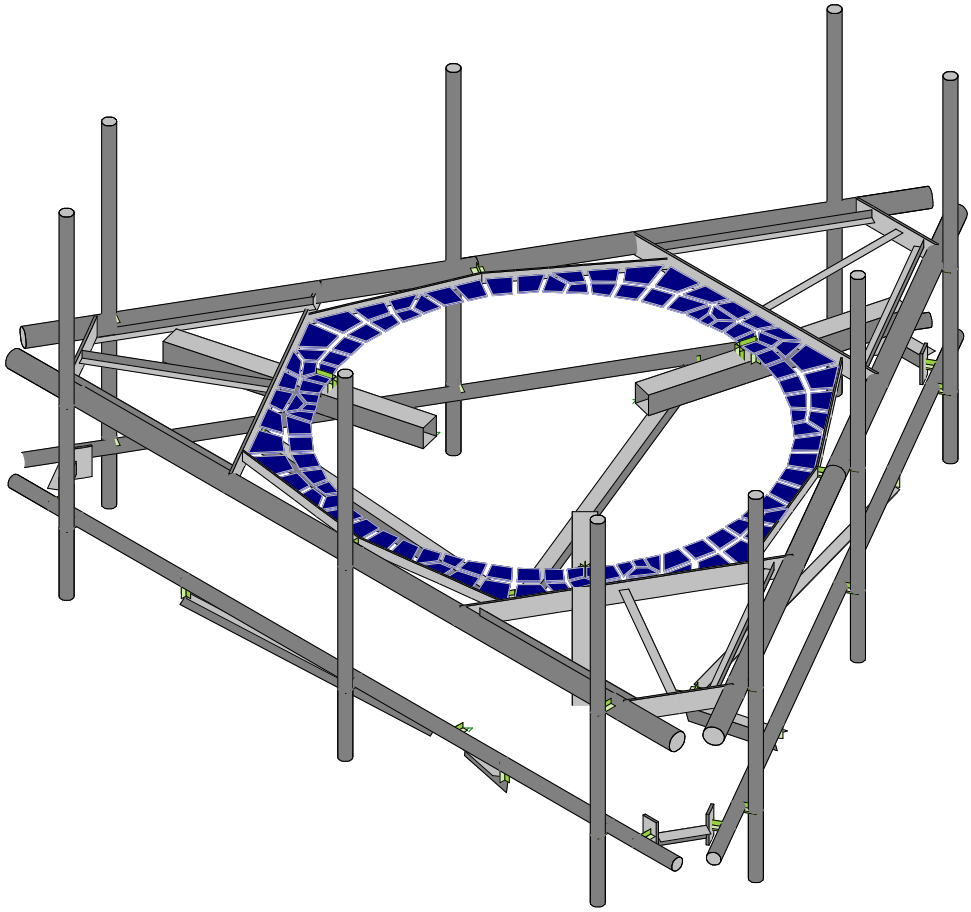
### Flat Members

| Member | $q_z$ (lb/ft$^2$) | Af | Cf | Wind Calculations EPA | Load (k/ft) | Width (in) | Weight (k/ft) | Ice Calculations $q_z$ (lb/ft$^2$) | Arice | Rrice | Cf | EPA | Load (k/ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUPPORTS | 44.05 | 0.46 | 2.00 | 0.27 | 0.001 | 2.65 | 0.01 | 7.78 | 3.03 | 0.87 | 2.00 | 1.58 | 0.001 |
| P SUPPORTS | 44.05 | 0.38 | 2.00 | 0.11 | 0.001 | 2.55 | 0.00 | 7.78 | 3.21 | 0.87 | 2.00 | 0.84 | 0.001 |
| G SUPPORTS1-6 | 44.05 | 2.31 | 2.00 | 0.69 | 0.005 | 3.75 | 0.00 | 7.78 | 5.78 | 0.87 | 2.00 | 1.51 | 0.002 |
| CORNERS | 44.05 | 0.15 | 2.00 | 0.09 | 0.001 | 2.65 | 0.01 | 7.78 | 0.99 | 0.87 | 2.00 | 0.52 | 0.001 |
| STANDOFFS | 44.05 | 4.00 | 1.25 | 1.50 | 0.008 | 6.25 | 0.01 | 7.78 | 6.25 | 0.87 | 1.25 | 2.04 | 0.002 |
| G SUPPORTS7-9 | 44.05 | 1.00 | 2.00 | 0.60 | 0.005 | 3.75 | 0.00 | 7.78 | 2.50 | 0.87 | 2.00 | 1.30 | 0.002 |
| MSTAB | 44.05 | 4.75 | 2.00 | 1.43 | 0.008 | 4.75 | 0.01 | 7.78 | 9.03 | 0.87 | 2.00 | 2.35 | 0.002 |
| MRCOR | 44.05 | 0.78 | 2.00 | 0.47 | 0.008 | 4.75 | 0.01 | 7.78 | 1.48 | 0.87 | 2.00 | 0.77 | 0.002 |

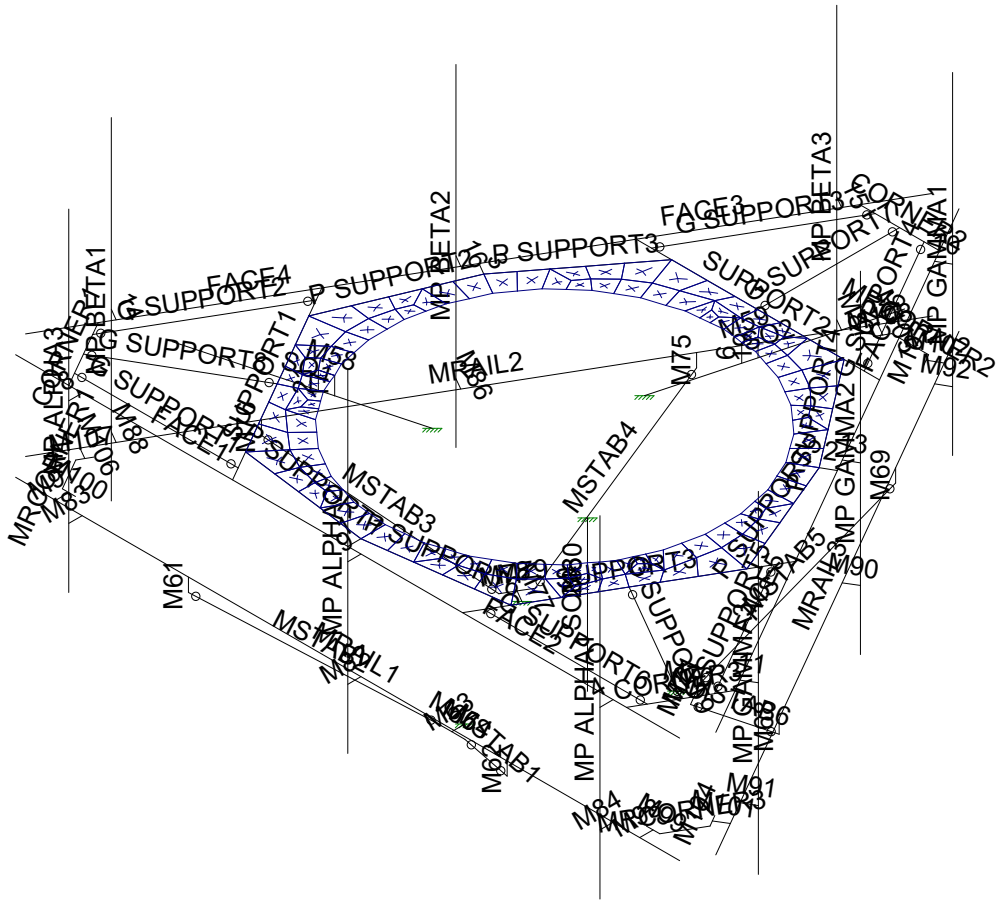
## Appurtenance Seismic Calculations

| Model | Weight | Sds | ρ | Cs | As | Ev | Eh |
|---|---|---|---|---|---|---|---|
| APXVAALL24 43-U-NA20 | 122.8 | 0.218 | 1.000 | 0.109 | 1.000 | 0.005 | 0.013 |
| VV-65A-R1 | 23.8 | 0.218 | 1.000 | 0.109 | 1.000 | 0.001 | 0.003 |
| Air6449 B41 | 104.0 | 0.218 | 1.000 | 0.109 | 1.000 | 0.005 | 0.011 |
| Radio 4449 B71 B85A | 46.3 | 0.218 | 1.000 | 0.109 | 1.000 | 0.002 | 0.005 |
| 4460 BAND 2/25 | 109.0 | 0.218 | 1.000 | 0.109 | 1.000 | 0.005 | 0.012 |
| APXVAALL24 43-U-NA20 | 122.8 | 0.218 | 1.000 | 0.109 | 1.000 | 0.005 | 0.013 |
| VV-65A-R1 | 23.8 | 0.218 | 1.000 | 0.109 | 1.000 | 0.001 | 0.003 |
| Air6449 B41 | 104.0 | 0.218 | 1.000 | 0.109 | 1.000 | 0.005 | 0.011 |

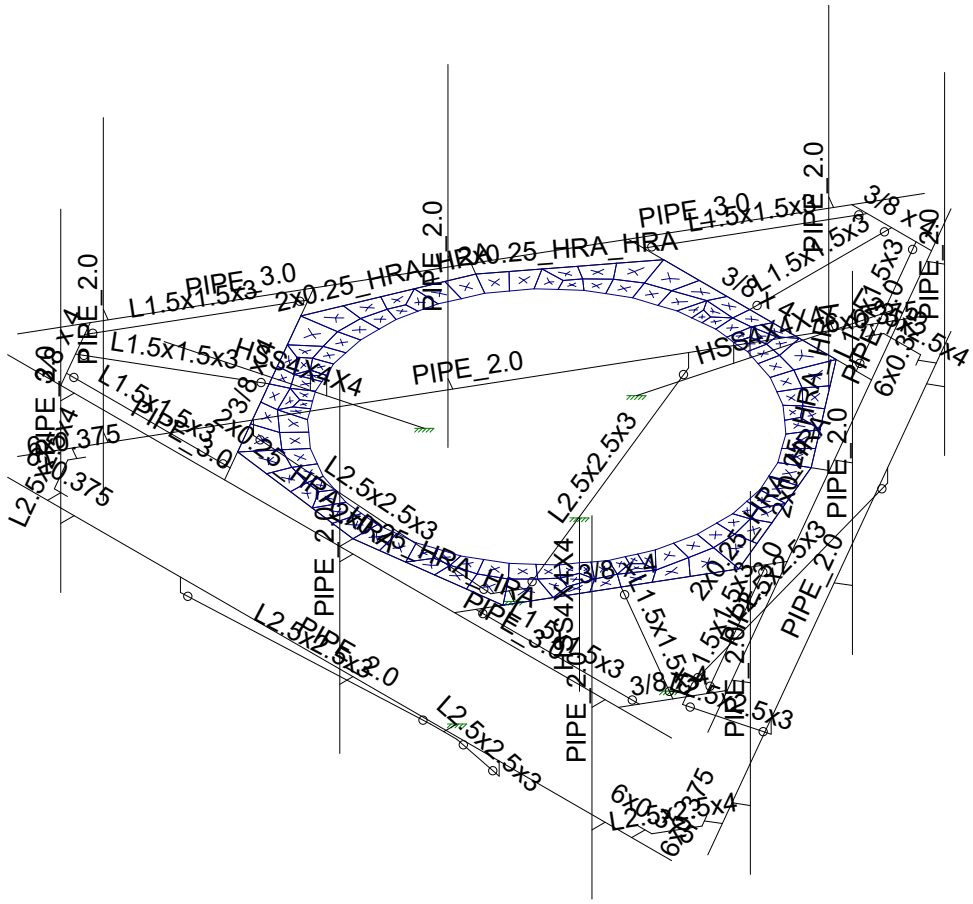
Version 3.56



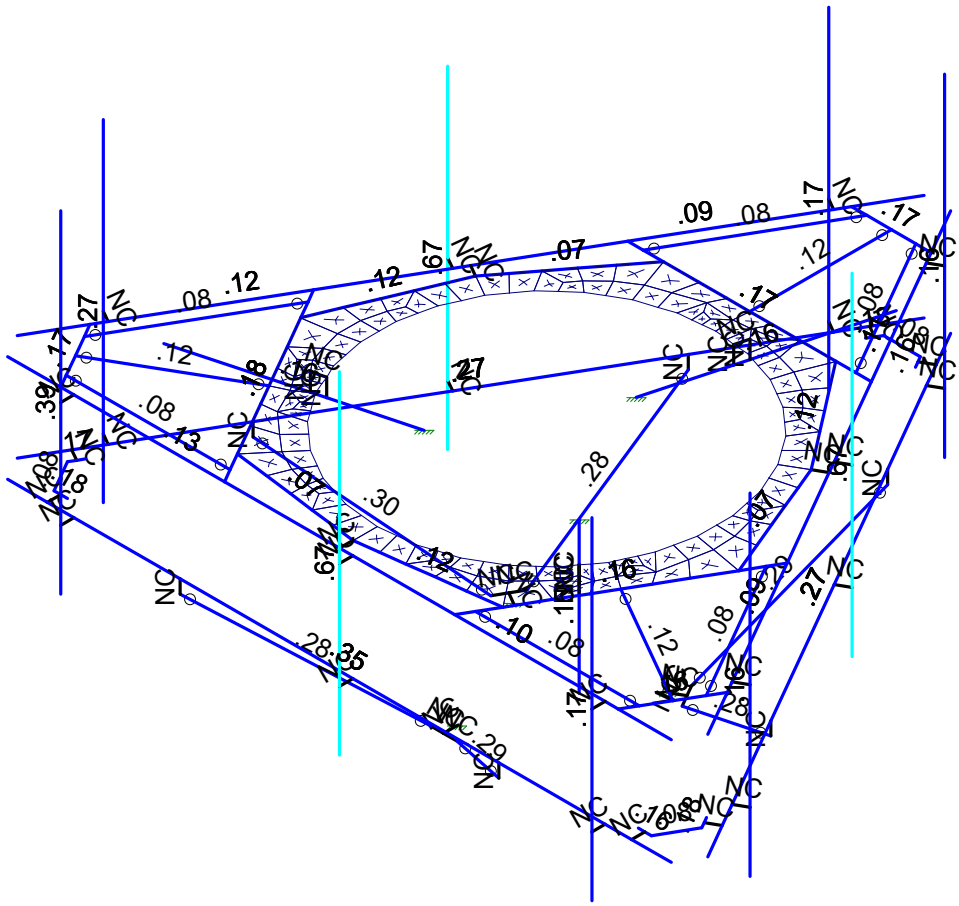
| | | |
|---|---|---|
| Power of Design | 411261 | SK - 6 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |




| | | |
|---|---|---|
| Power of Design | 411261 | SK - 1 |
| CC | | Mar 3, 2022 at 11:57 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |

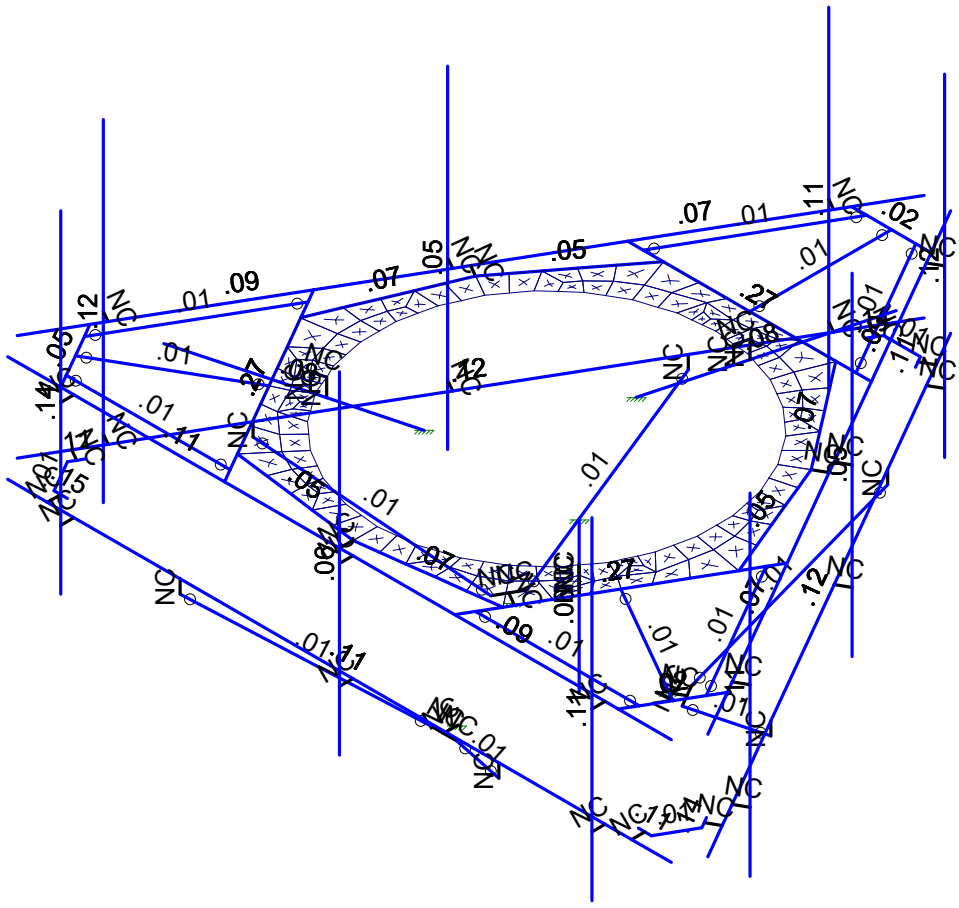



| | | |
|---|---|---|
| Power of Design | 411261 | SK - 2 |
| CC | | Mar 3, 2022 at 11:57 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |



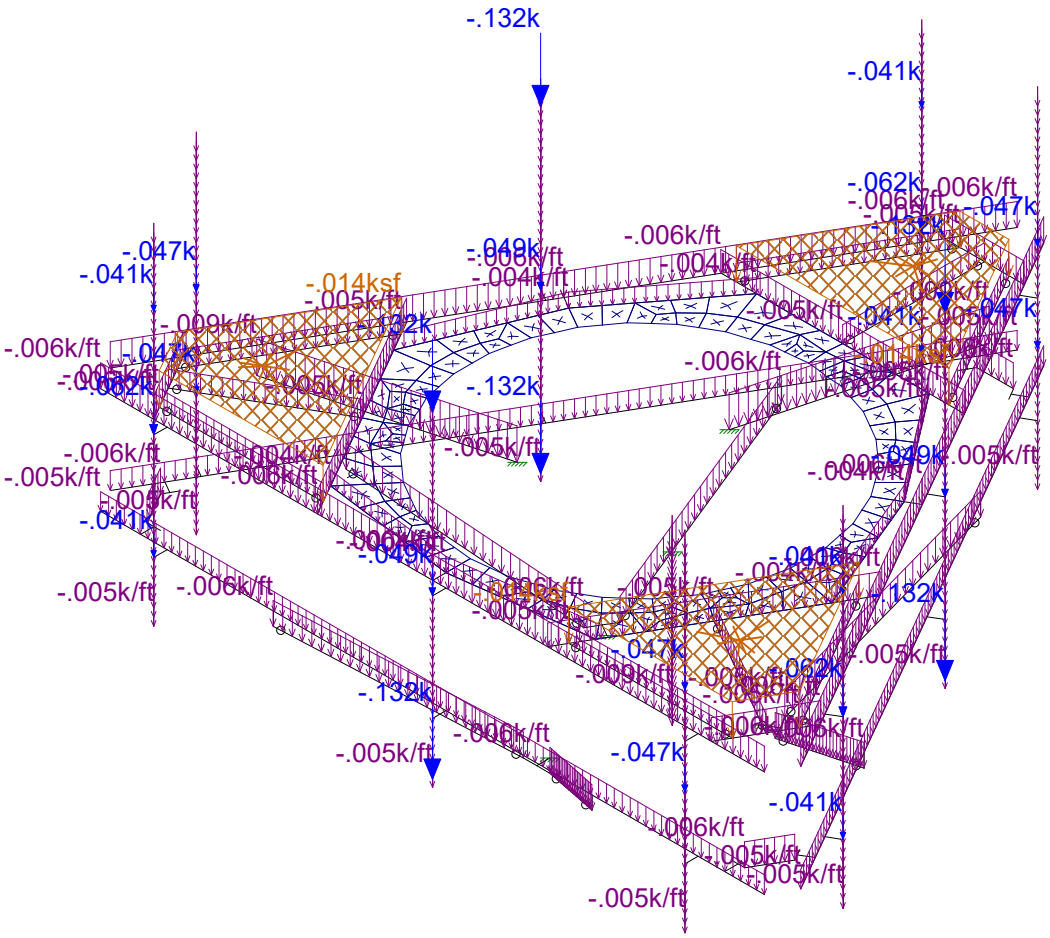

Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

| | | |
|---|---|---|
| Power of Design | 411261 | SK - 3 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |




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

| | | |
|---|---|---|
| Power of Design | 411261 | SK - 4 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |




Loads: BLC 27, Ice Dead Load

| | | |
|---|---|---|
| Power of Design | 411261 | SK - 5 |
| CC | | Mar 3, 2022 at 11:58 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |

## 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 | N37 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 2 | N35 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 3 | N39 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 4 | N261 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 5 | N269 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 6 | N278 | 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 | SUPPORT3 | 3/8 x 4 | 4.583 | .378 | .378 | Lbyy | | | | | | Lateral |
| 2 | SUPPORT2 | 3/8 x 4 | 4.583 | .378 | .378 | Lbyy | | | | | | Lateral |
| 3 | SUPPORT1 | 3/8 x 4 | 4.583 | .378 | .378 | Lbyy | | | | | | Lateral |
| 4 | SO3 | HSS4X4X4 | 4 | | | Lbyy | | | | | | Lateral |
| 5 | SO2 | HSS4X4X4 | 4 | | | Lbyy | | | | | | Lateral |
| 6 | SO1 | HSS4X4X4 | 4 | | | Lbyy | | | | | | Lateral |
| 7 | P SUPPORT6 | 2x0.25_HR... | 2.521 | 0 | 0 | Lbyy | | | | | | Lateral |
| 8 | P SUPPORT5 | 2x0.25_HR... | 2.521 | 0 | 0 | Lbyy | | | | | | Lateral |
| 9 | P SUPPORT4 | 2x0.25_HR... | 2.521 | 0 | 0 | Lbyy | | | | | | Lateral |
| 10 | P SUPPORT3 | 2x0.25_HR... | 2.521 | 0 | 0 | Lbyy | | | | | | Lateral |
| 11 | P SUPPORT2 | 2x0.25_HR... | 2.521 | 0 | 0 | Lbyy | | | | | | Lateral |
| 12 | P SUPPORT1 | 2x0.25_HR... | 2.521 | 0 | 0 | Lbyy | | | | | | Lateral |
| 13 | MP GAMMA3 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 14 | MP GAMMA2 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 15 | MP GAMMA1 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 16 | MP BETA3 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 17 | MP BETA2 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 18 | MP BETA1 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 19 | MP ALPHA3 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 20 | MP ALPHA2 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 21 | MP ALPHA1 | PIPE_2.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 22 | G SUPPORT9 | L1.5x1.5x3 | 2.67 | | | Lbyy | | | | | | Lateral |
| 23 | G SUPPORT8 | L1.5x1.5x3 | 2.67 | | | Lbyy | | | | | | Lateral |
| 24 | G SUPPORT7 | L1.5x1.5x3 | 2.67 | | | Lbyy | | | | | | Lateral |
| 25 | G SUPPORT6 | L1.5x1.5x3 | 3.083 | | | Lbyy | | | | | | Lateral |
| 26 | G SUPPORT5 | L1.5x1.5x3 | 3.083 | | | Lbyy | | | | | | Lateral |
| 27 | G SUPPORT4 | L1.5x1.5x3 | 3.083 | | | Lbyy | | | | | | Lateral |
| 28 | G SUPPORT3 | L1.5x1.5x3 | 3.083 | | | Lbyy | | | | | | Lateral |
| 29 | G SUPPORT2 | L1.5x1.5x3 | 3.083 | | | Lbyy | | | | | | Lateral |
| 30 | G SUPPORT1 | L1.5x1.5x3 | 3.083 | | | Lbyy | | | | | | Lateral |
| 31 | FACE6 | PIPE_3.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 32 | FACE5 | PIPE_3.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 33 | FACE4 | PIPE_3.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 34 | FACE3 | PIPE_3.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 35 | FACE2 | PIPE_3.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 36 | FACE1 | PIPE_3.0 | 6.25 | | | Lbyy | | | | | | Lateral |
| 37 | CORNER3 | 3/8 x 4 | 1.5 | | | Lbyy | | | | | | Lateral |
| 38 | CORNER2 | 3/8 x 4 | 1.5 | | | Lbyy | | | | | | Lateral |
| 39 | CORNER1 | 3/8 x 4 | 1.5 | | | Lbyy | | | | | | Lateral |
| 40 | MSTAB2 | L2.5x2.5x3 | 3.803 | | | Lbyy | | | | | | Lateral |
| 41 | MSTAB1 | L2.5x2.5x3 | 3.803 | | | Lbyy | | | | | | Lateral |
| 42 | MSTAB6 | L2.5x2.5x3 | 3.803 | | | Lbyy | | | | | | Lateral |
| 43 | MSTAB5 | L2.5x2.5x3 | 3.803 | | | Lbyy | | | | | | Lateral |
| 44 | MSTAB4 | L2.5x2.5x3 | 3.803 | | | Lbyy | | | | | | Lateral |
| 45 | MSTAB3 | L2.5x2.5x3 | 3.803 | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | MRAIL1 | PIPE_2.0 | 12.5 | | | Lbyy | | | | | | Lateral |
| 47 | MRAIL2 | PIPE_2.0 | 12.5 | | | Lbyy | | | | | | Lateral |
| 48 | MRAIL3 | PIPE_2.0 | 12.5 | | | Lbyy | | | | | | Lateral |
| 49 | MRCORNER1 | L2.5x2.5x4 | .692 | | | Lbyy | | | | | | Lateral |
| 50 | MRCORNER3 | L2.5x2.5x4 | .692 | | | Lbyy | | | | | | Lateral |
| 51 | MRCORNER2 | L2.5x2.5x4 | .692 | | | Lbyy | | | | | | Lateral |
| 52 | M99 | 6x0.375 | .25 | | | Lbyy | | | | | | Lateral |
| 53 | M100 | 6x0.375 | .25 | | | Lbyy | | | | | | Lateral |
| 54 | M103 | 6x0.375 | .25 | | | Lbyy | | | | | | Lateral |
| 55 | M104 | 6x0.375 | .25 | | | Lbyy | | | | | | Lateral |
| 56 | M107 | 6x0.375 | .25 | | | Lbyy | | | | | | Lateral |
| 57 | M108 | 6x0.375 | .25 | | | Lbyy | | | | | | Lateral |

## Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(... | Section/Shape | Type | Design List | Material | Design Rules |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SUPPORT3 | N6 | N7 | | 90 | 3/8 x 4 | Beam | RECT | A36 Gr.36 | Typical |
| 2 | SUPPORT2 | N2 | N3 | | 90 | 3/8 x 4 | Beam | RECT | A36 Gr.36 | Typical |
| 3 | SUPPORT1 | N4 | N5 | | 90 | 3/8 x 4 | Beam | RECT | A36 Gr.36 | Typical |
| 4 | SO3 | N177B | N39 | | | HSS4X4X4 | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 5 | SO2 | N34 | N35 | | | HSS4X4X4 | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 6 | SO1 | N175 | N37 | | | HSS4X4X4 | Beam | SquareTube | A500 Gr.B Rect | Typical |
| 7 | P SUPPO... | N15 | N16 | | 90 | 2x0.25_HRA_HRA | Beam | RECT | A36 Gr.36 | Typical |
| 8 | P SUPPO... | N20 | N21 | | 90 | 2x0.25_HRA_HRA | Beam | RECT | A36 Gr.36 | Typical |
| 9 | P SUPPO... | N21 | N22 | | 90 | 2x0.25_HRA_HRA | Beam | RECT | A36 Gr.36 | Typical |
| 10 | P SUPPO... | N27 | N28 | | 90 | 2x0.25_HRA_HRA | Beam | RECT | A36 Gr.36 | Typical |
| 11 | P SUPPO... | N28 | N29 | | 90 | 2x0.25_HRA_HRA | Beam | RECT | A36 Gr.36 | Typical |
| 12 | P SUPPO... | N14 | N15 | | 90 | 2x0.25_HRA_HRA | Beam | RECT | A36 Gr.36 | Typical |
| 13 | MP GAMM... | N154 | N153A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 14 | MP GAMM... | N158A | N157A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 15 | MP GAMM... | N150A | N149A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 16 | MP BETA3 | N167A | N166A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 17 | MP BETA2 | N171 | N170A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 18 | MP BETA1 | N163A | N162A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 19 | MP ALPHA3 | N196B | N195A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 20 | MP ALPHA2 | N202B | N201A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 21 | MP ALPHA1 | N199A | N190A | | | PIPE_2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 22 | G SUPPO... | N91 | N177A | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 23 | G SUPPO... | N89 | N174 | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 24 | G SUPPO... | N90 | N170B | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 25 | G SUPPO... | N42 | N43 | | | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 26 | G SUPPO... | N44 | N45 | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 27 | G SUPPO... | N46 | N47 | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 28 | G SUPPO... | N48 | N49 | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 29 | G SUPPO... | N50 | N51 | | 180 | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 30 | G SUPPO... | N40 | N41 | | | L1.5x1.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 31 | FACE6 | N69 | N287 | | 180 | PIPE_3.0 | Beam | Pipe | A53 Gr.B | Typical |
| 32 | FACE5 | N288 | N69 | | 180 | PIPE_3.0 | Beam | Pipe | A53 Gr.B | Typical |
| 33 | FACE4 | N79 | N291 | | 180 | PIPE_3.0 | Beam | Pipe | A53 Gr.B | Typical |
| 34 | FACE3 | N292 | N79 | | 180 | PIPE_3.0 | Beam | Pipe | A53 Gr.B | Typical |
| 35 | FACE2 | N59 | N17 | | | PIPE_3.0 | Beam | Pipe | A53 Gr.B | Typical |
| 36 | FACE1 | N52 | N59 | | | PIPE_3.0 | Beam | Pipe | A53 Gr.B | Typical |
| 37 | CORNER3 | N10 | N11 | | 90 | 3/8 x 4 | Beam | RECT | A36 Gr.36 | Typical |
| 38 | CORNER2 | N12 | N13 | | 90 | 3/8 x 4 | Beam | RECT | A36 Gr.36 | Typical |
| 39 | CORNER1 | N8 | N9 | | 90 | 3/8 x 4 | Beam | RECT | A36 Gr.36 | Typical |
| 40 | 23 | N172 | N247 | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 41 | 21 | N168 | N281 | | | RIGID | None | None | RIGID | Typical |
| 42 | 19 | N164 | N195 | | | RIGID | None | None | RIGID | Typical |
| 43 | 18 | N33 | N239 | | | RIGID | None | None | RIGID | Typical |
| 44 | 17 | N26 | N218 | | | RIGID | None | None | RIGID | Typical |
| 45 | 16 | N168A | N169A | | | RIGID | None | None | RIGID | Typical |
| 46 | 15 | N164A | N165A | | | RIGID | None | None | RIGID | Typical |
| 47 | 14 | N160A | N161A | | | RIGID | None | None | RIGID | Typical |
| 48 | 13 | N155A | N156A | | | RIGID | None | None | RIGID | Typical |
| 49 | 11 | N151A | N152A | | | RIGID | None | None | RIGID | Typical |
| 50 | 10 | N147A | N148A | | | RIGID | None | None | RIGID | Typical |
| 51 | 9 | N197B | N198A | | | RIGID | None | None | RIGID | Typical |
| 52 | 8 | N191B | N192A | | | RIGID | None | None | RIGID | Typical |
| 53 | 6 | N19 | N182A | | | RIGID | None | None | RIGID | Typical |
| 54 | 4 | N61 | N62 | | | RIGID | None | None | RIGID | Typical |
| 55 | 3 | N79 | N28 | | | RIGID | None | None | RIGID | Typical |
| 56 | 2 | N69 | N21 | | | RIGID | None | None | RIGID | Typical |
| 57 | 1 | N59 | N15 | | | RIGID | None | None | RIGID | Typical |
| 58 | M58 | N281 | N218 | | | RIGID | None | None | RIGID | Typical |
| 59 | M59 | N195 | N182A | | | RIGID | None | None | RIGID | Typical |
| 60 | M60 | N247 | N239 | | | RIGID | None | None | RIGID | Typical |
| 61 | M61 | N265 | N267 | | | RIGID | None | None | RIGID | Typical |
| 62 | M62 | N264 | N266 | | | RIGID | None | None | RIGID | Typical |
| 63 | M63 | N261 | N261A | | | RIGID | None | None | RIGID | Typical |
| 64 | M64 | N261A | N262 | | | RIGID | None | None | RIGID | Typical |
| 65 | M65 | N261A | N263 | | | RIGID | None | None | RIGID | Typical |
| 66 | MSTAB2 | N267 | N263 | | 150 | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 67 | MSTAB1 | N262 | N266 | | 150 | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 68 | M68 | N274B | N276 | | 240 | RIGID | None | None | RIGID | Typical |
| 69 | M69 | N273 | N275 | | 240 | RIGID | None | None | RIGID | Typical |
| 70 | M70 | N269 | N270A | | 180 | RIGID | None | None | RIGID | Typical |
| 71 | M71 | N270A | N271 | | 180 | RIGID | None | None | RIGID | Typical |
| 72 | M72 | N270A | N272A | | 180 | RIGID | None | None | RIGID | Typical |
| 73 | MSTAB6 | N276 | N272A | | 5.759 | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 74 | MSTAB5 | N271 | N275 | | 251.757 | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 75 | M75 | N283A | N285 | | 120 | RIGID | None | None | RIGID | Typical |
| 76 | M76 | N282B | N284 | | 120 | RIGID | None | None | RIGID | Typical |
| 77 | M77 | N278 | N279A | | | RIGID | None | None | RIGID | Typical |
| 78 | M78 | N279A | N280 | | 180 | RIGID | None | None | RIGID | Typical |
| 79 | M79 | N279A | N281A | | 180 | RIGID | None | None | RIGID | Typical |
| 80 | MSTAB4 | N285 | N281A | | 251.757 | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 81 | MSTAB3 | N280 | N284 | | 5.759 | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical |
| 82 | M82 | N290A | N291B | | | RIGID | None | None | RIGID | Typical |
| 83 | M83 | N288B | N289A | | | RIGID | None | None | RIGID | Typical |
| 84 | M84 | N286B | N287B | | | RIGID | None | None | RIGID | Typical |
| 85 | MRAIL1 | N285A | N284A | | | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 86 | M86 | N299B | N300A | | | RIGID | None | None | RIGID | Typical |
| 87 | M87 | N297A | N298A | | | RIGID | None | None | RIGID | Typical |
| 88 | M88 | N295C | N296A | | | RIGID | None | None | RIGID | Typical |
| 89 | MRAIL2 | N294B | N293A | | | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 90 | M90 | N308A | N309A | | | RIGID | None | None | RIGID | Typical |
| 91 | M91 | N306A | N307A | | | RIGID | None | None | RIGID | Typical |
| 92 | M92 | N304A | N305A | | | RIGID | None | None | RIGID | Typical |
| 93 | MRAIL3 | N303A | N302A | | | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical |
| 94 | MRCORN... | N337 | N316 | | 180 | L2.5x2.5x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 95 | MRCORN... | N319 | N325 | | 180 | L2.5x2.5x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 96 | MRCORN... | N328 | N334 | | | L2.5x2.5x4 | Beam | Single Angle | A36 Gr.36 | Typical |
| 97 | M97 | N308B | N314B | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 98 | M98 | N309B | N315A | | | RIGID | None | None | RIGID | Typical |
| 99 | M99 | N317 | N319 | | 90 | 6x0.375 | Beam | Single Angle | A36 Gr.36 | Typical |
| 100 | M100 | N318 | N316 | | 90 | 6x0.375 | Beam | Single Angle | A36 Gr.36 | Typical |
| 101 | M101 | N314A | N323 | | 180 | RIGID | None | None | RIGID | Typical |
| 102 | M102 | N315 | N324 | | 180 | RIGID | None | None | RIGID | Typical |
| 103 | M103 | N326 | N328 | | 270 | 6x0.375 | Beam | Single Angle | A36 Gr.36 | Typical |
| 104 | M104 | N327 | N325 | | 270 | 6x0.375 | Beam | Single Angle | A36 Gr.36 | Typical |
| 105 | M105 | N311A | N332 | | | RIGID | None | None | RIGID | Typical |
| 106 | M106 | N312A | N333 | | | RIGID | None | None | RIGID | Typical |
| 107 | M107 | N335 | N337 | | 270 | 6x0.375 | Beam | Single Angle | A36 Gr.36 | Typical |
| 108 | M108 | N336 | N334 | | 270 | 6x0.375 | 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 | SUPPORT3 | | | | | | Yes | | | | None |
| 2 | SUPPORT2 | | | | | | Yes | | | | None |
| 3 | SUPPORT1 | | | | | | Yes | | | | None |
| 4 | SO3 | | | | | | Yes | | | | None |
| 5 | SO2 | | | | | | Yes | | | | None |
| 6 | SO1 | | | | | | Yes | | | | None |
| 7 | P SUPPO... | | | | | | Yes | | | | None |
| 8 | P SUPPO... | | | | | | Yes | | | | None |
| 9 | P SUPPO... | | | | | | Yes | | | | None |
| 10 | P SUPPO... | | | | | | Yes | | | | None |
| 11 | P SUPPO... | | | | | | Yes | | | | None |
| 12 | P SUPPO... | | | | | | Yes | | | | None |
| 13 | MP GAMM... | | | | | | Yes | | | | None |
| 14 | MP GAMM... | | | | | | Yes | | | | None |
| 15 | MP GAMM... | | | | | | Yes | | | | None |
| 16 | MP BETA3 | | | | | | Yes | | | | None |
| 17 | MP BETA2 | | | | | | Yes | | | | None |
| 18 | MP BETA1 | | | | | | Yes | | | | None |
| 19 | MP ALPHA3 | | | | | | Yes | | | | None |
| 20 | MP ALPHA2 | | | | | | Yes | | | | None |
| 21 | MP ALPHA1 | | | | | | Yes | | | | None |
| 22 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 23 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 24 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 25 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 26 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 27 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 28 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 29 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 30 | G SUPPO... | BenPIN | BenPIN | | | | Yes | | | | None |
| 31 | FACE6 | | | | | | Yes | | | | None |
| 32 | FACE5 | | | | | | Yes | | | | None |
| 33 | FACE4 | | | | | | Yes | | | | None |
| 34 | FACE3 | | | | | | Yes | | | | None |
| 35 | FACE2 | | | | | | Yes | | | | None |
| 36 | FACE1 | | | | | | Yes | Default | | | None |
| 37 | CORNER3 | | | | | | Yes | | | | None |
| 38 | CORNER2 | | | | | | Yes | | | | None |
| 39 | CORNER1 | | | | | | Yes | | | | None |
| 40 | 23 | | | | | | Yes | ** NA ** | | | None |
| 41 | 21 | | | | | | 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... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 | 19 | | | | | | Yes | ** NA ** | | | None |
| 43 | 18 | | | | | | Yes | ** NA ** | | | None |
| 44 | 17 | | | | | | Yes | ** NA ** | | | None |
| 45 | 16 | | | | | | Yes | ** NA ** | | | None |
| 46 | 15 | | | | | | Yes | ** NA ** | | | None |
| 47 | 14 | | | | | | Yes | ** NA ** | | | None |
| 48 | 13 | | | | | | Yes | ** NA ** | | | None |
| 49 | 11 | | | | | | Yes | ** NA ** | | | None |
| 50 | 10 | | | | | | Yes | ** NA ** | | | None |
| 51 | 9 | | | | | | Yes | ** NA ** | | | None |
| 52 | 8 | | | | | | Yes | ** NA ** | | | None |
| 53 | 6 | | | | | | Yes | ** NA ** | | | None |
| 54 | 4 | | | | | | Yes | ** NA ** | | | None |
| 55 | 3 | | | | | | Yes | ** NA ** | | | None |
| 56 | 2 | | | | | | Yes | ** NA ** | | | None |
| 57 | 1 | | | | | | Yes | ** NA ** | | | None |
| 58 | M58 | | | | | | Yes | ** NA ** | | | None |
| 59 | M59 | | | | | | Yes | ** NA ** | | | None |
| 60 | M60 | | | | | | Yes | ** NA ** | | | None |
| 61 | M61 | | | | | | Yes | ** NA ** | | | None |
| 62 | M62 | | | | | | Yes | ** NA ** | | | None |
| 63 | M63 | | | | | | Yes | ** NA ** | | | None |
| 64 | M64 | | | | | | Yes | ** NA ** | | | None |
| 65 | M65 | | | | | | Yes | ** NA ** | | | None |
| 66 | MSTAB2 | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 67 | MSTAB1 | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 68 | M68 | | | | | | Yes | ** NA ** | | | None |
| 69 | M69 | | | | | | Yes | ** NA ** | | | None |
| 70 | M70 | | | | | | Yes | ** NA ** | | | None |
| 71 | M71 | | | | | | Yes | ** NA ** | | | None |
| 72 | M72 | | | | | | Yes | ** NA ** | | | None |
| 73 | MSTAB6 | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 74 | MSTAB5 | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 75 | M75 | | | | | | Yes | ** NA ** | | | None |
| 76 | M76 | | | | | | Yes | ** NA ** | | | None |
| 77 | M77 | | | | | | Yes | ** NA ** | | | None |
| 78 | M78 | | | | | | Yes | ** NA ** | | | None |
| 79 | M79 | | | | | | Yes | ** NA ** | | | None |
| 80 | MSTAB4 | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 81 | MSTAB3 | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 82 | M82 | | | | | | Yes | ** NA ** | | | None |
| 83 | M83 | | | | | | Yes | ** NA ** | | | None |
| 84 | M84 | | | | | | Yes | ** NA ** | | | None |
| 85 | MRAIL1 | | | | | | Yes | | | | None |
| 86 | M86 | | | | | | Yes | ** NA ** | | | None |
| 87 | M87 | | | | | | Yes | ** NA ** | | | None |
| 88 | M88 | | | | | | Yes | ** NA ** | | | None |
| 89 | MRAIL2 | | | | | | Yes | | | | None |
| 90 | M90 | | | | | | Yes | ** NA ** | | | None |
| 91 | M91 | | | | | | Yes | ** NA ** | | | None |
| 92 | M92 | | | | | | Yes | ** NA ** | | | None |
| 93 | MRAIL3 | | | | | | Yes | | | | None |
| 94 | MRCORN... | | | | | | Yes | | | | None |
| 95 | MRCORN... | | | | | | Yes | | | | None |
| 96 | MRCORN... | | | | | | Yes | | | | None |
| 97 | M97 | | | | | | Yes | ** NA ** | | | None |
| 98 | M98 | | | | | | 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... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 99 | M99 | | | | | | Yes | | | | None |
| 100 | M100 | | | | | | Yes | | | | None |
| 101 | M101 | | | | | | Yes | ** NA ** | | | None |
| 102 | M102 | | | | | | Yes | ** NA ** | | | None |
| 103 | M103 | | | | | | Yes | | | | None |
| 104 | M104 | | | | | | Yes | | | | None |
| 105 | M105 | | | | | | Yes | ** NA ** | | | None |
| 106 | M106 | | | | | | Yes | ** NA ** | | | None |
| 107 | M107 | | | | | | Yes | | | | None |
| 108 | M108 | | | | | | 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 | 1.25 | 65 | 1.15 |
| 8 | A913 Gr.65 | 29000 | 11154 | .3 | .65 | .49 | 65 | 1.1 | 80 | 1.1 |

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

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

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.362 | 6.125 |
| 2 | MP ALPHA2 | Y | -.362 | .125 |
| 3 | MP ALPHA3 | Y | -.107 | 5.125 |
| 4 | MP ALPHA3 | Y | -.107 | 1.125 |
| 5 | MP ALPHA1 | Y | -.102 | 3.958 |
| 6 | MP ALPHA1 | Y | -.102 | 2.292 |
| 7 | MP ALPHA2 | Y | -.078 | 3.125 |
| 8 | MP BETA2 | Y | -.067 | 3.125 |
| 9 | MP GAMMA2 | Y | -.067 | 3.125 |
| 10 | MP ALPHA3 | Y | -.102 | 3.125 |
| 11 | MP BETA3 | Y | -.084 | 3.125 |
| 12 | MP GAMMA3 | Y | -.084 | 3.125 |
| 13 | MP BETA2 | Y | -.231 | 6.125 |
| 14 | MP BETA2 | Y | -.231 | .125 |
| 15 | MP GAMMA2 | Y | -.231 | 6.125 |
| 16 | MP GAMMA2 | Y | -.231 | .125 |
| 17 | MP BETA3 | Y | -.07 | 5.125 |
| 18 | MP BETA3 | Y | -.07 | 1.125 |
| 19 | MP GAMMA3 | Y | -.07 | 5.125 |
| 20 | MP GAMMA3 | Y | -.07 | 1.125 |
| 21 | MP BETA1 | Y | -.065 | 3.958 |
| 22 | MP BETA1 | Y | -.065 | 2.292 |
| 23 | MP GAMMA1 | Y | -.065 | 3.958 |
| 24 | MP GAMMA1 | Y | -.065 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Z | -.061 | 6.125 |
| 2 | MP ALPHA2 | Z | -.061 | .125 |
| 3 | MP ALPHA3 | Z | -.012 | 5.125 |
| 4 | MP ALPHA3 | Z | -.012 | 1.125 |
| 5 | MP ALPHA1 | Z | -.052 | 3.958 |
| 6 | MP ALPHA1 | Z | -.052 | 2.292 |
| 7 | MP ALPHA2 | Z | -.046 | 3.125 |
| 8 | MP BETA2 | Z | -.046 | 3.125 |
| 9 | MP GAMMA2 | Z | -.046 | 3.125 |
| 10 | MP ALPHA3 | Z | -.109 | 3.125 |
| 11 | MP BETA3 | Z | -.109 | 3.125 |
| 12 | MP GAMMA3 | Z | -.109 | 3.125 |
| 13 | MP BETA2 | Z | -.061 | 6.125 |
| 14 | MP BETA2 | Z | -.061 | .125 |
| 15 | MP GAMMA2 | Z | -.061 | 6.125 |
| 16 | MP GAMMA2 | Z | -.061 | .125 |
| 17 | MP BETA3 | Z | -.012 | 5.125 |
| 18 | MP BETA3 | Z | -.012 | 1.125 |
| 19 | MP GAMMA3 | Z | -.012 | 5.125 |
| 20 | MP GAMMA3 | Z | -.012 | 1.125 |
| 21 | MP BETA1 | Z | -.052 | 3.958 |
| 22 | MP BETA1 | Z | -.052 | 2.292 |
| 23 | MP GAMMA1 | Z | -.052 | 3.958 |
| 24 | MP GAMMA1 | Z | -.052 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.216 | 6.125 |
| 2 | MP ALPHA2 | Y | -.216 | .125 |
| 3 | MP ALPHA2 | X | -.124 | 6.125 |
| 4 | MP ALPHA2 | X | -.124 | .125 |
| 5 | MP ALPHA3 | Y | -.065 | 5.125 |
| 6 | MP ALPHA3 | Y | -.065 | 1.125 |
| 7 | MP ALPHA3 | X | -.038 | 5.125 |
| 8 | MP ALPHA3 | X | -.038 | 1.125 |
| 9 | MP ALPHA1 | Y | -.061 | 3.958 |
| 10 | MP ALPHA1 | Y | -.061 | 2.292 |
| 11 | MP ALPHA1 | X | -.035 | 3.958 |
| 12 | MP ALPHA1 | X | -.035 | 2.292 |
| 13 | MP ALPHA2 | Y | -.065 | 3.125 |
| 14 | MP ALPHA2 | X | -.037 | 3.125 |
| 15 | MP BETA2 | Y | -.055 | 3.125 |
| 16 | MP BETA2 | X | -.032 | 3.125 |
| 17 | MP GAMMA2 | Y | -.065 | 3.125 |
| 18 | MP GAMMA2 | X | -.037 | 3.125 |
| 19 | MP ALPHA3 | Y | -.083 | 3.125 |
| 20 | MP ALPHA3 | X | -.048 | 3.125 |
| 21 | MP BETA3 | Y | -.068 | 3.125 |
| 22 | MP BETA3 | X | -.039 | 3.125 |
| 23 | MP GAMMA3 | Y | -.083 | 3.125 |
| 24 | MP GAMMA3 | X | -.048 | 3.125 |
| 25 | MP BETA2 | Y | -.15 | 6.125 |
| 26 | MP BETA2 | Y | -.15 | .125 |
| 27 | MP BETA2 | X | -.087 | 6.125 |
| 28 | MP BETA2 | X | -.087 | .125 |
| 29 | MP GAMMA2 | Y | -.299 | 6.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 30 | MP GAMMA2 | Y | -.299 | .125 |
| 31 | MP GAMMA2 | X | -.173 | 6.125 |
| 32 | MP GAMMA2 | X | -.173 | .125 |
| 33 | MP BETA3 | Y | -.047 | 5.125 |
| 34 | MP BETA3 | Y | -.047 | 1.125 |
| 35 | MP BETA3 | X | -.027 | 5.125 |
| 36 | MP BETA3 | X | -.027 | 1.125 |
| 37 | MP GAMMA3 | Y | -.088 | 5.125 |
| 38 | MP GAMMA3 | Y | -.088 | 1.125 |
| 39 | MP GAMMA3 | X | -.051 | 5.125 |
| 40 | MP GAMMA3 | X | -.051 | 1.125 |
| 41 | MP BETA1 | Y | -.043 | 3.958 |
| 42 | MP BETA1 | Y | -.043 | 2.292 |
| 43 | MP BETA1 | X | -.025 | 3.958 |
| 44 | MP BETA1 | X | -.025 | 2.292 |
| 45 | MP GAMMA1 | Y | -.084 | 3.958 |
| 46 | MP GAMMA1 | Y | -.084 | 2.292 |
| 47 | MP GAMMA1 | X | -.049 | 3.958 |
| 48 | MP GAMMA1 | X | -.049 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.088 | 6.125 |
| 2 | MP ALPHA2 | Y | -.088 | .125 |
| 3 | MP ALPHA2 | X | -.152 | 6.125 |
| 4 | MP ALPHA2 | X | -.152 | .125 |
| 5 | MP ALPHA3 | Y | -.027 | 5.125 |
| 6 | MP ALPHA3 | Y | -.027 | 1.125 |
| 7 | MP ALPHA3 | X | -.047 | 5.125 |
| 8 | MP ALPHA3 | X | -.047 | 1.125 |
| 9 | MP ALPHA1 | Y | -.025 | 3.958 |
| 10 | MP ALPHA1 | Y | -.025 | 2.292 |
| 11 | MP ALPHA1 | X | -.043 | 3.958 |
| 12 | MP ALPHA1 | X | -.043 | 2.292 |
| 13 | MP ALPHA2 | Y | -.033 | 3.125 |
| 14 | MP ALPHA2 | X | -.058 | 3.125 |
| 15 | MP BETA2 | Y | -.033 | 3.125 |
| 16 | MP BETA2 | X | -.058 | 3.125 |
| 17 | MP GAMMA2 | Y | -.039 | 3.125 |
| 18 | MP GAMMA2 | X | -.068 | 3.125 |
| 19 | MP ALPHA3 | Y | -.042 | 3.125 |
| 20 | MP ALPHA3 | X | -.073 | 3.125 |
| 21 | MP BETA3 | Y | -.042 | 3.125 |
| 22 | MP BETA3 | X | -.073 | 3.125 |
| 23 | MP GAMMA3 | Y | -.051 | 3.125 |
| 24 | MP GAMMA3 | X | -.088 | 3.125 |
| 25 | MP BETA2 | Y | -.115 | 6.125 |
| 26 | MP BETA2 | Y | -.115 | .125 |
| 27 | MP BETA2 | X | -.2 | 6.125 |
| 28 | MP BETA2 | X | -.2 | .125 |
| 29 | MP GAMMA2 | Y | -.201 | 6.125 |
| 30 | MP GAMMA2 | Y | -.201 | .125 |
| 31 | MP GAMMA2 | X | -.349 | 6.125 |
| 32 | MP GAMMA2 | X | -.349 | .125 |
| 33 | MP BETA3 | Y | -.035 | 5.125 |
| 34 | MP BETA3 | Y | -.035 | 1.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 35 | MP BETA3 | X | -.061 | 5.125 |
| 36 | MP BETA3 | X | -.061 | 1.125 |
| 37 | MP GAMMA3 | Y | -.059 | 5.125 |
| 38 | MP GAMMA3 | Y | -.059 | 1.125 |
| 39 | MP GAMMA3 | X | -.102 | 5.125 |
| 40 | MP GAMMA3 | X | -.102 | 1.125 |
| 41 | MP BETA1 | Y | -.033 | 3.958 |
| 42 | MP BETA1 | Y | -.033 | 2.292 |
| 43 | MP BETA1 | X | -.057 | 3.958 |
| 44 | MP BETA1 | X | -.057 | 2.292 |
| 45 | MP GAMMA1 | Y | -.056 | 3.958 |
| 46 | MP GAMMA1 | Y | -.056 | 2.292 |
| 47 | MP GAMMA1 | X | -.098 | 3.958 |
| 48 | MP GAMMA1 | X | -.098 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | -.214 | 6.125 |
| 2 | MP ALPHA2 | X | -.214 | .125 |
| 3 | MP ALPHA3 | X | -.066 | 5.125 |
| 4 | MP ALPHA3 | X | -.066 | 1.125 |
| 5 | MP ALPHA1 | X | -.061 | 3.958 |
| 6 | MP ALPHA1 | X | -.061 | 2.292 |
| 7 | MP ALPHA2 | X | -.063 | 3.125 |
| 8 | MP BETA2 | X | -.075 | 3.125 |
| 9 | MP GAMMA2 | X | -.075 | 3.125 |
| 10 | MP ALPHA3 | X | -.079 | 3.125 |
| 11 | MP BETA3 | X | -.096 | 3.125 |
| 12 | MP GAMMA3 | X | -.096 | 3.125 |
| 13 | MP BETA2 | X | -.345 | 6.125 |
| 14 | MP BETA2 | X | -.345 | .125 |
| 15 | MP GAMMA2 | X | -.345 | 6.125 |
| 16 | MP GAMMA2 | X | -.345 | .125 |
| 17 | MP BETA3 | X | -.102 | 5.125 |
| 18 | MP BETA3 | X | -.102 | 1.125 |
| 19 | MP GAMMA3 | X | -.102 | 5.125 |
| 20 | MP GAMMA3 | X | -.102 | 1.125 |
| 21 | MP BETA1 | X | -.097 | 3.958 |
| 22 | MP BETA1 | X | -.097 | 2.292 |
| 23 | MP GAMMA1 | X | -.097 | 3.958 |
| 24 | MP GAMMA1 | X | -.097 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .164 | 6.125 |
| 2 | MP ALPHA2 | Y | .164 | .125 |
| 3 | MP ALPHA2 | X | -.283 | 6.125 |
| 4 | MP ALPHA2 | X | -.283 | .125 |
| 5 | MP ALPHA3 | Y | .048 | 5.125 |
| 6 | MP ALPHA3 | Y | .048 | 1.125 |
| 7 | MP ALPHA3 | X | -.084 | 5.125 |
| 8 | MP ALPHA3 | X | -.084 | 1.125 |
| 9 | MP ALPHA1 | Y | .046 | 3.958 |
| 10 | MP ALPHA1 | Y | .046 | 2.292 |
| 11 | MP ALPHA1 | X | -.08 | 3.958 |
| 12 | MP ALPHA1 | X | -.08 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 13 | MP ALPHA2 | Y | .033 | 3.125 |
| 14 | MP ALPHA2 | X | -.058 | 3.125 |
| 15 | MP BETA2 | Y | .039 | 3.125 |
| 16 | MP BETA2 | X | -.068 | 3.125 |
| 17 | MP GAMMA2 | Y | .033 | 3.125 |
| 18 | MP GAMMA2 | X | -.058 | 3.125 |
| 19 | MP ALPHA3 | Y | .042 | 3.125 |
| 20 | MP ALPHA3 | X | -.073 | 3.125 |
| 21 | MP BETA3 | Y | .051 | 3.125 |
| 22 | MP BETA3 | X | -.088 | 3.125 |
| 23 | MP GAMMA3 | Y | .042 | 3.125 |
| 24 | MP GAMMA3 | X | -.073 | 3.125 |
| 25 | MP BETA2 | Y | .201 | 6.125 |
| 26 | MP BETA2 | Y | .201 | .125 |
| 27 | MP BETA2 | X | -.349 | 6.125 |
| 28 | MP BETA2 | X | -.349 | .125 |
| 29 | MP GAMMA2 | Y | .115 | 6.125 |
| 30 | MP GAMMA2 | Y | .115 | .125 |
| 31 | MP GAMMA2 | X | -.2 | 6.125 |
| 32 | MP GAMMA2 | X | -.2 | .125 |
| 33 | MP BETA3 | Y | .059 | 5.125 |
| 34 | MP BETA3 | Y | .059 | 1.125 |
| 35 | MP BETA3 | X | -.102 | 5.125 |
| 36 | MP BETA3 | X | -.102 | 1.125 |
| 37 | MP GAMMA3 | Y | .035 | 5.125 |
| 38 | MP GAMMA3 | Y | .035 | 1.125 |
| 39 | MP GAMMA3 | X | -.061 | 5.125 |
| 40 | MP GAMMA3 | X | -.061 | 1.125 |
| 41 | MP BETA1 | Y | .056 | 3.958 |
| 42 | MP BETA1 | Y | .056 | 2.292 |
| 43 | MP BETA1 | X | -.098 | 3.958 |
| 44 | MP BETA1 | X | -.098 | 2.292 |
| 45 | MP GAMMA1 | Y | .033 | 3.958 |
| 46 | MP GAMMA1 | Y | .033 | 2.292 |
| 47 | MP GAMMA1 | X | -.057 | 3.958 |
| 48 | MP GAMMA1 | X | -.057 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .347 | 6.125 |
| 2 | MP ALPHA2 | Y | .347 | .125 |
| 3 | MP ALPHA2 | X | -.2 | 6.125 |
| 4 | MP ALPHA2 | X | -.2 | .125 |
| 5 | MP ALPHA3 | Y | .102 | 5.125 |
| 6 | MP ALPHA3 | Y | .102 | 1.125 |
| 7 | MP ALPHA3 | X | -.059 | 5.125 |
| 8 | MP ALPHA3 | X | -.059 | 1.125 |
| 9 | MP ALPHA1 | Y | .097 | 3.958 |
| 10 | MP ALPHA1 | Y | .097 | 2.292 |
| 11 | MP ALPHA1 | X | -.056 | 3.958 |
| 12 | MP ALPHA1 | X | -.056 | 2.292 |
| 13 | MP ALPHA2 | Y | .065 | 3.125 |
| 14 | MP ALPHA2 | X | -.037 | 3.125 |
| 15 | MP BETA2 | Y | .065 | 3.125 |
| 16 | MP BETA2 | X | -.037 | 3.125 |
| 17 | MP GAMMA2 | Y | .055 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 18 | MP GAMMA2 | X | -.032 | 3.125 |
| 19 | MP ALPHA3 | Y | .083 | 3.125 |
| 20 | MP ALPHA3 | X | -.048 | 3.125 |
| 21 | MP BETA3 | Y | .083 | 3.125 |
| 22 | MP BETA3 | X | -.048 | 3.125 |
| 23 | MP GAMMA3 | Y | .068 | 3.125 |
| 24 | MP GAMMA3 | X | -.039 | 3.125 |
| 25 | MP BETA2 | Y | .299 | 6.125 |
| 26 | MP BETA2 | Y | .299 | .125 |
| 27 | MP BETA2 | X | -.173 | 6.125 |
| 28 | MP BETA2 | X | -.173 | .125 |
| 29 | MP GAMMA2 | Y | .15 | 6.125 |
| 30 | MP GAMMA2 | Y | .15 | .125 |
| 31 | MP GAMMA2 | X | -.087 | 6.125 |
| 32 | MP GAMMA2 | X | -.087 | .125 |
| 33 | MP BETA3 | Y | .088 | 5.125 |
| 34 | MP BETA3 | Y | .088 | 1.125 |
| 35 | MP BETA3 | X | -.051 | 5.125 |
| 36 | MP BETA3 | X | -.051 | 1.125 |
| 37 | MP GAMMA3 | Y | .047 | 5.125 |
| 38 | MP GAMMA3 | Y | .047 | 1.125 |
| 39 | MP GAMMA3 | X | -.027 | 5.125 |
| 40 | MP GAMMA3 | X | -.027 | 1.125 |
| 41 | MP BETA1 | Y | .084 | 3.958 |
| 42 | MP BETA1 | Y | .084 | 2.292 |
| 43 | MP BETA1 | X | -.049 | 3.958 |
| 44 | MP BETA1 | X | -.049 | 2.292 |
| 45 | MP GAMMA1 | Y | .043 | 3.958 |
| 46 | MP GAMMA1 | Y | .043 | 2.292 |
| 47 | MP GAMMA1 | X | -.025 | 3.958 |
| 48 | MP GAMMA1 | X | -.025 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .362 | 6.125 |
| 2 | MP ALPHA2 | Y | .362 | .125 |
| 3 | MP ALPHA3 | Y | .107 | 5.125 |
| 4 | MP ALPHA3 | Y | .107 | 1.125 |
| 5 | MP ALPHA1 | Y | .102 | 3.958 |
| 6 | MP ALPHA1 | Y | .102 | 2.292 |
| 7 | MP ALPHA2 | Y | .078 | 3.125 |
| 8 | MP BETA2 | Y | .067 | 3.125 |
| 9 | MP GAMMA2 | Y | .067 | 3.125 |
| 10 | MP ALPHA3 | Y | .102 | 3.125 |
| 11 | MP BETA3 | Y | .084 | 3.125 |
| 12 | MP GAMMA3 | Y | .084 | 3.125 |
| 13 | MP BETA2 | Y | .231 | 6.125 |
| 14 | MP BETA2 | Y | .231 | .125 |
| 15 | MP GAMMA2 | Y | .231 | 6.125 |
| 16 | MP GAMMA2 | Y | .231 | .125 |
| 17 | MP BETA3 | Y | .07 | 5.125 |
| 18 | MP BETA3 | Y | .07 | 1.125 |
| 19 | MP GAMMA3 | Y | .07 | 5.125 |
| 20 | MP GAMMA3 | Y | .07 | 1.125 |
| 21 | MP BETA1 | Y | .065 | 3.958 |
| 22 | MP BETA1 | Y | .065 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 23 | MP GAMMA1 | Y | .065 | 3.958 |
| 24 | MP GAMMA1 | Y | .065 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .216 | 6.125 |
| 2 | MP ALPHA2 | Y | .216 | .125 |
| 3 | MP ALPHA2 | X | .124 | 6.125 |
| 4 | MP ALPHA2 | X | .124 | .125 |
| 5 | MP ALPHA3 | Y | .065 | 5.125 |
| 6 | MP ALPHA3 | Y | .065 | 1.125 |
| 7 | MP ALPHA3 | X | .038 | 5.125 |
| 8 | MP ALPHA3 | X | .038 | 1.125 |
| 9 | MP ALPHA1 | Y | .061 | 3.958 |
| 10 | MP ALPHA1 | Y | .061 | 2.292 |
| 11 | MP ALPHA1 | X | .035 | 3.958 |
| 12 | MP ALPHA1 | X | .035 | 2.292 |
| 13 | MP ALPHA2 | Y | .065 | 3.125 |
| 14 | MP ALPHA2 | X | .037 | 3.125 |
| 15 | MP BETA2 | Y | .055 | 3.125 |
| 16 | MP BETA2 | X | .032 | 3.125 |
| 17 | MP GAMMA2 | Y | .065 | 3.125 |
| 18 | MP GAMMA2 | X | .037 | 3.125 |
| 19 | MP ALPHA3 | Y | .083 | 3.125 |
| 20 | MP ALPHA3 | X | .048 | 3.125 |
| 21 | MP BETA3 | Y | .068 | 3.125 |
| 22 | MP BETA3 | X | .039 | 3.125 |
| 23 | MP GAMMA3 | Y | .083 | 3.125 |
| 24 | MP GAMMA3 | X | .048 | 3.125 |
| 25 | MP BETA2 | Y | .15 | 6.125 |
| 26 | MP BETA2 | Y | .15 | .125 |
| 27 | MP BETA2 | X | .087 | 6.125 |
| 28 | MP BETA2 | X | .087 | .125 |
| 29 | MP GAMMA2 | Y | .299 | 6.125 |
| 30 | MP GAMMA2 | Y | .299 | .125 |
| 31 | MP GAMMA2 | X | .173 | 6.125 |
| 32 | MP GAMMA2 | X | .173 | .125 |
| 33 | MP BETA3 | Y | .047 | 5.125 |
| 34 | MP BETA3 | Y | .047 | 1.125 |
| 35 | MP BETA3 | X | .027 | 5.125 |
| 36 | MP BETA3 | X | .027 | 1.125 |
| 37 | MP GAMMA3 | Y | .088 | 5.125 |
| 38 | MP GAMMA3 | Y | .088 | 1.125 |
| 39 | MP GAMMA3 | X | .051 | 5.125 |
| 40 | MP GAMMA3 | X | .051 | 1.125 |
| 41 | MP BETA1 | Y | .043 | 3.958 |
| 42 | MP BETA1 | Y | .043 | 2.292 |
| 43 | MP BETA1 | X | .025 | 3.958 |
| 44 | MP BETA1 | X | .025 | 2.292 |
| 45 | MP GAMMA1 | Y | .084 | 3.958 |
| 46 | MP GAMMA1 | Y | .084 | 2.292 |
| 47 | MP GAMMA1 | X | .049 | 3.958 |
| 48 | MP GAMMA1 | X | .049 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .088 | 6.125 |
| 2 | MP ALPHA2 | Y | .088 | .125 |
| 3 | MP ALPHA2 | X | .152 | 6.125 |
| 4 | MP ALPHA2 | X | .152 | .125 |
| 5 | MP ALPHA3 | Y | .027 | 5.125 |
| 6 | MP ALPHA3 | Y | .027 | 1.125 |
| 7 | MP ALPHA3 | X | .047 | 5.125 |
| 8 | MP ALPHA3 | X | .047 | 1.125 |
| 9 | MP ALPHA1 | Y | .025 | 3.958 |
| 10 | MP ALPHA1 | Y | .025 | 2.292 |
| 11 | MP ALPHA1 | X | .043 | 3.958 |
| 12 | MP ALPHA1 | X | .043 | 2.292 |
| 13 | MP ALPHA2 | Y | .033 | 3.125 |
| 14 | MP ALPHA2 | X | .058 | 3.125 |
| 15 | MP BETA2 | Y | .033 | 3.125 |
| 16 | MP BETA2 | X | .058 | 3.125 |
| 17 | MP GAMMA2 | Y | .039 | 3.125 |
| 18 | MP GAMMA2 | X | .068 | 3.125 |
| 19 | MP ALPHA3 | Y | .042 | 3.125 |
| 20 | MP ALPHA3 | X | .073 | 3.125 |
| 21 | MP BETA3 | Y | .042 | 3.125 |
| 22 | MP BETA3 | X | .073 | 3.125 |
| 23 | MP GAMMA3 | Y | .051 | 3.125 |
| 24 | MP GAMMA3 | X | .088 | 3.125 |
| 25 | MP BETA2 | Y | .115 | 6.125 |
| 26 | MP BETA2 | Y | .115 | .125 |
| 27 | MP BETA2 | X | .2 | 6.125 |
| 28 | MP BETA2 | X | .2 | .125 |
| 29 | MP GAMMA2 | Y | .201 | 6.125 |
| 30 | MP GAMMA2 | Y | .201 | .125 |
| 31 | MP GAMMA2 | X | .349 | 6.125 |
| 32 | MP GAMMA2 | X | .349 | .125 |
| 33 | MP BETA3 | Y | .035 | 5.125 |
| 34 | MP BETA3 | Y | .035 | 1.125 |
| 35 | MP BETA3 | X | .061 | 5.125 |
| 36 | MP BETA3 | X | .061 | 1.125 |
| 37 | MP GAMMA3 | Y | .059 | 5.125 |
| 38 | MP GAMMA3 | Y | .059 | 1.125 |
| 39 | MP GAMMA3 | X | .102 | 5.125 |
| 40 | MP GAMMA3 | X | .102 | 1.125 |
| 41 | MP BETA1 | Y | .033 | 3.958 |
| 42 | MP BETA1 | Y | .033 | 2.292 |
| 43 | MP BETA1 | X | .057 | 3.958 |
| 44 | MP BETA1 | X | .057 | 2.292 |
| 45 | MP GAMMA1 | Y | .056 | 3.958 |
| 46 | MP GAMMA1 | Y | .056 | 2.292 |
| 47 | MP GAMMA1 | X | .098 | 3.958 |
| 48 | MP GAMMA1 | X | .098 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | .214 | 6.125 |
| 2 | MP ALPHA2 | X | .214 | .125 |
| 3 | MP ALPHA3 | X | .066 | 5.125 |
| 4 | MP ALPHA3 | X | .066 | 1.125 |
| 5 | MP ALPHA1 | X | .061 | 3.958 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 6 | MP ALPHA1 | X | .061 | 2.292 |
| 7 | MP ALPHA2 | X | .063 | 3.125 |
| 8 | MP BETA2 | X | .075 | 3.125 |
| 9 | MP GAMMA2 | X | .075 | 3.125 |
| 10 | MP ALPHA3 | X | .079 | 3.125 |
| 11 | MP BETA3 | X | .096 | 3.125 |
| 12 | MP GAMMA3 | X | .096 | 3.125 |
| 13 | MP BETA2 | X | .345 | 6.125 |
| 14 | MP BETA2 | X | .345 | .125 |
| 15 | MP GAMMA2 | X | .345 | 6.125 |
| 16 | MP GAMMA2 | X | .345 | .125 |
| 17 | MP BETA3 | X | .102 | 5.125 |
| 18 | MP BETA3 | X | .102 | 1.125 |
| 19 | MP GAMMA3 | X | .102 | 5.125 |
| 20 | MP GAMMA3 | X | .102 | 1.125 |
| 21 | MP BETA1 | X | .097 | 3.958 |
| 22 | MP BETA1 | X | .097 | 2.292 |
| 23 | MP GAMMA1 | X | .097 | 3.958 |
| 24 | MP GAMMA1 | X | .097 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.164 | 6.125 |
| 2 | MP ALPHA2 | Y | -.164 | .125 |
| 3 | MP ALPHA2 | X | .283 | 6.125 |
| 4 | MP ALPHA2 | X | .283 | .125 |
| 5 | MP ALPHA3 | Y | -.048 | 5.125 |
| 6 | MP ALPHA3 | Y | -.048 | 1.125 |
| 7 | MP ALPHA3 | X | .084 | 5.125 |
| 8 | MP ALPHA3 | X | .084 | 1.125 |
| 9 | MP ALPHA1 | Y | -.046 | 3.958 |
| 10 | MP ALPHA1 | Y | -.046 | 2.292 |
| 11 | MP ALPHA1 | X | .08 | 3.958 |
| 12 | MP ALPHA1 | X | .08 | 2.292 |
| 13 | MP ALPHA2 | Y | -.033 | 3.125 |
| 14 | MP ALPHA2 | X | .058 | 3.125 |
| 15 | MP BETA2 | Y | -.039 | 3.125 |
| 16 | MP BETA2 | X | .068 | 3.125 |
| 17 | MP GAMMA2 | Y | -.033 | 3.125 |
| 18 | MP GAMMA2 | X | .058 | 3.125 |
| 19 | MP ALPHA3 | Y | -.042 | 3.125 |
| 20 | MP ALPHA3 | X | .073 | 3.125 |
| 21 | MP BETA3 | Y | -.051 | 3.125 |
| 22 | MP BETA3 | X | .088 | 3.125 |
| 23 | MP GAMMA3 | Y | -.042 | 3.125 |
| 24 | MP GAMMA3 | X | .073 | 3.125 |
| 25 | MP BETA2 | Y | -.201 | 6.125 |
| 26 | MP BETA2 | Y | -.201 | .125 |
| 27 | MP BETA2 | X | .349 | 6.125 |
| 28 | MP BETA2 | X | .349 | .125 |
| 29 | MP GAMMA2 | Y | -.115 | 6.125 |
| 30 | MP GAMMA2 | Y | -.115 | .125 |
| 31 | MP GAMMA2 | X | .2 | 6.125 |
| 32 | MP GAMMA2 | X | .2 | .125 |
| 33 | MP BETA3 | Y | -.059 | 5.125 |
| 34 | MP BETA3 | Y | -.059 | 1.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 35 | MP BETA3 | X | .102 | 5.125 |
| 36 | MP BETA3 | X | .102 | 1.125 |
| 37 | MP GAMMA3 | Y | -.035 | 5.125 |
| 38 | MP GAMMA3 | Y | -.035 | 1.125 |
| 39 | MP GAMMA3 | X | .061 | 5.125 |
| 40 | MP GAMMA3 | X | .061 | 1.125 |
| 41 | MP BETA1 | Y | -.056 | 3.958 |
| 42 | MP BETA1 | Y | -.056 | 2.292 |
| 43 | MP BETA1 | X | .098 | 3.958 |
| 44 | MP BETA1 | X | .098 | 2.292 |
| 45 | MP GAMMA1 | Y | -.033 | 3.958 |
| 46 | MP GAMMA1 | Y | -.033 | 2.292 |
| 47 | MP GAMMA1 | X | .057 | 3.958 |
| 48 | MP GAMMA1 | X | .057 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.347 | 6.125 |
| 2 | MP ALPHA2 | Y | -.347 | .125 |
| 3 | MP ALPHA2 | X | .2 | 6.125 |
| 4 | MP ALPHA2 | X | .2 | .125 |
| 5 | MP ALPHA3 | Y | -.102 | 5.125 |
| 6 | MP ALPHA3 | Y | -.102 | 1.125 |
| 7 | MP ALPHA3 | X | .059 | 5.125 |
| 8 | MP ALPHA3 | X | .059 | 1.125 |
| 9 | MP ALPHA1 | Y | -.097 | 3.958 |
| 10 | MP ALPHA1 | Y | -.097 | 2.292 |
| 11 | MP ALPHA1 | X | .056 | 3.958 |
| 12 | MP ALPHA1 | X | .056 | 2.292 |
| 13 | MP ALPHA2 | Y | -.065 | 3.125 |
| 14 | MP ALPHA2 | X | .037 | 3.125 |
| 15 | MP BETA2 | Y | -.065 | 3.125 |
| 16 | MP BETA2 | X | .037 | 3.125 |
| 17 | MP GAMMA2 | Y | -.055 | 3.125 |
| 18 | MP GAMMA2 | X | .032 | 3.125 |
| 19 | MP ALPHA3 | Y | -.083 | 3.125 |
| 20 | MP ALPHA3 | X | .048 | 3.125 |
| 21 | MP BETA3 | Y | -.083 | 3.125 |
| 22 | MP BETA3 | X | .048 | 3.125 |
| 23 | MP GAMMA3 | Y | -.068 | 3.125 |
| 24 | MP GAMMA3 | X | .039 | 3.125 |
| 25 | MP BETA2 | Y | -.299 | 6.125 |
| 26 | MP BETA2 | Y | -.299 | .125 |
| 27 | MP BETA2 | X | .173 | 6.125 |
| 28 | MP BETA2 | X | .173 | .125 |
| 29 | MP GAMMA2 | Y | -.15 | 6.125 |
| 30 | MP GAMMA2 | Y | -.15 | .125 |
| 31 | MP GAMMA2 | X | .087 | 6.125 |
| 32 | MP GAMMA2 | X | .087 | .125 |
| 33 | MP BETA3 | Y | -.088 | 5.125 |
| 34 | MP BETA3 | Y | -.088 | 1.125 |
| 35 | MP BETA3 | X | .051 | 5.125 |
| 36 | MP BETA3 | X | .051 | 1.125 |
| 37 | MP GAMMA3 | Y | -.047 | 5.125 |
| 38 | MP GAMMA3 | Y | -.047 | 1.125 |
| 39 | MP GAMMA3 | X | .027 | 5.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 40 | MP GAMMA3 | X | .027 | 1.125 |
| 41 | MP BETA1 | Y | -.084 | 3.958 |
| 42 | MP BETA1 | Y | -.084 | 2.292 |
| 43 | MP BETA1 | X | .049 | 3.958 |
| 44 | MP BETA1 | X | .049 | 2.292 |
| 45 | MP GAMMA1 | Y | -.043 | 3.958 |
| 46 | MP GAMMA1 | Y | -.043 | 2.292 |
| 47 | MP GAMMA1 | X | .025 | 3.958 |
| 48 | MP GAMMA1 | X | .025 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.023 | 6.125 |
| 2 | MP ALPHA2 | Y | -.023 | .125 |
| 3 | MP ALPHA3 | Y | -.007 | 5.125 |
| 4 | MP ALPHA3 | Y | -.007 | 1.125 |
| 5 | MP ALPHA1 | Y | -.006 | 3.958 |
| 6 | MP ALPHA1 | Y | -.006 | 2.292 |
| 7 | MP ALPHA2 | Y | -.005 | 3.125 |
| 8 | MP BETA2 | Y | -.004 | 3.125 |
| 9 | MP GAMMA2 | Y | -.004 | 3.125 |
| 10 | MP ALPHA3 | Y | -.006 | 3.125 |
| 11 | MP BETA3 | Y | -.005 | 3.125 |
| 12 | MP GAMMA3 | Y | -.005 | 3.125 |
| 13 | MP BETA2 | Y | -.015 | 6.125 |
| 14 | MP BETA2 | Y | -.015 | .125 |
| 15 | MP GAMMA2 | Y | -.015 | 6.125 |
| 16 | MP GAMMA2 | Y | -.015 | .125 |
| 17 | MP BETA3 | Y | -.004 | 5.125 |
| 18 | MP BETA3 | Y | -.004 | 1.125 |
| 19 | MP GAMMA3 | Y | -.004 | 5.125 |
| 20 | MP GAMMA3 | Y | -.004 | 1.125 |
| 21 | MP BETA1 | Y | -.004 | 3.958 |
| 22 | MP BETA1 | Y | -.004 | 2.292 |
| 23 | MP GAMMA1 | Y | -.004 | 3.958 |
| 24 | MP GAMMA1 | Y | -.004 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.014 | 6.125 |
| 2 | MP ALPHA2 | Y | -.014 | .125 |
| 3 | MP ALPHA2 | X | -.008 | 6.125 |
| 4 | MP ALPHA2 | X | -.008 | .125 |
| 5 | MP ALPHA3 | Y | -.004 | 5.125 |
| 6 | MP ALPHA3 | Y | -.004 | 1.125 |
| 7 | MP ALPHA3 | X | -.002 | 5.125 |
| 8 | MP ALPHA3 | X | -.002 | 1.125 |
| 9 | MP ALPHA1 | Y | -.004 | 3.958 |
| 10 | MP ALPHA1 | Y | -.004 | 2.292 |
| 11 | MP ALPHA1 | X | -.002 | 3.958 |
| 12 | MP ALPHA1 | X | -.002 | 2.292 |
| 13 | MP ALPHA2 | Y | -.004 | 3.125 |
| 14 | MP ALPHA2 | X | -.002 | 3.125 |
| 15 | MP BETA2 | Y | -.003 | 3.125 |
| 16 | MP BETA2 | X | -.002 | 3.125 |
| 17 | MP GAMMA2 | Y | -.004 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 18 | MP GAMMA2 | X | -.002 | 3.125 |
| 19 | MP ALPHA3 | Y | -.005 | 3.125 |
| 20 | MP ALPHA3 | X | -.003 | 3.125 |
| 21 | MP BETA3 | Y | -.004 | 3.125 |
| 22 | MP BETA3 | X | -.002 | 3.125 |
| 23 | MP GAMMA3 | Y | -.005 | 3.125 |
| 24 | MP GAMMA3 | X | -.003 | 3.125 |
| 25 | MP BETA2 | Y | -.01 | 6.125 |
| 26 | MP BETA2 | Y | -.01 | .125 |
| 27 | MP BETA2 | X | -.006 | 6.125 |
| 28 | MP BETA2 | X | -.006 | .125 |
| 29 | MP GAMMA2 | Y | -.019 | 6.125 |
| 30 | MP GAMMA2 | Y | -.019 | .125 |
| 31 | MP GAMMA2 | X | -.011 | 6.125 |
| 32 | MP GAMMA2 | X | -.011 | .125 |
| 33 | MP BETA3 | Y | -.003 | 5.125 |
| 34 | MP BETA3 | Y | -.003 | 1.125 |
| 35 | MP BETA3 | X | -.002 | 5.125 |
| 36 | MP BETA3 | X | -.002 | 1.125 |
| 37 | MP GAMMA3 | Y | -.006 | 5.125 |
| 38 | MP GAMMA3 | Y | -.006 | 1.125 |
| 39 | MP GAMMA3 | X | -.003 | 5.125 |
| 40 | MP GAMMA3 | X | -.003 | 1.125 |
| 41 | MP BETA1 | Y | -.003 | 3.958 |
| 42 | MP BETA1 | Y | -.003 | 2.292 |
| 43 | MP BETA1 | X | -.002 | 3.958 |
| 44 | MP BETA1 | X | -.002 | 2.292 |
| 45 | MP GAMMA1 | Y | -.005 | 3.958 |
| 46 | MP GAMMA1 | Y | -.005 | 2.292 |
| 47 | MP GAMMA1 | X | -.003 | 3.958 |
| 48 | MP GAMMA1 | X | -.003 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.006 | 6.125 |
| 2 | MP ALPHA2 | Y | -.006 | .125 |
| 3 | MP ALPHA2 | X | -.01 | 6.125 |
| 4 | MP ALPHA2 | X | -.01 | .125 |
| 5 | MP ALPHA3 | Y | -.002 | 5.125 |
| 6 | MP ALPHA3 | Y | -.002 | 1.125 |
| 7 | MP ALPHA3 | X | -.003 | 5.125 |
| 8 | MP ALPHA3 | X | -.003 | 1.125 |
| 9 | MP ALPHA1 | Y | -.002 | 3.958 |
| 10 | MP ALPHA1 | Y | -.002 | 2.292 |
| 11 | MP ALPHA1 | X | -.003 | 3.958 |
| 12 | MP ALPHA1 | X | -.003 | 2.292 |
| 13 | MP ALPHA2 | Y | -.002 | 3.125 |
| 14 | MP ALPHA2 | X | -.004 | 3.125 |
| 15 | MP BETA2 | Y | -.002 | 3.125 |
| 16 | MP BETA2 | X | -.004 | 3.125 |
| 17 | MP GAMMA2 | Y | -.002 | 3.125 |
| 18 | MP GAMMA2 | X | -.004 | 3.125 |
| 19 | MP ALPHA3 | Y | -.003 | 3.125 |
| 20 | MP ALPHA3 | X | -.005 | 3.125 |
| 21 | MP BETA3 | Y | -.003 | 3.125 |
| 22 | MP BETA3 | X | -.005 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 23 | MP GAMMA3 | Y | -.003 | 3.125 |
| 24 | MP GAMMA3 | X | -.006 | 3.125 |
| 25 | MP BETA2 | Y | -.007 | 6.125 |
| 26 | MP BETA2 | Y | -.007 | .125 |
| 27 | MP BETA2 | X | -.013 | 6.125 |
| 28 | MP BETA2 | X | -.013 | .125 |
| 29 | MP GAMMA2 | Y | -.013 | 6.125 |
| 30 | MP GAMMA2 | Y | -.013 | .125 |
| 31 | MP GAMMA2 | X | -.022 | 6.125 |
| 32 | MP GAMMA2 | X | -.022 | .125 |
| 33 | MP BETA3 | Y | -.002 | 5.125 |
| 34 | MP BETA3 | Y | -.002 | 1.125 |
| 35 | MP BETA3 | X | -.004 | 5.125 |
| 36 | MP BETA3 | X | -.004 | 1.125 |
| 37 | MP GAMMA3 | Y | -.004 | 5.125 |
| 38 | MP GAMMA3 | Y | -.004 | 1.125 |
| 39 | MP GAMMA3 | X | -.006 | 5.125 |
| 40 | MP GAMMA3 | X | -.006 | 1.125 |
| 41 | MP BETA1 | Y | -.002 | 3.958 |
| 42 | MP BETA1 | Y | -.002 | 2.292 |
| 43 | MP BETA1 | X | -.004 | 3.958 |
| 44 | MP BETA1 | X | -.004 | 2.292 |
| 45 | MP GAMMA1 | Y | -.004 | 3.958 |
| 46 | MP GAMMA1 | Y | -.004 | 2.292 |
| 47 | MP GAMMA1 | X | -.006 | 3.958 |
| 48 | MP GAMMA1 | X | -.006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | -.014 | 6.125 |
| 2 | MP ALPHA2 | X | -.014 | .125 |
| 3 | MP ALPHA3 | X | -.004 | 5.125 |
| 4 | MP ALPHA3 | X | -.004 | 1.125 |
| 5 | MP ALPHA1 | X | -.004 | 3.958 |
| 6 | MP ALPHA1 | X | -.004 | 2.292 |
| 7 | MP ALPHA2 | X | -.004 | 3.125 |
| 8 | MP BETA2 | X | -.005 | 3.125 |
| 9 | MP GAMMA2 | X | -.005 | 3.125 |
| 10 | MP ALPHA3 | X | -.005 | 3.125 |
| 11 | MP BETA3 | X | -.006 | 3.125 |
| 12 | MP GAMMA3 | X | -.006 | 3.125 |
| 13 | MP BETA2 | X | -.022 | 6.125 |
| 14 | MP BETA2 | X | -.022 | .125 |
| 15 | MP GAMMA2 | X | -.022 | 6.125 |
| 16 | MP GAMMA2 | X | -.022 | .125 |
| 17 | MP BETA3 | X | -.006 | 5.125 |
| 18 | MP BETA3 | X | -.006 | 1.125 |
| 19 | MP GAMMA3 | X | -.006 | 5.125 |
| 20 | MP GAMMA3 | X | -.006 | 1.125 |
| 21 | MP BETA1 | X | -.006 | 3.958 |
| 22 | MP BETA1 | X | -.006 | 2.292 |
| 23 | MP GAMMA1 | X | -.006 | 3.958 |
| 24 | MP GAMMA1 | X | -.006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .01 | 6.125 |
| 2 | MP ALPHA2 | Y | .01 | .125 |
| 3 | MP ALPHA2 | X | -.018 | 6.125 |
| 4 | MP ALPHA2 | X | -.018 | .125 |
| 5 | MP ALPHA3 | Y | .003 | 5.125 |
| 6 | MP ALPHA3 | Y | .003 | 1.125 |
| 7 | MP ALPHA3 | X | -.005 | 5.125 |
| 8 | MP ALPHA3 | X | -.005 | 1.125 |
| 9 | MP ALPHA1 | Y | .003 | 3.958 |
| 10 | MP ALPHA1 | Y | .003 | 2.292 |
| 11 | MP ALPHA1 | X | -.005 | 3.958 |
| 12 | MP ALPHA1 | X | -.005 | 2.292 |
| 13 | MP ALPHA2 | Y | .002 | 3.125 |
| 14 | MP ALPHA2 | X | -.004 | 3.125 |
| 15 | MP BETA2 | Y | .002 | 3.125 |
| 16 | MP BETA2 | X | -.004 | 3.125 |
| 17 | MP GAMMA2 | Y | .002 | 3.125 |
| 18 | MP GAMMA2 | X | -.004 | 3.125 |
| 19 | MP ALPHA3 | Y | .003 | 3.125 |
| 20 | MP ALPHA3 | X | -.005 | 3.125 |
| 21 | MP BETA3 | Y | .003 | 3.125 |
| 22 | MP BETA3 | X | -.006 | 3.125 |
| 23 | MP GAMMA3 | Y | .003 | 3.125 |
| 24 | MP GAMMA3 | X | -.005 | 3.125 |
| 25 | MP BETA2 | Y | .013 | 6.125 |
| 26 | MP BETA2 | Y | .013 | .125 |
| 27 | MP BETA2 | X | -.022 | 6.125 |
| 28 | MP BETA2 | X | -.022 | .125 |
| 29 | MP GAMMA2 | Y | .007 | 6.125 |
| 30 | MP GAMMA2 | Y | .007 | .125 |
| 31 | MP GAMMA2 | X | -.013 | 6.125 |
| 32 | MP GAMMA2 | X | -.013 | .125 |
| 33 | MP BETA3 | Y | .004 | 5.125 |
| 34 | MP BETA3 | Y | .004 | 1.125 |
| 35 | MP BETA3 | X | -.006 | 5.125 |
| 36 | MP BETA3 | X | -.006 | 1.125 |
| 37 | MP GAMMA3 | Y | .002 | 5.125 |
| 38 | MP GAMMA3 | Y | .002 | 1.125 |
| 39 | MP GAMMA3 | X | -.004 | 5.125 |
| 40 | MP GAMMA3 | X | -.004 | 1.125 |
| 41 | MP BETA1 | Y | .004 | 3.958 |
| 42 | MP BETA1 | Y | .004 | 2.292 |
| 43 | MP BETA1 | X | -.006 | 3.958 |
| 44 | MP BETA1 | X | -.006 | 2.292 |
| 45 | MP GAMMA1 | Y | .002 | 3.958 |
| 46 | MP GAMMA1 | Y | .002 | 2.292 |
| 47 | MP GAMMA1 | X | -.004 | 3.958 |
| 48 | MP GAMMA1 | X | -.004 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .022 | 6.125 |
| 2 | MP ALPHA2 | Y | .022 | .125 |
| 3 | MP ALPHA2 | X | -.013 | 6.125 |
| 4 | MP ALPHA2 | X | -.013 | .125 |
| 5 | MP ALPHA3 | Y | .006 | 5.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 6 | MP ALPHA3 | Y | .006 | 1.125 |
| 7 | MP ALPHA3 | X | -.004 | 5.125 |
| 8 | MP ALPHA3 | X | -.004 | 1.125 |
| 9 | MP ALPHA1 | Y | .006 | 3.958 |
| 10 | MP ALPHA1 | Y | .006 | 2.292 |
| 11 | MP ALPHA1 | X | -.004 | 3.958 |
| 12 | MP ALPHA1 | X | -.004 | 2.292 |
| 13 | MP ALPHA2 | Y | .004 | 3.125 |
| 14 | MP ALPHA2 | X | -.002 | 3.125 |
| 15 | MP BETA2 | Y | .004 | 3.125 |
| 16 | MP BETA2 | X | -.002 | 3.125 |
| 17 | MP GAMMA2 | Y | .003 | 3.125 |
| 18 | MP GAMMA2 | X | -.002 | 3.125 |
| 19 | MP ALPHA3 | Y | .005 | 3.125 |
| 20 | MP ALPHA3 | X | -.003 | 3.125 |
| 21 | MP BETA3 | Y | .005 | 3.125 |
| 22 | MP BETA3 | X | -.003 | 3.125 |
| 23 | MP GAMMA3 | Y | .004 | 3.125 |
| 24 | MP GAMMA3 | X | -.002 | 3.125 |
| 25 | MP BETA2 | Y | .019 | 6.125 |
| 26 | MP BETA2 | Y | .019 | .125 |
| 27 | MP BETA2 | X | -.011 | 6.125 |
| 28 | MP BETA2 | X | -.011 | .125 |
| 29 | MP GAMMA2 | Y | .01 | 6.125 |
| 30 | MP GAMMA2 | Y | .01 | .125 |
| 31 | MP GAMMA2 | X | -.006 | 6.125 |
| 32 | MP GAMMA2 | X | -.006 | .125 |
| 33 | MP BETA3 | Y | .006 | 5.125 |
| 34 | MP BETA3 | Y | .006 | 1.125 |
| 35 | MP BETA3 | X | -.003 | 5.125 |
| 36 | MP BETA3 | X | -.003 | 1.125 |
| 37 | MP GAMMA3 | Y | .003 | 5.125 |
| 38 | MP GAMMA3 | Y | .003 | 1.125 |
| 39 | MP GAMMA3 | X | -.002 | 5.125 |
| 40 | MP GAMMA3 | X | -.002 | 1.125 |
| 41 | MP BETA1 | Y | .005 | 3.958 |
| 42 | MP BETA1 | Y | .005 | 2.292 |
| 43 | MP BETA1 | X | -.003 | 3.958 |
| 44 | MP BETA1 | X | -.003 | 2.292 |
| 45 | MP GAMMA1 | Y | .003 | 3.958 |
| 46 | MP GAMMA1 | Y | .003 | 2.292 |
| 47 | MP GAMMA1 | X | -.002 | 3.958 |
| 48 | MP GAMMA1 | X | -.002 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .023 | 6.125 |
| 2 | MP ALPHA2 | Y | .023 | .125 |
| 3 | MP ALPHA3 | Y | .007 | 5.125 |
| 4 | MP ALPHA3 | Y | .007 | 1.125 |
| 5 | MP ALPHA1 | Y | .006 | 3.958 |
| 6 | MP ALPHA1 | Y | .006 | 2.292 |
| 7 | MP ALPHA2 | Y | .005 | 3.125 |
| 8 | MP BETA2 | Y | .004 | 3.125 |
| 9 | MP GAMMA2 | Y | .004 | 3.125 |
| 10 | MP ALPHA3 | Y | .006 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 11 | MP BETA3 | Y | .005 | 3.125 |
| 12 | MP GAMMA3 | Y | .005 | 3.125 |
| 13 | MP BETA2 | Y | .015 | 6.125 |
| 14 | MP BETA2 | Y | .015 | .125 |
| 15 | MP GAMMA2 | Y | .015 | 6.125 |
| 16 | MP GAMMA2 | Y | .015 | .125 |
| 17 | MP BETA3 | Y | .004 | 5.125 |
| 18 | MP BETA3 | Y | .004 | 1.125 |
| 19 | MP GAMMA3 | Y | .004 | 5.125 |
| 20 | MP GAMMA3 | Y | .004 | 1.125 |
| 21 | MP BETA1 | Y | .004 | 3.958 |
| 22 | MP BETA1 | Y | .004 | 2.292 |
| 23 | MP GAMMA1 | Y | .004 | 3.958 |
| 24 | MP GAMMA1 | Y | .004 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .014 | 6.125 |
| 2 | MP ALPHA2 | Y | .014 | .125 |
| 3 | MP ALPHA2 | X | .008 | 6.125 |
| 4 | MP ALPHA2 | X | .008 | .125 |
| 5 | MP ALPHA3 | Y | .004 | 5.125 |
| 6 | MP ALPHA3 | Y | .004 | 1.125 |
| 7 | MP ALPHA3 | X | .002 | 5.125 |
| 8 | MP ALPHA3 | X | .002 | 1.125 |
| 9 | MP ALPHA1 | Y | .004 | 3.958 |
| 10 | MP ALPHA1 | Y | .004 | 2.292 |
| 11 | MP ALPHA1 | X | .002 | 3.958 |
| 12 | MP ALPHA1 | X | .002 | 2.292 |
| 13 | MP ALPHA2 | Y | .004 | 3.125 |
| 14 | MP ALPHA2 | X | .002 | 3.125 |
| 15 | MP BETA2 | Y | .003 | 3.125 |
| 16 | MP BETA2 | X | .002 | 3.125 |
| 17 | MP GAMMA2 | Y | .004 | 3.125 |
| 18 | MP GAMMA2 | X | .002 | 3.125 |
| 19 | MP ALPHA3 | Y | .005 | 3.125 |
| 20 | MP ALPHA3 | X | .003 | 3.125 |
| 21 | MP BETA3 | Y | .004 | 3.125 |
| 22 | MP BETA3 | X | .002 | 3.125 |
| 23 | MP GAMMA3 | Y | .005 | 3.125 |
| 24 | MP GAMMA3 | X | .003 | 3.125 |
| 25 | MP BETA2 | Y | .01 | 6.125 |
| 26 | MP BETA2 | Y | .01 | .125 |
| 27 | MP BETA2 | X | .006 | 6.125 |
| 28 | MP BETA2 | X | .006 | .125 |
| 29 | MP GAMMA2 | Y | .019 | 6.125 |
| 30 | MP GAMMA2 | Y | .019 | .125 |
| 31 | MP GAMMA2 | X | .011 | 6.125 |
| 32 | MP GAMMA2 | X | .011 | .125 |
| 33 | MP BETA3 | Y | .003 | 5.125 |
| 34 | MP BETA3 | Y | .003 | 1.125 |
| 35 | MP BETA3 | X | .002 | 5.125 |
| 36 | MP BETA3 | X | .002 | 1.125 |
| 37 | MP GAMMA3 | Y | .006 | 5.125 |
| 38 | MP GAMMA3 | Y | .006 | 1.125 |
| 39 | MP GAMMA3 | X | .003 | 5.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 40 | MP GAMMA3 | X | .003 | 1.125 |
| 41 | MP BETA1 | Y | .003 | 3.958 |
| 42 | MP BETA1 | Y | .003 | 2.292 |
| 43 | MP BETA1 | X | .002 | 3.958 |
| 44 | MP BETA1 | X | .002 | 2.292 |
| 45 | MP GAMMA1 | Y | .005 | 3.958 |
| 46 | MP GAMMA1 | Y | .005 | 2.292 |
| 47 | MP GAMMA1 | X | .003 | 3.958 |
| 48 | MP GAMMA1 | X | .003 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .006 | 6.125 |
| 2 | MP ALPHA2 | Y | .006 | .125 |
| 3 | MP ALPHA2 | X | .01 | 6.125 |
| 4 | MP ALPHA2 | X | .01 | .125 |
| 5 | MP ALPHA3 | Y | .002 | 5.125 |
| 6 | MP ALPHA3 | Y | .002 | 1.125 |
| 7 | MP ALPHA3 | X | .003 | 5.125 |
| 8 | MP ALPHA3 | X | .003 | 1.125 |
| 9 | MP ALPHA1 | Y | .002 | 3.958 |
| 10 | MP ALPHA1 | Y | .002 | 2.292 |
| 11 | MP ALPHA1 | X | .003 | 3.958 |
| 12 | MP ALPHA1 | X | .003 | 2.292 |
| 13 | MP ALPHA2 | Y | .002 | 3.125 |
| 14 | MP ALPHA2 | X | .004 | 3.125 |
| 15 | MP BETA2 | Y | .002 | 3.125 |
| 16 | MP BETA2 | X | .004 | 3.125 |
| 17 | MP GAMMA2 | Y | .002 | 3.125 |
| 18 | MP GAMMA2 | X | .004 | 3.125 |
| 19 | MP ALPHA3 | Y | .003 | 3.125 |
| 20 | MP ALPHA3 | X | .005 | 3.125 |
| 21 | MP BETA3 | Y | .003 | 3.125 |
| 22 | MP BETA3 | X | .005 | 3.125 |
| 23 | MP GAMMA3 | Y | .003 | 3.125 |
| 24 | MP GAMMA3 | X | .006 | 3.125 |
| 25 | MP BETA2 | Y | .007 | 6.125 |
| 26 | MP BETA2 | Y | .007 | .125 |
| 27 | MP BETA2 | X | .013 | 6.125 |
| 28 | MP BETA2 | X | .013 | .125 |
| 29 | MP GAMMA2 | Y | .013 | 6.125 |
| 30 | MP GAMMA2 | Y | .013 | .125 |
| 31 | MP GAMMA2 | X | .022 | 6.125 |
| 32 | MP GAMMA2 | X | .022 | .125 |
| 33 | MP BETA3 | Y | .002 | 5.125 |
| 34 | MP BETA3 | Y | .002 | 1.125 |
| 35 | MP BETA3 | X | .004 | 5.125 |
| 36 | MP BETA3 | X | .004 | 1.125 |
| 37 | MP GAMMA3 | Y | .004 | 5.125 |
| 38 | MP GAMMA3 | Y | .004 | 1.125 |
| 39 | MP GAMMA3 | X | .006 | 5.125 |
| 40 | MP GAMMA3 | X | .006 | 1.125 |
| 41 | MP BETA1 | Y | .002 | 3.958 |
| 42 | MP BETA1 | Y | .002 | 2.292 |
| 43 | MP BETA1 | X | .004 | 3.958 |
| 44 | MP BETA1 | X | .004 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 45 | MP GAMMA1 | Y | .004 | 3.958 |
| 46 | MP GAMMA1 | Y | .004 | 2.292 |
| 47 | MP GAMMA1 | X | .006 | 3.958 |
| 48 | MP GAMMA1 | X | .006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | .014 | 6.125 |
| 2 | MP ALPHA2 | X | .014 | .125 |
| 3 | MP ALPHA3 | X | .004 | 5.125 |
| 4 | MP ALPHA3 | X | .004 | 1.125 |
| 5 | MP ALPHA1 | X | .004 | 3.958 |
| 6 | MP ALPHA1 | X | .004 | 2.292 |
| 7 | MP ALPHA2 | X | .004 | 3.125 |
| 8 | MP BETA2 | X | .005 | 3.125 |
| 9 | MP GAMMA2 | X | .005 | 3.125 |
| 10 | MP ALPHA3 | X | .005 | 3.125 |
| 11 | MP BETA3 | X | .006 | 3.125 |
| 12 | MP GAMMA3 | X | .006 | 3.125 |
| 13 | MP BETA2 | X | .022 | 6.125 |
| 14 | MP BETA2 | X | .022 | .125 |
| 15 | MP GAMMA2 | X | .022 | 6.125 |
| 16 | MP GAMMA2 | X | .022 | .125 |
| 17 | MP BETA3 | X | .006 | 5.125 |
| 18 | MP BETA3 | X | .006 | 1.125 |
| 19 | MP GAMMA3 | X | .006 | 5.125 |
| 20 | MP GAMMA3 | X | .006 | 1.125 |
| 21 | MP BETA1 | X | .006 | 3.958 |
| 22 | MP BETA1 | X | .006 | 2.292 |
| 23 | MP GAMMA1 | X | .006 | 3.958 |
| 24 | MP GAMMA1 | X | .006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.01 | 6.125 |
| 2 | MP ALPHA2 | Y | -.01 | .125 |
| 3 | MP ALPHA2 | X | .018 | 6.125 |
| 4 | MP ALPHA2 | X | .018 | .125 |
| 5 | MP ALPHA3 | Y | -.003 | 5.125 |
| 6 | MP ALPHA3 | Y | -.003 | 1.125 |
| 7 | MP ALPHA3 | X | .005 | 5.125 |
| 8 | MP ALPHA3 | X | .005 | 1.125 |
| 9 | MP ALPHA1 | Y | -.003 | 3.958 |
| 10 | MP ALPHA1 | Y | -.003 | 2.292 |
| 11 | MP ALPHA1 | X | .005 | 3.958 |
| 12 | MP ALPHA1 | X | .005 | 2.292 |
| 13 | MP ALPHA2 | Y | -.002 | 3.125 |
| 14 | MP ALPHA2 | X | .004 | 3.125 |
| 15 | MP BETA2 | Y | -.002 | 3.125 |
| 16 | MP BETA2 | X | .004 | 3.125 |
| 17 | MP GAMMA2 | Y | -.002 | 3.125 |
| 18 | MP GAMMA2 | X | .004 | 3.125 |
| 19 | MP ALPHA3 | Y | -.003 | 3.125 |
| 20 | MP ALPHA3 | X | .005 | 3.125 |
| 21 | MP BETA3 | Y | -.003 | 3.125 |
| 22 | MP BETA3 | X | .006 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 23 | MP GAMMA3 | Y | -.003 | 3.125 |
| 24 | MP GAMMA3 | X | .005 | 3.125 |
| 25 | MP BETA2 | Y | -.013 | 6.125 |
| 26 | MP BETA2 | Y | -.013 | .125 |
| 27 | MP BETA2 | X | .022 | 6.125 |
| 28 | MP BETA2 | X | .022 | .125 |
| 29 | MP GAMMA2 | Y | -.007 | 6.125 |
| 30 | MP GAMMA2 | Y | -.007 | .125 |
| 31 | MP GAMMA2 | X | .013 | 6.125 |
| 32 | MP GAMMA2 | X | .013 | .125 |
| 33 | MP BETA3 | Y | -.004 | 5.125 |
| 34 | MP BETA3 | Y | -.004 | 1.125 |
| 35 | MP BETA3 | X | .006 | 5.125 |
| 36 | MP BETA3 | X | .006 | 1.125 |
| 37 | MP GAMMA3 | Y | -.002 | 5.125 |
| 38 | MP GAMMA3 | Y | -.002 | 1.125 |
| 39 | MP GAMMA3 | X | .004 | 5.125 |
| 40 | MP GAMMA3 | X | .004 | 1.125 |
| 41 | MP BETA1 | Y | -.004 | 3.958 |
| 42 | MP BETA1 | Y | -.004 | 2.292 |
| 43 | MP BETA1 | X | .006 | 3.958 |
| 44 | MP BETA1 | X | .006 | 2.292 |
| 45 | MP GAMMA1 | Y | -.002 | 3.958 |
| 46 | MP GAMMA1 | Y | -.002 | 2.292 |
| 47 | MP GAMMA1 | X | .004 | 3.958 |
| 48 | MP GAMMA1 | X | .004 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.022 | 6.125 |
| 2 | MP ALPHA2 | Y | -.022 | .125 |
| 3 | MP ALPHA2 | X | .013 | 6.125 |
| 4 | MP ALPHA2 | X | .013 | .125 |
| 5 | MP ALPHA3 | Y | -.006 | 5.125 |
| 6 | MP ALPHA3 | Y | -.006 | 1.125 |
| 7 | MP ALPHA3 | X | .004 | 5.125 |
| 8 | MP ALPHA3 | X | .004 | 1.125 |
| 9 | MP ALPHA1 | Y | -.006 | 3.958 |
| 10 | MP ALPHA1 | Y | -.006 | 2.292 |
| 11 | MP ALPHA1 | X | .004 | 3.958 |
| 12 | MP ALPHA1 | X | .004 | 2.292 |
| 13 | MP ALPHA2 | Y | -.004 | 3.125 |
| 14 | MP ALPHA2 | X | .002 | 3.125 |
| 15 | MP BETA2 | Y | -.004 | 3.125 |
| 16 | MP BETA2 | X | .002 | 3.125 |
| 17 | MP GAMMA2 | Y | -.003 | 3.125 |
| 18 | MP GAMMA2 | X | .002 | 3.125 |
| 19 | MP ALPHA3 | Y | -.005 | 3.125 |
| 20 | MP ALPHA3 | X | .003 | 3.125 |
| 21 | MP BETA3 | Y | -.005 | 3.125 |
| 22 | MP BETA3 | X | .003 | 3.125 |
| 23 | MP GAMMA3 | Y | -.004 | 3.125 |
| 24 | MP GAMMA3 | X | .002 | 3.125 |
| 25 | MP BETA2 | Y | -.019 | 6.125 |
| 26 | MP BETA2 | Y | -.019 | .125 |
| 27 | MP BETA2 | X | .011 | 6.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 28 | MP BETA2 | X | .011 | .125 |
| 29 | MP GAMMA2 | Y | -.01 | 6.125 |
| 30 | MP GAMMA2 | Y | -.01 | .125 |
| 31 | MP GAMMA2 | X | .006 | 6.125 |
| 32 | MP GAMMA2 | X | .006 | .125 |
| 33 | MP BETA3 | Y | -.006 | 5.125 |
| 34 | MP BETA3 | Y | -.006 | 1.125 |
| 35 | MP BETA3 | X | .003 | 5.125 |
| 36 | MP BETA3 | X | .003 | 1.125 |
| 37 | MP GAMMA3 | Y | -.003 | 5.125 |
| 38 | MP GAMMA3 | Y | -.003 | 1.125 |
| 39 | MP GAMMA3 | X | .002 | 5.125 |
| 40 | MP GAMMA3 | X | .002 | 1.125 |
| 41 | MP BETA1 | Y | -.005 | 3.958 |
| 42 | MP BETA1 | Y | -.005 | 2.292 |
| 43 | MP BETA1 | X | .003 | 3.958 |
| 44 | MP BETA1 | X | .003 | 2.292 |
| 45 | MP GAMMA1 | Y | -.003 | 3.958 |
| 46 | MP GAMMA1 | Y | -.003 | 2.292 |
| 47 | MP GAMMA1 | X | .002 | 3.958 |
| 48 | MP GAMMA1 | X | .002 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Z | -.132 | 6.125 |
| 2 | MP ALPHA2 | Z | -.132 | .125 |
| 3 | MP ALPHA3 | Z | -.041 | 5.125 |
| 4 | MP ALPHA3 | Z | -.041 | 1.125 |
| 5 | MP ALPHA1 | Z | -.047 | 3.958 |
| 6 | MP ALPHA1 | Z | -.047 | 2.292 |
| 7 | MP ALPHA2 | Z | -.049 | 3.125 |
| 8 | MP BETA2 | Z | -.049 | 3.125 |
| 9 | MP GAMMA2 | Z | -.049 | 3.125 |
| 10 | MP ALPHA3 | Z | -.062 | 3.125 |
| 11 | MP BETA3 | Z | -.062 | 3.125 |
| 12 | MP GAMMA3 | Z | -.062 | 3.125 |
| 13 | MP BETA2 | Z | -.132 | 6.125 |
| 14 | MP BETA2 | Z | -.132 | .125 |
| 15 | MP GAMMA2 | Z | -.132 | 6.125 |
| 16 | MP GAMMA2 | Z | -.132 | .125 |
| 17 | MP BETA3 | Z | -.041 | 5.125 |
| 18 | MP BETA3 | Z | -.041 | 1.125 |
| 19 | MP GAMMA3 | Z | -.041 | 5.125 |
| 20 | MP GAMMA3 | Z | -.041 | 1.125 |
| 21 | MP BETA1 | Z | -.047 | 3.958 |
| 22 | MP BETA1 | Z | -.047 | 2.292 |
| 23 | MP GAMMA1 | Z | -.047 | 3.958 |
| 24 | MP GAMMA1 | Z | -.047 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.065 | 6.125 |
| 2 | MP ALPHA2 | Y | -.065 | .125 |
| 3 | MP ALPHA3 | Y | -.021 | 5.125 |
| 4 | MP ALPHA3 | Y | -.021 | 1.125 |
| 5 | MP ALPHA1 | Y | -.019 | 3.958 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 6 | MP ALPHA1 | Y | -.019 | 2.292 |
| 7 | MP ALPHA2 | Y | -.018 | 3.125 |
| 8 | MP BETA2 | Y | -.016 | 3.125 |
| 9 | MP GAMMA2 | Y | -.016 | 3.125 |
| 10 | MP ALPHA3 | Y | -.023 | 3.125 |
| 11 | MP BETA3 | Y | -.019 | 3.125 |
| 12 | MP GAMMA3 | Y | -.019 | 3.125 |
| 13 | MP BETA2 | Y | -.048 | 6.125 |
| 14 | MP BETA2 | Y | -.048 | .125 |
| 15 | MP GAMMA2 | Y | -.048 | 6.125 |
| 16 | MP GAMMA2 | Y | -.048 | .125 |
| 17 | MP BETA3 | Y | -.017 | 5.125 |
| 18 | MP BETA3 | Y | -.017 | 1.125 |
| 19 | MP GAMMA3 | Y | -.017 | 5.125 |
| 20 | MP GAMMA3 | Y | -.017 | 1.125 |
| 21 | MP BETA1 | Y | -.015 | 3.958 |
| 22 | MP BETA1 | Y | -.015 | 2.292 |
| 23 | MP GAMMA1 | Y | -.015 | 3.958 |
| 24 | MP GAMMA1 | Y | -.015 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.031 | 6.125 |
| 2 | MP ALPHA2 | Y | -.031 | .125 |
| 3 | MP ALPHA2 | X | -.018 | 6.125 |
| 4 | MP ALPHA2 | X | -.018 | .125 |
| 5 | MP ALPHA3 | Y | -.01 | 5.125 |
| 6 | MP ALPHA3 | Y | -.01 | 1.125 |
| 7 | MP ALPHA3 | X | -.006 | 5.125 |
| 8 | MP ALPHA3 | X | -.006 | 1.125 |
| 9 | MP ALPHA1 | Y | -.009 | 3.958 |
| 10 | MP ALPHA1 | Y | -.009 | 2.292 |
| 11 | MP ALPHA1 | X | -.005 | 3.958 |
| 12 | MP ALPHA1 | X | -.005 | 2.292 |
| 13 | MP ALPHA2 | Y | -.015 | 3.125 |
| 14 | MP ALPHA2 | X | -.009 | 3.125 |
| 15 | MP BETA2 | Y | -.013 | 3.125 |
| 16 | MP BETA2 | X | -.008 | 3.125 |
| 17 | MP GAMMA2 | Y | -.015 | 3.125 |
| 18 | MP GAMMA2 | X | -.009 | 3.125 |
| 19 | MP ALPHA3 | Y | -.019 | 3.125 |
| 20 | MP ALPHA3 | X | -.011 | 3.125 |
| 21 | MP BETA3 | Y | -.016 | 3.125 |
| 22 | MP BETA3 | X | -.009 | 3.125 |
| 23 | MP GAMMA3 | Y | -.019 | 3.125 |
| 24 | MP GAMMA3 | X | -.011 | 3.125 |
| 25 | MP BETA2 | Y | -.033 | 6.125 |
| 26 | MP BETA2 | Y | -.033 | .125 |
| 27 | MP BETA2 | X | -.019 | 6.125 |
| 28 | MP BETA2 | X | -.019 | .125 |
| 29 | MP GAMMA2 | Y | -.059 | 6.125 |
| 30 | MP GAMMA2 | Y | -.059 | .125 |
| 31 | MP GAMMA2 | X | -.034 | 6.125 |
| 32 | MP GAMMA2 | X | -.034 | .125 |
| 33 | MP BETA3 | Y | -.012 | 5.125 |
| 34 | MP BETA3 | Y | -.012 | 1.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 35 | MP BETA3 | X | -.007 | 5.125 |
| 36 | MP BETA3 | X | -.007 | 1.125 |
| 37 | MP GAMMA3 | Y | -.019 | 5.125 |
| 38 | MP GAMMA3 | Y | -.019 | 1.125 |
| 39 | MP GAMMA3 | X | -.011 | 5.125 |
| 40 | MP GAMMA3 | X | -.011 | 1.125 |
| 41 | MP BETA1 | Y | -.01 | 3.958 |
| 42 | MP BETA1 | Y | -.01 | 2.292 |
| 43 | MP BETA1 | X | -.006 | 3.958 |
| 44 | MP BETA1 | X | -.006 | 2.292 |
| 45 | MP GAMMA1 | Y | -.018 | 3.958 |
| 46 | MP GAMMA1 | Y | -.018 | 2.292 |
| 47 | MP GAMMA1 | X | -.01 | 3.958 |
| 48 | MP GAMMA1 | X | -.01 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.014 | 6.125 |
| 2 | MP ALPHA2 | Y | -.014 | .125 |
| 3 | MP ALPHA2 | X | -.025 | 6.125 |
| 4 | MP ALPHA2 | X | -.025 | .125 |
| 5 | MP ALPHA3 | Y | -.005 | 5.125 |
| 6 | MP ALPHA3 | Y | -.005 | 1.125 |
| 7 | MP ALPHA3 | X | -.009 | 5.125 |
| 8 | MP ALPHA3 | X | -.009 | 1.125 |
| 9 | MP ALPHA1 | Y | -.004 | 3.958 |
| 10 | MP ALPHA1 | Y | -.004 | 2.292 |
| 11 | MP ALPHA1 | X | -.008 | 3.958 |
| 12 | MP ALPHA1 | X | -.008 | 2.292 |
| 13 | MP ALPHA2 | Y | -.008 | 3.125 |
| 14 | MP ALPHA2 | X | -.014 | 3.125 |
| 15 | MP BETA2 | Y | -.008 | 3.125 |
| 16 | MP BETA2 | X | -.014 | 3.125 |
| 17 | MP GAMMA2 | Y | -.009 | 3.125 |
| 18 | MP GAMMA2 | X | -.016 | 3.125 |
| 19 | MP ALPHA3 | Y | -.01 | 3.125 |
| 20 | MP ALPHA3 | X | -.017 | 3.125 |
| 21 | MP BETA3 | Y | -.01 | 3.125 |
| 22 | MP BETA3 | X | -.017 | 3.125 |
| 23 | MP GAMMA3 | Y | -.011 | 3.125 |
| 24 | MP GAMMA3 | X | -.02 | 3.125 |
| 25 | MP BETA2 | Y | -.024 | 6.125 |
| 26 | MP BETA2 | Y | -.024 | .125 |
| 27 | MP BETA2 | X | -.042 | 6.125 |
| 28 | MP BETA2 | X | -.042 | .125 |
| 29 | MP GAMMA2 | Y | -.039 | 6.125 |
| 30 | MP GAMMA2 | Y | -.039 | .125 |
| 31 | MP GAMMA2 | X | -.068 | 6.125 |
| 32 | MP GAMMA2 | X | -.068 | .125 |
| 33 | MP BETA3 | Y | -.008 | 5.125 |
| 34 | MP BETA3 | Y | -.008 | 1.125 |
| 35 | MP BETA3 | X | -.014 | 5.125 |
| 36 | MP BETA3 | X | -.014 | 1.125 |
| 37 | MP GAMMA3 | Y | -.013 | 5.125 |
| 38 | MP GAMMA3 | Y | -.013 | 1.125 |
| 39 | MP GAMMA3 | X | -.022 | 5.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 40 | MP GAMMA3 | X | -.022 | 1.125 |
| 41 | MP BETA1 | Y | -.007 | 3.958 |
| 42 | MP BETA1 | Y | -.007 | 2.292 |
| 43 | MP BETA1 | X | -.013 | 3.958 |
| 44 | MP BETA1 | X | -.013 | 2.292 |
| 45 | MP GAMMA1 | Y | -.012 | 3.958 |
| 46 | MP GAMMA1 | Y | -.012 | 2.292 |
| 47 | MP GAMMA1 | X | -.02 | 3.958 |
| 48 | MP GAMMA1 | X | -.02 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | -.052 | 6.125 |
| 2 | MP ALPHA2 | X | -.052 | .125 |
| 3 | MP ALPHA3 | X | -.018 | 5.125 |
| 4 | MP ALPHA3 | X | -.018 | 1.125 |
| 5 | MP ALPHA1 | X | -.016 | 3.958 |
| 6 | MP ALPHA1 | X | -.016 | 2.292 |
| 7 | MP ALPHA2 | X | -.015 | 3.125 |
| 8 | MP BETA2 | X | -.017 | 3.125 |
| 9 | MP GAMMA2 | X | -.017 | 3.125 |
| 10 | MP ALPHA3 | X | -.018 | 3.125 |
| 11 | MP BETA3 | X | -.022 | 3.125 |
| 12 | MP GAMMA3 | X | -.022 | 3.125 |
| 13 | MP BETA2 | X | -.069 | 6.125 |
| 14 | MP BETA2 | X | -.069 | .125 |
| 15 | MP GAMMA2 | X | -.069 | 6.125 |
| 16 | MP GAMMA2 | X | -.069 | .125 |
| 17 | MP BETA3 | X | -.022 | 5.125 |
| 18 | MP BETA3 | X | -.022 | 1.125 |
| 19 | MP GAMMA3 | X | -.022 | 5.125 |
| 20 | MP GAMMA3 | X | -.022 | 1.125 |
| 21 | MP BETA1 | X | -.021 | 3.958 |
| 22 | MP BETA1 | X | -.021 | 2.292 |
| 23 | MP GAMMA1 | X | -.021 | 3.958 |
| 24 | MP GAMMA1 | X | -.021 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .041 | 6.125 |
| 2 | MP ALPHA2 | Y | .041 | .125 |
| 3 | MP ALPHA2 | X | -.07 | 6.125 |
| 4 | MP ALPHA2 | X | -.07 | .125 |
| 5 | MP ALPHA3 | Y | .014 | 5.125 |
| 6 | MP ALPHA3 | Y | .014 | 1.125 |
| 7 | MP ALPHA3 | X | -.024 | 5.125 |
| 8 | MP ALPHA3 | X | -.024 | 1.125 |
| 9 | MP ALPHA1 | Y | .012 | 3.958 |
| 10 | MP ALPHA1 | Y | .012 | 2.292 |
| 11 | MP ALPHA1 | X | -.021 | 3.958 |
| 12 | MP ALPHA1 | X | -.021 | 2.292 |
| 13 | MP ALPHA2 | Y | .008 | 3.125 |
| 14 | MP ALPHA2 | X | -.014 | 3.125 |
| 15 | MP BETA2 | Y | .009 | 3.125 |
| 16 | MP BETA2 | X | -.016 | 3.125 |
| 17 | MP GAMMA2 | Y | .008 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 18 | MP GAMMA2 | X | -.014 | 3.125 |
| 19 | MP ALPHA3 | Y | .01 | 3.125 |
| 20 | MP ALPHA3 | X | -.017 | 3.125 |
| 21 | MP BETA3 | Y | .011 | 3.125 |
| 22 | MP BETA3 | X | -.02 | 3.125 |
| 23 | MP GAMMA3 | Y | .01 | 3.125 |
| 24 | MP GAMMA3 | X | -.017 | 3.125 |
| 25 | MP BETA2 | Y | .039 | 6.125 |
| 26 | MP BETA2 | Y | .039 | .125 |
| 27 | MP BETA2 | X | -.068 | 6.125 |
| 28 | MP BETA2 | X | -.068 | .125 |
| 29 | MP GAMMA2 | Y | .024 | 6.125 |
| 30 | MP GAMMA2 | Y | .024 | .125 |
| 31 | MP GAMMA2 | X | -.042 | 6.125 |
| 32 | MP GAMMA2 | X | -.042 | .125 |
| 33 | MP BETA3 | Y | .013 | 5.125 |
| 34 | MP BETA3 | Y | .013 | 1.125 |
| 35 | MP BETA3 | X | -.022 | 5.125 |
| 36 | MP BETA3 | X | -.022 | 1.125 |
| 37 | MP GAMMA3 | Y | .008 | 5.125 |
| 38 | MP GAMMA3 | Y | .008 | 1.125 |
| 39 | MP GAMMA3 | X | -.014 | 5.125 |
| 40 | MP GAMMA3 | X | -.014 | 1.125 |
| 41 | MP BETA1 | Y | .012 | 3.958 |
| 42 | MP BETA1 | Y | .012 | 2.292 |
| 43 | MP BETA1 | X | -.02 | 3.958 |
| 44 | MP BETA1 | X | -.02 | 2.292 |
| 45 | MP GAMMA1 | Y | .007 | 3.958 |
| 46 | MP GAMMA1 | Y | .007 | 2.292 |
| 47 | MP GAMMA1 | X | -.013 | 3.958 |
| 48 | MP GAMMA1 | X | -.013 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .076 | 6.125 |
| 2 | MP ALPHA2 | Y | .076 | .125 |
| 3 | MP ALPHA2 | X | -.044 | 6.125 |
| 4 | MP ALPHA2 | X | -.044 | .125 |
| 5 | MP ALPHA3 | Y | .025 | 5.125 |
| 6 | MP ALPHA3 | Y | .025 | 1.125 |
| 7 | MP ALPHA3 | X | -.014 | 5.125 |
| 8 | MP ALPHA3 | X | -.014 | 1.125 |
| 9 | MP ALPHA1 | Y | .023 | 3.958 |
| 10 | MP ALPHA1 | Y | .023 | 2.292 |
| 11 | MP ALPHA1 | X | -.013 | 3.958 |
| 12 | MP ALPHA1 | X | -.013 | 2.292 |
| 13 | MP ALPHA2 | Y | .015 | 3.125 |
| 14 | MP ALPHA2 | X | -.009 | 3.125 |
| 15 | MP BETA2 | Y | .015 | 3.125 |
| 16 | MP BETA2 | X | -.009 | 3.125 |
| 17 | MP GAMMA2 | Y | .013 | 3.125 |
| 18 | MP GAMMA2 | X | -.008 | 3.125 |
| 19 | MP ALPHA3 | Y | .019 | 3.125 |
| 20 | MP ALPHA3 | X | -.011 | 3.125 |
| 21 | MP BETA3 | Y | .019 | 3.125 |
| 22 | MP BETA3 | X | -.011 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 23 | MP GAMMA3 | Y | .016 | 3.125 |
| 24 | MP GAMMA3 | X | -.009 | 3.125 |
| 25 | MP BETA2 | Y | .059 | 6.125 |
| 26 | MP BETA2 | Y | .059 | .125 |
| 27 | MP BETA2 | X | -.034 | 6.125 |
| 28 | MP BETA2 | X | -.034 | .125 |
| 29 | MP GAMMA2 | Y | .033 | 6.125 |
| 30 | MP GAMMA2 | Y | .033 | .125 |
| 31 | MP GAMMA2 | X | -.019 | 6.125 |
| 32 | MP GAMMA2 | X | -.019 | .125 |
| 33 | MP BETA3 | Y | .019 | 5.125 |
| 34 | MP BETA3 | Y | .019 | 1.125 |
| 35 | MP BETA3 | X | -.011 | 5.125 |
| 36 | MP BETA3 | X | -.011 | 1.125 |
| 37 | MP GAMMA3 | Y | .012 | 5.125 |
| 38 | MP GAMMA3 | Y | .012 | 1.125 |
| 39 | MP GAMMA3 | X | -.007 | 5.125 |
| 40 | MP GAMMA3 | X | -.007 | 1.125 |
| 41 | MP BETA1 | Y | .018 | 3.958 |
| 42 | MP BETA1 | Y | .018 | 2.292 |
| 43 | MP BETA1 | X | -.01 | 3.958 |
| 44 | MP BETA1 | X | -.01 | 2.292 |
| 45 | MP GAMMA1 | Y | .01 | 3.958 |
| 46 | MP GAMMA1 | Y | .01 | 2.292 |
| 47 | MP GAMMA1 | X | -.006 | 3.958 |
| 48 | MP GAMMA1 | X | -.006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .065 | 6.125 |
| 2 | MP ALPHA2 | Y | .065 | .125 |
| 3 | MP ALPHA3 | Y | .021 | 5.125 |
| 4 | MP ALPHA3 | Y | .021 | 1.125 |
| 5 | MP ALPHA1 | Y | .019 | 3.958 |
| 6 | MP ALPHA1 | Y | .019 | 2.292 |
| 7 | MP ALPHA2 | Y | .018 | 3.125 |
| 8 | MP BETA2 | Y | .016 | 3.125 |
| 9 | MP GAMMA2 | Y | .016 | 3.125 |
| 10 | MP ALPHA3 | Y | .023 | 3.125 |
| 11 | MP BETA3 | Y | .019 | 3.125 |
| 12 | MP GAMMA3 | Y | .019 | 3.125 |
| 13 | MP BETA2 | Y | .048 | 6.125 |
| 14 | MP BETA2 | Y | .048 | .125 |
| 15 | MP GAMMA2 | Y | .048 | 6.125 |
| 16 | MP GAMMA2 | Y | .048 | .125 |
| 17 | MP BETA3 | Y | .017 | 5.125 |
| 18 | MP BETA3 | Y | .017 | 1.125 |
| 19 | MP GAMMA3 | Y | .017 | 5.125 |
| 20 | MP GAMMA3 | Y | .017 | 1.125 |
| 21 | MP BETA1 | Y | .015 | 3.958 |
| 22 | MP BETA1 | Y | .015 | 2.292 |
| 23 | MP GAMMA1 | Y | .015 | 3.958 |
| 24 | MP GAMMA1 | Y | .015 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .031 | 6.125 |
| 2 | MP ALPHA2 | Y | .031 | .125 |
| 3 | MP ALPHA2 | X | .018 | 6.125 |
| 4 | MP ALPHA2 | X | .018 | .125 |
| 5 | MP ALPHA3 | Y | .01 | 5.125 |
| 6 | MP ALPHA3 | Y | .01 | 1.125 |
| 7 | MP ALPHA3 | X | .006 | 5.125 |
| 8 | MP ALPHA3 | X | .006 | 1.125 |
| 9 | MP ALPHA1 | Y | .009 | 3.958 |
| 10 | MP ALPHA1 | Y | .009 | 2.292 |
| 11 | MP ALPHA1 | X | .005 | 3.958 |
| 12 | MP ALPHA1 | X | .005 | 2.292 |
| 13 | MP ALPHA2 | Y | .015 | 3.125 |
| 14 | MP ALPHA2 | X | .009 | 3.125 |
| 15 | MP BETA2 | Y | .013 | 3.125 |
| 16 | MP BETA2 | X | .008 | 3.125 |
| 17 | MP GAMMA2 | Y | .015 | 3.125 |
| 18 | MP GAMMA2 | X | .009 | 3.125 |
| 19 | MP ALPHA3 | Y | .019 | 3.125 |
| 20 | MP ALPHA3 | X | .011 | 3.125 |
| 21 | MP BETA3 | Y | .016 | 3.125 |
| 22 | MP BETA3 | X | .009 | 3.125 |
| 23 | MP GAMMA3 | Y | .019 | 3.125 |
| 24 | MP GAMMA3 | X | .011 | 3.125 |
| 25 | MP BETA2 | Y | .033 | 6.125 |
| 26 | MP BETA2 | Y | .033 | .125 |
| 27 | MP BETA2 | X | .019 | 6.125 |
| 28 | MP BETA2 | X | .019 | .125 |
| 29 | MP GAMMA2 | Y | .059 | 6.125 |
| 30 | MP GAMMA2 | Y | .059 | .125 |
| 31 | MP GAMMA2 | X | .034 | 6.125 |
| 32 | MP GAMMA2 | X | .034 | .125 |
| 33 | MP BETA3 | Y | .012 | 5.125 |
| 34 | MP BETA3 | Y | .012 | 1.125 |
| 35 | MP BETA3 | X | .007 | 5.125 |
| 36 | MP BETA3 | X | .007 | 1.125 |
| 37 | MP GAMMA3 | Y | .019 | 5.125 |
| 38 | MP GAMMA3 | Y | .019 | 1.125 |
| 39 | MP GAMMA3 | X | .011 | 5.125 |
| 40 | MP GAMMA3 | X | .011 | 1.125 |
| 41 | MP BETA1 | Y | .01 | 3.958 |
| 42 | MP BETA1 | Y | .01 | 2.292 |
| 43 | MP BETA1 | X | .006 | 3.958 |
| 44 | MP BETA1 | X | .006 | 2.292 |
| 45 | MP GAMMA1 | Y | .018 | 3.958 |
| 46 | MP GAMMA1 | Y | .018 | 2.292 |
| 47 | MP GAMMA1 | X | .01 | 3.958 |
| 48 | MP GAMMA1 | X | .01 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | .014 | 6.125 |
| 2 | MP ALPHA2 | Y | .014 | .125 |
| 3 | MP ALPHA2 | X | .025 | 6.125 |
| 4 | MP ALPHA2 | X | .025 | .125 |
| 5 | MP ALPHA3 | Y | .005 | 5.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 6 | MP ALPHA3 | Y | .005 | 1.125 |
| 7 | MP ALPHA3 | X | .009 | 5.125 |
| 8 | MP ALPHA3 | X | .009 | 1.125 |
| 9 | MP ALPHA1 | Y | .004 | 3.958 |
| 10 | MP ALPHA1 | Y | .004 | 2.292 |
| 11 | MP ALPHA1 | X | .008 | 3.958 |
| 12 | MP ALPHA1 | X | .008 | 2.292 |
| 13 | MP ALPHA2 | Y | .008 | 3.125 |
| 14 | MP ALPHA2 | X | .014 | 3.125 |
| 15 | MP BETA2 | Y | .008 | 3.125 |
| 16 | MP BETA2 | X | .014 | 3.125 |
| 17 | MP GAMMA2 | Y | .009 | 3.125 |
| 18 | MP GAMMA2 | X | .016 | 3.125 |
| 19 | MP ALPHA3 | Y | .01 | 3.125 |
| 20 | MP ALPHA3 | X | .017 | 3.125 |
| 21 | MP BETA3 | Y | .01 | 3.125 |
| 22 | MP BETA3 | X | .017 | 3.125 |
| 23 | MP GAMMA3 | Y | .011 | 3.125 |
| 24 | MP GAMMA3 | X | .02 | 3.125 |
| 25 | MP BETA2 | Y | .024 | 6.125 |
| 26 | MP BETA2 | Y | .024 | .125 |
| 27 | MP BETA2 | X | .042 | 6.125 |
| 28 | MP BETA2 | X | .042 | .125 |
| 29 | MP GAMMA2 | Y | .039 | 6.125 |
| 30 | MP GAMMA2 | Y | .039 | .125 |
| 31 | MP GAMMA2 | X | .068 | 6.125 |
| 32 | MP GAMMA2 | X | .068 | .125 |
| 33 | MP BETA3 | Y | .008 | 5.125 |
| 34 | MP BETA3 | Y | .008 | 1.125 |
| 35 | MP BETA3 | X | .014 | 5.125 |
| 36 | MP BETA3 | X | .014 | 1.125 |
| 37 | MP GAMMA3 | Y | .013 | 5.125 |
| 38 | MP GAMMA3 | Y | .013 | 1.125 |
| 39 | MP GAMMA3 | X | .022 | 5.125 |
| 40 | MP GAMMA3 | X | .022 | 1.125 |
| 41 | MP BETA1 | Y | .007 | 3.958 |
| 42 | MP BETA1 | Y | .007 | 2.292 |
| 43 | MP BETA1 | X | .013 | 3.958 |
| 44 | MP BETA1 | X | .013 | 2.292 |
| 45 | MP GAMMA1 | Y | .012 | 3.958 |
| 46 | MP GAMMA1 | Y | .012 | 2.292 |
| 47 | MP GAMMA1 | X | .02 | 3.958 |
| 48 | MP GAMMA1 | X | .02 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | .052 | 6.125 |
| 2 | MP ALPHA2 | X | .052 | .125 |
| 3 | MP ALPHA3 | X | .018 | 5.125 |
| 4 | MP ALPHA3 | X | .018 | 1.125 |
| 5 | MP ALPHA1 | X | .016 | 3.958 |
| 6 | MP ALPHA1 | X | .016 | 2.292 |
| 7 | MP ALPHA2 | X | .015 | 3.125 |
| 8 | MP BETA2 | X | .017 | 3.125 |
| 9 | MP GAMMA2 | X | .017 | 3.125 |
| 10 | MP ALPHA3 | X | .018 | 3.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 11 | MP BETA3 | X | .022 | 3.125 |
| 12 | MP GAMMA3 | X | .022 | 3.125 |
| 13 | MP BETA2 | X | .069 | 6.125 |
| 14 | MP BETA2 | X | .069 | .125 |
| 15 | MP GAMMA2 | X | .069 | 6.125 |
| 16 | MP GAMMA2 | X | .069 | .125 |
| 17 | MP BETA3 | X | .022 | 5.125 |
| 18 | MP BETA3 | X | .022 | 1.125 |
| 19 | MP GAMMA3 | X | .022 | 5.125 |
| 20 | MP GAMMA3 | X | .022 | 1.125 |
| 21 | MP BETA1 | X | .021 | 3.958 |
| 22 | MP BETA1 | X | .021 | 2.292 |
| 23 | MP GAMMA1 | X | .021 | 3.958 |
| 24 | MP GAMMA1 | X | .021 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.041 | 6.125 |
| 2 | MP ALPHA2 | Y | -.041 | .125 |
| 3 | MP ALPHA2 | X | .07 | 6.125 |
| 4 | MP ALPHA2 | X | .07 | .125 |
| 5 | MP ALPHA3 | Y | -.014 | 5.125 |
| 6 | MP ALPHA3 | Y | -.014 | 1.125 |
| 7 | MP ALPHA3 | X | .024 | 5.125 |
| 8 | MP ALPHA3 | X | .024 | 1.125 |
| 9 | MP ALPHA1 | Y | -.012 | 3.958 |
| 10 | MP ALPHA1 | Y | -.012 | 2.292 |
| 11 | MP ALPHA1 | X | .021 | 3.958 |
| 12 | MP ALPHA1 | X | .021 | 2.292 |
| 13 | MP ALPHA2 | Y | -.008 | 3.125 |
| 14 | MP ALPHA2 | X | .014 | 3.125 |
| 15 | MP BETA2 | Y | -.009 | 3.125 |
| 16 | MP BETA2 | X | .016 | 3.125 |
| 17 | MP GAMMA2 | Y | -.008 | 3.125 |
| 18 | MP GAMMA2 | X | .014 | 3.125 |
| 19 | MP ALPHA3 | Y | -.01 | 3.125 |
| 20 | MP ALPHA3 | X | .017 | 3.125 |
| 21 | MP BETA3 | Y | -.011 | 3.125 |
| 22 | MP BETA3 | X | .02 | 3.125 |
| 23 | MP GAMMA3 | Y | -.01 | 3.125 |
| 24 | MP GAMMA3 | X | .017 | 3.125 |
| 25 | MP BETA2 | Y | -.039 | 6.125 |
| 26 | MP BETA2 | Y | -.039 | .125 |
| 27 | MP BETA2 | X | .068 | 6.125 |
| 28 | MP BETA2 | X | .068 | .125 |
| 29 | MP GAMMA2 | Y | -.024 | 6.125 |
| 30 | MP GAMMA2 | Y | -.024 | .125 |
| 31 | MP GAMMA2 | X | .042 | 6.125 |
| 32 | MP GAMMA2 | X | .042 | .125 |
| 33 | MP BETA3 | Y | -.013 | 5.125 |
| 34 | MP BETA3 | Y | -.013 | 1.125 |
| 35 | MP BETA3 | X | .022 | 5.125 |
| 36 | MP BETA3 | X | .022 | 1.125 |
| 37 | MP GAMMA3 | Y | -.008 | 5.125 |
| 38 | MP GAMMA3 | Y | -.008 | 1.125 |
| 39 | MP GAMMA3 | X | .014 | 5.125 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 40 | MP GAMMA3 | X | .014 | 1.125 |
| 41 | MP BETA1 | Y | -.012 | 3.958 |
| 42 | MP BETA1 | Y | -.012 | 2.292 |
| 43 | MP BETA1 | X | .02 | 3.958 |
| 44 | MP BETA1 | X | .02 | 2.292 |
| 45 | MP GAMMA1 | Y | -.007 | 3.958 |
| 46 | MP GAMMA1 | Y | -.007 | 2.292 |
| 47 | MP GAMMA1 | X | .013 | 3.958 |
| 48 | MP GAMMA1 | X | .013 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.076 | 6.125 |
| 2 | MP ALPHA2 | Y | -.076 | .125 |
| 3 | MP ALPHA2 | X | .044 | 6.125 |
| 4 | MP ALPHA2 | X | .044 | .125 |
| 5 | MP ALPHA3 | Y | -.025 | 5.125 |
| 6 | MP ALPHA3 | Y | -.025 | 1.125 |
| 7 | MP ALPHA3 | X | .014 | 5.125 |
| 8 | MP ALPHA3 | X | .014 | 1.125 |
| 9 | MP ALPHA1 | Y | -.023 | 3.958 |
| 10 | MP ALPHA1 | Y | -.023 | 2.292 |
| 11 | MP ALPHA1 | X | .013 | 3.958 |
| 12 | MP ALPHA1 | X | .013 | 2.292 |
| 13 | MP ALPHA2 | Y | -.015 | 3.125 |
| 14 | MP ALPHA2 | X | .009 | 3.125 |
| 15 | MP BETA2 | Y | -.015 | 3.125 |
| 16 | MP BETA2 | X | .009 | 3.125 |
| 17 | MP GAMMA2 | Y | -.013 | 3.125 |
| 18 | MP GAMMA2 | X | .008 | 3.125 |
| 19 | MP ALPHA3 | Y | -.019 | 3.125 |
| 20 | MP ALPHA3 | X | .011 | 3.125 |
| 21 | MP BETA3 | Y | -.019 | 3.125 |
| 22 | MP BETA3 | X | .011 | 3.125 |
| 23 | MP GAMMA3 | Y | -.016 | 3.125 |
| 24 | MP GAMMA3 | X | .009 | 3.125 |
| 25 | MP BETA2 | Y | -.059 | 6.125 |
| 26 | MP BETA2 | Y | -.059 | .125 |
| 27 | MP BETA2 | X | .034 | 6.125 |
| 28 | MP BETA2 | X | .034 | .125 |
| 29 | MP GAMMA2 | Y | -.033 | 6.125 |
| 30 | MP GAMMA2 | Y | -.033 | .125 |
| 31 | MP GAMMA2 | X | .019 | 6.125 |
| 32 | MP GAMMA2 | X | .019 | .125 |
| 33 | MP BETA3 | Y | -.019 | 5.125 |
| 34 | MP BETA3 | Y | -.019 | 1.125 |
| 35 | MP BETA3 | X | .011 | 5.125 |
| 36 | MP BETA3 | X | .011 | 1.125 |
| 37 | MP GAMMA3 | Y | -.012 | 5.125 |
| 38 | MP GAMMA3 | Y | -.012 | 1.125 |
| 39 | MP GAMMA3 | X | .007 | 5.125 |
| 40 | MP GAMMA3 | X | .007 | 1.125 |
| 41 | MP BETA1 | Y | -.018 | 3.958 |
| 42 | MP BETA1 | Y | -.018 | 2.292 |
| 43 | MP BETA1 | X | .01 | 3.958 |
| 44 | MP BETA1 | X | .01 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 45 | MP GAMMA1 | Y | -.01 | 3.958 |
| 46 | MP GAMMA1 | Y | -.01 | 2.292 |
| 47 | MP GAMMA1 | X | .006 | 3.958 |
| 48 | MP GAMMA1 | X | .006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | X | -.007 | 6.125 |
| 2 | MP ALPHA2 | X | -.007 | .125 |
| 3 | MP ALPHA3 | X | -.001 | 5.125 |
| 4 | MP ALPHA3 | X | -.001 | 1.125 |
| 5 | MP ALPHA1 | X | -.006 | 3.958 |
| 6 | MP ALPHA1 | X | -.006 | 2.292 |
| 7 | MP ALPHA2 | X | -.005 | 3.125 |
| 8 | MP BETA2 | X | -.005 | 3.125 |
| 9 | MP GAMMA2 | X | -.005 | 3.125 |
| 10 | MP ALPHA3 | X | -.012 | 3.125 |
| 11 | MP BETA3 | X | -.012 | 3.125 |
| 12 | MP GAMMA3 | X | -.012 | 3.125 |
| 13 | MP BETA2 | X | -.007 | 6.125 |
| 14 | MP BETA2 | X | -.007 | .125 |
| 15 | MP GAMMA2 | X | -.007 | 6.125 |
| 16 | MP GAMMA2 | X | -.007 | .125 |
| 17 | MP BETA3 | X | -.001 | 5.125 |
| 18 | MP BETA3 | X | -.001 | 1.125 |
| 19 | MP GAMMA3 | X | -.001 | 5.125 |
| 20 | MP GAMMA3 | X | -.001 | 1.125 |
| 21 | MP BETA1 | X | -.006 | 3.958 |
| 22 | MP BETA1 | X | -.006 | 2.292 |
| 23 | MP GAMMA1 | X | -.006 | 3.958 |
| 24 | MP GAMMA1 | X | -.006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Y | -.007 | 6.125 |
| 2 | MP ALPHA2 | Y | -.007 | .125 |
| 3 | MP ALPHA3 | Y | -.001 | 5.125 |
| 4 | MP ALPHA3 | Y | -.001 | 1.125 |
| 5 | MP ALPHA1 | Y | -.006 | 3.958 |
| 6 | MP ALPHA1 | Y | -.006 | 2.292 |
| 7 | MP ALPHA2 | Y | -.005 | 3.125 |
| 8 | MP BETA2 | Y | -.005 | 3.125 |
| 9 | MP GAMMA2 | Y | -.005 | 3.125 |
| 10 | MP ALPHA3 | Y | -.012 | 3.125 |
| 11 | MP BETA3 | Y | -.012 | 3.125 |
| 12 | MP GAMMA3 | Y | -.012 | 3.125 |
| 13 | MP BETA2 | Y | -.007 | 6.125 |
| 14 | MP BETA2 | Y | -.007 | .125 |
| 15 | MP GAMMA2 | Y | -.007 | 6.125 |
| 16 | MP GAMMA2 | Y | -.007 | .125 |
| 17 | MP BETA3 | Y | -.001 | 5.125 |
| 18 | MP BETA3 | Y | -.001 | 1.125 |
| 19 | MP GAMMA3 | Y | -.001 | 5.125 |
| 20 | MP GAMMA3 | Y | -.001 | 1.125 |
| 21 | MP BETA1 | Y | -.006 | 3.958 |
| 22 | MP BETA1 | Y | -.006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 23 | MP GAMMA1 | Y | -.006 | 3.958 |
| 24 | MP GAMMA1 | Y | -.006 | 2.292 |

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

| | Member Label | Direction | Magnitude[k,k-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP ALPHA2 | Z | -.003 | 6.125 |
| 2 | MP ALPHA2 | Z | -.003 | .125 |
| 3 | MP ALPHA3 | Z | -.000518 | 5.125 |
| 4 | MP ALPHA3 | Z | -.000518 | 1.125 |
| 5 | MP ALPHA1 | Z | -.002 | 3.958 |
| 6 | MP ALPHA1 | Z | -.002 | 2.292 |
| 7 | MP ALPHA2 | Z | -.002 | 3.125 |
| 8 | MP BETA2 | Z | -.002 | 3.125 |
| 9 | MP GAMMA2 | Z | -.002 | 3.125 |
| 10 | MP ALPHA3 | Z | -.005 | 3.125 |
| 11 | MP BETA3 | Z | -.005 | 3.125 |
| 12 | MP GAMMA3 | Z | -.005 | 3.125 |
| 13 | MP BETA2 | Z | -.003 | 6.125 |
| 14 | MP BETA2 | Z | -.003 | .125 |
| 15 | MP GAMMA2 | Z | -.003 | 6.125 |
| 16 | MP GAMMA2 | Z | -.003 | .125 |
| 17 | MP BETA3 | Z | -.000518 | 5.125 |
| 18 | MP BETA3 | Z | -.000518 | 1.125 |
| 19 | MP GAMMA3 | Z | -.000518 | 5.125 |
| 20 | MP GAMMA3 | Z | -.000518 | 1.125 |
| 21 | MP BETA1 | Z | -.002 | 3.958 |
| 22 | MP BETA1 | Z | -.002 | 2.292 |
| 23 | MP GAMMA1 | Z | -.002 | 3.958 |
| 24 | MP GAMMA1 | Z | -.002 | 2.292 |

## 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 | SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PY | -.011 | -.011 | 0 | 0 |
| 5 | SO2 | PY | -.011 | -.011 | 0 | 0 |
| 6 | SO1 | PY | -.011 | -.011 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.001 | -.001 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.001 | -.001 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.001 | -.001 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.009 | -.009 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.009 | -.009 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.009 | -.009 | 0 | 0 |
| 16 | MP BETA3 | PY | -.009 | -.009 | 0 | 0 |
| 17 | MP BETA2 | PY | -.009 | -.009 | 0 | 0 |
| 18 | MP BETA1 | PY | -.009 | -.009 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.009 | -.009 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.009 | -.009 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.009 | -.009 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.007 | -.007 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.007 | -.007 | 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,%] |
|---|---|---|---|---|---|---|
| 24 | G SUPPORT7 | PY | -.007 | -.007 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.007 | -.007 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.007 | -.007 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.007 | -.007 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.007 | -.007 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.007 | -.007 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.007 | -.007 | 0 | 0 |
| 31 | FACE6 | PY | -.009 | -.009 | 0 | 0 |
| 32 | FACE5 | PY | -.009 | -.009 | 0 | 0 |
| 33 | FACE4 | PY | -.009 | -.009 | 0 | 0 |
| 34 | FACE3 | PY | -.009 | -.009 | 0 | 0 |
| 35 | FACE2 | PY | -.009 | -.009 | 0 | 0 |
| 36 | FACE1 | PY | -.009 | -.009 | 0 | 0 |
| 37 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PY | -.011 | -.011 | 0 | 0 |
| 41 | MSTAB1 | PY | -.011 | -.011 | 0 | 0 |
| 42 | MSTAB6 | PY | -.011 | -.011 | 0 | 0 |
| 43 | MSTAB5 | PY | -.011 | -.011 | 0 | 0 |
| 44 | MSTAB4 | PY | -.011 | -.011 | 0 | 0 |
| 45 | MSTAB3 | PY | -.011 | -.011 | 0 | 0 |
| 46 | MRAIL1 | PY | -.006 | -.006 | 0 | 0 |
| 47 | MRAIL2 | PY | -.006 | -.006 | 0 | 0 |
| 48 | MRAIL3 | PY | -.006 | -.006 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.011 | -.011 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.011 | -.011 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.011 | -.011 | 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 | SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PY | -.01 | -.01 | 0 | 0 |
| 5 | SO2 | PY | -.01 | -.01 | 0 | 0 |
| 6 | SO1 | PY | -.01 | -.01 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.001 | -.001 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.001 | -.001 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.001 | -.001 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.008 | -.008 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.008 | -.008 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.008 | -.008 | 0 | 0 |
| 16 | MP BETA3 | PY | -.008 | -.008 | 0 | 0 |
| 17 | MP BETA2 | PY | -.008 | -.008 | 0 | 0 |
| 18 | MP BETA1 | PY | -.008 | -.008 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.008 | -.008 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.008 | -.008 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.008 | -.008 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.006 | -.006 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.006 | -.006 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.006 | -.006 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.006 | -.006 | 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,%] |
|---|---|---|---|---|---|---|
| 26 | G SUPPORT5 | PY | -.006 | -.006 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.006 | -.006 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.006 | -.006 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.006 | -.006 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.006 | -.006 | 0 | 0 |
| 31 | FACE6 | PY | -.008 | -.008 | 0 | 0 |
| 32 | FACE5 | PY | -.008 | -.008 | 0 | 0 |
| 33 | FACE4 | PY | -.008 | -.008 | 0 | 0 |
| 34 | FACE3 | PY | -.008 | -.008 | 0 | 0 |
| 35 | FACE2 | PY | -.008 | -.008 | 0 | 0 |
| 36 | FACE1 | PY | -.008 | -.008 | 0 | 0 |
| 37 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PY | -.01 | -.01 | 0 | 0 |
| 41 | MSTAB1 | PY | -.01 | -.01 | 0 | 0 |
| 42 | MSTAB6 | PY | -.01 | -.01 | 0 | 0 |
| 43 | MSTAB5 | PY | -.01 | -.01 | 0 | 0 |
| 44 | MSTAB4 | PY | -.01 | -.01 | 0 | 0 |
| 45 | MSTAB3 | PY | -.01 | -.01 | 0 | 0 |
| 46 | MRAIL1 | PY | -.005 | -.005 | 0 | 0 |
| 47 | MRAIL2 | PY | -.005 | -.005 | 0 | 0 |
| 48 | MRAIL3 | PY | -.005 | -.005 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.01 | -.01 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.01 | -.01 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.01 | -.01 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.000885 | -.000885 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.000885 | -.000885 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.000885 | -.000885 | 0 | 0 |
| 55 | SO3 | PX | -.006 | -.006 | 0 | 0 |
| 56 | SO2 | PX | -.006 | -.006 | 0 | 0 |
| 57 | SO1 | PX | -.006 | -.006 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.000664 | -.000664 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.000664 | -.000664 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.000664 | -.000664 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.000664 | -.000664 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.000664 | -.000664 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.000664 | -.000664 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.005 | -.005 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.005 | -.005 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.005 | -.005 | 0 | 0 |
| 67 | MP BETA3 | PX | -.005 | -.005 | 0 | 0 |
| 68 | MP BETA2 | PX | -.005 | -.005 | 0 | 0 |
| 69 | MP BETA1 | PX | -.005 | -.005 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.005 | -.005 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.005 | -.005 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.005 | -.005 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.003 | -.003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.003 | -.003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.003 | -.003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.003 | -.003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.003 | -.003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.003 | -.003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.003 | -.003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.003 | -.003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.003 | -.003 | 0 | 0 |
| 82 | FACE6 | PX | -.005 | -.005 | 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,%] |
|---|---|---|---|---|---|---|
| 83 | FACE5 | PX | -.005 | -.005 | 0 | 0 |
| 84 | FACE4 | PX | -.005 | -.005 | 0 | 0 |
| 85 | FACE3 | PX | -.005 | -.005 | 0 | 0 |
| 86 | FACE2 | PX | -.005 | -.005 | 0 | 0 |
| 87 | FACE1 | PX | -.005 | -.005 | 0 | 0 |
| 88 | CORNER3 | PX | -.000885 | -.000885 | 0 | 0 |
| 89 | CORNER2 | PX | -.000885 | -.000885 | 0 | 0 |
| 90 | CORNER1 | PX | -.000885 | -.000885 | 0 | 0 |
| 91 | MSTAB2 | PX | -.006 | -.006 | 0 | 0 |
| 92 | MSTAB1 | PX | -.006 | -.006 | 0 | 0 |
| 93 | MSTAB6 | PX | -.006 | -.006 | 0 | 0 |
| 94 | MSTAB5 | PX | -.006 | -.006 | 0 | 0 |
| 95 | MSTAB4 | PX | -.006 | -.006 | 0 | 0 |
| 96 | MSTAB3 | PX | -.006 | -.006 | 0 | 0 |
| 97 | MRAIL1 | PX | -.003 | -.003 | 0 | 0 |
| 98 | MRAIL2 | PX | -.003 | -.003 | 0 | 0 |
| 99 | MRAIL3 | PX | -.003 | -.003 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.006 | -.006 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.006 | -.006 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.006 | -.006 | 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 | SUPPORT3 | PY | -.000885 | -.000885 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.000885 | -.000885 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.000885 | -.000885 | 0 | 0 |
| 4 | SO3 | PY | -.006 | -.006 | 0 | 0 |
| 5 | SO2 | PY | -.006 | -.006 | 0 | 0 |
| 6 | SO1 | PY | -.006 | -.006 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.000664 | -.000664 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.000664 | -.000664 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.000664 | -.000664 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.000664 | -.000664 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.000664 | -.000664 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.000664 | -.000664 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.005 | -.005 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.005 | -.005 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.005 | -.005 | 0 | 0 |
| 16 | MP BETA3 | PY | -.005 | -.005 | 0 | 0 |
| 17 | MP BETA2 | PY | -.005 | -.005 | 0 | 0 |
| 18 | MP BETA1 | PY | -.005 | -.005 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.005 | -.005 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.005 | -.005 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.005 | -.005 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.003 | -.003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.003 | -.003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.003 | -.003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.003 | -.003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.003 | -.003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.003 | -.003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.003 | -.003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | FACE6 | PY | -.005 | -.005 | 0 | 0 |
| 32 | FACE5 | PY | -.005 | -.005 | 0 | 0 |
| 33 | FACE4 | PY | -.005 | -.005 | 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,%] |
|---|---|---|---|---|---|---|
| 34 | FACE3 | PY | -.005 | -.005 | 0 | 0 |
| 35 | FACE2 | PY | -.005 | -.005 | 0 | 0 |
| 36 | FACE1 | PY | -.005 | -.005 | 0 | 0 |
| 37 | CORNER3 | PY | -.000885 | -.000885 | 0 | 0 |
| 38 | CORNER2 | PY | -.000885 | -.000885 | 0 | 0 |
| 39 | CORNER1 | PY | -.000885 | -.000885 | 0 | 0 |
| 40 | MSTAB2 | PY | -.006 | -.006 | 0 | 0 |
| 41 | MSTAB1 | PY | -.006 | -.006 | 0 | 0 |
| 42 | MSTAB6 | PY | -.006 | -.006 | 0 | 0 |
| 43 | MSTAB5 | PY | -.006 | -.006 | 0 | 0 |
| 44 | MSTAB4 | PY | -.006 | -.006 | 0 | 0 |
| 45 | MSTAB3 | PY | -.006 | -.006 | 0 | 0 |
| 46 | MRAIL1 | PY | -.003 | -.003 | 0 | 0 |
| 47 | MRAIL2 | PY | -.003 | -.003 | 0 | 0 |
| 48 | MRAIL3 | PY | -.003 | -.003 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.006 | -.006 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.006 | -.006 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.006 | -.006 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 55 | SO3 | PX | -.01 | -.01 | 0 | 0 |
| 56 | SO2 | PX | -.01 | -.01 | 0 | 0 |
| 57 | SO1 | PX | -.01 | -.01 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.001 | -.001 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.001 | -.001 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.001 | -.001 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.008 | -.008 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.008 | -.008 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.008 | -.008 | 0 | 0 |
| 67 | MP BETA3 | PX | -.008 | -.008 | 0 | 0 |
| 68 | MP BETA2 | PX | -.008 | -.008 | 0 | 0 |
| 69 | MP BETA1 | PX | -.008 | -.008 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.008 | -.008 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.008 | -.008 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.008 | -.008 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.006 | -.006 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.006 | -.006 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.006 | -.006 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.006 | -.006 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.006 | -.006 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.006 | -.006 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.006 | -.006 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.006 | -.006 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.006 | -.006 | 0 | 0 |
| 82 | FACE6 | PX | -.008 | -.008 | 0 | 0 |
| 83 | FACE5 | PX | -.008 | -.008 | 0 | 0 |
| 84 | FACE4 | PX | -.008 | -.008 | 0 | 0 |
| 85 | FACE3 | PX | -.008 | -.008 | 0 | 0 |
| 86 | FACE2 | PX | -.008 | -.008 | 0 | 0 |
| 87 | FACE1 | PX | -.008 | -.008 | 0 | 0 |
| 88 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 89 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 90 | CORNER1 | PX | -.002 | -.002 | 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,%] |
|---|---|---|---|---|---|---|
| 91 | MSTAB2 | PX | -.01 | -.01 | 0 | 0 |
| 92 | MSTAB1 | PX | -.01 | -.01 | 0 | 0 |
| 93 | MSTAB6 | PX | -.01 | -.01 | 0 | 0 |
| 94 | MSTAB5 | PX | -.01 | -.01 | 0 | 0 |
| 95 | MSTAB4 | PX | -.01 | -.01 | 0 | 0 |
| 96 | MSTAB3 | PX | -.01 | -.01 | 0 | 0 |
| 97 | MRAIL1 | PX | -.005 | -.005 | 0 | 0 |
| 98 | MRAIL2 | PX | -.005 | -.005 | 0 | 0 |
| 99 | MRAIL3 | PX | -.005 | -.005 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.01 | -.01 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.01 | -.01 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.01 | -.01 | 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 | SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PX | -.011 | -.011 | 0 | 0 |
| 5 | SO2 | PX | -.011 | -.011 | 0 | 0 |
| 6 | SO1 | PX | -.011 | -.011 | 0 | 0 |
| 7 | P SUPPORT6 | PX | -.001 | -.001 | 0 | 0 |
| 8 | P SUPPORT5 | PX | -.001 | -.001 | 0 | 0 |
| 9 | P SUPPORT4 | PX | -.001 | -.001 | 0 | 0 |
| 10 | P SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 11 | P SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 12 | P SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 13 | MP GAMMA3 | PX | -.009 | -.009 | 0 | 0 |
| 14 | MP GAMMA2 | PX | -.009 | -.009 | 0 | 0 |
| 15 | MP GAMMA1 | PX | -.009 | -.009 | 0 | 0 |
| 16 | MP BETA3 | PX | -.009 | -.009 | 0 | 0 |
| 17 | MP BETA2 | PX | -.009 | -.009 | 0 | 0 |
| 18 | MP BETA1 | PX | -.009 | -.009 | 0 | 0 |
| 19 | MP ALPHA3 | PX | -.009 | -.009 | 0 | 0 |
| 20 | MP ALPHA2 | PX | -.009 | -.009 | 0 | 0 |
| 21 | MP ALPHA1 | PX | -.009 | -.009 | 0 | 0 |
| 22 | G SUPPORT9 | PX | -.007 | -.007 | 0 | 0 |
| 23 | G SUPPORT8 | PX | -.007 | -.007 | 0 | 0 |
| 24 | G SUPPORT7 | PX | -.007 | -.007 | 0 | 0 |
| 25 | G SUPPORT6 | PX | -.007 | -.007 | 0 | 0 |
| 26 | G SUPPORT5 | PX | -.007 | -.007 | 0 | 0 |
| 27 | G SUPPORT4 | PX | -.007 | -.007 | 0 | 0 |
| 28 | G SUPPORT3 | PX | -.007 | -.007 | 0 | 0 |
| 29 | G SUPPORT2 | PX | -.007 | -.007 | 0 | 0 |
| 30 | G SUPPORT1 | PX | -.007 | -.007 | 0 | 0 |
| 31 | FACE6 | PX | -.009 | -.009 | 0 | 0 |
| 32 | FACE5 | PX | -.009 | -.009 | 0 | 0 |
| 33 | FACE2 | PX | -.009 | -.009 | 0 | 0 |
| 34 | FACE1 | PX | -.009 | -.009 | 0 | 0 |
| 35 | FACE4 | PX | -.009 | -.009 | 0 | 0 |
| 36 | FACE3 | PX | -.009 | -.009 | 0 | 0 |
| 37 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PX | -.011 | -.011 | 0 | 0 |
| 41 | MSTAB1 | PX | -.011 | -.011 | 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,%] |
|---|---|---|---|---|---|---|
| 42 | MSTAB6 | PX | -.011 | -.011 | 0 | 0 |
| 43 | MSTAB5 | PX | -.011 | -.011 | 0 | 0 |
| 44 | MSTAB4 | PX | -.011 | -.011 | 0 | 0 |
| 45 | MSTAB3 | PX | -.011 | -.011 | 0 | 0 |
| 46 | MRAIL2 | PX | -.006 | -.006 | 0 | 0 |
| 47 | MRAIL1 | PX | -.006 | -.006 | 0 | 0 |
| 48 | MRAIL3 | PX | -.006 | -.006 | 0 | 0 |
| 49 | MRCORNER1 | PX | -.011 | -.011 | 0 | 0 |
| 50 | MRCORNER3 | PX | -.011 | -.011 | 0 | 0 |
| 51 | MRCORNER2 | PX | -.011 | -.011 | 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 | SUPPORT3 | PY | .000885 | .000885 | 0 | 0 |
| 2 | SUPPORT2 | PY | .000885 | .000885 | 0 | 0 |
| 3 | SUPPORT1 | PY | .000885 | .000885 | 0 | 0 |
| 4 | SO3 | PY | .006 | .006 | 0 | 0 |
| 5 | SO2 | PY | .006 | .006 | 0 | 0 |
| 6 | SO1 | PY | .006 | .006 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .000664 | .000664 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .000664 | .000664 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .000664 | .000664 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .000664 | .000664 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .000664 | .000664 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .000664 | .000664 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .005 | .005 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .005 | .005 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .005 | .005 | 0 | 0 |
| 16 | MP BETA3 | PY | .005 | .005 | 0 | 0 |
| 17 | MP BETA2 | PY | .005 | .005 | 0 | 0 |
| 18 | MP BETA1 | PY | .005 | .005 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .005 | .005 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .005 | .005 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .005 | .005 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .003 | .003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .003 | .003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .003 | .003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .003 | .003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .003 | .003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .003 | .003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .003 | .003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .003 | .003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .003 | .003 | 0 | 0 |
| 31 | FACE6 | PY | .005 | .005 | 0 | 0 |
| 32 | FACE5 | PY | .005 | .005 | 0 | 0 |
| 33 | FACE2 | PY | .005 | .005 | 0 | 0 |
| 34 | FACE1 | PY | .005 | .005 | 0 | 0 |
| 35 | FACE4 | PY | .005 | .005 | 0 | 0 |
| 36 | FACE3 | PY | .005 | .005 | 0 | 0 |
| 37 | CORNER3 | PY | .000885 | .000885 | 0 | 0 |
| 38 | CORNER2 | PY | .000885 | .000885 | 0 | 0 |
| 39 | CORNER1 | PY | .000885 | .000885 | 0 | 0 |
| 40 | MSTAB2 | PY | .006 | .006 | 0 | 0 |
| 41 | MSTAB1 | PY | .006 | .006 | 0 | 0 |
| 42 | MSTAB6 | PY | .006 | .006 | 0 | 0 |
| 43 | MSTAB5 | PY | .006 | .006 | 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,%] |
|---|---|---|---|---|---|---|
| 44 | MSTAB4 | PY | .006 | .006 | 0 | 0 |
| 45 | MSTAB3 | PY | .006 | .006 | 0 | 0 |
| 46 | MRAIL2 | PY | .003 | .003 | 0 | 0 |
| 47 | MRAIL1 | PY | .003 | .003 | 0 | 0 |
| 48 | MRAIL3 | PY | .003 | .003 | 0 | 0 |
| 49 | MRCORNER1 | PY | .006 | .006 | 0 | 0 |
| 50 | MRCORNER3 | PY | .006 | .006 | 0 | 0 |
| 51 | MRCORNER2 | PY | .006 | .006 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 55 | SO3 | PX | -.01 | -.01 | 0 | 0 |
| 56 | SO2 | PX | -.01 | -.01 | 0 | 0 |
| 57 | SO1 | PX | -.01 | -.01 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.001 | -.001 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.001 | -.001 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.001 | -.001 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.008 | -.008 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.008 | -.008 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.008 | -.008 | 0 | 0 |
| 67 | MP BETA3 | PX | -.008 | -.008 | 0 | 0 |
| 68 | MP BETA2 | PX | -.008 | -.008 | 0 | 0 |
| 69 | MP BETA1 | PX | -.008 | -.008 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.008 | -.008 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.008 | -.008 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.008 | -.008 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.006 | -.006 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.006 | -.006 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.006 | -.006 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.006 | -.006 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.006 | -.006 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.006 | -.006 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.006 | -.006 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.006 | -.006 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.006 | -.006 | 0 | 0 |
| 82 | FACE6 | PX | -.008 | -.008 | 0 | 0 |
| 83 | FACE5 | PX | -.008 | -.008 | 0 | 0 |
| 84 | FACE2 | PX | -.008 | -.008 | 0 | 0 |
| 85 | FACE1 | PX | -.008 | -.008 | 0 | 0 |
| 86 | FACE4 | PX | -.008 | -.008 | 0 | 0 |
| 87 | FACE3 | PX | -.008 | -.008 | 0 | 0 |
| 88 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 89 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 90 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 91 | MSTAB2 | PX | -.01 | -.01 | 0 | 0 |
| 92 | MSTAB1 | PX | -.01 | -.01 | 0 | 0 |
| 93 | MSTAB6 | PX | -.01 | -.01 | 0 | 0 |
| 94 | MSTAB5 | PX | -.01 | -.01 | 0 | 0 |
| 95 | MSTAB4 | PX | -.01 | -.01 | 0 | 0 |
| 96 | MSTAB3 | PX | -.01 | -.01 | 0 | 0 |
| 97 | MRAIL2 | PX | -.005 | -.005 | 0 | 0 |
| 98 | MRAIL1 | PX | -.005 | -.005 | 0 | 0 |
| 99 | MRAIL3 | PX | -.005 | -.005 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.01 | -.01 | 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,%] |
|---|---|---|---|---|---|---|
| 101 | MRCORNER3 | PX | -.01 | -.01 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.01 | -.01 | 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 | SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 4 | SO3 | PY | .01 | .01 | 0 | 0 |
| 5 | SO2 | PY | .01 | .01 | 0 | 0 |
| 6 | SO1 | PY | .01 | .01 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .001 | .001 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .001 | .001 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .001 | .001 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .008 | .008 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .008 | .008 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .008 | .008 | 0 | 0 |
| 16 | MP BETA3 | PY | .008 | .008 | 0 | 0 |
| 17 | MP BETA2 | PY | .008 | .008 | 0 | 0 |
| 18 | MP BETA1 | PY | .008 | .008 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .008 | .008 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .008 | .008 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .008 | .008 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .006 | .006 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .006 | .006 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .006 | .006 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .006 | .006 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .006 | .006 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .006 | .006 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .006 | .006 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .006 | .006 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .006 | .006 | 0 | 0 |
| 31 | FACE6 | PY | .008 | .008 | 0 | 0 |
| 32 | FACE5 | PY | .008 | .008 | 0 | 0 |
| 33 | FACE2 | PY | .008 | .008 | 0 | 0 |
| 34 | FACE1 | PY | .008 | .008 | 0 | 0 |
| 35 | FACE4 | PY | .008 | .008 | 0 | 0 |
| 36 | FACE3 | PY | .008 | .008 | 0 | 0 |
| 37 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PY | .01 | .01 | 0 | 0 |
| 41 | MSTAB1 | PY | .01 | .01 | 0 | 0 |
| 42 | MSTAB6 | PY | .01 | .01 | 0 | 0 |
| 43 | MSTAB5 | PY | .01 | .01 | 0 | 0 |
| 44 | MSTAB4 | PY | .01 | .01 | 0 | 0 |
| 45 | MSTAB3 | PY | .01 | .01 | 0 | 0 |
| 46 | MRAIL2 | PY | .005 | .005 | 0 | 0 |
| 47 | MRAIL1 | PY | .005 | .005 | 0 | 0 |
| 48 | MRAIL3 | PY | .005 | .005 | 0 | 0 |
| 49 | MRCORNER1 | PY | .01 | .01 | 0 | 0 |
| 50 | MRCORNER3 | PY | .01 | .01 | 0 | 0 |
| 51 | MRCORNER2 | PY | .01 | .01 | 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,%] |
|---|---|---|---|---|---|---|
| 52 | SUPPORT3 | PX | -.000885 | -.000885 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.000885 | -.000885 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.000885 | -.000885 | 0 | 0 |
| 55 | SO3 | PX | -.006 | -.006 | 0 | 0 |
| 56 | SO2 | PX | -.006 | -.006 | 0 | 0 |
| 57 | SO1 | PX | -.006 | -.006 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.000664 | -.000664 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.000664 | -.000664 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.000664 | -.000664 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.000664 | -.000664 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.000664 | -.000664 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.000664 | -.000664 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.005 | -.005 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.005 | -.005 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.005 | -.005 | 0 | 0 |
| 67 | MP BETA3 | PX | -.005 | -.005 | 0 | 0 |
| 68 | MP BETA2 | PX | -.005 | -.005 | 0 | 0 |
| 69 | MP BETA1 | PX | -.005 | -.005 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.005 | -.005 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.005 | -.005 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.005 | -.005 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.003 | -.003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.003 | -.003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.003 | -.003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.003 | -.003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.003 | -.003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.003 | -.003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.003 | -.003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.003 | -.003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.003 | -.003 | 0 | 0 |
| 82 | FACE6 | PX | -.005 | -.005 | 0 | 0 |
| 83 | FACE5 | PX | -.005 | -.005 | 0 | 0 |
| 84 | FACE2 | PX | -.005 | -.005 | 0 | 0 |
| 85 | FACE1 | PX | -.005 | -.005 | 0 | 0 |
| 86 | FACE4 | PX | -.005 | -.005 | 0 | 0 |
| 87 | FACE3 | PX | -.005 | -.005 | 0 | 0 |
| 88 | CORNER3 | PX | -.000885 | -.000885 | 0 | 0 |
| 89 | CORNER2 | PX | -.000885 | -.000885 | 0 | 0 |
| 90 | CORNER1 | PX | -.000885 | -.000885 | 0 | 0 |
| 91 | MSTAB2 | PX | -.006 | -.006 | 0 | 0 |
| 92 | MSTAB1 | PX | -.006 | -.006 | 0 | 0 |
| 93 | MSTAB6 | PX | -.006 | -.006 | 0 | 0 |
| 94 | MSTAB5 | PX | -.006 | -.006 | 0 | 0 |
| 95 | MSTAB4 | PX | -.006 | -.006 | 0 | 0 |
| 96 | MSTAB3 | PX | -.006 | -.006 | 0 | 0 |
| 97 | MRAIL2 | PX | -.003 | -.003 | 0 | 0 |
| 98 | MRAIL1 | PX | -.003 | -.003 | 0 | 0 |
| 99 | MRAIL3 | PX | -.003 | -.003 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.006 | -.006 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.006 | -.006 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.006 | -.006 | 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 | SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PY | .002 | .002 | 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,%] |
|---|---|---|---|---|---|---|
| 3 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 4 | SO3 | PY | .011 | .011 | 0 | 0 |
| 5 | SO2 | PY | .011 | .011 | 0 | 0 |
| 6 | SO1 | PY | .011 | .011 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .001 | .001 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .001 | .001 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .001 | .001 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .009 | .009 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .009 | .009 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .009 | .009 | 0 | 0 |
| 16 | MP BETA3 | PY | .009 | .009 | 0 | 0 |
| 17 | MP BETA2 | PY | .009 | .009 | 0 | 0 |
| 18 | MP BETA1 | PY | .009 | .009 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .009 | .009 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .009 | .009 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .009 | .009 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .007 | .007 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .007 | .007 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .007 | .007 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .007 | .007 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .007 | .007 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .007 | .007 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .007 | .007 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .007 | .007 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .007 | .007 | 0 | 0 |
| 31 | FACE6 | PY | .009 | .009 | 0 | 0 |
| 32 | FACE5 | PY | .009 | .009 | 0 | 0 |
| 33 | FACE2 | PY | .009 | .009 | 0 | 0 |
| 34 | FACE1 | PY | .009 | .009 | 0 | 0 |
| 35 | FACE4 | PY | .009 | .009 | 0 | 0 |
| 36 | FACE3 | PY | .009 | .009 | 0 | 0 |
| 37 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PY | .011 | .011 | 0 | 0 |
| 41 | MSTAB1 | PY | .011 | .011 | 0 | 0 |
| 42 | MSTAB6 | PY | .011 | .011 | 0 | 0 |
| 43 | MSTAB5 | PY | .011 | .011 | 0 | 0 |
| 44 | MSTAB4 | PY | .011 | .011 | 0 | 0 |
| 45 | MSTAB3 | PY | .011 | .011 | 0 | 0 |
| 46 | MRAIL2 | PY | .006 | .006 | 0 | 0 |
| 47 | MRAIL1 | PY | .006 | .006 | 0 | 0 |
| 48 | MRAIL3 | PY | .006 | .006 | 0 | 0 |
| 49 | MRCORNER1 | PY | .011 | .011 | 0 | 0 |
| 50 | MRCORNER3 | PY | .011 | .011 | 0 | 0 |
| 51 | MRCORNER2 | PY | .011 | .011 | 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 | SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 4 | SO3 | PY | .01 | .01 | 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,%] |
|---|---|---|---|---|---|---|
| 5 | SO2 | PY | .01 | .01 | 0 | 0 |
| 6 | SO1 | PY | .01 | .01 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .001 | .001 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .001 | .001 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .001 | .001 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .008 | .008 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .008 | .008 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .008 | .008 | 0 | 0 |
| 16 | MP BETA3 | PY | .008 | .008 | 0 | 0 |
| 17 | MP BETA2 | PY | .008 | .008 | 0 | 0 |
| 18 | MP BETA1 | PY | .008 | .008 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .008 | .008 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .008 | .008 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .008 | .008 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .006 | .006 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .006 | .006 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .006 | .006 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .006 | .006 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .006 | .006 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .006 | .006 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .006 | .006 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .006 | .006 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .006 | .006 | 0 | 0 |
| 31 | FACE2 | PY | .008 | .008 | 0 | 0 |
| 32 | FACE1 | PY | .008 | .008 | 0 | 0 |
| 33 | FACE4 | PY | .008 | .008 | 0 | 0 |
| 34 | FACE3 | PY | .008 | .008 | 0 | 0 |
| 35 | FACE6 | PY | .008 | .008 | 0 | 0 |
| 36 | FACE5 | PY | .008 | .008 | 0 | 0 |
| 37 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PY | .01 | .01 | 0 | 0 |
| 41 | MSTAB1 | PY | .01 | .01 | 0 | 0 |
| 42 | MSTAB6 | PY | .01 | .01 | 0 | 0 |
| 43 | MSTAB5 | PY | .01 | .01 | 0 | 0 |
| 44 | MSTAB4 | PY | .01 | .01 | 0 | 0 |
| 45 | MSTAB3 | PY | .01 | .01 | 0 | 0 |
| 46 | MRAIL3 | PY | .005 | .005 | 0 | 0 |
| 47 | MRAIL2 | PY | .005 | .005 | 0 | 0 |
| 48 | MRAIL1 | PY | .005 | .005 | 0 | 0 |
| 49 | MRCORNER1 | PY | .01 | .01 | 0 | 0 |
| 50 | MRCORNER3 | PY | .01 | .01 | 0 | 0 |
| 51 | MRCORNER2 | PY | .01 | .01 | 0 | 0 |
| 52 | SUPPORT3 | PX | .000885 | .000885 | 0 | 0 |
| 53 | SUPPORT2 | PX | .000885 | .000885 | 0 | 0 |
| 54 | SUPPORT1 | PX | .000885 | .000885 | 0 | 0 |
| 55 | SO3 | PX | .006 | .006 | 0 | 0 |
| 56 | SO2 | PX | .006 | .006 | 0 | 0 |
| 57 | SO1 | PX | .006 | .006 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .000664 | .000664 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .000664 | .000664 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .000664 | .000664 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .000664 | .000664 | 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,%] |
|---|---|---|---|---|---|---|
| 62 | P SUPPORT2 | PX | .000664 | .000664 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .000664 | .000664 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .005 | .005 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .005 | .005 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .005 | .005 | 0 | 0 |
| 67 | MP BETA3 | PX | .005 | .005 | 0 | 0 |
| 68 | MP BETA2 | PX | .005 | .005 | 0 | 0 |
| 69 | MP BETA1 | PX | .005 | .005 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .005 | .005 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .005 | .005 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .005 | .005 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .003 | .003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .003 | .003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .003 | .003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .003 | .003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .003 | .003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .003 | .003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .003 | .003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .003 | .003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .003 | .003 | 0 | 0 |
| 82 | FACE2 | PX | .005 | .005 | 0 | 0 |
| 83 | FACE1 | PX | .005 | .005 | 0 | 0 |
| 84 | FACE4 | PX | .005 | .005 | 0 | 0 |
| 85 | FACE3 | PX | .005 | .005 | 0 | 0 |
| 86 | FACE6 | PX | .005 | .005 | 0 | 0 |
| 87 | FACE5 | PX | .005 | .005 | 0 | 0 |
| 88 | CORNER3 | PX | .000885 | .000885 | 0 | 0 |
| 89 | CORNER2 | PX | .000885 | .000885 | 0 | 0 |
| 90 | CORNER1 | PX | .000885 | .000885 | 0 | 0 |
| 91 | MSTAB2 | PX | .006 | .006 | 0 | 0 |
| 92 | MSTAB1 | PX | .006 | .006 | 0 | 0 |
| 93 | MSTAB6 | PX | .006 | .006 | 0 | 0 |
| 94 | MSTAB5 | PX | .006 | .006 | 0 | 0 |
| 95 | MSTAB4 | PX | .006 | .006 | 0 | 0 |
| 96 | MSTAB3 | PX | .006 | .006 | 0 | 0 |
| 97 | MRAIL3 | PX | .003 | .003 | 0 | 0 |
| 98 | MRAIL2 | PX | .003 | .003 | 0 | 0 |
| 99 | MRAIL1 | PX | .003 | .003 | 0 | 0 |
| 100 | MRCORNER1 | PX | .006 | .006 | 0 | 0 |
| 101 | MRCORNER3 | PX | .006 | .006 | 0 | 0 |
| 102 | MRCORNER2 | PX | .006 | .006 | 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 | SUPPORT3 | PY | .000885 | .000885 | 0 | 0 |
| 2 | SUPPORT2 | PY | .000885 | .000885 | 0 | 0 |
| 3 | SUPPORT1 | PY | .000885 | .000885 | 0 | 0 |
| 4 | SO3 | PY | .006 | .006 | 0 | 0 |
| 5 | SO2 | PY | .006 | .006 | 0 | 0 |
| 6 | SO1 | PY | .006 | .006 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .000664 | .000664 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .000664 | .000664 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .000664 | .000664 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .000664 | .000664 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .000664 | .000664 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .000664 | .000664 | 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,%] |
|---|---|---|---|---|---|---|
| 13 | MP GAMMA3 | PY | .005 | .005 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .005 | .005 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .005 | .005 | 0 | 0 |
| 16 | MP BETA3 | PY | .005 | .005 | 0 | 0 |
| 17 | MP BETA2 | PY | .005 | .005 | 0 | 0 |
| 18 | MP BETA1 | PY | .005 | .005 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .005 | .005 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .005 | .005 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .005 | .005 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .003 | .003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .003 | .003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .003 | .003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .003 | .003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .003 | .003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .003 | .003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .003 | .003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .003 | .003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .003 | .003 | 0 | 0 |
| 31 | FACE2 | PY | .005 | .005 | 0 | 0 |
| 32 | FACE1 | PY | .005 | .005 | 0 | 0 |
| 33 | FACE4 | PY | .005 | .005 | 0 | 0 |
| 34 | FACE3 | PY | .005 | .005 | 0 | 0 |
| 35 | FACE6 | PY | .005 | .005 | 0 | 0 |
| 36 | FACE5 | PY | .005 | .005 | 0 | 0 |
| 37 | CORNER3 | PY | .000885 | .000885 | 0 | 0 |
| 38 | CORNER2 | PY | .000885 | .000885 | 0 | 0 |
| 39 | CORNER1 | PY | .000885 | .000885 | 0 | 0 |
| 40 | MSTAB2 | PY | .006 | .006 | 0 | 0 |
| 41 | MSTAB1 | PY | .006 | .006 | 0 | 0 |
| 42 | MSTAB6 | PY | .006 | .006 | 0 | 0 |
| 43 | MSTAB5 | PY | .006 | .006 | 0 | 0 |
| 44 | MSTAB4 | PY | .006 | .006 | 0 | 0 |
| 45 | MSTAB3 | PY | .006 | .006 | 0 | 0 |
| 46 | MRAIL3 | PY | .003 | .003 | 0 | 0 |
| 47 | MRAIL2 | PY | .003 | .003 | 0 | 0 |
| 48 | MRAIL1 | PY | .003 | .003 | 0 | 0 |
| 49 | MRCORNER1 | PY | .006 | .006 | 0 | 0 |
| 50 | MRCORNER3 | PY | .006 | .006 | 0 | 0 |
| 51 | MRCORNER2 | PY | .006 | .006 | 0 | 0 |
| 52 | SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 53 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 54 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 55 | SO3 | PX | .01 | .01 | 0 | 0 |
| 56 | SO2 | PX | .01 | .01 | 0 | 0 |
| 57 | SO1 | PX | .01 | .01 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .001 | .001 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .001 | .001 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .001 | .001 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .008 | .008 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .008 | .008 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .008 | .008 | 0 | 0 |
| 67 | MP BETA3 | PX | .008 | .008 | 0 | 0 |
| 68 | MP BETA2 | PX | .008 | .008 | 0 | 0 |
| 69 | MP BETA1 | PX | .008 | .008 | 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,%] |
|---|---|---|---|---|---|---|
| 70 | MP ALPHA3 | PX | .008 | .008 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .008 | .008 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .008 | .008 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .006 | .006 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .006 | .006 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .006 | .006 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .006 | .006 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .006 | .006 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .006 | .006 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .006 | .006 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .006 | .006 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .006 | .006 | 0 | 0 |
| 82 | FACE2 | PX | .008 | .008 | 0 | 0 |
| 83 | FACE1 | PX | .008 | .008 | 0 | 0 |
| 84 | FACE4 | PX | .008 | .008 | 0 | 0 |
| 85 | FACE3 | PX | .008 | .008 | 0 | 0 |
| 86 | FACE6 | PX | .008 | .008 | 0 | 0 |
| 87 | FACE5 | PX | .008 | .008 | 0 | 0 |
| 88 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 89 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 90 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 91 | MSTAB2 | PX | .01 | .01 | 0 | 0 |
| 92 | MSTAB1 | PX | .01 | .01 | 0 | 0 |
| 93 | MSTAB6 | PX | .01 | .01 | 0 | 0 |
| 94 | MSTAB5 | PX | .01 | .01 | 0 | 0 |
| 95 | MSTAB4 | PX | .01 | .01 | 0 | 0 |
| 96 | MSTAB3 | PX | .01 | .01 | 0 | 0 |
| 97 | MRAIL3 | PX | .005 | .005 | 0 | 0 |
| 98 | MRAIL2 | PX | .005 | .005 | 0 | 0 |
| 99 | MRAIL1 | PX | .005 | .005 | 0 | 0 |
| 100 | MRCORNER1 | PX | .01 | .01 | 0 | 0 |
| 101 | MRCORNER3 | PX | .01 | .01 | 0 | 0 |
| 102 | MRCORNER2 | PX | .01 | .01 | 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 | SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 4 | SO3 | PX | .011 | .011 | 0 | 0 |
| 5 | SO2 | PX | .011 | .011 | 0 | 0 |
| 6 | SO1 | PX | .011 | .011 | 0 | 0 |
| 7 | P SUPPORT6 | PX | .001 | .001 | 0 | 0 |
| 8 | P SUPPORT5 | PX | .001 | .001 | 0 | 0 |
| 9 | P SUPPORT4 | PX | .001 | .001 | 0 | 0 |
| 10 | P SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 11 | P SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 12 | P SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 13 | MP GAMMA3 | PX | .009 | .009 | 0 | 0 |
| 14 | MP GAMMA2 | PX | .009 | .009 | 0 | 0 |
| 15 | MP GAMMA1 | PX | .009 | .009 | 0 | 0 |
| 16 | MP BETA3 | PX | .009 | .009 | 0 | 0 |
| 17 | MP BETA2 | PX | .009 | .009 | 0 | 0 |
| 18 | MP BETA1 | PX | .009 | .009 | 0 | 0 |
| 19 | MP ALPHA3 | PX | .009 | .009 | 0 | 0 |
| 20 | MP ALPHA2 | PX | .009 | .009 | 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,%] |
|---|---|---|---|---|---|---|
| 21 | MP ALPHA1 | PX | .009 | .009 | 0 | 0 |
| 22 | G SUPPORT9 | PX | .007 | .007 | 0 | 0 |
| 23 | G SUPPORT8 | PX | .007 | .007 | 0 | 0 |
| 24 | G SUPPORT7 | PX | .007 | .007 | 0 | 0 |
| 25 | G SUPPORT6 | PX | .007 | .007 | 0 | 0 |
| 26 | G SUPPORT5 | PX | .007 | .007 | 0 | 0 |
| 27 | G SUPPORT4 | PX | .007 | .007 | 0 | 0 |
| 28 | G SUPPORT3 | PX | .007 | .007 | 0 | 0 |
| 29 | G SUPPORT2 | PX | .007 | .007 | 0 | 0 |
| 30 | G SUPPORT1 | PX | .007 | .007 | 0 | 0 |
| 31 | FACE2 | PX | .009 | .009 | 0 | 0 |
| 32 | FACE1 | PX | .009 | .009 | 0 | 0 |
| 33 | FACE4 | PX | .009 | .009 | 0 | 0 |
| 34 | FACE3 | PX | .009 | .009 | 0 | 0 |
| 35 | FACE6 | PX | .009 | .009 | 0 | 0 |
| 36 | FACE5 | PX | .009 | .009 | 0 | 0 |
| 37 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PX | .011 | .011 | 0 | 0 |
| 41 | MSTAB1 | PX | .011 | .011 | 0 | 0 |
| 42 | MSTAB6 | PX | .011 | .011 | 0 | 0 |
| 43 | MSTAB5 | PX | .011 | .011 | 0 | 0 |
| 44 | MSTAB4 | PX | .011 | .011 | 0 | 0 |
| 45 | MSTAB3 | PX | .011 | .011 | 0 | 0 |
| 46 | MRAIL3 | PX | .006 | .006 | 0 | 0 |
| 47 | MRAIL2 | PX | .006 | .006 | 0 | 0 |
| 48 | MRAIL1 | PX | .006 | .006 | 0 | 0 |
| 49 | MRCORNER1 | PX | .011 | .011 | 0 | 0 |
| 50 | MRCORNER3 | PX | .011 | .011 | 0 | 0 |
| 51 | MRCORNER2 | PX | .011 | .011 | 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 | SUPPORT3 | PY | -.000885 | -.000885 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.000885 | -.000885 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.000885 | -.000885 | 0 | 0 |
| 4 | SO3 | PY | -.006 | -.006 | 0 | 0 |
| 5 | SO2 | PY | -.006 | -.006 | 0 | 0 |
| 6 | SO1 | PY | -.006 | -.006 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.000664 | -.000664 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.000664 | -.000664 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.000664 | -.000664 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.000664 | -.000664 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.000664 | -.000664 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.000664 | -.000664 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.005 | -.005 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.005 | -.005 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.005 | -.005 | 0 | 0 |
| 16 | MP BETA3 | PY | -.005 | -.005 | 0 | 0 |
| 17 | MP BETA2 | PY | -.005 | -.005 | 0 | 0 |
| 18 | MP BETA1 | PY | -.005 | -.005 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.005 | -.005 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.005 | -.005 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.005 | -.005 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.003 | -.003 | 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,%] |
|---|---|---|---|---|---|---|
| 23 | G SUPPORT8 | PY | -.003 | -.003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.003 | -.003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.003 | -.003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.003 | -.003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.003 | -.003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.003 | -.003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | FACE2 | PY | -.005 | -.005 | 0 | 0 |
| 32 | FACE1 | PY | -.005 | -.005 | 0 | 0 |
| 33 | FACE4 | PY | -.005 | -.005 | 0 | 0 |
| 34 | FACE3 | PY | -.005 | -.005 | 0 | 0 |
| 35 | FACE6 | PY | -.005 | -.005 | 0 | 0 |
| 36 | FACE5 | PY | -.005 | -.005 | 0 | 0 |
| 37 | CORNER3 | PY | -.000885 | -.000885 | 0 | 0 |
| 38 | CORNER2 | PY | -.000885 | -.000885 | 0 | 0 |
| 39 | CORNER1 | PY | -.000885 | -.000885 | 0 | 0 |
| 40 | MSTAB2 | PY | -.006 | -.006 | 0 | 0 |
| 41 | MSTAB1 | PY | -.006 | -.006 | 0 | 0 |
| 42 | MSTAB6 | PY | -.006 | -.006 | 0 | 0 |
| 43 | MSTAB5 | PY | -.006 | -.006 | 0 | 0 |
| 44 | MSTAB4 | PY | -.006 | -.006 | 0 | 0 |
| 45 | MSTAB3 | PY | -.006 | -.006 | 0 | 0 |
| 46 | MRAIL3 | PY | -.003 | -.003 | 0 | 0 |
| 47 | MRAIL2 | PY | -.003 | -.003 | 0 | 0 |
| 48 | MRAIL1 | PY | -.003 | -.003 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.006 | -.006 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.006 | -.006 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.006 | -.006 | 0 | 0 |
| 52 | SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 53 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 54 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 55 | SO3 | PX | .01 | .01 | 0 | 0 |
| 56 | SO2 | PX | .01 | .01 | 0 | 0 |
| 57 | SO1 | PX | .01 | .01 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .001 | .001 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .001 | .001 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .001 | .001 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .008 | .008 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .008 | .008 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .008 | .008 | 0 | 0 |
| 67 | MP BETA3 | PX | .008 | .008 | 0 | 0 |
| 68 | MP BETA2 | PX | .008 | .008 | 0 | 0 |
| 69 | MP BETA1 | PX | .008 | .008 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .008 | .008 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .008 | .008 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .008 | .008 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .006 | .006 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .006 | .006 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .006 | .006 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .006 | .006 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .006 | .006 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .006 | .006 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .006 | .006 | 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,%] |
|---|---|---|---|---|---|---|
| 80 | G SUPPORT2 | PX | .006 | .006 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .006 | .006 | 0 | 0 |
| 82 | FACE2 | PX | .008 | .008 | 0 | 0 |
| 83 | FACE1 | PX | .008 | .008 | 0 | 0 |
| 84 | FACE4 | PX | .008 | .008 | 0 | 0 |
| 85 | FACE3 | PX | .008 | .008 | 0 | 0 |
| 86 | FACE6 | PX | .008 | .008 | 0 | 0 |
| 87 | FACE5 | PX | .008 | .008 | 0 | 0 |
| 88 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 89 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 90 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 91 | MSTAB2 | PX | .01 | .01 | 0 | 0 |
| 92 | MSTAB1 | PX | .01 | .01 | 0 | 0 |
| 93 | MSTAB6 | PX | .01 | .01 | 0 | 0 |
| 94 | MSTAB5 | PX | .01 | .01 | 0 | 0 |
| 95 | MSTAB4 | PX | .01 | .01 | 0 | 0 |
| 96 | MSTAB3 | PX | .01 | .01 | 0 | 0 |
| 97 | MRAIL3 | PX | .005 | .005 | 0 | 0 |
| 98 | MRAIL2 | PX | .005 | .005 | 0 | 0 |
| 99 | MRAIL1 | PX | .005 | .005 | 0 | 0 |
| 100 | MRCORNER1 | PX | .01 | .01 | 0 | 0 |
| 101 | MRCORNER3 | PX | .01 | .01 | 0 | 0 |
| 102 | MRCORNER2 | PX | .01 | .01 | 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 | SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PY | -.01 | -.01 | 0 | 0 |
| 5 | SO2 | PY | -.01 | -.01 | 0 | 0 |
| 6 | SO1 | PY | -.01 | -.01 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.001 | -.001 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.001 | -.001 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.001 | -.001 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.008 | -.008 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.008 | -.008 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.008 | -.008 | 0 | 0 |
| 16 | MP BETA3 | PY | -.008 | -.008 | 0 | 0 |
| 17 | MP BETA2 | PY | -.008 | -.008 | 0 | 0 |
| 18 | MP BETA1 | PY | -.008 | -.008 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.008 | -.008 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.008 | -.008 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.008 | -.008 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.006 | -.006 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.006 | -.006 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.006 | -.006 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.006 | -.006 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.006 | -.006 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.006 | -.006 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.006 | -.006 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.006 | -.006 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.006 | -.006 | 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,%] |
|---|---|---|---|---|---|---|
| 31 | FACE6 | PY | -.008 | -.008 | 0 | 0 |
| 32 | FACE5 | PY | -.008 | -.008 | 0 | 0 |
| 33 | FACE4 | PY | -.008 | -.008 | 0 | 0 |
| 34 | FACE3 | PY | -.008 | -.008 | 0 | 0 |
| 35 | FACE2 | PY | -.008 | -.008 | 0 | 0 |
| 36 | FACE1 | PY | -.008 | -.008 | 0 | 0 |
| 37 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PY | -.01 | -.01 | 0 | 0 |
| 41 | MSTAB1 | PY | -.01 | -.01 | 0 | 0 |
| 42 | MSTAB6 | PY | -.01 | -.01 | 0 | 0 |
| 43 | MSTAB5 | PY | -.01 | -.01 | 0 | 0 |
| 44 | MSTAB4 | PY | -.01 | -.01 | 0 | 0 |
| 45 | MSTAB3 | PY | -.01 | -.01 | 0 | 0 |
| 46 | MRAIL1 | PY | -.005 | -.005 | 0 | 0 |
| 47 | MRAIL2 | PY | -.005 | -.005 | 0 | 0 |
| 48 | MRAIL3 | PY | -.005 | -.005 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.01 | -.01 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.01 | -.01 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.01 | -.01 | 0 | 0 |
| 52 | SUPPORT3 | PX | .000885 | .000885 | 0 | 0 |
| 53 | SUPPORT2 | PX | .000885 | .000885 | 0 | 0 |
| 54 | SUPPORT1 | PX | .000885 | .000885 | 0 | 0 |
| 55 | SO3 | PX | .006 | .006 | 0 | 0 |
| 56 | SO2 | PX | .006 | .006 | 0 | 0 |
| 57 | SO1 | PX | .006 | .006 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .000664 | .000664 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .000664 | .000664 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .000664 | .000664 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .000664 | .000664 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .000664 | .000664 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .000664 | .000664 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .005 | .005 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .005 | .005 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .005 | .005 | 0 | 0 |
| 67 | MP BETA3 | PX | .005 | .005 | 0 | 0 |
| 68 | MP BETA2 | PX | .005 | .005 | 0 | 0 |
| 69 | MP BETA1 | PX | .005 | .005 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .005 | .005 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .005 | .005 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .005 | .005 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .003 | .003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .003 | .003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .003 | .003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .003 | .003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .003 | .003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .003 | .003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .003 | .003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .003 | .003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .003 | .003 | 0 | 0 |
| 82 | FACE6 | PX | .005 | .005 | 0 | 0 |
| 83 | FACE5 | PX | .005 | .005 | 0 | 0 |
| 84 | FACE4 | PX | .005 | .005 | 0 | 0 |
| 85 | FACE3 | PX | .005 | .005 | 0 | 0 |
| 86 | FACE2 | PX | .005 | .005 | 0 | 0 |
| 87 | FACE1 | PX | .005 | .005 | 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,%] |
|---|---|---|---|---|---|---|
| 88 | CORNER3 | PX | .000885 | .000885 | 0 | 0 |
| 89 | CORNER2 | PX | .000885 | .000885 | 0 | 0 |
| 90 | CORNER1 | PX | .000885 | .000885 | 0 | 0 |
| 91 | MSTAB2 | PX | .006 | .006 | 0 | 0 |
| 92 | MSTAB1 | PX | .006 | .006 | 0 | 0 |
| 93 | MSTAB6 | PX | .006 | .006 | 0 | 0 |
| 94 | MSTAB5 | PX | .006 | .006 | 0 | 0 |
| 95 | MSTAB4 | PX | .006 | .006 | 0 | 0 |
| 96 | MSTAB3 | PX | .006 | .006 | 0 | 0 |
| 97 | MRAIL1 | PX | .003 | .003 | 0 | 0 |
| 98 | MRAIL2 | PX | .003 | .003 | 0 | 0 |
| 99 | MRAIL3 | PX | .003 | .003 | 0 | 0 |
| 100 | MRCORNER1 | PX | .006 | .006 | 0 | 0 |
| 101 | MRCORNER3 | PX | .006 | .006 | 0 | 0 |
| 102 | MRCORNER2 | PX | .006 | .006 | 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 | SUPPORT3 | PY | -.000113 | -.000113 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.000113 | -.000113 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.000113 | -.000113 | 0 | 0 |
| 4 | SO3 | PY | -.000703 | -.000703 | 0 | 0 |
| 5 | SO2 | PY | -.000703 | -.000703 | 0 | 0 |
| 6 | SO1 | PY | -.000703 | -.000703 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.000598 | -.000598 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.000598 | -.000598 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.000598 | -.000598 | 0 | 0 |
| 16 | MP BETA3 | PY | -.000598 | -.000598 | 0 | 0 |
| 17 | MP BETA2 | PY | -.000598 | -.000598 | 0 | 0 |
| 18 | MP BETA1 | PY | -.000598 | -.000598 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.000598 | -.000598 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.000598 | -.000598 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.000598 | -.000598 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.000422 | -.000422 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.000422 | -.000422 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.000422 | -.000422 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.000422 | -.000422 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.000422 | -.000422 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.000422 | -.000422 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.000422 | -.000422 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.000422 | -.000422 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.000422 | -.000422 | 0 | 0 |
| 31 | FACE6 | PY | -.000591 | -.000591 | 0 | 0 |
| 32 | FACE5 | PY | -.000591 | -.000591 | 0 | 0 |
| 33 | FACE4 | PY | -.000591 | -.000591 | 0 | 0 |
| 34 | FACE3 | PY | -.000591 | -.000591 | 0 | 0 |
| 35 | FACE2 | PY | -.000591 | -.000591 | 0 | 0 |
| 36 | FACE1 | PY | -.000591 | -.000591 | 0 | 0 |
| 37 | CORNER3 | PY | -.000113 | -.000113 | 0 | 0 |
| 38 | CORNER2 | PY | -.000113 | -.000113 | 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,%] |
|---|---|---|---|---|---|---|
| 39 | CORNER1 | PY | -.000113 | -.000113 | 0 | 0 |
| 40 | MSTAB2 | PY | -.000703 | -.000703 | 0 | 0 |
| 41 | MSTAB1 | PY | -.000703 | -.000703 | 0 | 0 |
| 42 | MSTAB6 | PY | -.000703 | -.000703 | 0 | 0 |
| 43 | MSTAB5 | PY | -.000703 | -.000703 | 0 | 0 |
| 44 | MSTAB4 | PY | -.000703 | -.000703 | 0 | 0 |
| 45 | MSTAB3 | PY | -.000703 | -.000703 | 0 | 0 |
| 46 | MRAIL1 | PY | -.000401 | -.000401 | 0 | 0 |
| 47 | MRAIL2 | PY | -.000401 | -.000401 | 0 | 0 |
| 48 | MRAIL3 | PY | -.000401 | -.000401 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.000703 | -.000703 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.000703 | -.000703 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.000703 | -.000703 | 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 | SUPPORT3 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 4 | SO3 | PY | -.000609 | -.000609 | 0 | 0 |
| 5 | SO2 | PY | -.000609 | -.000609 | 0 | 0 |
| 6 | SO1 | PY | -.000609 | -.000609 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.000518 | -.000518 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.000518 | -.000518 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.000518 | -.000518 | 0 | 0 |
| 16 | MP BETA3 | PY | -.000518 | -.000518 | 0 | 0 |
| 17 | MP BETA2 | PY | -.000518 | -.000518 | 0 | 0 |
| 18 | MP BETA1 | PY | -.000518 | -.000518 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.000518 | -.000518 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.000518 | -.000518 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.000518 | -.000518 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.000365 | -.000365 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.000365 | -.000365 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.000365 | -.000365 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.000365 | -.000365 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.000365 | -.000365 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.000365 | -.000365 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.000365 | -.000365 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.000365 | -.000365 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.000365 | -.000365 | 0 | 0 |
| 31 | FACE6 | PY | -.000512 | -.000512 | 0 | 0 |
| 32 | FACE5 | PY | -.000512 | -.000512 | 0 | 0 |
| 33 | FACE4 | PY | -.000512 | -.000512 | 0 | 0 |
| 34 | FACE3 | PY | -.000512 | -.000512 | 0 | 0 |
| 35 | FACE2 | PY | -.000512 | -.000512 | 0 | 0 |
| 36 | FACE1 | PY | -.000512 | -.000512 | 0 | 0 |
| 37 | CORNER3 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 38 | CORNER2 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 39 | CORNER1 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | -.000609 | -.000609 | 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,%] |
|---|---|---|---|---|---|---|
| 41 | MSTAB1 | PY | -.000609 | -.000609 | 0 | 0 |
| 42 | MSTAB6 | PY | -.000609 | -.000609 | 0 | 0 |
| 43 | MSTAB5 | PY | -.000609 | -.000609 | 0 | 0 |
| 44 | MSTAB4 | PY | -.000609 | -.000609 | 0 | 0 |
| 45 | MSTAB3 | PY | -.000609 | -.000609 | 0 | 0 |
| 46 | MRAIL1 | PY | -.000347 | -.000347 | 0 | 0 |
| 47 | MRAIL2 | PY | -.000347 | -.000347 | 0 | 0 |
| 48 | MRAIL3 | PY | -.000347 | -.000347 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.000609 | -.000609 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.000609 | -.000609 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.000609 | -.000609 | 0 | 0 |
| 52 | SUPPORT3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 55 | SO3 | PX | -.000352 | -.000352 | 0 | 0 |
| 56 | SO2 | PX | -.000352 | -.000352 | 0 | 0 |
| 57 | SO1 | PX | -.000352 | -.000352 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.000299 | -.000299 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.000299 | -.000299 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.000299 | -.000299 | 0 | 0 |
| 67 | MP BETA3 | PX | -.000299 | -.000299 | 0 | 0 |
| 68 | MP BETA2 | PX | -.000299 | -.000299 | 0 | 0 |
| 69 | MP BETA1 | PX | -.000299 | -.000299 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.000299 | -.000299 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.000299 | -.000299 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.000299 | -.000299 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.000211 | -.000211 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.000211 | -.000211 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.000211 | -.000211 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.000211 | -.000211 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.000211 | -.000211 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.000211 | -.000211 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.000211 | -.000211 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.000211 | -.000211 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.000211 | -.000211 | 0 | 0 |
| 82 | FACE6 | PX | -.000295 | -.000295 | 0 | 0 |
| 83 | FACE5 | PX | -.000295 | -.000295 | 0 | 0 |
| 84 | FACE4 | PX | -.000295 | -.000295 | 0 | 0 |
| 85 | FACE3 | PX | -.000295 | -.000295 | 0 | 0 |
| 86 | FACE2 | PX | -.000295 | -.000295 | 0 | 0 |
| 87 | FACE1 | PX | -.000295 | -.000295 | 0 | 0 |
| 88 | CORNER3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 89 | CORNER2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 90 | CORNER1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | -.000352 | -.000352 | 0 | 0 |
| 92 | MSTAB1 | PX | -.000352 | -.000352 | 0 | 0 |
| 93 | MSTAB6 | PX | -.000352 | -.000352 | 0 | 0 |
| 94 | MSTAB5 | PX | -.000352 | -.000352 | 0 | 0 |
| 95 | MSTAB4 | PX | -.000352 | -.000352 | 0 | 0 |
| 96 | MSTAB3 | PX | -.000352 | -.000352 | 0 | 0 |
| 97 | MRAIL1 | PX | -.0002 | -.0002 | 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,%] |
|---|---|---|---|---|---|---|
| 98 | MRAIL2 | PX | -.0002 | -.0002 | 0 | 0 |
| 99 | MRAIL3 | PX | -.0002 | -.0002 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.000352 | -.000352 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.000352 | -.000352 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.000352 | -.000352 | 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 | SUPPORT3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 4 | SO3 | PY | -.000352 | -.000352 | 0 | 0 |
| 5 | SO2 | PY | -.000352 | -.000352 | 0 | 0 |
| 6 | SO1 | PY | -.000352 | -.000352 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.000299 | -.000299 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.000299 | -.000299 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.000299 | -.000299 | 0 | 0 |
| 16 | MP BETA3 | PY | -.000299 | -.000299 | 0 | 0 |
| 17 | MP BETA2 | PY | -.000299 | -.000299 | 0 | 0 |
| 18 | MP BETA1 | PY | -.000299 | -.000299 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.000299 | -.000299 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.000299 | -.000299 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.000299 | -.000299 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.000211 | -.000211 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.000211 | -.000211 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.000211 | -.000211 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.000211 | -.000211 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.000211 | -.000211 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.000211 | -.000211 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.000211 | -.000211 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.000211 | -.000211 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.000211 | -.000211 | 0 | 0 |
| 31 | FACE6 | PY | -.000295 | -.000295 | 0 | 0 |
| 32 | FACE5 | PY | -.000295 | -.000295 | 0 | 0 |
| 33 | FACE4 | PY | -.000295 | -.000295 | 0 | 0 |
| 34 | FACE3 | PY | -.000295 | -.000295 | 0 | 0 |
| 35 | FACE2 | PY | -.000295 | -.000295 | 0 | 0 |
| 36 | FACE1 | PY | -.000295 | -.000295 | 0 | 0 |
| 37 | CORNER3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 38 | CORNER2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 39 | CORNER1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | -.000352 | -.000352 | 0 | 0 |
| 41 | MSTAB1 | PY | -.000352 | -.000352 | 0 | 0 |
| 42 | MSTAB6 | PY | -.000352 | -.000352 | 0 | 0 |
| 43 | MSTAB5 | PY | -.000352 | -.000352 | 0 | 0 |
| 44 | MSTAB4 | PY | -.000352 | -.000352 | 0 | 0 |
| 45 | MSTAB3 | PY | -.000352 | -.000352 | 0 | 0 |
| 46 | MRAIL1 | PY | -.0002 | -.0002 | 0 | 0 |
| 47 | MRAIL2 | PY | -.0002 | -.0002 | 0 | 0 |
| 48 | MRAIL3 | PY | -.0002 | -.0002 | 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,%] |
|---|---|---|---|---|---|---|
| 49 | MRCORNER1 | PY | -.000352 | -.000352 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.000352 | -.000352 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.000352 | -.000352 | 0 | 0 |
| 52 | SUPPORT3 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 55 | SO3 | PX | -.000609 | -.000609 | 0 | 0 |
| 56 | SO2 | PX | -.000609 | -.000609 | 0 | 0 |
| 57 | SO1 | PX | -.000609 | -.000609 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.000518 | -.000518 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.000518 | -.000518 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.000518 | -.000518 | 0 | 0 |
| 67 | MP BETA3 | PX | -.000518 | -.000518 | 0 | 0 |
| 68 | MP BETA2 | PX | -.000518 | -.000518 | 0 | 0 |
| 69 | MP BETA1 | PX | -.000518 | -.000518 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.000518 | -.000518 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.000518 | -.000518 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.000518 | -.000518 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.000365 | -.000365 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.000365 | -.000365 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.000365 | -.000365 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.000365 | -.000365 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.000365 | -.000365 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.000365 | -.000365 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.000365 | -.000365 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.000365 | -.000365 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.000365 | -.000365 | 0 | 0 |
| 82 | FACE6 | PX | -.000512 | -.000512 | 0 | 0 |
| 83 | FACE5 | PX | -.000512 | -.000512 | 0 | 0 |
| 84 | FACE4 | PX | -.000512 | -.000512 | 0 | 0 |
| 85 | FACE3 | PX | -.000512 | -.000512 | 0 | 0 |
| 86 | FACE2 | PX | -.000512 | -.000512 | 0 | 0 |
| 87 | FACE1 | PX | -.000512 | -.000512 | 0 | 0 |
| 88 | CORNER3 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 89 | CORNER2 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 90 | CORNER1 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | -.000609 | -.000609 | 0 | 0 |
| 92 | MSTAB1 | PX | -.000609 | -.000609 | 0 | 0 |
| 93 | MSTAB6 | PX | -.000609 | -.000609 | 0 | 0 |
| 94 | MSTAB5 | PX | -.000609 | -.000609 | 0 | 0 |
| 95 | MSTAB4 | PX | -.000609 | -.000609 | 0 | 0 |
| 96 | MSTAB3 | PX | -.000609 | -.000609 | 0 | 0 |
| 97 | MRAIL1 | PX | -.000347 | -.000347 | 0 | 0 |
| 98 | MRAIL2 | PX | -.000347 | -.000347 | 0 | 0 |
| 99 | MRAIL3 | PX | -.000347 | -.000347 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.000609 | -.000609 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.000609 | -.000609 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.000609 | -.000609 | 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,%] |
|---|---|---|---|---|---|

## 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,%] |
|---|---|---|---|---|---|---|
| 1 | SUPPORT3 | PX | -.000113 | -.000113 | 0 | 0 |
| 2 | SUPPORT2 | PX | -.000113 | -.000113 | 0 | 0 |
| 3 | SUPPORT1 | PX | -.000113 | -.000113 | 0 | 0 |
| 4 | SO3 | PX | -.000703 | -.000703 | 0 | 0 |
| 5 | SO2 | PX | -.000703 | -.000703 | 0 | 0 |
| 6 | SO1 | PX | -.000703 | -.000703 | 0 | 0 |
| 7 | P SUPPORT6 | PX | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PX | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PX | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PX | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PX | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PX | -8.4e-5 | -8.4e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PX | -.000598 | -.000598 | 0 | 0 |
| 14 | MP GAMMA2 | PX | -.000598 | -.000598 | 0 | 0 |
| 15 | MP GAMMA1 | PX | -.000598 | -.000598 | 0 | 0 |
| 16 | MP BETA3 | PX | -.000598 | -.000598 | 0 | 0 |
| 17 | MP BETA2 | PX | -.000598 | -.000598 | 0 | 0 |
| 18 | MP BETA1 | PX | -.000598 | -.000598 | 0 | 0 |
| 19 | MP ALPHA3 | PX | -.000598 | -.000598 | 0 | 0 |
| 20 | MP ALPHA2 | PX | -.000598 | -.000598 | 0 | 0 |
| 21 | MP ALPHA1 | PX | -.000598 | -.000598 | 0 | 0 |
| 22 | G SUPPORT9 | PX | -.000422 | -.000422 | 0 | 0 |
| 23 | G SUPPORT8 | PX | -.000422 | -.000422 | 0 | 0 |
| 24 | G SUPPORT7 | PX | -.000422 | -.000422 | 0 | 0 |
| 25 | G SUPPORT6 | PX | -.000422 | -.000422 | 0 | 0 |
| 26 | G SUPPORT5 | PX | -.000422 | -.000422 | 0 | 0 |
| 27 | G SUPPORT4 | PX | -.000422 | -.000422 | 0 | 0 |
| 28 | G SUPPORT3 | PX | -.000422 | -.000422 | 0 | 0 |
| 29 | G SUPPORT2 | PX | -.000422 | -.000422 | 0 | 0 |
| 30 | G SUPPORT1 | PX | -.000422 | -.000422 | 0 | 0 |
| 31 | FACE6 | PX | -.000591 | -.000591 | 0 | 0 |
| 32 | FACE5 | PX | -.000591 | -.000591 | 0 | 0 |
| 33 | FACE2 | PX | -.000591 | -.000591 | 0 | 0 |
| 34 | FACE1 | PX | -.000591 | -.000591 | 0 | 0 |
| 35 | FACE4 | PX | -.000591 | -.000591 | 0 | 0 |
| 36 | FACE3 | PX | -.000591 | -.000591 | 0 | 0 |
| 37 | CORNER3 | PX | -.000113 | -.000113 | 0 | 0 |
| 38 | CORNER2 | PX | -.000113 | -.000113 | 0 | 0 |
| 39 | CORNER1 | PX | -.000113 | -.000113 | 0 | 0 |
| 40 | MSTAB2 | PX | -.000703 | -.000703 | 0 | 0 |
| 41 | MSTAB1 | PX | -.000703 | -.000703 | 0 | 0 |
| 42 | MSTAB6 | PX | -.000703 | -.000703 | 0 | 0 |
| 43 | MSTAB5 | PX | -.000703 | -.000703 | 0 | 0 |
| 44 | MSTAB4 | PX | -.000703 | -.000703 | 0 | 0 |
| 45 | MSTAB3 | PX | -.000703 | -.000703 | 0 | 0 |
| 46 | MRAIL2 | PX | -.000401 | -.000401 | 0 | 0 |
| 47 | MRAIL1 | PX | -.000401 | -.000401 | 0 | 0 |
| 48 | MRAIL3 | PX | -.000401 | -.000401 | 0 | 0 |
| 49 | MRCORNER1 | PX | -.000703 | -.000703 | 0 | 0 |
| 50 | MRCORNER3 | PX | -.000703 | -.000703 | 0 | 0 |
| 51 | MRCORNER2 | PX | -.000703 | -.000703 | 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 | SUPPORT3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | 5.6e-5 | 5.6e-5 | 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,%] |
|---|---|---|---|---|---|---|
| 3 | SUPPORT1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 4 | SO3 | PY | .000352 | .000352 | 0 | 0 |
| 5 | SO2 | PY | .000352 | .000352 | 0 | 0 |
| 6 | SO1 | PY | .000352 | .000352 | 0 | 0 |
| 7 | P SUPPORT6 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .000299 | .000299 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .000299 | .000299 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .000299 | .000299 | 0 | 0 |
| 16 | MP BETA3 | PY | .000299 | .000299 | 0 | 0 |
| 17 | MP BETA2 | PY | .000299 | .000299 | 0 | 0 |
| 18 | MP BETA1 | PY | .000299 | .000299 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .000299 | .000299 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .000299 | .000299 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .000299 | .000299 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .000211 | .000211 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .000211 | .000211 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .000211 | .000211 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .000211 | .000211 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .000211 | .000211 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .000211 | .000211 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .000211 | .000211 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .000211 | .000211 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .000211 | .000211 | 0 | 0 |
| 31 | FACE6 | PY | .000295 | .000295 | 0 | 0 |
| 32 | FACE5 | PY | .000295 | .000295 | 0 | 0 |
| 33 | FACE2 | PY | .000295 | .000295 | 0 | 0 |
| 34 | FACE1 | PY | .000295 | .000295 | 0 | 0 |
| 35 | FACE4 | PY | .000295 | .000295 | 0 | 0 |
| 36 | FACE3 | PY | .000295 | .000295 | 0 | 0 |
| 37 | CORNER3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 38 | CORNER2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 39 | CORNER1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | .000352 | .000352 | 0 | 0 |
| 41 | MSTAB1 | PY | .000352 | .000352 | 0 | 0 |
| 42 | MSTAB6 | PY | .000352 | .000352 | 0 | 0 |
| 43 | MSTAB5 | PY | .000352 | .000352 | 0 | 0 |
| 44 | MSTAB4 | PY | .000352 | .000352 | 0 | 0 |
| 45 | MSTAB3 | PY | .000352 | .000352 | 0 | 0 |
| 46 | MRAIL2 | PY | .0002 | .0002 | 0 | 0 |
| 47 | MRAIL1 | PY | .0002 | .0002 | 0 | 0 |
| 48 | MRAIL3 | PY | .0002 | .0002 | 0 | 0 |
| 49 | MRCORNER1 | PY | .000352 | .000352 | 0 | 0 |
| 50 | MRCORNER3 | PY | .000352 | .000352 | 0 | 0 |
| 51 | MRCORNER2 | PY | .000352 | .000352 | 0 | 0 |
| 52 | SUPPORT3 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 55 | SO3 | PX | -.000609 | -.000609 | 0 | 0 |
| 56 | SO2 | PX | -.000609 | -.000609 | 0 | 0 |
| 57 | SO1 | PX | -.000609 | -.000609 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -7.3e-5 | -7.3e-5 | 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,%] |
|---|---|---|---|---|---|---|
| 60 | P SUPPORT4 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.000518 | -.000518 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.000518 | -.000518 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.000518 | -.000518 | 0 | 0 |
| 67 | MP BETA3 | PX | -.000518 | -.000518 | 0 | 0 |
| 68 | MP BETA2 | PX | -.000518 | -.000518 | 0 | 0 |
| 69 | MP BETA1 | PX | -.000518 | -.000518 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.000518 | -.000518 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.000518 | -.000518 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.000518 | -.000518 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.000365 | -.000365 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.000365 | -.000365 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.000365 | -.000365 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.000365 | -.000365 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.000365 | -.000365 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.000365 | -.000365 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.000365 | -.000365 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.000365 | -.000365 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.000365 | -.000365 | 0 | 0 |
| 82 | FACE6 | PX | -.000512 | -.000512 | 0 | 0 |
| 83 | FACE5 | PX | -.000512 | -.000512 | 0 | 0 |
| 84 | FACE2 | PX | -.000512 | -.000512 | 0 | 0 |
| 85 | FACE1 | PX | -.000512 | -.000512 | 0 | 0 |
| 86 | FACE4 | PX | -.000512 | -.000512 | 0 | 0 |
| 87 | FACE3 | PX | -.000512 | -.000512 | 0 | 0 |
| 88 | CORNER3 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 89 | CORNER2 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 90 | CORNER1 | PX | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | -.000609 | -.000609 | 0 | 0 |
| 92 | MSTAB1 | PX | -.000609 | -.000609 | 0 | 0 |
| 93 | MSTAB6 | PX | -.000609 | -.000609 | 0 | 0 |
| 94 | MSTAB5 | PX | -.000609 | -.000609 | 0 | 0 |
| 95 | MSTAB4 | PX | -.000609 | -.000609 | 0 | 0 |
| 96 | MSTAB3 | PX | -.000609 | -.000609 | 0 | 0 |
| 97 | MRAIL2 | PX | -.000347 | -.000347 | 0 | 0 |
| 98 | MRAIL1 | PX | -.000347 | -.000347 | 0 | 0 |
| 99 | MRAIL3 | PX | -.000347 | -.000347 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.000609 | -.000609 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.000609 | -.000609 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.000609 | -.000609 | 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 | SUPPORT3 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 4 | SO3 | PY | .000609 | .000609 | 0 | 0 |
| 5 | SO2 | PY | .000609 | .000609 | 0 | 0 |
| 6 | SO1 | PY | .000609 | .000609 | 0 | 0 |
| 7 | P SUPPORT6 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | 7.3e-5 | 7.3e-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,%] |
|---|---|---|---|---|---|---|
| 11 | P SUPPORT2 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .000518 | .000518 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .000518 | .000518 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .000518 | .000518 | 0 | 0 |
| 16 | MP BETA3 | PY | .000518 | .000518 | 0 | 0 |
| 17 | MP BETA2 | PY | .000518 | .000518 | 0 | 0 |
| 18 | MP BETA1 | PY | .000518 | .000518 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .000518 | .000518 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .000518 | .000518 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .000518 | .000518 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .000365 | .000365 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .000365 | .000365 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .000365 | .000365 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .000365 | .000365 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .000365 | .000365 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .000365 | .000365 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .000365 | .000365 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .000365 | .000365 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .000365 | .000365 | 0 | 0 |
| 31 | FACE6 | PY | .000512 | .000512 | 0 | 0 |
| 32 | FACE5 | PY | .000512 | .000512 | 0 | 0 |
| 33 | FACE2 | PY | .000512 | .000512 | 0 | 0 |
| 34 | FACE1 | PY | .000512 | .000512 | 0 | 0 |
| 35 | FACE4 | PY | .000512 | .000512 | 0 | 0 |
| 36 | FACE3 | PY | .000512 | .000512 | 0 | 0 |
| 37 | CORNER3 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 38 | CORNER2 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 39 | CORNER1 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | .000609 | .000609 | 0 | 0 |
| 41 | MSTAB1 | PY | .000609 | .000609 | 0 | 0 |
| 42 | MSTAB6 | PY | .000609 | .000609 | 0 | 0 |
| 43 | MSTAB5 | PY | .000609 | .000609 | 0 | 0 |
| 44 | MSTAB4 | PY | .000609 | .000609 | 0 | 0 |
| 45 | MSTAB3 | PY | .000609 | .000609 | 0 | 0 |
| 46 | MRAIL2 | PY | .000347 | .000347 | 0 | 0 |
| 47 | MRAIL1 | PY | .000347 | .000347 | 0 | 0 |
| 48 | MRAIL3 | PY | .000347 | .000347 | 0 | 0 |
| 49 | MRCORNER1 | PY | .000609 | .000609 | 0 | 0 |
| 50 | MRCORNER3 | PY | .000609 | .000609 | 0 | 0 |
| 51 | MRCORNER2 | PY | .000609 | .000609 | 0 | 0 |
| 52 | SUPPORT3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 55 | SO3 | PX | -.000352 | -.000352 | 0 | 0 |
| 56 | SO2 | PX | -.000352 | -.000352 | 0 | 0 |
| 57 | SO1 | PX | -.000352 | -.000352 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.000299 | -.000299 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.000299 | -.000299 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.000299 | -.000299 | 0 | 0 |
| 67 | MP BETA3 | PX | -.000299 | -.000299 | 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,%] |
|---|---|---|---|---|---|---|
| 68 | MP BETA2 | PX | -.000299 | -.000299 | 0 | 0 |
| 69 | MP BETA1 | PX | -.000299 | -.000299 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.000299 | -.000299 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.000299 | -.000299 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.000299 | -.000299 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.000211 | -.000211 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.000211 | -.000211 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.000211 | -.000211 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.000211 | -.000211 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.000211 | -.000211 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.000211 | -.000211 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.000211 | -.000211 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.000211 | -.000211 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.000211 | -.000211 | 0 | 0 |
| 82 | FACE6 | PX | -.000295 | -.000295 | 0 | 0 |
| 83 | FACE5 | PX | -.000295 | -.000295 | 0 | 0 |
| 84 | FACE2 | PX | -.000295 | -.000295 | 0 | 0 |
| 85 | FACE1 | PX | -.000295 | -.000295 | 0 | 0 |
| 86 | FACE4 | PX | -.000295 | -.000295 | 0 | 0 |
| 87 | FACE3 | PX | -.000295 | -.000295 | 0 | 0 |
| 88 | CORNER3 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 89 | CORNER2 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 90 | CORNER1 | PX | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | -.000352 | -.000352 | 0 | 0 |
| 92 | MSTAB1 | PX | -.000352 | -.000352 | 0 | 0 |
| 93 | MSTAB6 | PX | -.000352 | -.000352 | 0 | 0 |
| 94 | MSTAB5 | PX | -.000352 | -.000352 | 0 | 0 |
| 95 | MSTAB4 | PX | -.000352 | -.000352 | 0 | 0 |
| 96 | MSTAB3 | PX | -.000352 | -.000352 | 0 | 0 |
| 97 | MRAIL2 | PX | -.0002 | -.0002 | 0 | 0 |
| 98 | MRAIL1 | PX | -.0002 | -.0002 | 0 | 0 |
| 99 | MRAIL3 | PX | -.0002 | -.0002 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.000352 | -.000352 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.000352 | -.000352 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.000352 | -.000352 | 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 | SUPPORT3 | PY | .000113 | .000113 | 0 | 0 |
| 2 | SUPPORT2 | PY | .000113 | .000113 | 0 | 0 |
| 3 | SUPPORT1 | PY | .000113 | .000113 | 0 | 0 |
| 4 | SO3 | PY | .000703 | .000703 | 0 | 0 |
| 5 | SO2 | PY | .000703 | .000703 | 0 | 0 |
| 6 | SO1 | PY | .000703 | .000703 | 0 | 0 |
| 7 | P SUPPORT6 | PY | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .000598 | .000598 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .000598 | .000598 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .000598 | .000598 | 0 | 0 |
| 16 | MP BETA3 | PY | .000598 | .000598 | 0 | 0 |
| 17 | MP BETA2 | PY | .000598 | .000598 | 0 | 0 |
| 18 | MP BETA1 | PY | .000598 | .000598 | 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,%] |
|---|---|---|---|---|---|---|
| 19 | MP ALPHA3 | PY | .000598 | .000598 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .000598 | .000598 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .000598 | .000598 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .000422 | .000422 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .000422 | .000422 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .000422 | .000422 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .000422 | .000422 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .000422 | .000422 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .000422 | .000422 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .000422 | .000422 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .000422 | .000422 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .000422 | .000422 | 0 | 0 |
| 31 | FACE6 | PY | .000591 | .000591 | 0 | 0 |
| 32 | FACE5 | PY | .000591 | .000591 | 0 | 0 |
| 33 | FACE2 | PY | .000591 | .000591 | 0 | 0 |
| 34 | FACE1 | PY | .000591 | .000591 | 0 | 0 |
| 35 | FACE4 | PY | .000591 | .000591 | 0 | 0 |
| 36 | FACE3 | PY | .000591 | .000591 | 0 | 0 |
| 37 | CORNER3 | PY | .000113 | .000113 | 0 | 0 |
| 38 | CORNER2 | PY | .000113 | .000113 | 0 | 0 |
| 39 | CORNER1 | PY | .000113 | .000113 | 0 | 0 |
| 40 | MSTAB2 | PY | .000703 | .000703 | 0 | 0 |
| 41 | MSTAB1 | PY | .000703 | .000703 | 0 | 0 |
| 42 | MSTAB6 | PY | .000703 | .000703 | 0 | 0 |
| 43 | MSTAB5 | PY | .000703 | .000703 | 0 | 0 |
| 44 | MSTAB4 | PY | .000703 | .000703 | 0 | 0 |
| 45 | MSTAB3 | PY | .000703 | .000703 | 0 | 0 |
| 46 | MRAIL2 | PY | .000401 | .000401 | 0 | 0 |
| 47 | MRAIL1 | PY | .000401 | .000401 | 0 | 0 |
| 48 | MRAIL3 | PY | .000401 | .000401 | 0 | 0 |
| 49 | MRCORNER1 | PY | .000703 | .000703 | 0 | 0 |
| 50 | MRCORNER3 | PY | .000703 | .000703 | 0 | 0 |
| 51 | MRCORNER2 | PY | .000703 | .000703 | 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 | SUPPORT3 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 4 | SO3 | PY | .000609 | .000609 | 0 | 0 |
| 5 | SO2 | PY | .000609 | .000609 | 0 | 0 |
| 6 | SO1 | PY | .000609 | .000609 | 0 | 0 |
| 7 | P SUPPORT6 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .000518 | .000518 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .000518 | .000518 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .000518 | .000518 | 0 | 0 |
| 16 | MP BETA3 | PY | .000518 | .000518 | 0 | 0 |
| 17 | MP BETA2 | PY | .000518 | .000518 | 0 | 0 |
| 18 | MP BETA1 | PY | .000518 | .000518 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .000518 | .000518 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .000518 | .000518 | 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,%] |
|---|---|---|---|---|---|---|
| 21 | MP ALPHA1 | PY | .000518 | .000518 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .000365 | .000365 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .000365 | .000365 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .000365 | .000365 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .000365 | .000365 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .000365 | .000365 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .000365 | .000365 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .000365 | .000365 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .000365 | .000365 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .000365 | .000365 | 0 | 0 |
| 31 | FACE2 | PY | .000512 | .000512 | 0 | 0 |
| 32 | FACE1 | PY | .000512 | .000512 | 0 | 0 |
| 33 | FACE4 | PY | .000512 | .000512 | 0 | 0 |
| 34 | FACE3 | PY | .000512 | .000512 | 0 | 0 |
| 35 | FACE6 | PY | .000512 | .000512 | 0 | 0 |
| 36 | FACE5 | PY | .000512 | .000512 | 0 | 0 |
| 37 | CORNER3 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 38 | CORNER2 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 39 | CORNER1 | PY | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | .000609 | .000609 | 0 | 0 |
| 41 | MSTAB1 | PY | .000609 | .000609 | 0 | 0 |
| 42 | MSTAB6 | PY | .000609 | .000609 | 0 | 0 |
| 43 | MSTAB5 | PY | .000609 | .000609 | 0 | 0 |
| 44 | MSTAB4 | PY | .000609 | .000609 | 0 | 0 |
| 45 | MSTAB3 | PY | .000609 | .000609 | 0 | 0 |
| 46 | MRAIL3 | PY | .000347 | .000347 | 0 | 0 |
| 47 | MRAIL2 | PY | .000347 | .000347 | 0 | 0 |
| 48 | MRAIL1 | PY | .000347 | .000347 | 0 | 0 |
| 49 | MRCORNER1 | PY | .000609 | .000609 | 0 | 0 |
| 50 | MRCORNER3 | PY | .000609 | .000609 | 0 | 0 |
| 51 | MRCORNER2 | PY | .000609 | .000609 | 0 | 0 |
| 52 | SUPPORT3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 55 | SO3 | PX | .000352 | .000352 | 0 | 0 |
| 56 | SO2 | PX | .000352 | .000352 | 0 | 0 |
| 57 | SO1 | PX | .000352 | .000352 | 0 | 0 |
| 58 | P SUPPORT6 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .000299 | .000299 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .000299 | .000299 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .000299 | .000299 | 0 | 0 |
| 67 | MP BETA3 | PX | .000299 | .000299 | 0 | 0 |
| 68 | MP BETA2 | PX | .000299 | .000299 | 0 | 0 |
| 69 | MP BETA1 | PX | .000299 | .000299 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .000299 | .000299 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .000299 | .000299 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .000299 | .000299 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .000211 | .000211 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .000211 | .000211 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .000211 | .000211 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .000211 | .000211 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .000211 | .000211 | 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,%] |
|---|---|---|---|---|---|---|
| 78 | G SUPPORT4 | PX | .000211 | .000211 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .000211 | .000211 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .000211 | .000211 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .000211 | .000211 | 0 | 0 |
| 82 | FACE2 | PX | .000295 | .000295 | 0 | 0 |
| 83 | FACE1 | PX | .000295 | .000295 | 0 | 0 |
| 84 | FACE4 | PX | .000295 | .000295 | 0 | 0 |
| 85 | FACE3 | PX | .000295 | .000295 | 0 | 0 |
| 86 | FACE6 | PX | .000295 | .000295 | 0 | 0 |
| 87 | FACE5 | PX | .000295 | .000295 | 0 | 0 |
| 88 | CORNER3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 89 | CORNER2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 90 | CORNER1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | .000352 | .000352 | 0 | 0 |
| 92 | MSTAB1 | PX | .000352 | .000352 | 0 | 0 |
| 93 | MSTAB6 | PX | .000352 | .000352 | 0 | 0 |
| 94 | MSTAB5 | PX | .000352 | .000352 | 0 | 0 |
| 95 | MSTAB4 | PX | .000352 | .000352 | 0 | 0 |
| 96 | MSTAB3 | PX | .000352 | .000352 | 0 | 0 |
| 97 | MRAIL3 | PX | .0002 | .0002 | 0 | 0 |
| 98 | MRAIL2 | PX | .0002 | .0002 | 0 | 0 |
| 99 | MRAIL1 | PX | .0002 | .0002 | 0 | 0 |
| 100 | MRCORNER1 | PX | .000352 | .000352 | 0 | 0 |
| 101 | MRCORNER3 | PX | .000352 | .000352 | 0 | 0 |
| 102 | MRCORNER2 | PX | .000352 | .000352 | 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 | SUPPORT3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 4 | SO3 | PY | .000352 | .000352 | 0 | 0 |
| 5 | SO2 | PY | .000352 | .000352 | 0 | 0 |
| 6 | SO1 | PY | .000352 | .000352 | 0 | 0 |
| 7 | P SUPPORT6 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .000299 | .000299 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .000299 | .000299 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .000299 | .000299 | 0 | 0 |
| 16 | MP BETA3 | PY | .000299 | .000299 | 0 | 0 |
| 17 | MP BETA2 | PY | .000299 | .000299 | 0 | 0 |
| 18 | MP BETA1 | PY | .000299 | .000299 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .000299 | .000299 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .000299 | .000299 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .000299 | .000299 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .000211 | .000211 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .000211 | .000211 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .000211 | .000211 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .000211 | .000211 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .000211 | .000211 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .000211 | .000211 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .000211 | .000211 | 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,%] |
|---|---|---|---|---|---|---|
| 29 | G SUPPORT2 | PY | .000211 | .000211 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .000211 | .000211 | 0 | 0 |
| 31 | FACE2 | PY | .000295 | .000295 | 0 | 0 |
| 32 | FACE1 | PY | .000295 | .000295 | 0 | 0 |
| 33 | FACE4 | PY | .000295 | .000295 | 0 | 0 |
| 34 | FACE3 | PY | .000295 | .000295 | 0 | 0 |
| 35 | FACE6 | PY | .000295 | .000295 | 0 | 0 |
| 36 | FACE5 | PY | .000295 | .000295 | 0 | 0 |
| 37 | CORNER3 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 38 | CORNER2 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 39 | CORNER1 | PY | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | .000352 | .000352 | 0 | 0 |
| 41 | MSTAB1 | PY | .000352 | .000352 | 0 | 0 |
| 42 | MSTAB6 | PY | .000352 | .000352 | 0 | 0 |
| 43 | MSTAB5 | PY | .000352 | .000352 | 0 | 0 |
| 44 | MSTAB4 | PY | .000352 | .000352 | 0 | 0 |
| 45 | MSTAB3 | PY | .000352 | .000352 | 0 | 0 |
| 46 | MRAIL3 | PY | .0002 | .0002 | 0 | 0 |
| 47 | MRAIL2 | PY | .0002 | .0002 | 0 | 0 |
| 48 | MRAIL1 | PY | .0002 | .0002 | 0 | 0 |
| 49 | MRCORNER1 | PY | .000352 | .000352 | 0 | 0 |
| 50 | MRCORNER3 | PY | .000352 | .000352 | 0 | 0 |
| 51 | MRCORNER2 | PY | .000352 | .000352 | 0 | 0 |
| 52 | SUPPORT3 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 55 | SO3 | PX | .000609 | .000609 | 0 | 0 |
| 56 | SO2 | PX | .000609 | .000609 | 0 | 0 |
| 57 | SO1 | PX | .000609 | .000609 | 0 | 0 |
| 58 | P SUPPORT6 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .000518 | .000518 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .000518 | .000518 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .000518 | .000518 | 0 | 0 |
| 67 | MP BETA3 | PX | .000518 | .000518 | 0 | 0 |
| 68 | MP BETA2 | PX | .000518 | .000518 | 0 | 0 |
| 69 | MP BETA1 | PX | .000518 | .000518 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .000518 | .000518 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .000518 | .000518 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .000518 | .000518 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .000365 | .000365 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .000365 | .000365 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .000365 | .000365 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .000365 | .000365 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .000365 | .000365 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .000365 | .000365 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .000365 | .000365 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .000365 | .000365 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .000365 | .000365 | 0 | 0 |
| 82 | FACE2 | PX | .000512 | .000512 | 0 | 0 |
| 83 | FACE1 | PX | .000512 | .000512 | 0 | 0 |
| 84 | FACE4 | PX | .000512 | .000512 | 0 | 0 |
| 85 | FACE3 | PX | .000512 | .000512 | 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,%] |
|---|---|---|---|---|---|---|
| 86 | FACE6 | PX | .000512 | .000512 | 0 | 0 |
| 87 | FACE5 | PX | .000512 | .000512 | 0 | 0 |
| 88 | CORNER3 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 89 | CORNER2 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 90 | CORNER1 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | .000609 | .000609 | 0 | 0 |
| 92 | MSTAB1 | PX | .000609 | .000609 | 0 | 0 |
| 93 | MSTAB6 | PX | .000609 | .000609 | 0 | 0 |
| 94 | MSTAB5 | PX | .000609 | .000609 | 0 | 0 |
| 95 | MSTAB4 | PX | .000609 | .000609 | 0 | 0 |
| 96 | MSTAB3 | PX | .000609 | .000609 | 0 | 0 |
| 97 | MRAIL3 | PX | .000347 | .000347 | 0 | 0 |
| 98 | MRAIL2 | PX | .000347 | .000347 | 0 | 0 |
| 99 | MRAIL1 | PX | .000347 | .000347 | 0 | 0 |
| 100 | MRCORNER1 | PX | .000609 | .000609 | 0 | 0 |
| 101 | MRCORNER3 | PX | .000609 | .000609 | 0 | 0 |
| 102 | MRCORNER2 | PX | .000609 | .000609 | 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 | SUPPORT3 | PX | .000113 | .000113 | 0 | 0 |
| 2 | SUPPORT2 | PX | .000113 | .000113 | 0 | 0 |
| 3 | SUPPORT1 | PX | .000113 | .000113 | 0 | 0 |
| 4 | SO3 | PX | .000703 | .000703 | 0 | 0 |
| 5 | SO2 | PX | .000703 | .000703 | 0 | 0 |
| 6 | SO1 | PX | .000703 | .000703 | 0 | 0 |
| 7 | P SUPPORT6 | PX | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PX | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PX | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PX | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PX | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PX | 8.4e-5 | 8.4e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PX | .000598 | .000598 | 0 | 0 |
| 14 | MP GAMMA2 | PX | .000598 | .000598 | 0 | 0 |
| 15 | MP GAMMA1 | PX | .000598 | .000598 | 0 | 0 |
| 16 | MP BETA3 | PX | .000598 | .000598 | 0 | 0 |
| 17 | MP BETA2 | PX | .000598 | .000598 | 0 | 0 |
| 18 | MP BETA1 | PX | .000598 | .000598 | 0 | 0 |
| 19 | MP ALPHA3 | PX | .000598 | .000598 | 0 | 0 |
| 20 | MP ALPHA2 | PX | .000598 | .000598 | 0 | 0 |
| 21 | MP ALPHA1 | PX | .000598 | .000598 | 0 | 0 |
| 22 | G SUPPORT9 | PX | .000422 | .000422 | 0 | 0 |
| 23 | G SUPPORT8 | PX | .000422 | .000422 | 0 | 0 |
| 24 | G SUPPORT7 | PX | .000422 | .000422 | 0 | 0 |
| 25 | G SUPPORT6 | PX | .000422 | .000422 | 0 | 0 |
| 26 | G SUPPORT5 | PX | .000422 | .000422 | 0 | 0 |
| 27 | G SUPPORT4 | PX | .000422 | .000422 | 0 | 0 |
| 28 | G SUPPORT3 | PX | .000422 | .000422 | 0 | 0 |
| 29 | G SUPPORT2 | PX | .000422 | .000422 | 0 | 0 |
| 30 | G SUPPORT1 | PX | .000422 | .000422 | 0 | 0 |
| 31 | FACE2 | PX | .000591 | .000591 | 0 | 0 |
| 32 | FACE1 | PX | .000591 | .000591 | 0 | 0 |
| 33 | FACE4 | PX | .000591 | .000591 | 0 | 0 |
| 34 | FACE3 | PX | .000591 | .000591 | 0 | 0 |
| 35 | FACE6 | PX | .000591 | .000591 | 0 | 0 |
| 36 | FACE5 | PX | .000591 | .000591 | 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,%] |
|---|---|---|---|---|---|---|
| 37 | CORNER3 | PX | .000113 | .000113 | 0 | 0 |
| 38 | CORNER2 | PX | .000113 | .000113 | 0 | 0 |
| 39 | CORNER1 | PX | .000113 | .000113 | 0 | 0 |
| 40 | MSTAB2 | PX | .000703 | .000703 | 0 | 0 |
| 41 | MSTAB1 | PX | .000703 | .000703 | 0 | 0 |
| 42 | MSTAB6 | PX | .000703 | .000703 | 0 | 0 |
| 43 | MSTAB5 | PX | .000703 | .000703 | 0 | 0 |
| 44 | MSTAB4 | PX | .000703 | .000703 | 0 | 0 |
| 45 | MSTAB3 | PX | .000703 | .000703 | 0 | 0 |
| 46 | MRAIL3 | PX | .000401 | .000401 | 0 | 0 |
| 47 | MRAIL2 | PX | .000401 | .000401 | 0 | 0 |
| 48 | MRAIL1 | PX | .000401 | .000401 | 0 | 0 |
| 49 | MRCORNER1 | PX | .000703 | .000703 | 0 | 0 |
| 50 | MRCORNER3 | PX | .000703 | .000703 | 0 | 0 |
| 51 | MRCORNER2 | PX | .000703 | .000703 | 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 | SUPPORT3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 4 | SO3 | PY | -.000352 | -.000352 | 0 | 0 |
| 5 | SO2 | PY | -.000352 | -.000352 | 0 | 0 |
| 6 | SO1 | PY | -.000352 | -.000352 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -4.2e-5 | -4.2e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.000299 | -.000299 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.000299 | -.000299 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.000299 | -.000299 | 0 | 0 |
| 16 | MP BETA3 | PY | -.000299 | -.000299 | 0 | 0 |
| 17 | MP BETA2 | PY | -.000299 | -.000299 | 0 | 0 |
| 18 | MP BETA1 | PY | -.000299 | -.000299 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.000299 | -.000299 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.000299 | -.000299 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.000299 | -.000299 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.000211 | -.000211 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.000211 | -.000211 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.000211 | -.000211 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.000211 | -.000211 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.000211 | -.000211 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.000211 | -.000211 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.000211 | -.000211 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.000211 | -.000211 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.000211 | -.000211 | 0 | 0 |
| 31 | FACE2 | PY | -.000295 | -.000295 | 0 | 0 |
| 32 | FACE1 | PY | -.000295 | -.000295 | 0 | 0 |
| 33 | FACE4 | PY | -.000295 | -.000295 | 0 | 0 |
| 34 | FACE3 | PY | -.000295 | -.000295 | 0 | 0 |
| 35 | FACE6 | PY | -.000295 | -.000295 | 0 | 0 |
| 36 | FACE5 | PY | -.000295 | -.000295 | 0 | 0 |
| 37 | CORNER3 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 38 | CORNER2 | PY | -5.6e-5 | -5.6e-5 | 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,%] |
|---|---|---|---|---|---|---|
| 39 | CORNER1 | PY | -5.6e-5 | -5.6e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | -.000352 | -.000352 | 0 | 0 |
| 41 | MSTAB1 | PY | -.000352 | -.000352 | 0 | 0 |
| 42 | MSTAB6 | PY | -.000352 | -.000352 | 0 | 0 |
| 43 | MSTAB5 | PY | -.000352 | -.000352 | 0 | 0 |
| 44 | MSTAB4 | PY | -.000352 | -.000352 | 0 | 0 |
| 45 | MSTAB3 | PY | -.000352 | -.000352 | 0 | 0 |
| 46 | MRAIL3 | PY | -.0002 | -.0002 | 0 | 0 |
| 47 | MRAIL2 | PY | -.0002 | -.0002 | 0 | 0 |
| 48 | MRAIL1 | PY | -.0002 | -.0002 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.000352 | -.000352 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.000352 | -.000352 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.000352 | -.000352 | 0 | 0 |
| 52 | SUPPORT3 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 55 | SO3 | PX | .000609 | .000609 | 0 | 0 |
| 56 | SO2 | PX | .000609 | .000609 | 0 | 0 |
| 57 | SO1 | PX | .000609 | .000609 | 0 | 0 |
| 58 | P SUPPORT6 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | 7.3e-5 | 7.3e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .000518 | .000518 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .000518 | .000518 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .000518 | .000518 | 0 | 0 |
| 67 | MP BETA3 | PX | .000518 | .000518 | 0 | 0 |
| 68 | MP BETA2 | PX | .000518 | .000518 | 0 | 0 |
| 69 | MP BETA1 | PX | .000518 | .000518 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .000518 | .000518 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .000518 | .000518 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .000518 | .000518 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .000365 | .000365 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .000365 | .000365 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .000365 | .000365 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .000365 | .000365 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .000365 | .000365 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .000365 | .000365 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .000365 | .000365 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .000365 | .000365 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .000365 | .000365 | 0 | 0 |
| 82 | FACE2 | PX | .000512 | .000512 | 0 | 0 |
| 83 | FACE1 | PX | .000512 | .000512 | 0 | 0 |
| 84 | FACE4 | PX | .000512 | .000512 | 0 | 0 |
| 85 | FACE3 | PX | .000512 | .000512 | 0 | 0 |
| 86 | FACE6 | PX | .000512 | .000512 | 0 | 0 |
| 87 | FACE5 | PX | .000512 | .000512 | 0 | 0 |
| 88 | CORNER3 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 89 | CORNER2 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 90 | CORNER1 | PX | 9.7e-5 | 9.7e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | .000609 | .000609 | 0 | 0 |
| 92 | MSTAB1 | PX | .000609 | .000609 | 0 | 0 |
| 93 | MSTAB6 | PX | .000609 | .000609 | 0 | 0 |
| 94 | MSTAB5 | PX | .000609 | .000609 | 0 | 0 |
| 95 | MSTAB4 | PX | .000609 | .000609 | 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,%] |
|---|---|---|---|---|---|---|
| 96 | MSTAB3 | PX | .000609 | .000609 | 0 | 0 |
| 97 | MRAIL3 | PX | .000347 | .000347 | 0 | 0 |
| 98 | MRAIL2 | PX | .000347 | .000347 | 0 | 0 |
| 99 | MRAIL1 | PX | .000347 | .000347 | 0 | 0 |
| 100 | MRCORNER1 | PX | .000609 | .000609 | 0 | 0 |
| 101 | MRCORNER3 | PX | .000609 | .000609 | 0 | 0 |
| 102 | MRCORNER2 | PX | .000609 | .000609 | 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 | SUPPORT3 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 2 | SUPPORT2 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 3 | SUPPORT1 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 4 | SO3 | PY | -.000609 | -.000609 | 0 | 0 |
| 5 | SO2 | PY | -.000609 | -.000609 | 0 | 0 |
| 6 | SO1 | PY | -.000609 | -.000609 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -7.3e-5 | -7.3e-5 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.000518 | -.000518 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.000518 | -.000518 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.000518 | -.000518 | 0 | 0 |
| 16 | MP BETA3 | PY | -.000518 | -.000518 | 0 | 0 |
| 17 | MP BETA2 | PY | -.000518 | -.000518 | 0 | 0 |
| 18 | MP BETA1 | PY | -.000518 | -.000518 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.000518 | -.000518 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.000518 | -.000518 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.000518 | -.000518 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.000365 | -.000365 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.000365 | -.000365 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.000365 | -.000365 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.000365 | -.000365 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.000365 | -.000365 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.000365 | -.000365 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.000365 | -.000365 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.000365 | -.000365 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.000365 | -.000365 | 0 | 0 |
| 31 | FACE6 | PY | -.000512 | -.000512 | 0 | 0 |
| 32 | FACE5 | PY | -.000512 | -.000512 | 0 | 0 |
| 33 | FACE4 | PY | -.000512 | -.000512 | 0 | 0 |
| 34 | FACE3 | PY | -.000512 | -.000512 | 0 | 0 |
| 35 | FACE2 | PY | -.000512 | -.000512 | 0 | 0 |
| 36 | FACE1 | PY | -.000512 | -.000512 | 0 | 0 |
| 37 | CORNER3 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 38 | CORNER2 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 39 | CORNER1 | PY | -9.7e-5 | -9.7e-5 | 0 | 0 |
| 40 | MSTAB2 | PY | -.000609 | -.000609 | 0 | 0 |
| 41 | MSTAB1 | PY | -.000609 | -.000609 | 0 | 0 |
| 42 | MSTAB6 | PY | -.000609 | -.000609 | 0 | 0 |
| 43 | MSTAB5 | PY | -.000609 | -.000609 | 0 | 0 |
| 44 | MSTAB4 | PY | -.000609 | -.000609 | 0 | 0 |
| 45 | MSTAB3 | PY | -.000609 | -.000609 | 0 | 0 |
| 46 | MRAIL1 | PY | -.000347 | -.000347 | 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,%] |
|---|---|---|---|---|---|---|
| 47 | MRAIL2 | PY | -.000347 | -.000347 | 0 | 0 |
| 48 | MRAIL3 | PY | -.000347 | -.000347 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.000609 | -.000609 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.000609 | -.000609 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.000609 | -.000609 | 0 | 0 |
| 52 | SUPPORT3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 53 | SUPPORT2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 54 | SUPPORT1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 55 | SO3 | PX | .000352 | .000352 | 0 | 0 |
| 56 | SO2 | PX | .000352 | .000352 | 0 | 0 |
| 57 | SO1 | PX | .000352 | .000352 | 0 | 0 |
| 58 | P SUPPORT6 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 59 | P SUPPORT5 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 60 | P SUPPORT4 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 61 | P SUPPORT3 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 62 | P SUPPORT2 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 63 | P SUPPORT1 | PX | 4.2e-5 | 4.2e-5 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .000299 | .000299 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .000299 | .000299 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .000299 | .000299 | 0 | 0 |
| 67 | MP BETA3 | PX | .000299 | .000299 | 0 | 0 |
| 68 | MP BETA2 | PX | .000299 | .000299 | 0 | 0 |
| 69 | MP BETA1 | PX | .000299 | .000299 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .000299 | .000299 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .000299 | .000299 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .000299 | .000299 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .000211 | .000211 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .000211 | .000211 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .000211 | .000211 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .000211 | .000211 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .000211 | .000211 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .000211 | .000211 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .000211 | .000211 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .000211 | .000211 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .000211 | .000211 | 0 | 0 |
| 82 | FACE6 | PX | .000295 | .000295 | 0 | 0 |
| 83 | FACE5 | PX | .000295 | .000295 | 0 | 0 |
| 84 | FACE4 | PX | .000295 | .000295 | 0 | 0 |
| 85 | FACE3 | PX | .000295 | .000295 | 0 | 0 |
| 86 | FACE2 | PX | .000295 | .000295 | 0 | 0 |
| 87 | FACE1 | PX | .000295 | .000295 | 0 | 0 |
| 88 | CORNER3 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 89 | CORNER2 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 90 | CORNER1 | PX | 5.6e-5 | 5.6e-5 | 0 | 0 |
| 91 | MSTAB2 | PX | .000352 | .000352 | 0 | 0 |
| 92 | MSTAB1 | PX | .000352 | .000352 | 0 | 0 |
| 93 | MSTAB6 | PX | .000352 | .000352 | 0 | 0 |
| 94 | MSTAB5 | PX | .000352 | .000352 | 0 | 0 |
| 95 | MSTAB4 | PX | .000352 | .000352 | 0 | 0 |
| 96 | MSTAB3 | PX | .000352 | .000352 | 0 | 0 |
| 97 | MRAIL1 | PX | .0002 | .0002 | 0 | 0 |
| 98 | MRAIL2 | PX | .0002 | .0002 | 0 | 0 |
| 99 | MRAIL3 | PX | .0002 | .0002 | 0 | 0 |
| 100 | MRCORNER1 | PX | .000352 | .000352 | 0 | 0 |
| 101 | MRCORNER3 | PX | .000352 | .000352 | 0 | 0 |
| 102 | MRCORNER2 | PX | .000352 | .000352 | 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 | SUPPORT3 | Z | -.006 | -.006 | 0 | 0 |
| 2 | SUPPORT2 | Z | -.006 | -.006 | 0 | 0 |
| 3 | SUPPORT1 | Z | -.006 | -.006 | 0 | 0 |
| 4 | SO3 | Z | -.009 | -.009 | 0 | 0 |
| 5 | SO2 | Z | -.009 | -.009 | 0 | 0 |
| 6 | SO1 | Z | -.009 | -.009 | 0 | 0 |
| 7 | P SUPPORT6 | Z | -.004 | -.004 | 0 | 0 |
| 8 | P SUPPORT5 | Z | -.004 | -.004 | 0 | 0 |
| 9 | P SUPPORT4 | Z | -.004 | -.004 | 0 | 0 |
| 10 | P SUPPORT3 | Z | -.004 | -.004 | 0 | 0 |
| 11 | P SUPPORT2 | Z | -.004 | -.004 | 0 | 0 |
| 12 | P SUPPORT1 | Z | -.004 | -.004 | 0 | 0 |
| 13 | MP GAMMA3 | Z | -.005 | -.005 | 0 | 0 |
| 14 | MP GAMMA2 | Z | -.005 | -.005 | 0 | 0 |
| 15 | MP GAMMA1 | Z | -.005 | -.005 | 0 | 0 |
| 16 | MP BETA3 | Z | -.005 | -.005 | 0 | 0 |
| 17 | MP BETA2 | Z | -.005 | -.005 | 0 | 0 |
| 18 | MP BETA1 | Z | -.005 | -.005 | 0 | 0 |
| 19 | MP ALPHA3 | Z | -.005 | -.005 | 0 | 0 |
| 20 | MP ALPHA2 | Z | -.005 | -.005 | 0 | 0 |
| 21 | MP ALPHA1 | Z | -.005 | -.005 | 0 | 0 |
| 22 | G SUPPORT9 | Z | -.005 | -.005 | 0 | 0 |
| 23 | G SUPPORT8 | Z | -.005 | -.005 | 0 | 0 |
| 24 | G SUPPORT7 | Z | -.005 | -.005 | 0 | 0 |
| 25 | G SUPPORT6 | Z | -.005 | -.005 | 0 | 0 |
| 26 | G SUPPORT5 | Z | -.005 | -.005 | 0 | 0 |
| 27 | G SUPPORT4 | Z | -.005 | -.005 | 0 | 0 |
| 28 | G SUPPORT3 | Z | -.005 | -.005 | 0 | 0 |
| 29 | G SUPPORT2 | Z | -.005 | -.005 | 0 | 0 |
| 30 | G SUPPORT1 | Z | -.005 | -.005 | 0 | 0 |
| 31 | FACE6 | Z | -.006 | -.006 | 0 | 0 |
| 32 | FACE5 | Z | -.006 | -.006 | 0 | 0 |
| 33 | FACE4 | Z | -.006 | -.006 | 0 | 0 |
| 34 | FACE3 | Z | -.006 | -.006 | 0 | 0 |
| 35 | FACE2 | Z | -.006 | -.006 | 0 | 0 |
| 36 | FACE1 | Z | -.006 | -.006 | 0 | 0 |
| 37 | CORNER3 | Z | -.006 | -.006 | 0 | 0 |
| 38 | CORNER2 | Z | -.006 | -.006 | 0 | 0 |
| 39 | CORNER1 | Z | -.006 | -.006 | 0 | 0 |
| 40 | MSTAB2 | Z | -.006 | -.006 | 0 | 0 |
| 41 | MSTAB1 | Z | -.006 | -.006 | 0 | 0 |
| 42 | MSTAB6 | Z | -.006 | -.006 | 0 | 0 |
| 43 | MSTAB5 | Z | -.006 | -.006 | 0 | 0 |
| 44 | MSTAB4 | Z | -.006 | -.006 | 0 | 0 |
| 45 | MSTAB3 | Z | -.006 | -.006 | 0 | 0 |
| 46 | MRAIL1 | Z | -.005 | -.005 | 0 | 0 |
| 47 | MRAIL2 | Z | -.005 | -.005 | 0 | 0 |
| 48 | MRAIL3 | Z | -.005 | -.005 | 0 | 0 |
| 49 | MRCORNER1 | Z | -.006 | -.006 | 0 | 0 |
| 50 | MRCORNER3 | Z | -.006 | -.006 | 0 | 0 |
| 51 | MRCORNER2 | Z | -.006 | -.006 | 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 | SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | 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,%] |
|---|---|---|---|---|---|---|
| 3 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PY | -.003 | -.003 | 0 | 0 |
| 5 | SO2 | PY | -.003 | -.003 | 0 | 0 |
| 6 | SO1 | PY | -.003 | -.003 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.002 | -.002 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.002 | -.002 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.002 | -.002 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.003 | -.003 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.003 | -.003 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.003 | -.003 | 0 | 0 |
| 16 | MP BETA3 | PY | -.003 | -.003 | 0 | 0 |
| 17 | MP BETA2 | PY | -.003 | -.003 | 0 | 0 |
| 18 | MP BETA1 | PY | -.003 | -.003 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.003 | -.003 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.003 | -.003 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.003 | -.003 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.003 | -.003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.003 | -.003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.003 | -.003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.003 | -.003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.003 | -.003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.003 | -.003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.003 | -.003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | FACE6 | PY | -.003 | -.003 | 0 | 0 |
| 32 | FACE5 | PY | -.003 | -.003 | 0 | 0 |
| 33 | FACE4 | PY | -.003 | -.003 | 0 | 0 |
| 34 | FACE3 | PY | -.003 | -.003 | 0 | 0 |
| 35 | FACE2 | PY | -.003 | -.003 | 0 | 0 |
| 36 | FACE1 | PY | -.003 | -.003 | 0 | 0 |
| 37 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PY | -.004 | -.004 | 0 | 0 |
| 41 | MSTAB1 | PY | -.004 | -.004 | 0 | 0 |
| 42 | MSTAB6 | PY | -.004 | -.004 | 0 | 0 |
| 43 | MSTAB5 | PY | -.004 | -.004 | 0 | 0 |
| 44 | MSTAB4 | PY | -.004 | -.004 | 0 | 0 |
| 45 | MSTAB3 | PY | -.004 | -.004 | 0 | 0 |
| 46 | MRAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 47 | MRAIL2 | PY | -.002 | -.002 | 0 | 0 |
| 48 | MRAIL3 | PY | -.002 | -.002 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.004 | -.004 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.004 | -.004 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.004 | -.004 | 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 | SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PY | -.003 | -.003 | 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,%] |
|---|---|---|---|---|---|---|
| 5 | SO2 | PY | -.003 | -.003 | 0 | 0 |
| 6 | SO1 | PY | -.003 | -.003 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.002 | -.002 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.002 | -.002 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.002 | -.002 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.003 | -.003 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.003 | -.003 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.003 | -.003 | 0 | 0 |
| 16 | MP BETA3 | PY | -.003 | -.003 | 0 | 0 |
| 17 | MP BETA2 | PY | -.003 | -.003 | 0 | 0 |
| 18 | MP BETA1 | PY | -.003 | -.003 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.003 | -.003 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.003 | -.003 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.003 | -.003 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.003 | -.003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.003 | -.003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.003 | -.003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.003 | -.003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.003 | -.003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.003 | -.003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.003 | -.003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | FACE6 | PY | -.002 | -.002 | 0 | 0 |
| 32 | FACE5 | PY | -.002 | -.002 | 0 | 0 |
| 33 | FACE4 | PY | -.002 | -.002 | 0 | 0 |
| 34 | FACE3 | PY | -.002 | -.002 | 0 | 0 |
| 35 | FACE2 | PY | -.002 | -.002 | 0 | 0 |
| 36 | FACE1 | PY | -.002 | -.002 | 0 | 0 |
| 37 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PY | -.003 | -.003 | 0 | 0 |
| 41 | MSTAB1 | PY | -.003 | -.003 | 0 | 0 |
| 42 | MSTAB6 | PY | -.003 | -.003 | 0 | 0 |
| 43 | MSTAB5 | PY | -.003 | -.003 | 0 | 0 |
| 44 | MSTAB4 | PY | -.003 | -.003 | 0 | 0 |
| 45 | MSTAB3 | PY | -.003 | -.003 | 0 | 0 |
| 46 | MRAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 47 | MRAIL2 | PY | -.002 | -.002 | 0 | 0 |
| 48 | MRAIL3 | PY | -.002 | -.002 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.003 | -.003 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.003 | -.003 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.003 | -.003 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 55 | SO3 | PX | -.002 | -.002 | 0 | 0 |
| 56 | SO2 | PX | -.002 | -.002 | 0 | 0 |
| 57 | SO1 | PX | -.002 | -.002 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.000996 | -.000996 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.000996 | -.000996 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.000996 | -.000996 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.000996 | -.000996 | 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,%] |
|---|---|---|---|---|---|---|
| 62 | P SUPPORT2 | PX | -.000996 | -.000996 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.000996 | -.000996 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.002 | -.002 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.002 | -.002 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.002 | -.002 | 0 | 0 |
| 67 | MP BETA3 | PX | -.002 | -.002 | 0 | 0 |
| 68 | MP BETA2 | PX | -.002 | -.002 | 0 | 0 |
| 69 | MP BETA1 | PX | -.002 | -.002 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.002 | -.002 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.002 | -.002 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.002 | -.002 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.001 | -.001 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.001 | -.001 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.001 | -.001 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.001 | -.001 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.001 | -.001 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.001 | -.001 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 82 | FACE6 | PX | -.001 | -.001 | 0 | 0 |
| 83 | FACE5 | PX | -.001 | -.001 | 0 | 0 |
| 84 | FACE4 | PX | -.001 | -.001 | 0 | 0 |
| 85 | FACE3 | PX | -.001 | -.001 | 0 | 0 |
| 86 | FACE2 | PX | -.001 | -.001 | 0 | 0 |
| 87 | FACE1 | PX | -.001 | -.001 | 0 | 0 |
| 88 | CORNER3 | PX | -.001 | -.001 | 0 | 0 |
| 89 | CORNER2 | PX | -.001 | -.001 | 0 | 0 |
| 90 | CORNER1 | PX | -.001 | -.001 | 0 | 0 |
| 91 | MSTAB2 | PX | -.002 | -.002 | 0 | 0 |
| 92 | MSTAB1 | PX | -.002 | -.002 | 0 | 0 |
| 93 | MSTAB6 | PX | -.002 | -.002 | 0 | 0 |
| 94 | MSTAB5 | PX | -.002 | -.002 | 0 | 0 |
| 95 | MSTAB4 | PX | -.002 | -.002 | 0 | 0 |
| 96 | MSTAB3 | PX | -.002 | -.002 | 0 | 0 |
| 97 | MRAIL1 | PX | -.001 | -.001 | 0 | 0 |
| 98 | MRAIL2 | PX | -.001 | -.001 | 0 | 0 |
| 99 | MRAIL3 | PX | -.001 | -.001 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.002 | -.002 | 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 | SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 4 | SO3 | PY | -.002 | -.002 | 0 | 0 |
| 5 | SO2 | PY | -.002 | -.002 | 0 | 0 |
| 6 | SO1 | PY | -.002 | -.002 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.000996 | -.000996 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.000996 | -.000996 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.000996 | -.000996 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.000996 | -.000996 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.000996 | -.000996 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.000996 | -.000996 | 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,%] |
|---|---|---|---|---|---|---|
| 13 | MP GAMMA3 | PY | -.002 | -.002 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.002 | -.002 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.002 | -.002 | 0 | 0 |
| 16 | MP BETA3 | PY | -.002 | -.002 | 0 | 0 |
| 17 | MP BETA2 | PY | -.002 | -.002 | 0 | 0 |
| 18 | MP BETA1 | PY | -.002 | -.002 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.002 | -.002 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.002 | -.002 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.002 | -.002 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.001 | -.001 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.001 | -.001 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.001 | -.001 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.001 | -.001 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.001 | -.001 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.001 | -.001 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 31 | FACE6 | PY | -.001 | -.001 | 0 | 0 |
| 32 | FACE5 | PY | -.001 | -.001 | 0 | 0 |
| 33 | FACE4 | PY | -.001 | -.001 | 0 | 0 |
| 34 | FACE3 | PY | -.001 | -.001 | 0 | 0 |
| 35 | FACE2 | PY | -.001 | -.001 | 0 | 0 |
| 36 | FACE1 | PY | -.001 | -.001 | 0 | 0 |
| 37 | CORNER3 | PY | -.001 | -.001 | 0 | 0 |
| 38 | CORNER2 | PY | -.001 | -.001 | 0 | 0 |
| 39 | CORNER1 | PY | -.001 | -.001 | 0 | 0 |
| 40 | MSTAB2 | PY | -.002 | -.002 | 0 | 0 |
| 41 | MSTAB1 | PY | -.002 | -.002 | 0 | 0 |
| 42 | MSTAB6 | PY | -.002 | -.002 | 0 | 0 |
| 43 | MSTAB5 | PY | -.002 | -.002 | 0 | 0 |
| 44 | MSTAB4 | PY | -.002 | -.002 | 0 | 0 |
| 45 | MSTAB3 | PY | -.002 | -.002 | 0 | 0 |
| 46 | MRAIL1 | PY | -.001 | -.001 | 0 | 0 |
| 47 | MRAIL2 | PY | -.001 | -.001 | 0 | 0 |
| 48 | MRAIL3 | PY | -.001 | -.001 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 55 | SO3 | PX | -.003 | -.003 | 0 | 0 |
| 56 | SO2 | PX | -.003 | -.003 | 0 | 0 |
| 57 | SO1 | PX | -.003 | -.003 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.002 | -.002 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.002 | -.002 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.002 | -.002 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.003 | -.003 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.003 | -.003 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.003 | -.003 | 0 | 0 |
| 67 | MP BETA3 | PX | -.003 | -.003 | 0 | 0 |
| 68 | MP BETA2 | PX | -.003 | -.003 | 0 | 0 |
| 69 | MP BETA1 | PX | -.003 | -.003 | 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,%] |
|---|---|---|---|---|---|---|
| 70 | MP ALPHA3 | PX | -.003 | -.003 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.003 | -.003 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.003 | -.003 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.003 | -.003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.003 | -.003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.003 | -.003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.003 | -.003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.003 | -.003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.003 | -.003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.003 | -.003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.003 | -.003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.003 | -.003 | 0 | 0 |
| 82 | FACE6 | PX | -.002 | -.002 | 0 | 0 |
| 83 | FACE5 | PX | -.002 | -.002 | 0 | 0 |
| 84 | FACE4 | PX | -.002 | -.002 | 0 | 0 |
| 85 | FACE3 | PX | -.002 | -.002 | 0 | 0 |
| 86 | FACE2 | PX | -.002 | -.002 | 0 | 0 |
| 87 | FACE1 | PX | -.002 | -.002 | 0 | 0 |
| 88 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 89 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 90 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 91 | MSTAB2 | PX | -.003 | -.003 | 0 | 0 |
| 92 | MSTAB1 | PX | -.003 | -.003 | 0 | 0 |
| 93 | MSTAB6 | PX | -.003 | -.003 | 0 | 0 |
| 94 | MSTAB5 | PX | -.003 | -.003 | 0 | 0 |
| 95 | MSTAB4 | PX | -.003 | -.003 | 0 | 0 |
| 96 | MSTAB3 | PX | -.003 | -.003 | 0 | 0 |
| 97 | MRAIL1 | PX | -.002 | -.002 | 0 | 0 |
| 98 | MRAIL2 | PX | -.002 | -.002 | 0 | 0 |
| 99 | MRAIL3 | PX | -.002 | -.002 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.003 | -.003 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.003 | -.003 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.003 | -.003 | 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,%] |
|---|---|---|---|---|---|---|
| 1 | SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PX | -.003 | -.003 | 0 | 0 |
| 5 | SO2 | PX | -.003 | -.003 | 0 | 0 |
| 6 | SO1 | PX | -.003 | -.003 | 0 | 0 |
| 7 | P SUPPORT6 | PX | -.002 | -.002 | 0 | 0 |
| 8 | P SUPPORT5 | PX | -.002 | -.002 | 0 | 0 |
| 9 | P SUPPORT4 | PX | -.002 | -.002 | 0 | 0 |
| 10 | P SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 11 | P SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 12 | P SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 13 | MP GAMMA3 | PX | -.003 | -.003 | 0 | 0 |
| 14 | MP GAMMA2 | PX | -.003 | -.003 | 0 | 0 |
| 15 | MP GAMMA1 | PX | -.003 | -.003 | 0 | 0 |
| 16 | MP BETA3 | PX | -.003 | -.003 | 0 | 0 |
| 17 | MP BETA2 | PX | -.003 | -.003 | 0 | 0 |
| 18 | MP BETA1 | PX | -.003 | -.003 | 0 | 0 |
| 19 | MP ALPHA3 | PX | -.003 | -.003 | 0 | 0 |
| 20 | MP ALPHA2 | PX | -.003 | -.003 | 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,%] |
|---|---|---|---|---|---|---|
| 21 | MP ALPHA1 | PX | -.003 | -.003 | 0 | 0 |
| 22 | G SUPPORT9 | PX | -.003 | -.003 | 0 | 0 |
| 23 | G SUPPORT8 | PX | -.003 | -.003 | 0 | 0 |
| 24 | G SUPPORT7 | PX | -.003 | -.003 | 0 | 0 |
| 25 | G SUPPORT6 | PX | -.003 | -.003 | 0 | 0 |
| 26 | G SUPPORT5 | PX | -.003 | -.003 | 0 | 0 |
| 27 | G SUPPORT4 | PX | -.003 | -.003 | 0 | 0 |
| 28 | G SUPPORT3 | PX | -.003 | -.003 | 0 | 0 |
| 29 | G SUPPORT2 | PX | -.003 | -.003 | 0 | 0 |
| 30 | G SUPPORT1 | PX | -.003 | -.003 | 0 | 0 |
| 31 | FACE6 | PX | -.003 | -.003 | 0 | 0 |
| 32 | FACE5 | PX | -.003 | -.003 | 0 | 0 |
| 33 | FACE2 | PX | -.003 | -.003 | 0 | 0 |
| 34 | FACE1 | PX | -.003 | -.003 | 0 | 0 |
| 35 | FACE4 | PX | -.003 | -.003 | 0 | 0 |
| 36 | FACE3 | PX | -.003 | -.003 | 0 | 0 |
| 37 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PX | -.004 | -.004 | 0 | 0 |
| 41 | MSTAB1 | PX | -.004 | -.004 | 0 | 0 |
| 42 | MSTAB6 | PX | -.004 | -.004 | 0 | 0 |
| 43 | MSTAB5 | PX | -.004 | -.004 | 0 | 0 |
| 44 | MSTAB4 | PX | -.004 | -.004 | 0 | 0 |
| 45 | MSTAB3 | PX | -.004 | -.004 | 0 | 0 |
| 46 | MRAIL2 | PX | -.002 | -.002 | 0 | 0 |
| 47 | MRAIL1 | PX | -.002 | -.002 | 0 | 0 |
| 48 | MRAIL3 | PX | -.002 | -.002 | 0 | 0 |
| 49 | MRCORNER1 | PX | -.004 | -.004 | 0 | 0 |
| 50 | MRCORNER3 | PX | -.004 | -.004 | 0 | 0 |
| 51 | MRCORNER2 | PX | -.004 | -.004 | 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 | SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 2 | SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 3 | SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 4 | SO3 | PY | .002 | .002 | 0 | 0 |
| 5 | SO2 | PY | .002 | .002 | 0 | 0 |
| 6 | SO1 | PY | .002 | .002 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .000996 | .000996 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .000996 | .000996 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .000996 | .000996 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .000996 | .000996 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .000996 | .000996 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .000996 | .000996 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .002 | .002 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .002 | .002 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .002 | .002 | 0 | 0 |
| 16 | MP BETA3 | PY | .002 | .002 | 0 | 0 |
| 17 | MP BETA2 | PY | .002 | .002 | 0 | 0 |
| 18 | MP BETA1 | PY | .002 | .002 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .002 | .002 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .002 | .002 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .002 | .002 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .001 | .001 | 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,%] |
|---|---|---|---|---|---|---|
| 23 | G SUPPORT8 | PY | .001 | .001 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .001 | .001 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .001 | .001 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .001 | .001 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .001 | .001 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 31 | FACE6 | PY | .001 | .001 | 0 | 0 |
| 32 | FACE5 | PY | .001 | .001 | 0 | 0 |
| 33 | FACE2 | PY | .001 | .001 | 0 | 0 |
| 34 | FACE1 | PY | .001 | .001 | 0 | 0 |
| 35 | FACE4 | PY | .001 | .001 | 0 | 0 |
| 36 | FACE3 | PY | .001 | .001 | 0 | 0 |
| 37 | CORNER3 | PY | .001 | .001 | 0 | 0 |
| 38 | CORNER2 | PY | .001 | .001 | 0 | 0 |
| 39 | CORNER1 | PY | .001 | .001 | 0 | 0 |
| 40 | MSTAB2 | PY | .002 | .002 | 0 | 0 |
| 41 | MSTAB1 | PY | .002 | .002 | 0 | 0 |
| 42 | MSTAB6 | PY | .002 | .002 | 0 | 0 |
| 43 | MSTAB5 | PY | .002 | .002 | 0 | 0 |
| 44 | MSTAB4 | PY | .002 | .002 | 0 | 0 |
| 45 | MSTAB3 | PY | .002 | .002 | 0 | 0 |
| 46 | MRAIL2 | PY | .001 | .001 | 0 | 0 |
| 47 | MRAIL1 | PY | .001 | .001 | 0 | 0 |
| 48 | MRAIL3 | PY | .001 | .001 | 0 | 0 |
| 49 | MRCORNER1 | PY | .002 | .002 | 0 | 0 |
| 50 | MRCORNER3 | PY | .002 | .002 | 0 | 0 |
| 51 | MRCORNER2 | PY | .002 | .002 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 55 | SO3 | PX | -.003 | -.003 | 0 | 0 |
| 56 | SO2 | PX | -.003 | -.003 | 0 | 0 |
| 57 | SO1 | PX | -.003 | -.003 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.002 | -.002 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.002 | -.002 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.002 | -.002 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.002 | -.002 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.002 | -.002 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.002 | -.002 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.003 | -.003 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.003 | -.003 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.003 | -.003 | 0 | 0 |
| 67 | MP BETA3 | PX | -.003 | -.003 | 0 | 0 |
| 68 | MP BETA2 | PX | -.003 | -.003 | 0 | 0 |
| 69 | MP BETA1 | PX | -.003 | -.003 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.003 | -.003 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.003 | -.003 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.003 | -.003 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.003 | -.003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.003 | -.003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.003 | -.003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.003 | -.003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.003 | -.003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.003 | -.003 | 0 | 0 |
| 79 | G SUPPORT3 | 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,%] |
|---|---|---|---|---|---|---|
| 80 | G SUPPORT2 | PX | -.003 | -.003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.003 | -.003 | 0 | 0 |
| 82 | FACE6 | PX | -.002 | -.002 | 0 | 0 |
| 83 | FACE5 | PX | -.002 | -.002 | 0 | 0 |
| 84 | FACE2 | PX | -.002 | -.002 | 0 | 0 |
| 85 | FACE1 | PX | -.002 | -.002 | 0 | 0 |
| 86 | FACE4 | PX | -.002 | -.002 | 0 | 0 |
| 87 | FACE3 | PX | -.002 | -.002 | 0 | 0 |
| 88 | CORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 89 | CORNER2 | PX | -.002 | -.002 | 0 | 0 |
| 90 | CORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 91 | MSTAB2 | PX | -.003 | -.003 | 0 | 0 |
| 92 | MSTAB1 | PX | -.003 | -.003 | 0 | 0 |
| 93 | MSTAB6 | PX | -.003 | -.003 | 0 | 0 |
| 94 | MSTAB5 | PX | -.003 | -.003 | 0 | 0 |
| 95 | MSTAB4 | PX | -.003 | -.003 | 0 | 0 |
| 96 | MSTAB3 | PX | -.003 | -.003 | 0 | 0 |
| 97 | MRAIL2 | PX | -.002 | -.002 | 0 | 0 |
| 98 | MRAIL1 | PX | -.002 | -.002 | 0 | 0 |
| 99 | MRAIL3 | PX | -.002 | -.002 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.003 | -.003 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.003 | -.003 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.003 | -.003 | 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 | SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 4 | SO3 | PY | .003 | .003 | 0 | 0 |
| 5 | SO2 | PY | .003 | .003 | 0 | 0 |
| 6 | SO1 | PY | .003 | .003 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .002 | .002 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .002 | .002 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .002 | .002 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .003 | .003 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .003 | .003 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .003 | .003 | 0 | 0 |
| 16 | MP BETA3 | PY | .003 | .003 | 0 | 0 |
| 17 | MP BETA2 | PY | .003 | .003 | 0 | 0 |
| 18 | MP BETA1 | PY | .003 | .003 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .003 | .003 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .003 | .003 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .003 | .003 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .003 | .003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .003 | .003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .003 | .003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .003 | .003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .003 | .003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .003 | .003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .003 | .003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .003 | .003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .003 | .003 | 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,%] |
|---|---|---|---|---|---|---|
| 31 | FACE6 | PY | .002 | .002 | 0 | 0 |
| 32 | FACE5 | PY | .002 | .002 | 0 | 0 |
| 33 | FACE2 | PY | .002 | .002 | 0 | 0 |
| 34 | FACE1 | PY | .002 | .002 | 0 | 0 |
| 35 | FACE4 | PY | .002 | .002 | 0 | 0 |
| 36 | FACE3 | PY | .002 | .002 | 0 | 0 |
| 37 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PY | .003 | .003 | 0 | 0 |
| 41 | MSTAB1 | PY | .003 | .003 | 0 | 0 |
| 42 | MSTAB6 | PY | .003 | .003 | 0 | 0 |
| 43 | MSTAB5 | PY | .003 | .003 | 0 | 0 |
| 44 | MSTAB4 | PY | .003 | .003 | 0 | 0 |
| 45 | MSTAB3 | PY | .003 | .003 | 0 | 0 |
| 46 | MRAIL2 | PY | .002 | .002 | 0 | 0 |
| 47 | MRAIL1 | PY | .002 | .002 | 0 | 0 |
| 48 | MRAIL3 | PY | .002 | .002 | 0 | 0 |
| 49 | MRCORNER1 | PY | .003 | .003 | 0 | 0 |
| 50 | MRCORNER3 | PY | .003 | .003 | 0 | 0 |
| 51 | MRCORNER2 | PY | .003 | .003 | 0 | 0 |
| 52 | SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 53 | SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 54 | SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 55 | SO3 | PX | -.002 | -.002 | 0 | 0 |
| 56 | SO2 | PX | -.002 | -.002 | 0 | 0 |
| 57 | SO1 | PX | -.002 | -.002 | 0 | 0 |
| 58 | P SUPPORT6 | PX | -.000996 | -.000996 | 0 | 0 |
| 59 | P SUPPORT5 | PX | -.000996 | -.000996 | 0 | 0 |
| 60 | P SUPPORT4 | PX | -.000996 | -.000996 | 0 | 0 |
| 61 | P SUPPORT3 | PX | -.000996 | -.000996 | 0 | 0 |
| 62 | P SUPPORT2 | PX | -.000996 | -.000996 | 0 | 0 |
| 63 | P SUPPORT1 | PX | -.000996 | -.000996 | 0 | 0 |
| 64 | MP GAMMA3 | PX | -.002 | -.002 | 0 | 0 |
| 65 | MP GAMMA2 | PX | -.002 | -.002 | 0 | 0 |
| 66 | MP GAMMA1 | PX | -.002 | -.002 | 0 | 0 |
| 67 | MP BETA3 | PX | -.002 | -.002 | 0 | 0 |
| 68 | MP BETA2 | PX | -.002 | -.002 | 0 | 0 |
| 69 | MP BETA1 | PX | -.002 | -.002 | 0 | 0 |
| 70 | MP ALPHA3 | PX | -.002 | -.002 | 0 | 0 |
| 71 | MP ALPHA2 | PX | -.002 | -.002 | 0 | 0 |
| 72 | MP ALPHA1 | PX | -.002 | -.002 | 0 | 0 |
| 73 | G SUPPORT9 | PX | -.001 | -.001 | 0 | 0 |
| 74 | G SUPPORT8 | PX | -.001 | -.001 | 0 | 0 |
| 75 | G SUPPORT7 | PX | -.001 | -.001 | 0 | 0 |
| 76 | G SUPPORT6 | PX | -.001 | -.001 | 0 | 0 |
| 77 | G SUPPORT5 | PX | -.001 | -.001 | 0 | 0 |
| 78 | G SUPPORT4 | PX | -.001 | -.001 | 0 | 0 |
| 79 | G SUPPORT3 | PX | -.001 | -.001 | 0 | 0 |
| 80 | G SUPPORT2 | PX | -.001 | -.001 | 0 | 0 |
| 81 | G SUPPORT1 | PX | -.001 | -.001 | 0 | 0 |
| 82 | FACE6 | PX | -.001 | -.001 | 0 | 0 |
| 83 | FACE5 | PX | -.001 | -.001 | 0 | 0 |
| 84 | FACE2 | PX | -.001 | -.001 | 0 | 0 |
| 85 | FACE1 | PX | -.001 | -.001 | 0 | 0 |
| 86 | FACE4 | PX | -.001 | -.001 | 0 | 0 |
| 87 | FACE3 | PX | -.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,%] |
|---|---|---|---|---|---|---|
| 88 | CORNER3 | PX | -.001 | -.001 | 0 | 0 |
| 89 | CORNER2 | PX | -.001 | -.001 | 0 | 0 |
| 90 | CORNER1 | PX | -.001 | -.001 | 0 | 0 |
| 91 | MSTAB2 | PX | -.002 | -.002 | 0 | 0 |
| 92 | MSTAB1 | PX | -.002 | -.002 | 0 | 0 |
| 93 | MSTAB6 | PX | -.002 | -.002 | 0 | 0 |
| 94 | MSTAB5 | PX | -.002 | -.002 | 0 | 0 |
| 95 | MSTAB4 | PX | -.002 | -.002 | 0 | 0 |
| 96 | MSTAB3 | PX | -.002 | -.002 | 0 | 0 |
| 97 | MRAIL2 | PX | -.001 | -.001 | 0 | 0 |
| 98 | MRAIL1 | PX | -.001 | -.001 | 0 | 0 |
| 99 | MRAIL3 | PX | -.001 | -.001 | 0 | 0 |
| 100 | MRCORNER1 | PX | -.002 | -.002 | 0 | 0 |
| 101 | MRCORNER3 | PX | -.002 | -.002 | 0 | 0 |
| 102 | MRCORNER2 | PX | -.002 | -.002 | 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 | SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 4 | SO3 | PY | .003 | .003 | 0 | 0 |
| 5 | SO2 | PY | .003 | .003 | 0 | 0 |
| 6 | SO1 | PY | .003 | .003 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .002 | .002 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .002 | .002 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .002 | .002 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .003 | .003 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .003 | .003 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .003 | .003 | 0 | 0 |
| 16 | MP BETA3 | PY | .003 | .003 | 0 | 0 |
| 17 | MP BETA2 | PY | .003 | .003 | 0 | 0 |
| 18 | MP BETA1 | PY | .003 | .003 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .003 | .003 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .003 | .003 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .003 | .003 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .003 | .003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .003 | .003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .003 | .003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .003 | .003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .003 | .003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .003 | .003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .003 | .003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .003 | .003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .003 | .003 | 0 | 0 |
| 31 | FACE6 | PY | .003 | .003 | 0 | 0 |
| 32 | FACE5 | PY | .003 | .003 | 0 | 0 |
| 33 | FACE2 | PY | .003 | .003 | 0 | 0 |
| 34 | FACE1 | PY | .003 | .003 | 0 | 0 |
| 35 | FACE4 | PY | .003 | .003 | 0 | 0 |
| 36 | FACE3 | PY | .003 | .003 | 0 | 0 |
| 37 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PY | .002 | .002 | 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,%] |
|---|---|---|---|---|---|---|
| 39 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PY | .004 | .004 | 0 | 0 |
| 41 | MSTAB1 | PY | .004 | .004 | 0 | 0 |
| 42 | MSTAB6 | PY | .004 | .004 | 0 | 0 |
| 43 | MSTAB5 | PY | .004 | .004 | 0 | 0 |
| 44 | MSTAB4 | PY | .004 | .004 | 0 | 0 |
| 45 | MSTAB3 | PY | .004 | .004 | 0 | 0 |
| 46 | MRAIL2 | PY | .002 | .002 | 0 | 0 |
| 47 | MRAIL1 | PY | .002 | .002 | 0 | 0 |
| 48 | MRAIL3 | PY | .002 | .002 | 0 | 0 |
| 49 | MRCORNER1 | PY | .004 | .004 | 0 | 0 |
| 50 | MRCORNER3 | PY | .004 | .004 | 0 | 0 |
| 51 | MRCORNER2 | PY | .004 | .004 | 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 | SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 4 | SO3 | PY | .003 | .003 | 0 | 0 |
| 5 | SO2 | PY | .003 | .003 | 0 | 0 |
| 6 | SO1 | PY | .003 | .003 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .002 | .002 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .002 | .002 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .002 | .002 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .002 | .002 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .002 | .002 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .002 | .002 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .003 | .003 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .003 | .003 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .003 | .003 | 0 | 0 |
| 16 | MP BETA3 | PY | .003 | .003 | 0 | 0 |
| 17 | MP BETA2 | PY | .003 | .003 | 0 | 0 |
| 18 | MP BETA1 | PY | .003 | .003 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .003 | .003 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .003 | .003 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .003 | .003 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .003 | .003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .003 | .003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .003 | .003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .003 | .003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .003 | .003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .003 | .003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .003 | .003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .003 | .003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .003 | .003 | 0 | 0 |
| 31 | FACE2 | PY | .002 | .002 | 0 | 0 |
| 32 | FACE1 | PY | .002 | .002 | 0 | 0 |
| 33 | FACE4 | PY | .002 | .002 | 0 | 0 |
| 34 | FACE3 | PY | .002 | .002 | 0 | 0 |
| 35 | FACE6 | PY | .002 | .002 | 0 | 0 |
| 36 | FACE5 | PY | .002 | .002 | 0 | 0 |
| 37 | CORNER3 | PY | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PY | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PY | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PY | .003 | .003 | 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,%] |
|---|---|---|---|---|---|---|
| 41 | MSTAB1 | PY | .003 | .003 | 0 | 0 |
| 42 | MSTAB6 | PY | .003 | .003 | 0 | 0 |
| 43 | MSTAB5 | PY | .003 | .003 | 0 | 0 |
| 44 | MSTAB4 | PY | .003 | .003 | 0 | 0 |
| 45 | MSTAB3 | PY | .003 | .003 | 0 | 0 |
| 46 | MRAIL3 | PY | .002 | .002 | 0 | 0 |
| 47 | MRAIL2 | PY | .002 | .002 | 0 | 0 |
| 48 | MRAIL1 | PY | .002 | .002 | 0 | 0 |
| 49 | MRCORNER1 | PY | .003 | .003 | 0 | 0 |
| 50 | MRCORNER3 | PY | .003 | .003 | 0 | 0 |
| 51 | MRCORNER2 | PY | .003 | .003 | 0 | 0 |
| 52 | SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 53 | SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 54 | SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 55 | SO3 | PX | .002 | .002 | 0 | 0 |
| 56 | SO2 | PX | .002 | .002 | 0 | 0 |
| 57 | SO1 | PX | .002 | .002 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .000996 | .000996 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .000996 | .000996 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .000996 | .000996 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .000996 | .000996 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .000996 | .000996 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .000996 | .000996 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .002 | .002 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .002 | .002 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .002 | .002 | 0 | 0 |
| 67 | MP BETA3 | PX | .002 | .002 | 0 | 0 |
| 68 | MP BETA2 | PX | .002 | .002 | 0 | 0 |
| 69 | MP BETA1 | PX | .002 | .002 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .002 | .002 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .002 | .002 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .002 | .002 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .001 | .001 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .001 | .001 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .001 | .001 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .001 | .001 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .001 | .001 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .001 | .001 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 82 | FACE2 | PX | .001 | .001 | 0 | 0 |
| 83 | FACE1 | PX | .001 | .001 | 0 | 0 |
| 84 | FACE4 | PX | .001 | .001 | 0 | 0 |
| 85 | FACE3 | PX | .001 | .001 | 0 | 0 |
| 86 | FACE6 | PX | .001 | .001 | 0 | 0 |
| 87 | FACE5 | PX | .001 | .001 | 0 | 0 |
| 88 | CORNER3 | PX | .001 | .001 | 0 | 0 |
| 89 | CORNER2 | PX | .001 | .001 | 0 | 0 |
| 90 | CORNER1 | PX | .001 | .001 | 0 | 0 |
| 91 | MSTAB2 | PX | .002 | .002 | 0 | 0 |
| 92 | MSTAB1 | PX | .002 | .002 | 0 | 0 |
| 93 | MSTAB6 | PX | .002 | .002 | 0 | 0 |
| 94 | MSTAB5 | PX | .002 | .002 | 0 | 0 |
| 95 | MSTAB4 | PX | .002 | .002 | 0 | 0 |
| 96 | MSTAB3 | PX | .002 | .002 | 0 | 0 |
| 97 | MRAIL3 | PX | .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,%] |
|---|---|---|---|---|---|---|
| 98 | MRAIL2 | PX | .001 | .001 | 0 | 0 |
| 99 | MRAIL1 | PX | .001 | .001 | 0 | 0 |
| 100 | MRCORNER1 | PX | .002 | .002 | 0 | 0 |
| 101 | MRCORNER3 | PX | .002 | .002 | 0 | 0 |
| 102 | MRCORNER2 | PX | .002 | .002 | 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 | SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 2 | SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 3 | SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 4 | SO3 | PY | .002 | .002 | 0 | 0 |
| 5 | SO2 | PY | .002 | .002 | 0 | 0 |
| 6 | SO1 | PY | .002 | .002 | 0 | 0 |
| 7 | P SUPPORT6 | PY | .000996 | .000996 | 0 | 0 |
| 8 | P SUPPORT5 | PY | .000996 | .000996 | 0 | 0 |
| 9 | P SUPPORT4 | PY | .000996 | .000996 | 0 | 0 |
| 10 | P SUPPORT3 | PY | .000996 | .000996 | 0 | 0 |
| 11 | P SUPPORT2 | PY | .000996 | .000996 | 0 | 0 |
| 12 | P SUPPORT1 | PY | .000996 | .000996 | 0 | 0 |
| 13 | MP GAMMA3 | PY | .002 | .002 | 0 | 0 |
| 14 | MP GAMMA2 | PY | .002 | .002 | 0 | 0 |
| 15 | MP GAMMA1 | PY | .002 | .002 | 0 | 0 |
| 16 | MP BETA3 | PY | .002 | .002 | 0 | 0 |
| 17 | MP BETA2 | PY | .002 | .002 | 0 | 0 |
| 18 | MP BETA1 | PY | .002 | .002 | 0 | 0 |
| 19 | MP ALPHA3 | PY | .002 | .002 | 0 | 0 |
| 20 | MP ALPHA2 | PY | .002 | .002 | 0 | 0 |
| 21 | MP ALPHA1 | PY | .002 | .002 | 0 | 0 |
| 22 | G SUPPORT9 | PY | .001 | .001 | 0 | 0 |
| 23 | G SUPPORT8 | PY | .001 | .001 | 0 | 0 |
| 24 | G SUPPORT7 | PY | .001 | .001 | 0 | 0 |
| 25 | G SUPPORT6 | PY | .001 | .001 | 0 | 0 |
| 26 | G SUPPORT5 | PY | .001 | .001 | 0 | 0 |
| 27 | G SUPPORT4 | PY | .001 | .001 | 0 | 0 |
| 28 | G SUPPORT3 | PY | .001 | .001 | 0 | 0 |
| 29 | G SUPPORT2 | PY | .001 | .001 | 0 | 0 |
| 30 | G SUPPORT1 | PY | .001 | .001 | 0 | 0 |
| 31 | FACE2 | PY | .001 | .001 | 0 | 0 |
| 32 | FACE1 | PY | .001 | .001 | 0 | 0 |
| 33 | FACE4 | PY | .001 | .001 | 0 | 0 |
| 34 | FACE3 | PY | .001 | .001 | 0 | 0 |
| 35 | FACE6 | PY | .001 | .001 | 0 | 0 |
| 36 | FACE5 | PY | .001 | .001 | 0 | 0 |
| 37 | CORNER3 | PY | .001 | .001 | 0 | 0 |
| 38 | CORNER2 | PY | .001 | .001 | 0 | 0 |
| 39 | CORNER1 | PY | .001 | .001 | 0 | 0 |
| 40 | MSTAB2 | PY | .002 | .002 | 0 | 0 |
| 41 | MSTAB1 | PY | .002 | .002 | 0 | 0 |
| 42 | MSTAB6 | PY | .002 | .002 | 0 | 0 |
| 43 | MSTAB5 | PY | .002 | .002 | 0 | 0 |
| 44 | MSTAB4 | PY | .002 | .002 | 0 | 0 |
| 45 | MSTAB3 | PY | .002 | .002 | 0 | 0 |
| 46 | MRAIL3 | PY | .001 | .001 | 0 | 0 |
| 47 | MRAIL2 | PY | .001 | .001 | 0 | 0 |
| 48 | MRAIL1 | 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,%] |
|---|---|---|---|---|---|---|
| 49 | MRCORNER1 | PY | .002 | .002 | 0 | 0 |
| 50 | MRCORNER3 | PY | .002 | .002 | 0 | 0 |
| 51 | MRCORNER2 | PY | .002 | .002 | 0 | 0 |
| 52 | SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 53 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 54 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 55 | SO3 | PX | .003 | .003 | 0 | 0 |
| 56 | SO2 | PX | .003 | .003 | 0 | 0 |
| 57 | SO1 | PX | .003 | .003 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .002 | .002 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .002 | .002 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .002 | .002 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .003 | .003 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .003 | .003 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .003 | .003 | 0 | 0 |
| 67 | MP BETA3 | PX | .003 | .003 | 0 | 0 |
| 68 | MP BETA2 | PX | .003 | .003 | 0 | 0 |
| 69 | MP BETA1 | PX | .003 | .003 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .003 | .003 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .003 | .003 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .003 | .003 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .003 | .003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .003 | .003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .003 | .003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .003 | .003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .003 | .003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .003 | .003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .003 | .003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .003 | .003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .003 | .003 | 0 | 0 |
| 82 | FACE2 | PX | .002 | .002 | 0 | 0 |
| 83 | FACE1 | PX | .002 | .002 | 0 | 0 |
| 84 | FACE4 | PX | .002 | .002 | 0 | 0 |
| 85 | FACE3 | PX | .002 | .002 | 0 | 0 |
| 86 | FACE6 | PX | .002 | .002 | 0 | 0 |
| 87 | FACE5 | PX | .002 | .002 | 0 | 0 |
| 88 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 89 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 90 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 91 | MSTAB2 | PX | .003 | .003 | 0 | 0 |
| 92 | MSTAB1 | PX | .003 | .003 | 0 | 0 |
| 93 | MSTAB6 | PX | .003 | .003 | 0 | 0 |
| 94 | MSTAB5 | PX | .003 | .003 | 0 | 0 |
| 95 | MSTAB4 | PX | .003 | .003 | 0 | 0 |
| 96 | MSTAB3 | PX | .003 | .003 | 0 | 0 |
| 97 | MRAIL3 | PX | .002 | .002 | 0 | 0 |
| 98 | MRAIL2 | PX | .002 | .002 | 0 | 0 |
| 99 | MRAIL1 | PX | .002 | .002 | 0 | 0 |
| 100 | MRCORNER1 | PX | .003 | .003 | 0 | 0 |
| 101 | MRCORNER3 | PX | .003 | .003 | 0 | 0 |
| 102 | MRCORNER2 | PX | .003 | .003 | 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,%] |
|---|---|---|---|---|---|

## 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,%] |
|---|---|---|---|---|---|---|
| 1 | SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 2 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 3 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 4 | SO3 | PX | .003 | .003 | 0 | 0 |
| 5 | SO2 | PX | .003 | .003 | 0 | 0 |
| 6 | SO1 | PX | .003 | .003 | 0 | 0 |
| 7 | P SUPPORT6 | PX | .002 | .002 | 0 | 0 |
| 8 | P SUPPORT5 | PX | .002 | .002 | 0 | 0 |
| 9 | P SUPPORT4 | PX | .002 | .002 | 0 | 0 |
| 10 | P SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 11 | P SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 12 | P SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 13 | MP GAMMA3 | PX | .003 | .003 | 0 | 0 |
| 14 | MP GAMMA2 | PX | .003 | .003 | 0 | 0 |
| 15 | MP GAMMA1 | PX | .003 | .003 | 0 | 0 |
| 16 | MP BETA3 | PX | .003 | .003 | 0 | 0 |
| 17 | MP BETA2 | PX | .003 | .003 | 0 | 0 |
| 18 | MP BETA1 | PX | .003 | .003 | 0 | 0 |
| 19 | MP ALPHA3 | PX | .003 | .003 | 0 | 0 |
| 20 | MP ALPHA2 | PX | .003 | .003 | 0 | 0 |
| 21 | MP ALPHA1 | PX | .003 | .003 | 0 | 0 |
| 22 | G SUPPORT9 | PX | .003 | .003 | 0 | 0 |
| 23 | G SUPPORT8 | PX | .003 | .003 | 0 | 0 |
| 24 | G SUPPORT7 | PX | .003 | .003 | 0 | 0 |
| 25 | G SUPPORT6 | PX | .003 | .003 | 0 | 0 |
| 26 | G SUPPORT5 | PX | .003 | .003 | 0 | 0 |
| 27 | G SUPPORT4 | PX | .003 | .003 | 0 | 0 |
| 28 | G SUPPORT3 | PX | .003 | .003 | 0 | 0 |
| 29 | G SUPPORT2 | PX | .003 | .003 | 0 | 0 |
| 30 | G SUPPORT1 | PX | .003 | .003 | 0 | 0 |
| 31 | FACE2 | PX | .003 | .003 | 0 | 0 |
| 32 | FACE1 | PX | .003 | .003 | 0 | 0 |
| 33 | FACE4 | PX | .003 | .003 | 0 | 0 |
| 34 | FACE3 | PX | .003 | .003 | 0 | 0 |
| 35 | FACE6 | PX | .003 | .003 | 0 | 0 |
| 36 | FACE5 | PX | .003 | .003 | 0 | 0 |
| 37 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 38 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 39 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 40 | MSTAB2 | PX | .004 | .004 | 0 | 0 |
| 41 | MSTAB1 | PX | .004 | .004 | 0 | 0 |
| 42 | MSTAB6 | PX | .004 | .004 | 0 | 0 |
| 43 | MSTAB5 | PX | .004 | .004 | 0 | 0 |
| 44 | MSTAB4 | PX | .004 | .004 | 0 | 0 |
| 45 | MSTAB3 | PX | .004 | .004 | 0 | 0 |
| 46 | MRAIL3 | PX | .002 | .002 | 0 | 0 |
| 47 | MRAIL2 | PX | .002 | .002 | 0 | 0 |
| 48 | MRAIL1 | PX | .002 | .002 | 0 | 0 |
| 49 | MRCORNER1 | PX | .004 | .004 | 0 | 0 |
| 50 | MRCORNER3 | PX | .004 | .004 | 0 | 0 |
| 51 | MRCORNER2 | PX | .004 | .004 | 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 | SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.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,%] |
|---|---|---|---|---|---|---|
| 3 | SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 4 | SO3 | PY | -.002 | -.002 | 0 | 0 |
| 5 | SO2 | PY | -.002 | -.002 | 0 | 0 |
| 6 | SO1 | PY | -.002 | -.002 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.000996 | -.000996 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.000996 | -.000996 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.000996 | -.000996 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.000996 | -.000996 | 0 | 0 |
| 11 | P SUPPORT2 | PY | -.000996 | -.000996 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.000996 | -.000996 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.002 | -.002 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.002 | -.002 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.002 | -.002 | 0 | 0 |
| 16 | MP BETA3 | PY | -.002 | -.002 | 0 | 0 |
| 17 | MP BETA2 | PY | -.002 | -.002 | 0 | 0 |
| 18 | MP BETA1 | PY | -.002 | -.002 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.002 | -.002 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.002 | -.002 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.002 | -.002 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.001 | -.001 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.001 | -.001 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.001 | -.001 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.001 | -.001 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.001 | -.001 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.001 | -.001 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.001 | -.001 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.001 | -.001 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.001 | -.001 | 0 | 0 |
| 31 | FACE2 | PY | -.001 | -.001 | 0 | 0 |
| 32 | FACE1 | PY | -.001 | -.001 | 0 | 0 |
| 33 | FACE4 | PY | -.001 | -.001 | 0 | 0 |
| 34 | FACE3 | PY | -.001 | -.001 | 0 | 0 |
| 35 | FACE6 | PY | -.001 | -.001 | 0 | 0 |
| 36 | FACE5 | PY | -.001 | -.001 | 0 | 0 |
| 37 | CORNER3 | PY | -.001 | -.001 | 0 | 0 |
| 38 | CORNER2 | PY | -.001 | -.001 | 0 | 0 |
| 39 | CORNER1 | PY | -.001 | -.001 | 0 | 0 |
| 40 | MSTAB2 | PY | -.002 | -.002 | 0 | 0 |
| 41 | MSTAB1 | PY | -.002 | -.002 | 0 | 0 |
| 42 | MSTAB6 | PY | -.002 | -.002 | 0 | 0 |
| 43 | MSTAB5 | PY | -.002 | -.002 | 0 | 0 |
| 44 | MSTAB4 | PY | -.002 | -.002 | 0 | 0 |
| 45 | MSTAB3 | PY | -.002 | -.002 | 0 | 0 |
| 46 | MRAIL3 | PY | -.001 | -.001 | 0 | 0 |
| 47 | MRAIL2 | PY | -.001 | -.001 | 0 | 0 |
| 48 | MRAIL1 | PY | -.001 | -.001 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 52 | SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 53 | SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 54 | SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 55 | SO3 | PX | .003 | .003 | 0 | 0 |
| 56 | SO2 | PX | .003 | .003 | 0 | 0 |
| 57 | SO1 | PX | .003 | .003 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .002 | .002 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .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,%] |
|---|---|---|---|---|---|---|
| 60 | P SUPPORT4 | PX | .002 | .002 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .002 | .002 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .002 | .002 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .002 | .002 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .003 | .003 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .003 | .003 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .003 | .003 | 0 | 0 |
| 67 | MP BETA3 | PX | .003 | .003 | 0 | 0 |
| 68 | MP BETA2 | PX | .003 | .003 | 0 | 0 |
| 69 | MP BETA1 | PX | .003 | .003 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .003 | .003 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .003 | .003 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .003 | .003 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .003 | .003 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .003 | .003 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .003 | .003 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .003 | .003 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .003 | .003 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .003 | .003 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .003 | .003 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .003 | .003 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .003 | .003 | 0 | 0 |
| 82 | FACE2 | PX | .002 | .002 | 0 | 0 |
| 83 | FACE1 | PX | .002 | .002 | 0 | 0 |
| 84 | FACE4 | PX | .002 | .002 | 0 | 0 |
| 85 | FACE3 | PX | .002 | .002 | 0 | 0 |
| 86 | FACE6 | PX | .002 | .002 | 0 | 0 |
| 87 | FACE5 | PX | .002 | .002 | 0 | 0 |
| 88 | CORNER3 | PX | .002 | .002 | 0 | 0 |
| 89 | CORNER2 | PX | .002 | .002 | 0 | 0 |
| 90 | CORNER1 | PX | .002 | .002 | 0 | 0 |
| 91 | MSTAB2 | PX | .003 | .003 | 0 | 0 |
| 92 | MSTAB1 | PX | .003 | .003 | 0 | 0 |
| 93 | MSTAB6 | PX | .003 | .003 | 0 | 0 |
| 94 | MSTAB5 | PX | .003 | .003 | 0 | 0 |
| 95 | MSTAB4 | PX | .003 | .003 | 0 | 0 |
| 96 | MSTAB3 | PX | .003 | .003 | 0 | 0 |
| 97 | MRAIL3 | PX | .002 | .002 | 0 | 0 |
| 98 | MRAIL2 | PX | .002 | .002 | 0 | 0 |
| 99 | MRAIL1 | PX | .002 | .002 | 0 | 0 |
| 100 | MRCORNER1 | PX | .003 | .003 | 0 | 0 |
| 101 | MRCORNER3 | PX | .003 | .003 | 0 | 0 |
| 102 | MRCORNER2 | PX | .003 | .003 | 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 | SUPPORT3 | PY | -.002 | -.002 | 0 | 0 |
| 2 | SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 3 | SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 4 | SO3 | PY | -.003 | -.003 | 0 | 0 |
| 5 | SO2 | PY | -.003 | -.003 | 0 | 0 |
| 6 | SO1 | PY | -.003 | -.003 | 0 | 0 |
| 7 | P SUPPORT6 | PY | -.002 | -.002 | 0 | 0 |
| 8 | P SUPPORT5 | PY | -.002 | -.002 | 0 | 0 |
| 9 | P SUPPORT4 | PY | -.002 | -.002 | 0 | 0 |
| 10 | P SUPPORT3 | PY | -.002 | -.002 | 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,%] |
|---|---|---|---|---|---|---|
| 11 | P SUPPORT2 | PY | -.002 | -.002 | 0 | 0 |
| 12 | P SUPPORT1 | PY | -.002 | -.002 | 0 | 0 |
| 13 | MP GAMMA3 | PY | -.003 | -.003 | 0 | 0 |
| 14 | MP GAMMA2 | PY | -.003 | -.003 | 0 | 0 |
| 15 | MP GAMMA1 | PY | -.003 | -.003 | 0 | 0 |
| 16 | MP BETA3 | PY | -.003 | -.003 | 0 | 0 |
| 17 | MP BETA2 | PY | -.003 | -.003 | 0 | 0 |
| 18 | MP BETA1 | PY | -.003 | -.003 | 0 | 0 |
| 19 | MP ALPHA3 | PY | -.003 | -.003 | 0 | 0 |
| 20 | MP ALPHA2 | PY | -.003 | -.003 | 0 | 0 |
| 21 | MP ALPHA1 | PY | -.003 | -.003 | 0 | 0 |
| 22 | G SUPPORT9 | PY | -.003 | -.003 | 0 | 0 |
| 23 | G SUPPORT8 | PY | -.003 | -.003 | 0 | 0 |
| 24 | G SUPPORT7 | PY | -.003 | -.003 | 0 | 0 |
| 25 | G SUPPORT6 | PY | -.003 | -.003 | 0 | 0 |
| 26 | G SUPPORT5 | PY | -.003 | -.003 | 0 | 0 |
| 27 | G SUPPORT4 | PY | -.003 | -.003 | 0 | 0 |
| 28 | G SUPPORT3 | PY | -.003 | -.003 | 0 | 0 |
| 29 | G SUPPORT2 | PY | -.003 | -.003 | 0 | 0 |
| 30 | G SUPPORT1 | PY | -.003 | -.003 | 0 | 0 |
| 31 | FACE6 | PY | -.002 | -.002 | 0 | 0 |
| 32 | FACE5 | PY | -.002 | -.002 | 0 | 0 |
| 33 | FACE4 | PY | -.002 | -.002 | 0 | 0 |
| 34 | FACE3 | PY | -.002 | -.002 | 0 | 0 |
| 35 | FACE2 | PY | -.002 | -.002 | 0 | 0 |
| 36 | FACE1 | PY | -.002 | -.002 | 0 | 0 |
| 37 | CORNER3 | PY | -.002 | -.002 | 0 | 0 |
| 38 | CORNER2 | PY | -.002 | -.002 | 0 | 0 |
| 39 | CORNER1 | PY | -.002 | -.002 | 0 | 0 |
| 40 | MSTAB2 | PY | -.003 | -.003 | 0 | 0 |
| 41 | MSTAB1 | PY | -.003 | -.003 | 0 | 0 |
| 42 | MSTAB6 | PY | -.003 | -.003 | 0 | 0 |
| 43 | MSTAB5 | PY | -.003 | -.003 | 0 | 0 |
| 44 | MSTAB4 | PY | -.003 | -.003 | 0 | 0 |
| 45 | MSTAB3 | PY | -.003 | -.003 | 0 | 0 |
| 46 | MRAIL1 | PY | -.002 | -.002 | 0 | 0 |
| 47 | MRAIL2 | PY | -.002 | -.002 | 0 | 0 |
| 48 | MRAIL3 | PY | -.002 | -.002 | 0 | 0 |
| 49 | MRCORNER1 | PY | -.003 | -.003 | 0 | 0 |
| 50 | MRCORNER3 | PY | -.003 | -.003 | 0 | 0 |
| 51 | MRCORNER2 | PY | -.003 | -.003 | 0 | 0 |
| 52 | SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 53 | SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 54 | SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 55 | SO3 | PX | .002 | .002 | 0 | 0 |
| 56 | SO2 | PX | .002 | .002 | 0 | 0 |
| 57 | SO1 | PX | .002 | .002 | 0 | 0 |
| 58 | P SUPPORT6 | PX | .000996 | .000996 | 0 | 0 |
| 59 | P SUPPORT5 | PX | .000996 | .000996 | 0 | 0 |
| 60 | P SUPPORT4 | PX | .000996 | .000996 | 0 | 0 |
| 61 | P SUPPORT3 | PX | .000996 | .000996 | 0 | 0 |
| 62 | P SUPPORT2 | PX | .000996 | .000996 | 0 | 0 |
| 63 | P SUPPORT1 | PX | .000996 | .000996 | 0 | 0 |
| 64 | MP GAMMA3 | PX | .002 | .002 | 0 | 0 |
| 65 | MP GAMMA2 | PX | .002 | .002 | 0 | 0 |
| 66 | MP GAMMA1 | PX | .002 | .002 | 0 | 0 |
| 67 | MP BETA3 | PX | .002 | .002 | 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,%] |
|---|---|---|---|---|---|---|
| 68 | MP BETA2 | PX | .002 | .002 | 0 | 0 |
| 69 | MP BETA1 | PX | .002 | .002 | 0 | 0 |
| 70 | MP ALPHA3 | PX | .002 | .002 | 0 | 0 |
| 71 | MP ALPHA2 | PX | .002 | .002 | 0 | 0 |
| 72 | MP ALPHA1 | PX | .002 | .002 | 0 | 0 |
| 73 | G SUPPORT9 | PX | .001 | .001 | 0 | 0 |
| 74 | G SUPPORT8 | PX | .001 | .001 | 0 | 0 |
| 75 | G SUPPORT7 | PX | .001 | .001 | 0 | 0 |
| 76 | G SUPPORT6 | PX | .001 | .001 | 0 | 0 |
| 77 | G SUPPORT5 | PX | .001 | .001 | 0 | 0 |
| 78 | G SUPPORT4 | PX | .001 | .001 | 0 | 0 |
| 79 | G SUPPORT3 | PX | .001 | .001 | 0 | 0 |
| 80 | G SUPPORT2 | PX | .001 | .001 | 0 | 0 |
| 81 | G SUPPORT1 | PX | .001 | .001 | 0 | 0 |
| 82 | FACE6 | PX | .001 | .001 | 0 | 0 |
| 83 | FACE5 | PX | .001 | .001 | 0 | 0 |
| 84 | FACE4 | PX | .001 | .001 | 0 | 0 |
| 85 | FACE3 | PX | .001 | .001 | 0 | 0 |
| 86 | FACE2 | PX | .001 | .001 | 0 | 0 |
| 87 | FACE1 | PX | .001 | .001 | 0 | 0 |
| 88 | CORNER3 | PX | .001 | .001 | 0 | 0 |
| 89 | CORNER2 | PX | .001 | .001 | 0 | 0 |
| 90 | CORNER1 | PX | .001 | .001 | 0 | 0 |
| 91 | MSTAB2 | PX | .002 | .002 | 0 | 0 |
| 92 | MSTAB1 | PX | .002 | .002 | 0 | 0 |
| 93 | MSTAB6 | PX | .002 | .002 | 0 | 0 |
| 94 | MSTAB5 | PX | .002 | .002 | 0 | 0 |
| 95 | MSTAB4 | PX | .002 | .002 | 0 | 0 |
| 96 | MSTAB3 | PX | .002 | .002 | 0 | 0 |
| 97 | MRAIL1 | PX | .001 | .001 | 0 | 0 |
| 98 | MRAIL2 | PX | .001 | .001 | 0 | 0 |
| 99 | MRAIL3 | PX | .001 | .001 | 0 | 0 |
| 100 | MRCORNER1 | PX | .002 | .002 | 0 | 0 |
| 101 | MRCORNER3 | PX | .002 | .002 | 0 | 0 |
| 102 | MRCORNER2 | PX | .002 | .002 | 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 | SUPPORT1 | Z | -.005 | -.005 | 0 | 2.292 |
| 2 | SUPPORT1 | Z | -.005 | -.005 | 2.292 | 4.583 |
| 3 | G SUPPORT8 | Z | -.006 | -.012 | .267 | 1.068 |
| 4 | G SUPPORT8 | Z | -.012 | -.012 | 1.068 | 1.869 |
| 5 | G SUPPORT8 | Z | -.012 | -.006 | 1.869 | 2.67 |
| 6 | G SUPPORT2 | Z | -.002 | -.004 | .308 | 1.233 |
| 7 | G SUPPORT2 | Z | -.004 | -.004 | 1.233 | 2.158 |
| 8 | G SUPPORT2 | Z | -.004 | -.004 | 2.158 | 3.083 |
| 9 | G SUPPORT1 | Z | -.004 | -.004 | 0 | .925 |
| 10 | G SUPPORT1 | Z | -.004 | -.004 | .925 | 1.85 |
| 11 | G SUPPORT1 | Z | -.004 | -.002 | 1.85 | 2.775 |
| 12 | CORNER1 | Z | -.0007809 | -.0007809 | 0 | 1.5 |
| 13 | SUPPORT3 | Z | -.005 | -.005 | 0 | 2.292 |
| 14 | SUPPORT3 | Z | -.005 | -.005 | 2.292 | 4.583 |
| 15 | G SUPPORT9 | Z | -.006 | -.012 | .267 | 1.068 |
| 16 | G SUPPORT9 | Z | -.012 | -.012 | 1.068 | 1.869 |
| 17 | G SUPPORT9 | Z | -.012 | -.006 | 1.869 | 2.67 |
| 18 | G SUPPORT6 | Z | -.002 | -.004 | .308 | 1.233 |

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

| | Member Label | Direction | Start Magnitude[k/ft,... | End Magnitude[k/ft,F,... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | G SUPPORT6 | Z | -.004 | -.004 | 1.233 | 2.158 |
| 20 | G SUPPORT6 | Z | -.004 | -.004 | 2.158 | 3.083 |
| 21 | G SUPPORT5 | Z | -.004 | -.004 | 0 | .925 |
| 22 | G SUPPORT5 | Z | -.004 | -.004 | .925 | 1.85 |
| 23 | G SUPPORT5 | Z | -.004 | -.002 | 1.85 | 2.775 |
| 24 | CORNER3 | Z | -.0007809 | -.0007809 | 0 | 1.5 |
| 25 | SUPPORT2 | Z | -.005 | -.005 | 0 | 2.292 |
| 26 | SUPPORT2 | Z | -.005 | -.005 | 2.292 | 4.583 |
| 27 | G SUPPORT7 | Z | -.006 | -.012 | .267 | 1.068 |
| 28 | G SUPPORT7 | Z | -.012 | -.012 | 1.068 | 1.869 |
| 29 | G SUPPORT7 | Z | -.012 | -.006 | 1.869 | 2.67 |
| 30 | G SUPPORT4 | Z | -.002 | -.004 | .308 | 1.233 |
| 31 | G SUPPORT4 | Z | -.004 | -.004 | 1.233 | 2.158 |
| 32 | G SUPPORT4 | Z | -.004 | -.004 | 2.158 | 3.083 |
| 33 | G SUPPORT3 | Z | -.004 | -.004 | 0 | .925 |
| 34 | G SUPPORT3 | Z | -.004 | -.004 | .925 | 1.85 |
| 35 | G SUPPORT3 | Z | -.004 | -.002 | 1.85 | 2.775 |
| 36 | CORNER2 | Z | -.0007809 | -.0007809 | 0 | 1.5 |

## 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 | SUPPORT1 | Z | -.006 | -.006 | 0 | 2.292 |
| 2 | SUPPORT1 | Z | -.006 | -.006 | 2.292 | 4.583 |
| 3 | G SUPPORT8 | Z | -.008 | -.016 | .267 | 1.068 |
| 4 | G SUPPORT8 | Z | -.016 | -.016 | 1.068 | 1.869 |
| 5 | G SUPPORT8 | Z | -.016 | -.008 | 1.869 | 2.67 |
| 6 | G SUPPORT2 | Z | -.003 | -.005 | .308 | 1.233 |
| 7 | G SUPPORT2 | Z | -.005 | -.006 | 1.233 | 2.158 |
| 8 | G SUPPORT2 | Z | -.006 | -.006 | 2.158 | 3.083 |
| 9 | G SUPPORT1 | Z | -.006 | -.006 | 0 | .925 |
| 10 | G SUPPORT1 | Z | -.006 | -.005 | .925 | 1.85 |
| 11 | G SUPPORT1 | Z | -.005 | -.003 | 1.85 | 2.775 |
| 12 | CORNER1 | Z | -.001 | -.001 | 0 | 1.5 |
| 13 | SUPPORT3 | Z | -.006 | -.006 | 0 | 2.292 |
| 14 | SUPPORT3 | Z | -.006 | -.006 | 2.292 | 4.583 |
| 15 | G SUPPORT9 | Z | -.008 | -.016 | .267 | 1.068 |
| 16 | G SUPPORT9 | Z | -.016 | -.016 | 1.068 | 1.869 |
| 17 | G SUPPORT9 | Z | -.016 | -.008 | 1.869 | 2.67 |
| 18 | G SUPPORT6 | Z | -.003 | -.005 | .308 | 1.233 |
| 19 | G SUPPORT6 | Z | -.005 | -.006 | 1.233 | 2.158 |
| 20 | G SUPPORT6 | Z | -.006 | -.006 | 2.158 | 3.083 |
| 21 | G SUPPORT5 | Z | -.006 | -.006 | 0 | .925 |
| 22 | G SUPPORT5 | Z | -.006 | -.005 | .925 | 1.85 |
| 23 | G SUPPORT5 | Z | -.005 | -.003 | 1.85 | 2.775 |
| 24 | CORNER3 | Z | -.001 | -.001 | 0 | 1.5 |
| 25 | SUPPORT2 | Z | -.006 | -.006 | 0 | 2.292 |
| 26 | SUPPORT2 | Z | -.006 | -.006 | 2.292 | 4.583 |
| 27 | G SUPPORT7 | Z | -.008 | -.016 | .267 | 1.068 |
| 28 | G SUPPORT7 | Z | -.016 | -.016 | 1.068 | 1.869 |
| 29 | G SUPPORT7 | Z | -.016 | -.008 | 1.869 | 2.67 |
| 30 | G SUPPORT4 | Z | -.003 | -.005 | .308 | 1.233 |
| 31 | G SUPPORT4 | Z | -.005 | -.006 | 1.233 | 2.158 |
| 32 | G SUPPORT4 | Z | -.006 | -.006 | 2.158 | 3.083 |
| 33 | G SUPPORT3 | Z | -.006 | -.006 | 0 | .925 |
| 34 | G SUPPORT3 | Z | -.006 | -.005 | .925 | 1.85 |
| 35 | G SUPPORT3 | Z | -.005 | -.003 | 1.85 | 2.775 |

## 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,%] |
|---|---|---|---|---|---|---|
| 36 | CORNER2 | Z | -.001 | -.001 | 0 | 1.5 |

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

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---|---|---|---|---|---|---|
| 1 | N50 | N41 | N40 | N51 | Z | Two Way | -.01 |
| 2 | N42 | N45 | N44 | N43 | Z | Two Way | -.01 |
| 3 | N46 | N49 | N48 | N47 | 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 | N50 | N41 | N40 | N51 | Z | Two Way | -.014 |
| 2 | N42 | N45 | N44 | N43 | Z | Two Way | -.014 |
| 3 | N46 | N49 | N48 | N47 | Z | Two Way | -.014 |

## 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 | N37 | max | .708 | 14 | .933 | 35 | 1.111 | 12 | .194 | 17 | 1.757 | 12 | 1.581 | 17 |
| 2 | | min | -2.222 | 32 | -1.582 | 17 | .455 | 26 | -.613 | 35 | .15 | 29 | -1.315 | 35 |
| 3 | N35 | max | 1.699 | 11 | 2.297 | 2 | 1.106 | 21 | 1.741 | 21 | .288 | 11 | 1.61 | 29 |
| 4 | | min | -1.504 | 29 | -.66 | 20 | .454 | 2 | .117 | 2 | -.735 | 29 | -1.342 | 11 |
| 5 | N39 | max | 1.961 | 14 | .926 | 2 | 1.121 | 33 | -.063 | 17 | .024 | 14 | 1.302 | 5 |
| 6 | | min | -.642 | 32 | -1.913 | 20 | .43 | 14 | -1.312 | 36 | -1.31 | 33 | -1.035 | 23 |
| 7 | N261 | max | .105 | 14 | -.237 | 2 | 1.041 | 21 | -.126 | 20 | .091 | 37 | .028 | 17 |
| 8 | | min | -.464 | 34 | -.912 | 21 | .487 | 35 | -.504 | 36 | -.016 | 17 | -.093 | 37 |
| 9 | N269 | max | .775 | 12 | .49 | 6 | 1.047 | 6 | .267 | 27 | -.104 | 8 | .033 | 29 |
| 10 | | min | .191 | 29 | .093 | 23 | .499 | 25 | .059 | 8 | -.446 | 27 | -.024 | 11 |
| 11 | N278 | max | -.204 | 11 | .439 | 36 | 1.048 | 30 | .252 | 15 | .456 | 15 | .085 | 31 |
| 12 | | min | -.805 | 30 | -.02 | 19 | .497 | 11 | .057 | 32 | .102 | 32 | -.02 | 11 |
| 13 | Totals: | max | 4.637 | 11 | 4.445 | 2 | 6.374 | 18 | | | | | | |
| 14 | | min | -4.637 | 29 | -4.446 | 20 | 3.203 | 35 | | | | | | |

## 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 | 51 | | |
| 3 | Dead Load | DL | | | -1.1 | | 24 | | 3 | |
| 4 | Wind Load (30) | DL | | | | | 48 | 102 | | |
| 5 | Wind Load (60) | DL | | | | | 48 | 102 | | |
| 6 | Wind Load (90) | DL | | | | | 24 | 51 | | |
| 7 | Wind Load (120) | DL | | | | | 48 | 102 | | |
| 8 | Wind Load (150) | DL | | | | | 48 | 102 | | |
| 9 | Wind Load (180) | DL | | | | | 24 | 51 | | |
| 10 | Wind Load (210) | DL | | | | | 48 | 102 | | |
| 11 | Wind Load (240) | DL | | | | | 48 | 102 | | |
| 12 | Wind Load (270) | DL | | | | | 24 | 51 | | |
| 13 | Wind Load (300) | DL | | | | | 48 | 102 | | |
| 14 | Wind Load (330) | DL | | | | | 48 | 102 | | |
| 15 | Maintanence (0) | DL | | | | | 24 | 51 | | |
| 16 | Maintanence (30) | DL | | | | | 48 | 102 | | |
| 17 | Maintanence (60) | DL | | | | | 48 | 102 | | |
| 18 | Maintanence (90) | DL | | | | | 24 | 51 | | |
| 19 | Maintanence (120) | DL | | | | | 48 | 102 | | |

## Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distrib.. | Area(Me... | Surface(... |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Maintanence (150) | DL | | | | | 48 | 102 | | |
| 21 | Maintanence (180) | DL | | | | | 24 | 51 | | |
| 22 | Maintanence (210) | DL | | | | | 48 | 102 | | |
| 23 | Maintanence (240) | DL | | | | | 48 | 102 | | |
| 24 | Maintanence (270) | DL | | | | | 24 | 51 | | |
| 25 | Maintanence (300) | DL | | | | | 48 | 102 | | |
| 26 | Maintanence (330) | DL | | | | | 48 | 102 | | |
| 27 | Ice Dead Load | DL | | | | | 24 | 51 | 3 | |
| 28 | Ice Wind Load (0) | DL | | | | | 24 | 51 | | |
| 29 | Ice Wind Load (30) | DL | | | | | 48 | 102 | | |
| 30 | Ice Wind Load (60) | DL | | | | | 48 | 102 | | |
| 31 | Ice Wind Load (90) | DL | | | | | 24 | 51 | | |
| 32 | Ice Wind Load (120) | DL | | | | | 48 | 102 | | |
| 33 | Ice Wind Load (150) | DL | | | | | 48 | 102 | | |
| 34 | Ice Wind Load (180) | DL | | | | | 24 | 51 | | |
| 35 | Ice Wind Load (210) | DL | | | | | 48 | 102 | | |
| 36 | Ice Wind Load (240) | DL | | | | | 48 | 102 | | |
| 37 | Ice Wind Load (270) | DL | | | | | 24 | 51 | | |
| 38 | Ice Wind Load (300) | DL | | | | | 48 | 102 | | |
| 39 | Ice Wind Load (330) | DL | | | | | 48 | 102 | | |
| 40 | Earthquake (x-direction) | DL | -.12 | | | | 24 | | | |
| 41 | Earthquake (y-direction) | DL | | -.12 | | | 24 | | | |
| 42 | Earthquake (z-direction) | DL | | | -.048 | | 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 | | | | | | | | | | | | | | | | |

## Load Combinations (Continued)

| | 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... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | MP BETA2 | PIPE_2.0 | .673 | 3.125 | 32 | .053 | 3.125 | | 11 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 2 | MP GAMMA2 | PIPE_2.0 | .673 | 3.125 | 8 | .053 | 3.125 | | 29 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 3 | MP ALPHA2 | PIPE_2.0 | .670 | 3.125 | 17 | .058 | 3.125 | | 37 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 4 | MP ALPHA3 | PIPE_2.0 | .390 | 3.125 | 13 | .142 | 1.172 | | 37 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 5 | MRAIL1 | PIPE_2.0 | .353 | 1.302 | 16 | .107 | 9.245 | | 2 | 6.295 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 6 | MSTAB3 | L2.5x2.5... | .295 | 3.803 | 15 | .012 | 0 | z | 15 | 18.209 | 29.192 | .873 | 1.733 | 1.... | H2-1 |
| 7 | MSTAB5 | L2.5x2.5... | .295 | 3.803 | 27 | .012 | 0 | z | 27 | 18.209 | 29.192 | .873 | 1.733 | 1.... | H2-1 |
| 8 | MSTAB1 | L2.5x2.5... | .290 | 3.803 | 36 | .012 | 0 | z | 36 | 18.209 | 29.192 | .873 | 1.733 | 1.... | H2-1 |
| 9 | MSTAB2 | L2.5x2.5... | .282 | 0 | 36 | .011 | 3.803 | z | 3 | 18.209 | 29.192 | .873 | 1.733 | 1.... | H2-1 |
| 10 | MSTAB4 | L2.5x2.5... | .280 | 0 | 15 | .011 | 3.803 | z | 15 | 18.209 | 29.192 | .873 | 1.733 | 1.... | H2-1 |
| 11 | MSTAB6 | L2.5x2.5... | .280 | 0 | 27 | .011 | 3.803 | z | 30 | 18.209 | 29.192 | .873 | 1.733 | 1.... | H2-1 |
| 12 | MRAIL2 | PIPE_2.0 | .271 | 9.375 | 27 | .117 | 9.245 | | 14 | 6.295 | 32.13 | 1.872 | 1.872 | 1.24 | H1-1b |
| 13 | MP BETA1 | PIPE_2.0 | .271 | 3.125 | 4 | .116 | 3.125 | | 17 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 14 | MRAIL3 | PIPE_2.0 | .270 | 9.375 | 6 | .117 | 9.245 | | 26 | 6.295 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 15 | M100 | 6x0.375 | .184 | .25 | 18 | .149 | .25 | y | 37 | 70.011 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 16 | M108 | 6x0.375 | .183 | .25 | 30 | .144 | .25 | y | 14 | 70.011 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 17 | M104 | 6x0.375 | .183 | .25 | 6 | .142 | .25 | y | 26 | 70.011 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 18 | SUPPORT1 | 3/8 x 4 | .175 | 4.583 | 35 | .266 | 3.247 | y | 9 | 44.309 | 48.6 | .38 | 4.05 | 2.... | H1-1b |
| 19 | SUPPORT2 | 3/8 x 4 | .173 | 4.583 | 11 | .265 | 3.247 | y | 18 | 44.309 | 48.6 | .38 | 3.986 | 1 | H1-1b |
| 20 | MP BETA3 | PIPE_2.0 | .171 | 3.125 | 14 | .112 | 3.125 | | 12 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 21 | MP ALPHA1 | PIPE_2.0 | .168 | 3.125 | 32 | .107 | 3.125 | | 3 | 20.114 | 32.13 | 1.872 | 1.872 | 1.88 | H1-1b |
| 22 | M107 | 6x0.375 | .167 | .25 | 36 | .111 | .25 | y | 14 | 70.011 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 23 | CORNER1 | 3/8 x 4 | .165 | .281 | 17 | .047 | 1.5 | y | 4 | 12.256 | 48.6 | .38 | 4.05 | 1.... | H1-1b |
| 24 | CORNER2 | 3/8 x 4 | .165 | .281 | 32 | .018 | 1.5 | y | 32 | 12.256 | 48.6 | .38 | 4.05 | 1.... | H1-1b |
| 25 | M99 | 6x0.375 | .164 | .25 | 24 | .107 | .25 | y | 2 | 70.011 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 26 | SO2 | HSS4X4... | .164 | 4 | 29 | .077 | 4 | y | 29 | 130.4... | 139.5... | 16.181 | 16.181 | 4.84 | H1-1b |
| 27 | SO1 | HSS4X4... | .163 | 4 | 17 | .077 | 4 | y | 17 | 130.4... | 139.5... | 16.181 | 16.181 | 4.... | H1-1b |
| 28 | M103 | 6x0.375 | .162 | .25 | 12 | .110 | .25 | y | 26 | 70.011 | 72.9 | .57 | 9.113 | 1.... | H1-1b |
| 29 | SUPPORT3 | 3/8 x 4 | .162 | 0 | 8 | .269 | 3.247 | y | 33 | 44.309 | 48.6 | .38 | 4.05 | 2.... | H1-1b |
| 30 | MP GAMMA1 | PIPE_2.0 | .162 | 3.125 | 17 | .115 | 3.125 | | 29 | 20.114 | 32.13 | 1.872 | 1.872 | 1.58 | H1-1b |
| 31 | CORNER3 | 3/8 x 4 | .161 | .281 | 8 | .018 | 1.5 | y | 8 | 12.256 | 48.6 | .38 | 4.05 | 1.... | H1-1b |
| 32 | MP GAMMA3 | PIPE_2.0 | .159 | 3.125 | 26 | .112 | 3.125 | | 27 | 20.114 | 32.13 | 1.872 | 1.872 | 1.... | H1-1b |
| 33 | SO3 | HSS4X4... | .146 | 4 | 5 | .064 | 4 | y | 5 | 130.4... | 139.5... | 16.181 | 16.181 | 4.... | H1-1b |
| 34 | FACE1 | PIPE_3.0 | .128 | .977 | 37 | .105 | 1.237 | | 22 | 52.901 | 65.205 | 5.749 | 5.749 | 1.... | H1-1b |
| 35 | P SUPPORT2 | 2x0.25_... | .121 | 2.521 | 36 | .068 | 2.521 | y | 9 | 16.2 | 16.2 | .084 | .675 | 2.... | H1-1b |
| 36 | P SUPPORT4 | 2x0.25_... | .120 | 2.521 | 12 | .067 | .42 | y | 12 | 16.2 | 16.2 | .084 | .675 | 2.... | H1-1b |
| 37 | P SUPPORT6 | 2x0.25_... | .120 | 2.521 | 30 | .068 | 2.521 | y | 33 | 16.2 | 16.2 | .084 | .675 | 2.... | H1-1b |
| 38 | G SUPPORT7 | L1.5x1.5... | .118 | 1.363 | 33 | .009 | 2.67 | z | 30 | 9.117 | 17.086 | .293 | .636 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | G SUPPORT8 | L1.5x1.5... | .118 | 1.363 | 21 | .009 | 2.67 | z | 18 | 9.117 | 17.086 | .293 | .636 | 1.... | H2-1 |
| 40 | G SUPPORT9 | L1.5x1.5... | .117 | 1.363 | 9 | .009 | 2.67 | z | 9 | 9.117 | 17.086 | .293 | .636 | 1.... | H2-1 |
| 41 | FACE4 | PIPE_3.0 | .115 | 2.214 | 35 | .094 | 2.148 | | 32 | 52.901 | 65.205 | 5.749 | 5.749 | 1.... | H1-1b |
| 42 | FACE6 | PIPE_3.0 | .113 | 2.214 | 11 | .094 | 2.148 | | 8 | 52.901 | 65.205 | 5.749 | 5.749 | 1.... | H1-1b |
| 43 | FACE2 | PIPE_3.0 | .101 | 2.214 | 23 | .086 | 2.148 | | 20 | 52.901 | 65.205 | 5.749 | 5.749 | 1.... | H1-1b |
| 44 | FACE3 | PIPE_3.0 | .094 | 4.036 | 11 | .075 | 4.102 | | 32 | 52.901 | 65.205 | 5.749 | 5.749 | 1.... | H1-1b |
| 45 | FACE5 | PIPE_3.0 | .086 | 4.036 | 23 | .073 | 4.102 | | 8 | 52.901 | 65.205 | 5.749 | 5.749 | 1.... | H1-1b |
| 46 | MRCORNER1 | L2.5x2.5... | .081 | .692 | 18 | .015 | 0 | z | 35 | 37.958 | 38.556 | 1.114 | 2.537 | 1.... | H2-1 |
| 47 | MRCORNER2 | L2.5x2.5... | .081 | .692 | 30 | .015 | 0 | z | 11 | 37.958 | 38.556 | 1.114 | 2.537 | 1.08 | H2-1 |
| 48 | MRCORNER3 | L2.5x2.5... | .081 | .692 | 9 | .014 | 0 | z | 23 | 37.958 | 38.556 | 1.114 | 2.537 | 1.... | H2-1 |
| 49 | G SUPPORT1 | L1.5x1.5... | .077 | 1.477 | 3 | .008 | 0 | z | 12 | 7.395 | 17.086 | .293 | .619 | 1.... | H2-1 |
| 50 | G SUPPORT3 | L1.5x1.5... | .077 | 1.477 | 15 | .008 | 0 | z | 24 | 7.395 | 17.086 | .293 | .619 | 1.... | H2-1 |
| 51 | G SUPPORT5 | L1.5x1.5... | .077 | 1.477 | 27 | .008 | 0 | z | 36 | 7.395 | 17.086 | .293 | .619 | 1.... | H2-1 |
| 52 | G SUPPORT6 | L1.5x1.5... | .076 | 1.606 | 3 | .010 | 3.083 | z | 33 | 7.395 | 17.086 | .293 | .619 | 1.... | H2-1 |
| 53 | G SUPPORT2 | L1.5x1.5... | .076 | 1.606 | 15 | .009 | 3.083 | z | 12 | 7.395 | 17.086 | .293 | .619 | 1.... | H2-1 |
| 54 | G SUPPORT4 | L1.5x1.5... | .076 | 1.606 | 30 | .009 | 3.083 | z | 18 | 7.395 | 17.086 | .293 | .619 | 1.... | H2-1 |
| 55 | P SUPPORT1 | 2x0.25_... | .067 | 0 | 18 | .050 | 2.075 | y | 18 | 16.2 | 16.2 | .084 | .675 | 2.... | H1-1b |
| 56 | P SUPPORT5 | 2x0.25_... | .067 | 0 | 6 | .049 | 2.075 | y | 6 | 16.2 | 16.2 | .084 | .675 | 2.... | H1-1b |
| 57 | P SUPPORT3 | 2x0.25_... | .067 | 0 | 30 | .049 | 2.075 | y | 33 | 16.2 | 16.2 | .084 | .675 | 2.... | H1-1b |

POD
POWER OF DESIGN

| | |
|---|---|
| **POD Job #** | **22-122451** |
| **Site Number** | **411261** |
| **Site Name** | **CROMWELLSW CT** |

*Calculations Based on* *TIA-222-H*

### *Reactions from RISA-3D*

| | | |
|---|---|---|
| Moment | 1.811 | ft-kip |
| Axial | 1.232 | kips |
| Shear | 1.112 | kips |

*Capacities*

| | |
|---|---|
| *Bolts* | *0.6%* |
| *Flange Plate* | *36.3%* |

### *Bolt Information*

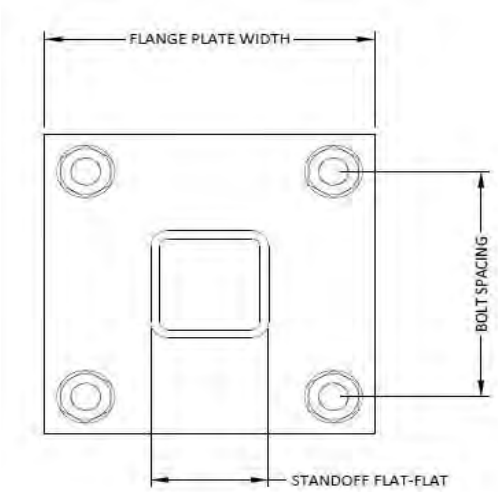
| | | |
|---|---|---|
| Grade | A325 | |
| Threads in Shear Plane | Included | |
| Diameter | 0.625 | in. |
| Bolt Spacing | 8.75 | in. |
| Number of Rods | 4 | |

### *Flange Plate Information*

| | | |
|---|---|---|
| Width | 10 | in. |
| Thickness | 0.5 | in. |
| Grade | A36 | |

### *Standoff Information*

| | | |
|---|---|---|
| Standoff Member | HSS | |
| Flat-Flat | 4 | in. |
| Thickness | 0.25 | in. |




### *Bolt Calculations*

| | | |
|---|---|---|
| $\phi$ | 0.75 | |
| $A_{nt}$ | 0.226 | $in^2$ |
| $A_b$ | 0.307 | $in^2$ |
| Fu | 120 | ksi |
| $\phi R_{nv}$ | 13.81 | kips |
| $\phi R_{nt}$ | 20.34 | kips |
| V | 0.28 | kips |
| F | 1.55 | kips |
| Capacity | 0.6% | |

### *Flange Plate Calculations*

| | | |
|---|---|---|
| $\phi$ | 0.9 | |
| Fy | 36 | ksi |
| $t_{min}$ | 0.17 | in |
| Z | 0.6 | $in^3$ |
| $\phi M_n$ | 20.3 | in-kip |
| $M_u$ | 7.4 | in-kip |
| Capacity | 36.3% | |

Ver 1.0 - 3/5/2019

POD
POWER OF DESIGN

| | |
|---|---|
| **POD Job #** | **22-122451** |
| **Site Number** | **411261** |
| **Site Name** | **CROMWELLSW CT** |

| | | |
|---|---|---|
| Connection Type | Single Shear | |

*RISA 3D Forces*

| | | |
|---|---|---|
| Axial (Bolts) | 0.096 | kips |
| Shear (Bolts) | 1.131 | kips |
| Axial Force (Member) | 1.131 | kips |

*Bolt/Member Information*

| | | |
|---|---|---|
| Member Label | MSTAB2 | |
| # of Bolts | 3 | |
| Diameter | 0.625 | inches |
| Bolt Grade | A325 | |
| Member Grade | A36 | |
| Threads Included? | Yes | |
| $L_b$ | 0 | inches |
| $L_c$ | 1 | inches |
| t | 0.1875 | inches |

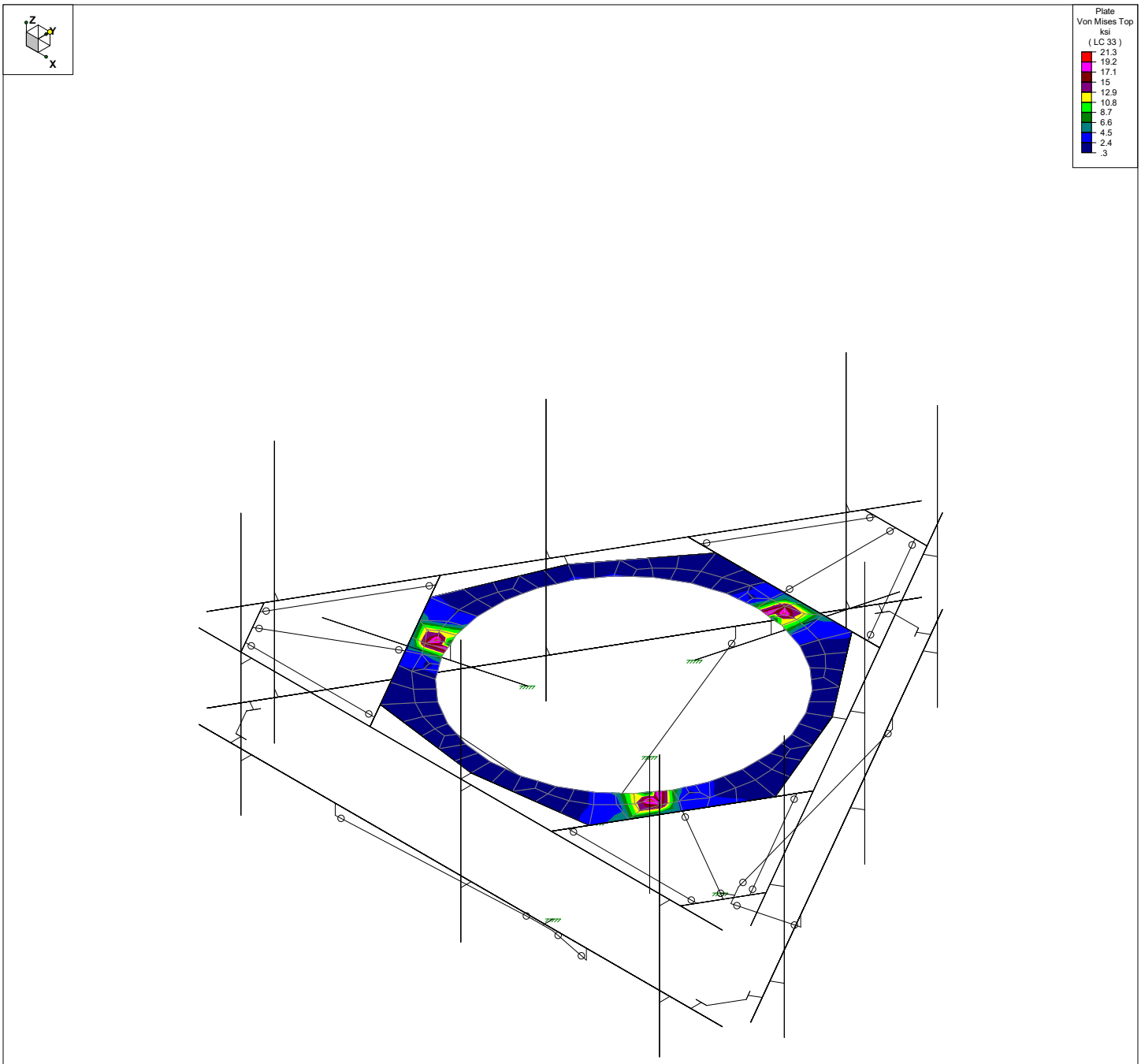
| | |
|---|---|
| **Shear Capacity** | **2.7%** |
| **Axial Capacity** | **0.2%** |
| **Bearing Capacity** | **3.1%** |
| **Combined Capacity** | **0.7%** |

Ver 1.0 - 2/28/2020

POD
POWER OF DESIGN

| | | |
|---|---|---|
| **POD Job #** | **22-122451** | |
| **Site Number** | **411261** | |
| **Site Name** | **CROMWELLSW CT** | |
| | | |
| Reference Code | LRFD | |
| *RISA-3D Values* | | |
| Von Mises Stress | 22.462 | ksi |
| Load Combination | 33 | |
| | | |
| *Plate Info* | | |
| Yield Strength | 36 | ksi |
| | | |
| *Plate Check* | | |
| ∅ | 0.9 | |
| Allowable Stress | 32.4 | ksi |

| | | |
|---|---|---|
| **Capacity** | **69.3%** | **Pass** |




Results for LC 33, 1.2D + 1.0Di + 1.0Wi(300)

| | | |
|---|---|---|
| Power of Design | 411261 | SK - 2 |
| CC | | Mar 7, 2022 at 10:25 AM |
| 22-122451 | | (PL14) 13' Platform (Circular Steel ... |

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

telamon
Tower Engineering PLLC

# Structural Analysis Report

| | | |
|---|---|---|
| **Structure** | : | **111 ft Self Support Tower** |
| **ATC Site Name** | : | **CROMWELLSW CT,CT** |
| **ATC Site Number** | : | **411261** |
| **Engineering Number** | : | **13764584_C3_05** |
| **Proposed Carrier** | : | **T-MOBILE** |
| **Carrier Site Name** | : | **CTHA240/Verizon_BB** |
| **Carrier Site Number** | : | **CTHA240A** |
| **Site Location** | : | **99 Christian Hill Road**<br>**CROMWELL, CT 06416-2612**<br>**41.6057, -72.7014** |
| **County** | : | **Middlesex** |
| **Date** | : | **March 21, 2022** |
| **Max Usage** | : | **98%** |
| **Result** | : | **Pass** |

Prepared By:

Sean Rock, P.E.
CLS

Reviewed By:

Digitally signed by William Holt
Date: 2022.03.22 12:07:43 -04'00'

STATE OF CONNECTICUT
WILLIAM HOLT
PEN.35568
LICENSED PROFESSIONAL ENGINEER

William Holt, PE
Director of Engineering
License No. 35568 Expires: 01/31/2023

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## Table of Contents

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## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 111 ft Self Support tower to reflect the change in loading by T-MOBILE.

## Supporting Documents

| | |
|---|---|
| **Tower Drawings** | Mapping by ETS, Job #150929.01, dated August 21, 2015 |
| **Foundation Drawing** | Mapping by ETS, Job #150929.01, dated August 21, 2015<br>Mapping by ETS, Job #150929.01, dated June 13, 2016 |
| **Geotechnical Report** | FDH Velocitel Project #15BWZR1600, dated August 18, 2015 |
| **Mount Analysis** | GPD Project #2021740.467684.02, dated July 13, 2021<br>POD Eng #13764584_C8_01, dated January 19, 2022 |
| **Mount Modification** | GPD Project #2021740.467684.02, dated July 13, 2021<br>POD Eng #13764584_C9_04, dated March 3, 2022 |

## Analysis

The tower was analyzed using RISA-3D's analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

| | |
|---|---|
| **Basic Wind Speed:** | 119 mph (3-second gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-second gust) w/ 1.00" radial ice concurrent |
| **Code:** | ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code |
| **Exposure Category:** | C |
| **Risk Category:** | II |
| **Topographic Factor Procedure:** | Method 1 |
| **Topographic Category:** | 1 |
| **Crest Height (H):** | 0 ft |
| **Crest Length (L):** | 0 ft |
| **Spectral Response:** | Ss = 0.20, $S_1$ = 0.06 |
| **Site Class:** | D - Stiff Soil - Default |

****Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.**

## 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.

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## Existing and Reserved Equipment

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 108.0 | 3 | RFS APXVAALL24 43-U-NA20 | Triangular Platform with Handrails | (3) 1 5/8" (1.63"-41.3mm) Fiber | T-MOBILE |
| | 3 | Ericsson Radio 4449 B71 B85A | | | |
| 98.0 | 3 | Quintel QS66512-2 | Pole Mount | (2) 0.39" (10mm) Fiber Trunk<br>(4) 0.78" (19.7mm) 8 AWG 6<br>(12) 1 5/8" Coax<br>(1) 1 5/8" Hybriflex<br>(1) 2" Carflex Non-Metallic Conduit | AT&T MOBILITY |
| | 3 | Powerwave Allgon 7770.00 | | | |
| | 3 | Powerwave Allgon 7020.00 Dual Band RET | | | |
| | 3 | CCI OPA-65R-LCUU-H6 | | | |
| | 3 | Ericsson RRUS-32 (77 lbs) | | | |
| | 12 | Powerwave Allgon LGP21401 | | | |
| | 3 | Ericsson RRUS 32 B2 | | | |
| | 1 | Raycap DC6-48-60-18-8F | | | |
| | 1 | Raycap DC6-48-60-18-8F(32.8 lbs) | | | |
| | 3 | Ericsson RRUS 11 B2 | | | |
| 88.0 | 1 | Generic GPS | Triangular Platform with Handrails | (12) 1 5/8" Coax<br>(2) 1 5/8" Hybriflex<br>(1) 1/2" Coax | VERIZON WIRELESS |
| 84.0 | 6 | JMA Wireless MX06FRO660-02 | | | |
| | 2 | Antel LPA-80080/6CF ___ | | | |
| | 4 | Decibel DB846F65ZAXY | | | |
| | 3 | Samsung MT6407-77A | | | |
| | 3 | Samsung B5/B13 RRH-BR04C | | | |
| | 3 | Samsung B2/B66A RRH-BR049 | | | |
| 83.0 | 1 | Raycap RCMDC-6627-PF-48 | | | |

## Equipment to be Removed

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 108.0 | 3 | Ericsson AIR32 B66Aa/B2a | - | (1) 1 5/8" (1.63"-41.3mm) Fiber<br>(6) 1 5/8" Coax | T-MOBILE |
| | 3 | Ericsson KRY 112 144/1 | | | |
| 50.0 | 1 | NAiS VIC-100 | - | - | |

## Proposed Equipment

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 108.0 | 3 | Ericsson 4460 BAND 2/25 | Triangular Platform with Handrails | (2) 1.99" (50.7mm) Hybrid | T-MOBILE |
| | 3 | Ericsson Air6449 B41 | | | |
| | 3 | Commscope VV-65A-R1 | | | |

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

Install proposed lines alongside existing T-MOBILE lines.

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## Structure Usage

| Structural Component | Controlling Usage | Pass/Fail |
|---|---|---|
| Legs | 98% | Pass |
| Diagonals | 82% | Pass |
| Horizontals | 64% | Pass |

## Foundations

| Reaction Component | Analysis Reactions | % of Usage |
|---|---|---|
| Moment (Kips-Ft) | 2106.2 | 84% |
| Axial (Kips) | 195.3 | 55% |
| Shear (Kips) | 36.3 | 9% |

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.

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**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:

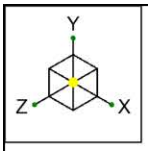
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

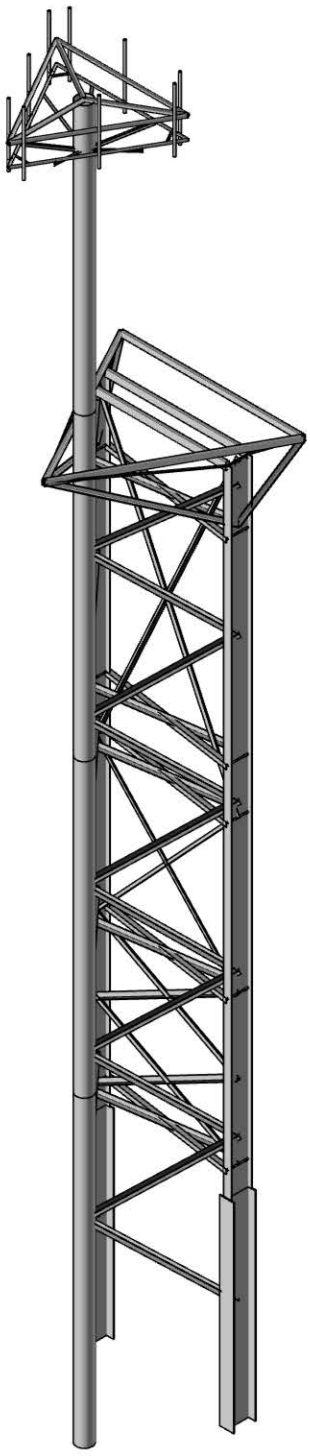
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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.

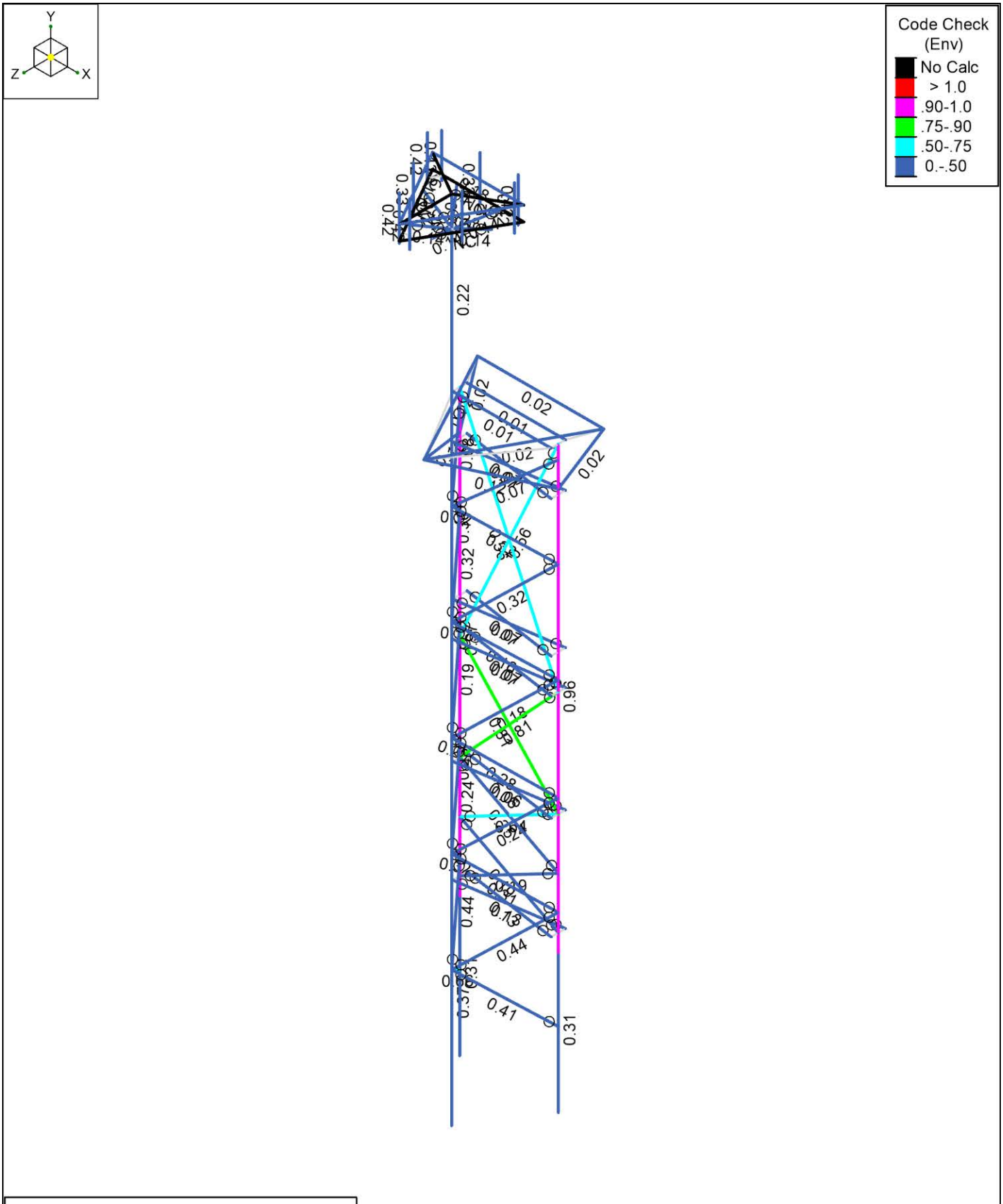
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



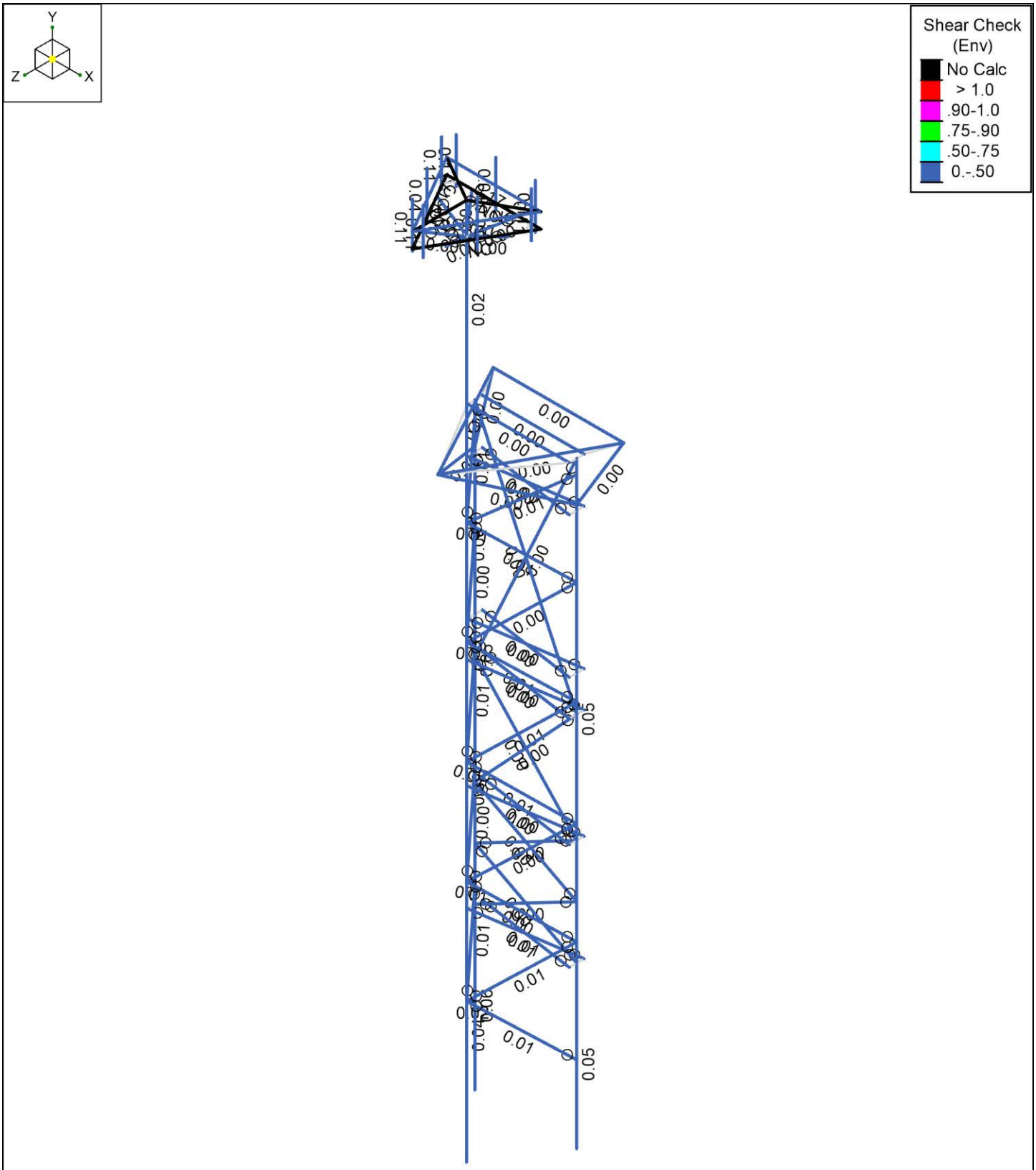
Envelope Only Solution

| | | |
|---|---|---|
| CLS | CromwellSW CT, CT (411261) | SK-1 |
| NGN | | Mar 21, 2022 |
| 13764584_C3_05 | Rendered | 411261 CROMWELLSW CT, CT (… |




Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|---|---|---|
| CLS | CromwellSW CT, CT (411261) | SK-2 |
| NGN | | Mar 21, 2022 |
| 13764584_C3_05 | Envelope Member Unity Check Results – Bending | 411261 CROMWELLSW CT, CT (… |




Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|---|---|---|
| CLS | CromwellSW CT, CT (411261) | SK-3 |
| NGN | | Mar 21, 2022 |
| 13764584_C3_05 | Envelope Member Check Results – Shear | 411261 CROMWELLSW CT, CT (… |

### *Basic Load Cases*

| | BLC Description | Category | Y Gravity | Nodal | Distributed |
|---|---|---|---|---|---|
| 1 | Dead | DL | -1 | 6 | 6 |
| 2 | Structure - Wind Z | WLZ | | | 22 |
| 3 | Structure - Wind X | WLX | | | 22 |
| 4 | Ice Dead | OL1 | -0.16 | 6 | 6 |
| 5 | Structure - Wind Ice Z | OL2 | | | 22 |
| 6 | Structure - Wind Ice X | OL3 | | | 22 |
| 7 | APP - Wind Z | WLZ | | 6 | |
| 8 | APP - Wind X | WLX | | 6 | 16 |
| 9 | APP - Wind Ice Z | OL2 | | 6 | |
| 10 | APP - Wind Ice X | OL3 | | 6 | 16 |
| 11 | Earthquake Load Z | ELZ | | 1 | |
| 12 | Earthquake Load X | ELX | | 1 | |
| 13 | Earthquake Load Z Plus X Eccentr | ELZ+X | | 1 | |
| 14 | Earthquake Load Z Minus X Eccent | ELZ-X | | 1 | |
| 15 | Earthquake Load X Plus Z Eccentr | ELX+Z | | 1 | |
| 16 | Earthquake Load X Minus Z Eccent | ELX-Z | | 1 | |

### *Load Combinations*

| | Description | Solve | P-Delta | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DL only | | Y | DL | 1 | | | | | | | | | | | | | | |
| 2 | 1.2D + 1.0W - 0 deg | Yes | Y | DL | 1.2 | WLZ | 1 | WLX | | | | | | | | | | | |
| 3 | 1.2D + 1.0W - 30 deg | Yes | Y | DL | 1.2 | WLZ | 0.87 | WLX | 0.5 | | | | | | | | | | |
| 4 | 1.2D + 1.0W - 60 deg | Yes | Y | DL | 1.2 | WLZ | 0.5 | WLX | 0.87 | | | | | | | | | | |
| 5 | 1.2D + 1.0W - 90 deg | Yes | Y | DL | 1.2 | WLZ | | WLX | 1 | | | | | | | | | | |
| 6 | 1.2D + 1.0W - 120 deg | Yes | Y | DL | 1.2 | WLZ | -0.5 | WLX | 0.87 | | | | | | | | | | |
| 7 | 1.2D + 1.0W - 150 deg | Yes | Y | DL | 1.2 | WLZ | -0.87 | WLX | 0.5 | | | | | | | | | | |
| 8 | 1.2D + 1.0W - 180 deg | Yes | Y | DL | 1.2 | WLZ | -1 | WLX | | | | | | | | | | | |
| 9 | 1.2D + 1.0W - 210 deg | Yes | Y | DL | 1.2 | WLZ | -0.87 | WLX | -0.5 | | | | | | | | | | |
| 10 | 1.2D + 1.0W - 240 deg | Yes | Y | DL | 1.2 | WLZ | -0.5 | WLX | -0.87 | | | | | | | | | | |
| 11 | 1.2D + 1.0W - 270 deg | Yes | Y | DL | 1.2 | WLZ | | WLX | -1 | | | | | | | | | | |
| 12 | 1.2D + 1.0W - 300 deg | Yes | Y | DL | 1.2 | WLZ | 0.5 | WLX | -0.87 | | | | | | | | | | |
| 13 | 1.2D + 1.0W - 330 deg | Yes | Y | DL | 1.2 | WLZ | 0.87 | WLX | -0.5 | | | | | | | | | | |
| 14 | 1.2D + 1.0Di + 1.0Wi - 0 deg | Yes | Y | DL | 1.2 | OL2 | 1 | OL3 | | OL1 | 1 | | | | | | | | |
| 15 | 1.2D + 1.0Di + 1.0Wi - 30 deg | Yes | Y | DL | 1.2 | OL2 | 0.87 | OL3 | 0.5 | OL1 | 1 | | | | | | | | |
| 16 | 1.2D + 1.0Di + 1.0Wi - 60 deg | Yes | Y | DL | 1.2 | OL2 | 0.5 | OL3 | 0.87 | OL1 | 1 | | | | | | | | |
| 17 | 1.2D + 1.0Di + 1.0Wi - 90 deg | Yes | Y | DL | 1.2 | OL2 | | OL3 | 1 | OL1 | 1 | | | | | | | | |
| 18 | 1.2D + 1.0Di + 1.0Wi - 120 deg | Yes | Y | DL | 1.2 | OL2 | -0.5 | OL3 | 0.87 | OL1 | 1 | | | | | | | | |
| 19 | 1.2D + 1.0Di + 1.0Wi - 150 deg | Yes | Y | DL | 1.2 | OL2 | -0.87 | OL3 | 0.5 | OL1 | 1 | | | | | | | | |
| 20 | 1.2D + 1.0Di + 1.0Wi - 180 deg | Yes | Y | DL | 1.2 | OL2 | -1 | OL3 | | OL1 | 1 | | | | | | | | |
| 21 | 1.2D + 1.0Di + 1.0Wi - 210 deg | Yes | Y | DL | 1.2 | OL2 | -0.87 | OL3 | -0.5 | OL1 | 1 | | | | | | | | |
| 22 | 1.2D + 1.0Di + 1.0Wi - 240 deg | Yes | Y | DL | 1.2 | OL2 | -0.5 | OL3 | -0.87 | OL1 | 1 | | | | | | | | |
| 23 | 1.2D + 1.0Di + 1.0Wi - 270 deg | Yes | Y | DL | 1.2 | OL2 | | OL3 | -1 | OL1 | 1 | | | | | | | | |
| 24 | 1.2D + 1.0Di + 1.0Wi - 300 deg | Yes | Y | DL | 1.2 | OL2 | 0.5 | OL3 | -0.87 | OL1 | 1 | | | | | | | | |
| 25 | 1.2D + 1.0Di + 1.0Wi - 330 deg | Yes | Y | DL | 1.2 | OL2 | 0.87 | OL3 | -0.5 | OL1 | 1 | | | | | | | | |
| 26 | IBC 16-5 (a) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SX*SF | 1 | SZ*SF | 0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 27 | IBC 16-5 (b) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SZ*SF | 1 | SX*SF | 0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 28 | IBC 16-5 (c) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SX*SF | 1 | SZ*SF | -0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 29 | IBC 16-5 (d) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SZ*SF | 1 | SX*SF | -0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 30 | IBC 16-5 (e) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SX*SF | -1 | SZ*SF | -0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 31 | IBC 16-5 (f) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SZ*SF | -1 | SX*SF | -0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 32 | IBC 16-5 (g) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SX*SF | -1 | SZ*SF | 0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 33 | IBC 16-5 (h) | Yes | Y | DL | 1.2 | Sds*DL | 0.2 | SZ*SF | -1 | SX*SF | 0.3 | LL | 0.5 | LLS | 1 | SL | 0.2 | SLN | 0.7 |
| 34 | IBC 16-7 (a) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SX*SF | 1 | SZ*SF | 0.3 | | | | | | | | |
| 35 | IBC 16-7 (b) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SZ*SF | 1 | SX*SF | 0.3 | | | | | | | | |

### Load Combinations (Continued)

| | Description | Solve | P-Delta | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor | BLC | Factor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | IBC 16-7 (c) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SX*SF | 1 | SZ*SF | -0.3 | | | | | | | | |
| 37 | IBC 16-7 (d) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SZ*SF | 1 | SX*SF | -0.3 | | | | | | | | |
| 38 | IBC 16-7 (e) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SX*SF | -1 | SZ*SF | -0.3 | | | | | | | | |
| 39 | IBC 16-7 (f) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SZ*SF | -1 | SX*SF | -0.3 | | | | | | | | |
| 40 | IBC 16-7 (g) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SX*SF | -1 | SZ*SF | 0.3 | | | | | | | | |
| 41 | IBC 16-7 (h) | Yes | Y | DL | 0.9 | Sds*DL | -0.2 | SZ*SF | -1 | SX*SF | 0.3 | | | | | | | | |

### Hot Rolled Steel Properties

| | Label | E [ksi] | G [ksi] | Nu | Therm. Coeff. [1e$^{5}$°F$^{-1}$] | Density [k/ft$^{3}$] | Yield [ksi] | Ry | Fu [ksi] | Rt |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | A36 Gr.36 | 29000 | 11154 | 0.3 | 0.65 | 0.49 | 36 | 1.5 | 58 | 1.2 |
| 2 | A572 Gr.50 | 29000 | 11154 | 0.3 | 0.65 | 0.49 | 50 | 1.1 | 65 | 1.1 |
| 3 | A992 | 29000 | 11154 | 0.3 | 0.65 | 0.49 | 50 | 1.1 | 65 | 1.1 |
| 4 | A500 Gr.B RND | 29000 | 11154 | 0.3 | 0.65 | 0.49 | 42 | 1.4 | 58 | 1.3 |
| 5 | A500 Gr.B Rect | 29000 | 11154 | 0.3 | 0.65 | 0.49 | 46 | 1.4 | 58 | 1.3 |
| 6 | A53 Gr.B | 29000 | 11154 | 0.3 | 0.65 | 0.49 | 35 | 1.6 | 60 | 1.2 |

### Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design Rule | Area [in$^{2}$] | Iyy [in$^{4}$] | Izz [in$^{4}$] | J [in$^{4}$] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | W24x68 w16x1 PL | W24x68 w16x1 PL | None | None | A572 Gr.50 | Typical | 51.845 | 753.17 | 6681.05 | 27.435 |
| 2 | L3.5x3.5x0.3125 | L3.5X3.5X5 | None | None | A36 Gr.36 | Typical | 2.1 | 2.44 | 2.44 | 0.073 |
| 3 | L5x5x3/8 wHSS2x2x1/4 | L5x5x3/8 wHSS2x2x1/4 | None | None | A36 Gr.36 | Typical | 5.256 | 9.617 | 9.617 | 3.099 |
| 4 | L3x3x5/16 | L3X3X5 | None | None | A36 Gr.36 | Typical | 1.78 | 1.5 | 1.5 | 0.06 |
| 5 | 18"x0.5" | HSS18x0.500 | None | None | A53 Gr.B | Typical | 25.6 | 985 | 985 | 1970 |
| 6 | WT6x15 | WT6X15 | None | None | A36 Gr.36 | Typical | 4.4 | 10.2 | 13.5 | 0.228 |
| 7 | HSS6x4x1/4 | HSS6X4X4 | None | None | A36 Gr.36 | Typical | 4.3 | 11.1 | 20.9 | 23.6 |
| 8 | HSS8x4x1/4 | HSS8X4X4 | None | None | A36 Gr.36 | Typical | 5.24 | 14.4 | 42.5 | 35.3 |
| 9 | L5x5x3/4 | L5X5X12 | None | None | A36 Gr.36 | Typical | 6.98 | 15.7 | 15.7 | 1.33 |
| 10 | SFS | L2.5x2.5x3 | VBrace | None | A36 Gr.36 | Typical | 0.901 | 0.535 | 0.535 | 0.011 |
| 11 | 2.0"Pipe | PIPE_2.0 | VBrace | None | A53 Gr.B | Typical | 1.02 | 0.627 | 0.627 | 1.25 |
| 12 | 3.5" Pipe | PIPE_3.0 | None | None | A53 Gr.B | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 13 | W24x68 | W24X68 | None | None | A572 Gr.50 | Typical | 20.1 | 70.4 | 1830 | 1.87 |
| 14 | L5x5x3/8 | L5X5X6 | None | None | A36 Gr.36 | Typical | 3.65 | 8.76 | 8.76 | 0.183 |
| 15 | L4x4x5/16 w/2" Pipe | L4x4x5/16 w2.4" pipe | None | None | A36 Gr.36 | Typical | 3.79 | 4.63 | 4.63 | 2.166 |
| 16 | HSS4x4x1/4 | HSS4x0.250 | None | None | A36 Gr.36 | Typical | 2.76 | 4.91 | 4.91 | 9.82 |

### Hot Rolled Steel Design Parameters

| | Label | Shape | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | Lcomp top [ft] | K y-y | K z-z | Function |
|---|---|---|---|---|---|---|---|---|---|
| 1 | M1 | W24x68 w16x1 PL | 19 | | | Lbyy | | | Lateral |
| 2 | M2 | W24x68 w16x1 PL | 19 | | | Lbyy | | | Lateral |
| 3 | M3 | W24x68 | 60.337 | 14 | 14 | Lbyy | | | Lateral |
| 4 | M4 | W24x68 | 60.337 | 14 | 14 | Lbyy | | | Lateral |
| 5 | M5 | 18"x0.5" | 28.833 | | | Lbyy | | | Lateral |
| 6 | M6 | 18"x0.5" | 27.708 | | | Lbyy | | | Lateral |
| 7 | M7 | 18"x0.5" | 28.479 | | | Lbyy | | | Lateral |
| 8 | M8 | 18"x0.5" | 25.542 | | | Lbyy | | | Lateral |
| 9 | M29 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 10 | M30 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 11 | M31 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 12 | M32 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 13 | M33 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 14 | M34 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 15 | M35 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |

***Hot Rolled Steel Design Parameters (Continued)***

| | Label | Shape | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | Lcomp top [ft] | K y-y | K z-z | Function |
|---|---|---|---|---|---|---|---|---|---|
| 16 | M36 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 17 | M37 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 18 | M38 | L5x5x3/8 | 13.644 | | | Lbyy | | | Lateral |
| 19 | M39 | L5x5x3/8 | 15.226 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 20 | M40 | L5x5x3/8 | 15.226 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 21 | M41 | L5x5x3/8 | 15.226 | | | Lbyy | | | Lateral |
| 22 | M42 | L5x5x3/8 | 15.226 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 23 | M43 | L3.5x3.5x0.3125 | 19.812 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 24 | M44 | L3.5x3.5x0.3125 | 19.812 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 25 | M45 | L5x5x3/8 wHSS2x2x1/4 | 32.37 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 26 | M46 | L5x5x3/8 wHSS2x2x1/4 | 32.37 | | | Lbyy | 0.5 | 0.5 | Lateral |
| 27 | M47 | WT6x15 | 12.666 | | | Lbyy | | | Lateral |
| 28 | M48 | WT6x15 | 12.666 | | | Lbyy | | | Lateral |
| 29 | M49 | WT6x15 | 12.096 | | | Lbyy | | | Lateral |
| 30 | M50 | WT6x15 | 12.096 | | | Lbyy | | | Lateral |
| 31 | M51 | WT6x15 | 12.787 | | | Lbyy | | | Lateral |
| 32 | M52 | WT6x15 | 12.787 | | | Lbyy | | | Lateral |
| 33 | M53 | WT6x15 | 12.011 | | | Lbyy | | | Lateral |
| 34 | M54 | WT6x15 | 12.011 | | | Lbyy | | | Lateral |
| 35 | M55 | WT6x15 | 12.885 | | | Lbyy | | | Lateral |
| 36 | M56 | WT6x15 | 12.885 | | | Lbyy | | | Lateral |
| 37 | M57 | WT6x15 | 12.139 | | | Lbyy | | | Lateral |
| 38 | M58 | WT6x15 | 12.139 | | | Lbyy | | | Lateral |
| 39 | M59 | WT6x15 | 12.738 | | | Lbyy | | | Lateral |
| 40 | M60 | WT6x15 | 12.738 | | | Lbyy | | | Lateral |
| 41 | M61 | WT6x15 | 12.139 | | | Lbyy | | | Lateral |
| 42 | M62 | WT6x15 | 12.139 | | | Lbyy | | | Lateral |
| 43 | M63 | WT6x15 | 12.738 | | | Lbyy | | | Lateral |
| 44 | M64 | WT6x15 | 12.738 | | | Lbyy | | | Lateral |
| 45 | M65 | WT6x15 | 11.482 | | | Lbyy | | | Lateral |
| 46 | M66 | WT6x15 | 11.482 | | | Lbyy | | | Lateral |
| 47 | M71 | HSS8x4x1/4 | 13.5 | | | Lbyy | | | Lateral |
| 48 | M72 | HSS8x4x1/4 | 13.5 | | | Lbyy | | | Lateral |
| 49 | M75 | HSS6x4x1/4 | 18.182 | | | Lbyy | | | Lateral |
| 50 | M76 | HSS6x4x1/4 | 18.182 | | | Lbyy | | | Lateral |
| 51 | M77 | HSS6x4x1/4 | 17.321 | | | Lbyy | | | Lateral |
| 52 | M76A | L4x4x5/16 w/2" Pipe | 7.571 | | | Lbyy | | | Lateral |
| 53 | M77A | L4x4x5/16 w/2" Pipe | 7.571 | | | Lbyy | | | Lateral |
| 54 | M78 | L4x4x5/16 w/2" Pipe | 14.72 | | | Lbyy | | | Lateral |
| 55 | M79 | L4x4x5/16 w/2" Pipe | 14.72 | | | Lbyy | | | Lateral |
| 56 | M84 | 3.5" Pipe | 12.5 | | | Lbyy | | | Lateral |
| 57 | M85 | 3.5" Pipe | 12.5 | | | Lbyy | | | Lateral |
| 58 | M86 | 3.5" Pipe | 12.5 | | | Lbyy | | | Lateral |
| 59 | M87 | HSS4x4x1/4 | 7.217 | | | Lbyy | | | Lateral |
| 60 | M88 | HSS4x4x1/4 | 7.217 | | | Lbyy | | | Lateral |
| 61 | M89 | HSS4x4x1/4 | 7.217 | | | Lbyy | | | Lateral |
| 62 | M93 | 2.0"Pipe | 12.5 | | | Lbyy | | | Lateral |
| 63 | M94 | 2.0"Pipe | 12.5 | | | Lbyy | | | Lateral |
| 64 | M95 | 2.0"Pipe | 12.5 | | | Lbyy | | | Lateral |
| 65 | M102 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 66 | M103 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 67 | M104 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 68 | M109 | SFS | 4.748 | | | Lbyy | | | Lateral |
| 69 | M110 | SFS | 4.748 | | | Lbyy | | | Lateral |
| 70 | M111 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |

***Hot Rolled Steel Design Parameters (Continued)***

| | Label | Shape | Length [ft] | Lb y-y [ft] | Lb z-z [ft] | Lcomp top [ft] | K y-y | K z-z | Function |
|---|---|---|---|---|---|---|---|---|---|
| 71 | M112 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 72 | M119 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 73 | M123 | SFS | 4.748 | | | Lbyy | | | Lateral |
| 74 | M125 | SFS | 4.748 | | | Lbyy | | | Lateral |
| 75 | M126 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 76 | M127 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 77 | M134 | 2.0"Pipe | 6 | | | Lbyy | | | Lateral |
| 78 | M138 | SFS | 4.748 | | | Lbyy | | | Lateral |
| 79 | M140 | SFS | 4.748 | | | Lbyy | | | Lateral |

***Member Advanced Data***

| | Label | I Release | J Release | Physical | Deflection Ratio Options | Activation | Seismic DR |
|---|---|---|---|---|---|---|---|
| 1 | M1 | | | Yes | ** NA ** | | None |
| 2 | M2 | | | Yes | ** NA ** | | None |
| 3 | M3 | | | Yes | ** NA ** | | None |
| 4 | M4 | | | Yes | ** NA ** | | None |
| 5 | M5 | | | Yes | ** NA ** | | None |
| 6 | M6 | | | Yes | ** NA ** | | None |
| 7 | M7 | | | Yes | ** NA ** | | None |
| 8 | M8 | | | Yes | ** NA ** | | None |
| 9 | M9 | | | Yes | N/A | | None |
| 10 | M10 | | | Yes | N/A | | None |
| 11 | M11 | | | Yes | N/A | | None |
| 12 | M12 | | | Yes | N/A | | None |
| 13 | M13 | | | Yes | N/A | | None |
| 14 | M14 | | | Yes | N/A | | None |
| 15 | M15 | | | Yes | N/A | | None |
| 16 | M16 | | | Yes | N/A | | None |
| 17 | M17 | | | Yes | N/A | | None |
| 18 | M18 | | | Yes | N/A | | None |
| 19 | M19 | | | Yes | N/A | | None |
| 20 | M20 | | | Yes | N/A | | None |
| 21 | M21 | | | Yes | N/A | | None |
| 22 | M22 | | | Yes | N/A | | None |
| 23 | M23 | | | Yes | N/A | | None |
| 24 | M24 | | | Yes | N/A | | None |
| 25 | M25 | | | Yes | N/A | | None |
| 26 | M26 | | | Yes | N/A | | None |
| 27 | M27 | | | Yes | N/A | | None |
| 28 | M28 | | | Yes | N/A | | None |
| 29 | M29 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 30 | M30 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 31 | M31 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 32 | M32 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 33 | M33 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 34 | M34 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 35 | M35 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 36 | M36 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 37 | M37 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 38 | M38 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 39 | M39 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 40 | M40 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 41 | M41 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 42 | M42 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 43 | M43 | BenPIN | BenPIN | Yes | ** NA ** | | None |

***Member Advanced Data (Continued)***

| | Label | I Release | J Release | Physical | Deflection Ratio Options | Activation | Seismic DR |
|---|---|---|---|---|---|---|---|
| 44 | M44 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 45 | M45 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 46 | M46 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 47 | M47 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 48 | M48 | | | Yes | ** NA ** | | None |
| 49 | M49 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 50 | M50 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 51 | M51 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 52 | M52 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 53 | M53 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 54 | M54 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 55 | M55 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 56 | M56 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 57 | M57 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 58 | M58 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 59 | M59 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 60 | M60 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 61 | M61 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 62 | M62 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 63 | M63 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 64 | M64 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 65 | M65 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 66 | M66 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 67 | M67 | | | Yes | N/A | | None |
| 68 | M68 | | | Yes | N/A | | None |
| 69 | M69 | | | Yes | N/A | | None |
| 70 | M70 | | | Yes | N/A | | None |
| 71 | M71 | | | Yes | ** NA ** | | None |
| 72 | M72 | | | Yes | ** NA ** | | None |
| 73 | M75 | | | Yes | ** NA ** | | None |
| 74 | M76 | | | Yes | ** NA ** | | None |
| 75 | M77 | | | Yes | ** NA ** | | None |
| 76 | M76A | | | Yes | ** NA ** | | None |
| 77 | M77A | | | Yes | ** NA ** | | None |
| 78 | M78 | | | Yes | ** NA ** | | None |
| 79 | M79 | | | Yes | ** NA ** | | None |
| 80 | M80 | | | Yes | N/A | | None |
| 81 | M81 | | | Yes | N/A | | None |
| 82 | M82 | | | Yes | N/A | | None |
| 83 | M83 | | | Yes | N/A | | None |
| 84 | M84 | | | Yes | ** NA ** | | None |
| 85 | M85 | | | Yes | ** NA ** | | None |
| 86 | M86 | | | Yes | ** NA ** | | None |
| 87 | M87 | | | Yes | ** NA ** | Exclude | None |
| 88 | M88 | | | Yes | ** NA ** | Exclude | None |
| 89 | M89 | | | Yes | ** NA ** | Exclude | None |
| 90 | M90 | | | Yes | N/A | Inactive | None |
| 91 | M91 | | | Yes | N/A | Inactive | None |
| 92 | M92 | | | Yes | N/A | Inactive | None |
| 93 | M93 | | | Yes | ** NA ** | Exclude | None |
| 94 | M94 | | | Yes | ** NA ** | Exclude | None |
| 95 | M95 | | | Yes | ** NA ** | Exclude | None |
| 96 | M96 | | | Yes | Default | | None |
| 97 | M97 | | | Yes | Default | | None |
| 98 | M98 | | | Yes | Default | | None |

***Member Advanced Data (Continued)***

| | Label | I Release | J Release | Physical | Deflection Ratio Options | Activation | Seismic DR |
|---|---|---|---|---|---|---|---|
| 99 | M99 | | | Yes | Default | | None |
| 100 | M100 | | | Yes | Default | | None |
| 101 | M101 | | | Yes | Default | | None |
| 102 | M102 | | | Yes | ** NA ** | | None |
| 103 | M103 | | | Yes | ** NA ** | | None |
| 104 | M104 | | | Yes | ** NA ** | | None |
| 105 | M105 | | | Yes | Default | | None |
| 106 | M106 | | | Yes | Default | | None |
| 107 | M107 | | | Yes | Default | | None |
| 108 | M108 | | | Yes | Default | | None |
| 109 | M109 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 110 | M110 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 111 | M111 | | | Yes | ** NA ** | | None |
| 112 | M112 | | | Yes | ** NA ** | | None |
| 113 | M113 | | | Yes | Default | | None |
| 114 | M114 | | | Yes | Default | | None |
| 115 | M115 | | | Yes | Default | | None |
| 116 | M116 | | | Yes | Default | | None |
| 117 | M117 | | | Yes | Default | | None |
| 118 | M118 | | | Yes | Default | | None |
| 119 | M119 | | | Yes | ** NA ** | | None |
| 120 | M120 | | | Yes | Default | | None |
| 121 | M121 | | | Yes | Default | | None |
| 122 | M122 | | | Yes | Default | | None |
| 123 | M123 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 124 | M124 | | | Yes | Default | | None |
| 125 | M125 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 126 | M126 | | | Yes | ** NA ** | | None |
| 127 | M127 | | | Yes | ** NA ** | | None |
| 128 | M128 | | | Yes | Default | | None |
| 129 | M129 | | | Yes | Default | | None |
| 130 | M130 | | | Yes | Default | | None |
| 131 | M131 | | | Yes | Default | | None |
| 132 | M132 | | | Yes | Default | | None |
| 133 | M133 | | | Yes | Default | | None |
| 134 | M134 | | | Yes | ** NA ** | | None |
| 135 | M135 | | | Yes | Default | | None |
| 136 | M136 | | | Yes | Default | | None |
| 137 | M137 | | | Yes | Default | | None |
| 138 | M138 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 139 | M139 | | | Yes | Default | | None |
| 140 | M140 | BenPIN | BenPIN | Yes | ** NA ** | | None |
| 141 | M141 | | | Yes | Default | | None |
| 142 | M142 | | | Yes | Default | | None |
| 143 | M143 | | | Yes | Default | | None |

***Node Boundary Conditions***

| | Node Label | X [k/in] | Y [k/in] | Z [k/in] | X Rot [k-ft/rad] | Y Rot [k-ft/rad] | Z Rot [k-ft/rad] |
|---|---|---|---|---|---|---|---|
| 1 | N1 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 2 | N2 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 3 | N3 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 4 | N79 | | | | | | |

### *Envelope Node Reactions*

| | Node Label | | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | N1 | max | 15428.171 | 4 | 174092.651 | 4 | 15558.975 | 3 | 226.839 | 13 | 0.522 | 11 | 129.717 | 11 |
| 2 | | min | -16191.776 | 10 | -136054.893 | 10 | -16048.244 | 9 | -225.955 | 7 | -0.529 | 4 | -130.08 | 5 |
| 3 | N2 | max | 16326.034 | 6 | 169854.262 | 12 | 15202.341 | 13 | 220.214 | 3 | 0.106 | 11 | 130.906 | 12 |
| 4 | | min | -15541.114 | 12 | -139872.607 | 6 | -15707.849 | 7 | -219.511 | 9 | -0.106 | 5 | -130.535 | 5 |
| 5 | N3 | max | 6304.614 | 5 | 195247.846 | 8 | 2847.673 | 2 | 35.132 | 2 | 3.065 | 11 | 71.269 | 11 |
| 6 | | min | -6319.059 | 11 | -159289.735 | 2 | -2418.581 | 8 | -35.769 | 8 | -3.065 | 5 | -71.221 | 5 |
| 7 | Totals: | max | 36269.741 | 5 | 81860.51 | 31 | 33160.094 | 2 | | | | | | |
| 8 | | min | -36269.738 | 11 | 9430.11 | 35 | -33160.045 | 8 | | | | | | |

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

| | Member | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc[ft] | Dir | LC | phi*Pnc [lb] | phi*Pnt [lb] | phi*Mn y-y [k-ft] | phi*Mn z-z [k-ft] | Cb | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M4 | W24X68 | 0.975 | 4.446 | 4 | 0.053 | 2.223 | y | 12 | 196002.108 | 904500 | 91.875 | 225.15 | 3 | H1-1a |
| 2 | M3 | W24X68 | 0.962 | 4.446 | 12 | 0.053 | 2.223 | y | 11 | 196002.108 | 904500 | 91.875 | 224.714 | 2.994 | H1-1a |
| 3 | M44 | L3.5X3.5X5 | 0.815 | 9.802 | 5 | 0.003 | 19.812 | y | 16 | 15754.264 | 68040 | 2.882 | 3.693 | 1.136 | H2-1 |
| 4 | M43 | L3.5X3.5X5 | 0.814 | 9.802 | 11 | 0.003 | 19.812 | y | 16 | 15754.264 | 68040 | 2.882 | 3.693 | 1.136 | H2-1 |
| 5 | M48 | WT6X15 | 0.663 | 0 | 4 | 0.015 | 0 | y | 4 | 81203.651 | 142560 | 12.906 | 7.439 | 2.461 | H1-1a |
| 6 | M41 | L5X5X6 | 0.643 | 7.453 | 5 | 0.003 | 15.226 | y | 4 | 24012.917 | 118260 | 7.418 | 11.488 | 1.136 | H2-1 |
| 7 | M46 | L5x5x3/8 wHSS2x2x1/4 | 0.56 | 15.674 | 5 | 0.005 | 32.37 | y | 22 | 30839.58 | 170301.528 | 10.651 | 9.607 | 1.136 | H2-1 |
| 8 | M45 | L5x5x3/8 wHSS2x2x1/4 | 0.56 | 15.674 | 11 | 0.005 | 32.37 | y | 20 | 30839.58 | 170301.528 | 10.651 | 9.607 | 1.136 | H2-1 |
| 9 | M50 | WT6X15 | 0.442 | 5.984 | 10 | 0.006 | 12.096 | y | 11 | 84941.477 | 142560 | 12.906 | 11.553 | 1.136 | H1-1a |
| 10 | M49 | WT6X15 | 0.442 | 5.984 | 6 | 0.005 | 12.096 | y | 5 | 84941.477 | 142560 | 12.906 | 11.553 | 1.136 | H1-1a |
| 11 | M104 | PIPE_2.0 | 0.419 | 3 | 18 | 0.109 | 4.989 | | 21 | 20866.733 | 32130 | 1.872 | 1.872 | 1.741 | H1-1b |
| 12 | M102 | PIPE_2.0 | 0.419 | 3 | 22 | 0.109 | 4.989 | | 19 | 20866.733 | 32130 | 1.872 | 1.872 | 1.741 | H1-1b |
| 13 | M134 | PIPE_2.0 | 0.419 | 3 | 15 | 0.108 | 4.989 | | 15 | 20866.733 | 32130 | 1.872 | 1.872 | 1.741 | H1-1b |
| 14 | M112 | PIPE_2.0 | 0.419 | 3 | 25 | 0.108 | 4.989 | | 25 | 20866.733 | 32130 | 1.872 | 1.872 | 1.741 | H1-1b |
| 15 | M127 | PIPE_2.0 | 0.418 | 3 | 18 | 0.109 | 4.989 | | 16 | 20866.733 | 32130 | 1.872 | 1.872 | 1.741 | H1-1b |
| 16 | M119 | PIPE_2.0 | 0.418 | 3 | 22 | 0.109 | 4.989 | | 24 | 20866.733 | 32130 | 1.872 | 1.872 | 1.741 | H1-1b |
| 17 | M47 | WT6X15 | 0.409 | 6.2 | 12 | 0.006 | 12.666 | y | 5 | 81203.651 | 142560 | 12.906 | 11.519 | 1.136 | H1-1a |
| 18 | M5 | HSS18x0.500 | 0.369 | 0 | 8 | 0.035 | 0 | | 11 | 687685.708 | 806400 | 375.375 | 375.375 | 1.813 | H1-1a |
| 19 | M7 | HSS18x0.500 | 0.361 | 16.938 | 11 | 0.059 | 16.938 | | 11 | 690364.728 | 806400 | 375.375 | 375.375 | 1.481 | H1-1b |
| 20 | M103 | PIPE_2.0 | 0.332 | 3 | 20 | 0.039 | 4.989 | | 23 | 20866.733 | 32130 | 1.872 | 1.872 | 1.725 | H1-1b |
| 21 | M111 | PIPE_2.0 | 0.332 | 3 | 25 | 0.039 | 4.989 | | 24 | 20866.733 | 32130 | 1.872 | 1.872 | 1.852 | H1-1b |
| 22 | M126 | PIPE_2.0 | 0.332 | 3 | 15 | 0.039 | 4.989 | | 16 | 20866.733 | 32130 | 1.872 | 1.872 | 1.82 | H1-1b |
| 23 | M64 | WT6X15 | 0.324 | 6.235 | 3 | 0.005 | 12.738 | y | 7 | 80727.368 | 142560 | 12.906 | 11.514 | 1.136 | H1-1a |
| 24 | M62 | WT6X15 | 0.322 | 6.006 | 9 | 0.005 | 12.139 | y | 4 | 84658.541 | 142560 | 12.906 | 11.55 | 1.136 | H1-1a |
| 25 | M63 | WT6X15 | 0.318 | 6.235 | 13 | 0.006 | 12.738 | y | 9 | 80727.368 | 142560 | 12.906 | 11.514 | 1.136 | H1-1a |
| 26 | M61 | WT6X15 | 0.317 | 6.006 | 7 | 0.005 | 12.139 | y | 12 | 84658.541 | 142560 | 12.906 | 11.55 | 1.136 | H1-1a |
| 27 | M52 | WT6X15 | 0.316 | 6.259 | 3 | 0.006 | 12.787 | y | 11 | 80406.776 | 142560 | 12.906 | 11.511 | 1.136 | H1-1a |
| 28 | M2 | W24x68 w16x1 PL | 0.315 | 0 | 5 | 0.058 | 10.2 | y | 9 | 1.72273e+6 | 2.33302e+6 | 564.878 | 2134.343 | 1.19 | H1-1b |
| 29 | M51 | WT6X15 | 0.309 | 6.259 | 13 | 0.005 | 12.787 | y | 12 | 80406.776 | 142560 | 12.906 | 11.511 | 1.136 | H1-1a |
| 30 | M1 | W24x68 w16x1 PL | 0.308 | 0 | 11 | 0.054 | 0 | y | 7 | 1.72273e+6 | 2.33302e+6 | 564.878 | 2134.343 | 1.189 | H1-1b |
| 31 | M56 | WT6X15 | 0.288 | 6.307 | 3 | 0.006 | 12.885 | y | 5 | 79758.393 | 142560 | 12.906 | 11.505 | 1.136 | H1-1a |
| 32 | M55 | WT6X15 | 0.281 | 6.307 | 13 | 0.006 | 12.885 | y | 11 | 79758.393 | 142560 | 12.906 | 11.505 | 1.136 | H1-1a |
| 33 | M6 | HSS18x0.500 | 0.247 | 3.354 | 8 | 0.023 | 3.354 | | 5 | 696116.025 | 806400 | 375.375 | 375.375 | 1.194 | H1-1a |
| 34 | M42 | L5X5X6 | 0.246 | 7.533 | 11 | 0.003 | 15.226 | y | 15 | 75259.8 | 118260 | 7.418 | 11.488 | 1.136 | H2-1 |
| 35 | M54 | WT6X15 | 0.244 | 5.942 | 8 | 0.005 | 12.011 | y | 4 | 85498.452 | 142560 | 12.906 | 11.558 | 1.136 | H1-1a |
| 36 | M53 | WT6X15 | 0.236 | 5.942 | 8 | 0.004 | 12.011 | y | 12 | 85498.452 | 142560 | 12.906 | 11.558 | 1.136 | H1-1a |
| 37 | M8 | HSS18x0.500 | 0.22 | 0 | 5 | 0.024 | 0 | | 5 | 711671.576 | 806400 | 375.375 | 375.375 | 1.808 | H1-1b |
| 38 | M39 | L5X5X6 | 0.192 | 7.533 | 5 | 0.005 | 15.226 | y | 11 | 75259.8 | 118260 | 7.418 | 11.488 | 1.136 | H2-1 |
| 39 | M40 | L5X5X6 | 0.191 | 7.533 | 11 | 0.004 | 15.226 | y | 12 | 75259.8 | 118260 | 7.418 | 11.488 | 1.136 | H2-1 |
| 40 | M58 | WT6X15 | 0.185 | 0 | 9 | 0.005 | 12.139 | y | 5 | 84658.541 | 142560 | 12.906 | 11.55 | 1.136 | H1-1b* |
| 41 | M84 | PIPE_3.0 | 0.182 | 0.987 | 18 | 0.167 | 11.513 | | 25 | 28250.611 | 65205 | 5.749 | 5.749 | 1.992 | H1-1b |
| 42 | M85 | PIPE_3.0 | 0.182 | 11.513 | 22 | 0.167 | 0.987 | | 15 | 28250.611 | 65205 | 5.749 | 5.749 | 1.992 | H1-1b |
| 43 | M86 | PIPE_3.0 | 0.181 | 0.987 | 14 | 0.167 | 0.987 | | 18 | 28250.554 | 65205 | 5.749 | 5.749 | 1.99 | H1-1b |

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

| | Member | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc[ft] | Dir | LC | phi*Pnc [lb] | phi*Pnt [lb] | phi*Mn y-y [k-ft] | phi*Mn z-z [k-ft] | Cb | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44 | M57 | WT6X15 | 0.179 | 0 | 7 | 0.005 | 12.139 | y | 11 | 84658.541 | 142560 | 12.906 | 11.55 | 1.136 | H1-1b* |
| 45 | M60 | WT6X15 | 0.165 | 0 | 3 | 0.007 | 12.738 | y | 11 | 80727.368 | 142560 | 12.906 | 11.514 | 1.136 | H1-1b* |
| 46 | M59 | WT6X15 | 0.16 | 0 | 13 | 0.006 | 12.738 | y | 5 | 80727.368 | 142560 | 12.906 | 11.514 | 1.136 | H1-1b* |
| 47 | M109 | L2.5x2.5x3 | 0.144 | 2.399 | 21 | 0.004 | 4.748 | y | 21 | 13991.59 | 29192.4 | 0.873 | 1.641 | 1.136 | H2-1 |
| 48 | M110 | L2.5x2.5x3 | 0.144 | 2.399 | 19 | 0.004 | 4.748 | z | 19 | 13991.59 | 29192.4 | 0.873 | 1.641 | 1.136 | H2-1 |
| 49 | M140 | L2.5x2.5x3 | 0.144 | 2.399 | 15 | 0.004 | 4.748 | z | 17 | 13991.59 | 29192.4 | 0.873 | 1.641 | 1.136 | H2-1 |
| 50 | M123 | L2.5x2.5x3 | 0.144 | 2.399 | 25 | 0.004 | 4.748 | y | 23 | 13991.59 | 29192.4 | 0.873 | 1.641 | 1.136 | H2-1 |
| 51 | M125 | L2.5x2.5x3 | 0.144 | 2.399 | 23 | 0.004 | 4.748 | z | 14 | 13991.59 | 29192.4 | 0.873 | 1.641 | 1.136 | H2-1 |
| 52 | M138 | L2.5x2.5x3 | 0.144 | 2.399 | 17 | 0.004 | 4.748 | y | 14 | 13991.59 | 29192.4 | 0.873 | 1.641 | 1.136 | H2-1 |
| 53 | M30 | L5X5X6 | 0.132 | 6.822 | 8 | 0.006 | 13.644 | z | 11 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 54 | M29 | L5X5X6 | 0.132 | 6.822 | 8 | 0.006 | 13.644 | y | 5 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 55 | M79 | L4x4x5/16 w2.4" pipe | 0.126 | 14.72 | 20 | 0.002 | 14.72 | y | 21 | 16644.398 | 122790.816 | 5.57 | 9.593 | 1.5 | H2-1 |
| 56 | M78 | L4x4x5/16 w2.4" pipe | 0.122 | 14.72 | 21 | 0.002 | 14.72 | y | 11 | 16644.398 | 122790.816 | 5.57 | 9.593 | 1.5 | H2-1 |
| 57 | M66 | WT6X15 | 0.079 | 0 | 8 | 0.01 | 11.482 | y | 12 | 88929.501 | 142560 | 12.906 | 11.59 | 1.136 | H1-1b* |
| 58 | M65 | WT6X15 | 0.073 | 0 | 8 | 0.01 | 11.482 | y | 4 | 88929.501 | 142560 | 12.906 | 11.59 | 1.136 | H1-1b* |
| 59 | M38 | L5X5X6 | 0.069 | 6.822 | 2 | 0.003 | 13.644 | z | 23 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 60 | M37 | L5X5X6 | 0.069 | 6.822 | 2 | 0.003 | 13.644 | y | 17 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 61 | M34 | L5X5X6 | 0.066 | 6.822 | 14 | 0.003 | 13.644 | z | 23 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 62 | M33 | L5X5X6 | 0.066 | 6.822 | 14 | 0.003 | 13.644 | y | 16 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 63 | M36 | L5X5X6 | 0.066 | 6.822 | 14 | 0.003 | 13.644 | z | 22 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 64 | M35 | L5X5X6 | 0.066 | 6.822 | 14 | 0.003 | 13.644 | y | 16 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 65 | M31 | L5X5X6 | 0.064 | 6.822 | 14 | 0.003 | 13.644 | y | 16 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 66 | M32 | L5X5X6 | 0.064 | 6.822 | 14 | 0.003 | 13.644 | z | 23 | 29906.084 | 118260 | 7.418 | 11.968 | 1.136 | H2-1 |
| 67 | M76 | HSS6X4X4 | 0.024 | 18.182 | 18 | 0.004 | 18.182 | y | 18 | 52673.992 | 139320 | 17.415 | 23.031 | 2.381 | H1-1b |
| 68 | M75 | HSS6X4X4 | 0.024 | 0 | 22 | 0.004 | 0 | y | 22 | 52673.992 | 139320 | 17.415 | 23.031 | 2.381 | H1-1b |
| 69 | M77A | L4x4x5/16 w2.4" pipe | 0.022 | 0 | 2 | 0.001 | 7.571 | y | 7 | 59982.319 | 122790.816 | 5.57 | 9.968 | 1.5 | H2-1 |
| 70 | M77 | HSS6X4X4 | 0.022 | 17.321 | 19 | 0.004 | 17.321 | y | 17 | 57728.58 | 139320 | 17.415 | 23.031 | 2.381 | H1-1b |
| 71 | M76A | L4x4x5/16 w2.4" pipe | 0.02 | 7.571 | 5 | 0.001 | 7.571 | y | 10 | 59982.319 | 122790.816 | 5.57 | 9.968 | 1.405 | H2-1 |
| 72 | M71 | HSS8X4X4 | 0.01 | 13.5 | 19 | 0.002 | 13.5 | y | 17 | 102691.653 | 169776 | 22.14 | 35.91 | 2.381 | H1-1b |
| 73 | M72 | HSS8X4X4 | 0.01 | 0 | 19 | 0.002 | 0 | y | 17 | 102691.653 | 169776 | 22.14 | 35.91 | 2.381 | H1-1b |

**Site Name:** CROMWELLSW CT, CT
**Site Number:** 411261
**Tower Type:** SST w/3 Legs
**Design Loads (Factored) - Analysis per TIA-222-H Standards**

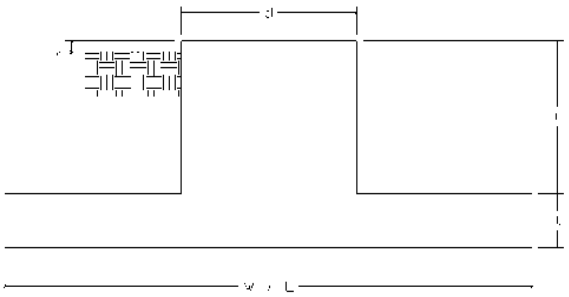
# Monolithic Mat & Pier Foundation Analysis

| Foundation Analysis Parameters | | |
|---|---|---|
| Design / Analysis / Mapping: | Mapping | - |
| Compression/Leg: | 195.3 | k |
| Uplift/Leg: | 159.3 | k |
| Total Shear: | 36.3 | k |
| Moment: | 2,106.2 | k-ft |
| Tower + Appurtenance Weight: | 50.0 | k |
| Depth to Base of Foundation (l + t - h): | 4.115566 | ft |
| Diameter of Pier (d): | 0.75 | ft |
| Length of Pier (l): | 1.615566 | ft |
| Height of Pier above Ground (h): | 0.5 | ft |
| Width of Pad (W): | 16 | ft |
| Length of Pad (L): | 26.5 | ft |
| Thickness of Pad (t): | 3 | ft |
| Tower Leg Center to Center: | 13 | ft |
| Number of Tower Legs: | 3 | - |
| Tower Center from Mat Center: | 0 | ft |
| Depth Below Ground Surface to Water Table: | 99 | ft |
| Unit Weight of Concrete: | 150 | pcf |
| Unit Weight of Soil Above Water Table: | 137 | pcf |
| Unit Weight of Water: | 62.4 | pcf |
| Unit Weight of Soil Below Water Table: | 74.6 | pcf |
| Friction Angle of Uplift: | 15 | ° |
| Coefficient of Shear Friction: | 0.30 | - |
| Ultimate Compressive Bearing Pressure: | 59,044 | psf |
| Ultimate Passive Pressure on Pad Face: | 7,449 | psf |
| $f_{Soil\ and\ Concrete\ Weight}$: | 0.9 | - |
| $f_{Soil}$: | 0.75 | - |

| Overturning Moment Usage | | |
|---|---|---|
| Design OTM: | 2273.7 | k-ft |
| OTM Resistance: | 2712.0 | k-ft |
| Design OTM / OTM Resistance: | 84% | Pass |

| Soil Bearing Pressure Usage | | |
|---|---|---|
| Net Bearing Pressure: | 24212 | psf |
| Factored Nominal Bearing Pressure: | 44283 | psf |
| Factored Nominal (Net) Bearing Pressure: | 55% | Pass |
| Load Direction Controling Design Bearing Pressure: | *Diagonal to Pad Edge* | |

| Sliding Factor of Safety | | |
|---|---|---|
| Ultimate Friction Resistance: | 89.2 | k |
| Ultimate Passive Pressure Resistance: | 444.1 | k |
| Total Factored Sliding Resistance: | 400.0 | k |
| Sliding Design / Sliding Resistance: | 9% | Pass |



| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

# CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Section 1 - Site Information

**Site ID:** CTHA240A
**Status:** Draft
**Version:** 12
**Project Type:** Anchor
**Approved:** Not Approved
**Approved By:** Not Approved
**Last Modified:** 12/10/2021 8:35:45 AM
**Last Modified By:** Pratik.Patil30@T-Mobile.com

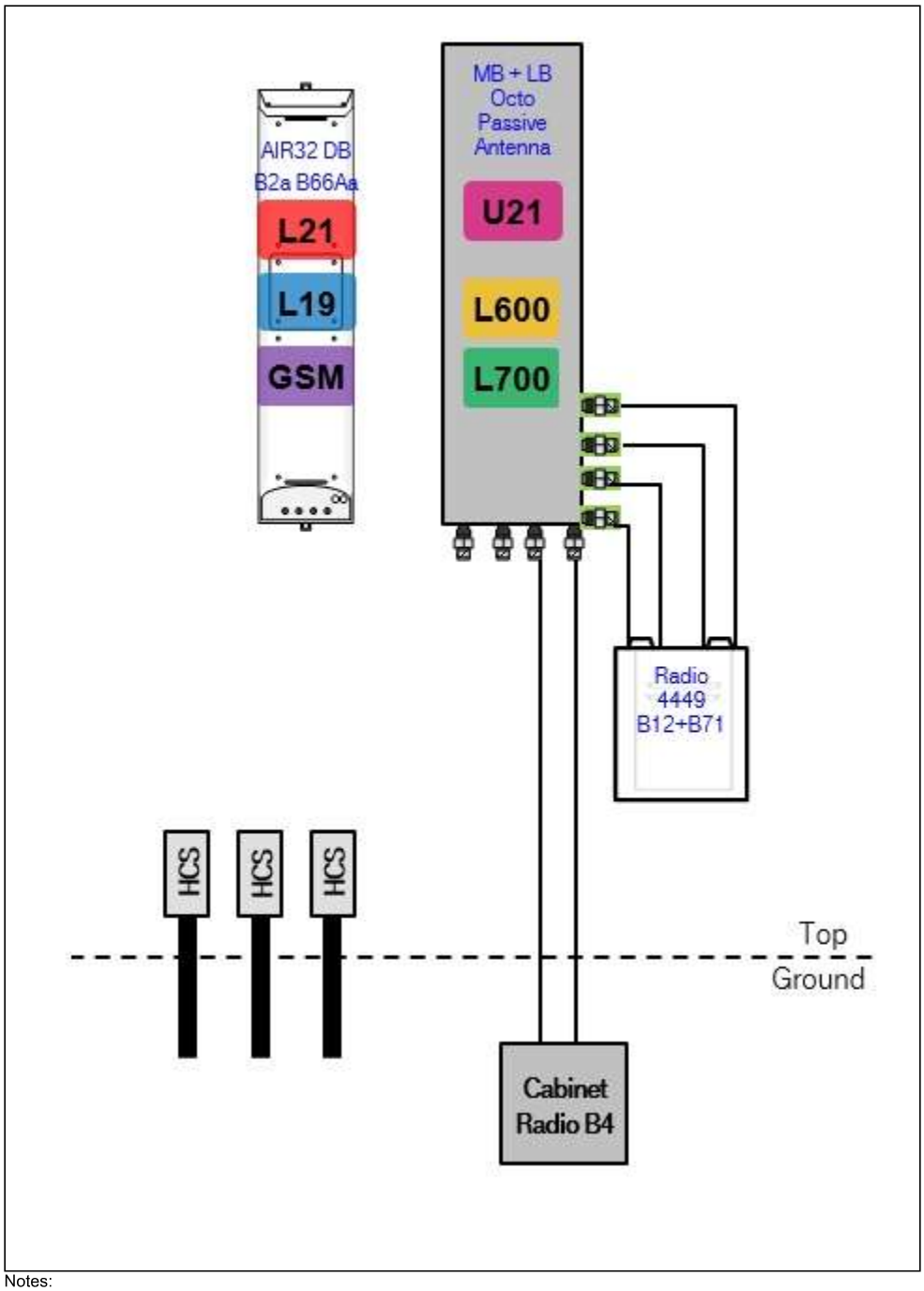
**Site Name:** CTHA240/Verizon_BB
**Site Class:** Billboard
**Site Type:** Structure Non Building
**Plan Year:** 2022
**Market:** CONNECTICUT CT
**Vendor:** Ericsson
**Landlord:** Shaner Hotel Group

**Latitude:** 41.60570499
**Longitude:** -72.70136490
**Address:** Christian Hill Road/ 100 Berlin Rd
**City, State:** Cromwell, CT
**Region:** NORTHEAST

| RAN Template: 67D5A998E Outdoor | | | AL Template: 67D5998E_1xAIR+1OP+1QP | |
|---|---|---|---|---|
| **Sector Count:** 3 | **Antenna Count:** 9 | **Coax Line Count:** 0 | **TMA Count:** 0 | **RRU Count:** 6 |

## Section 2 - Existing Template Images

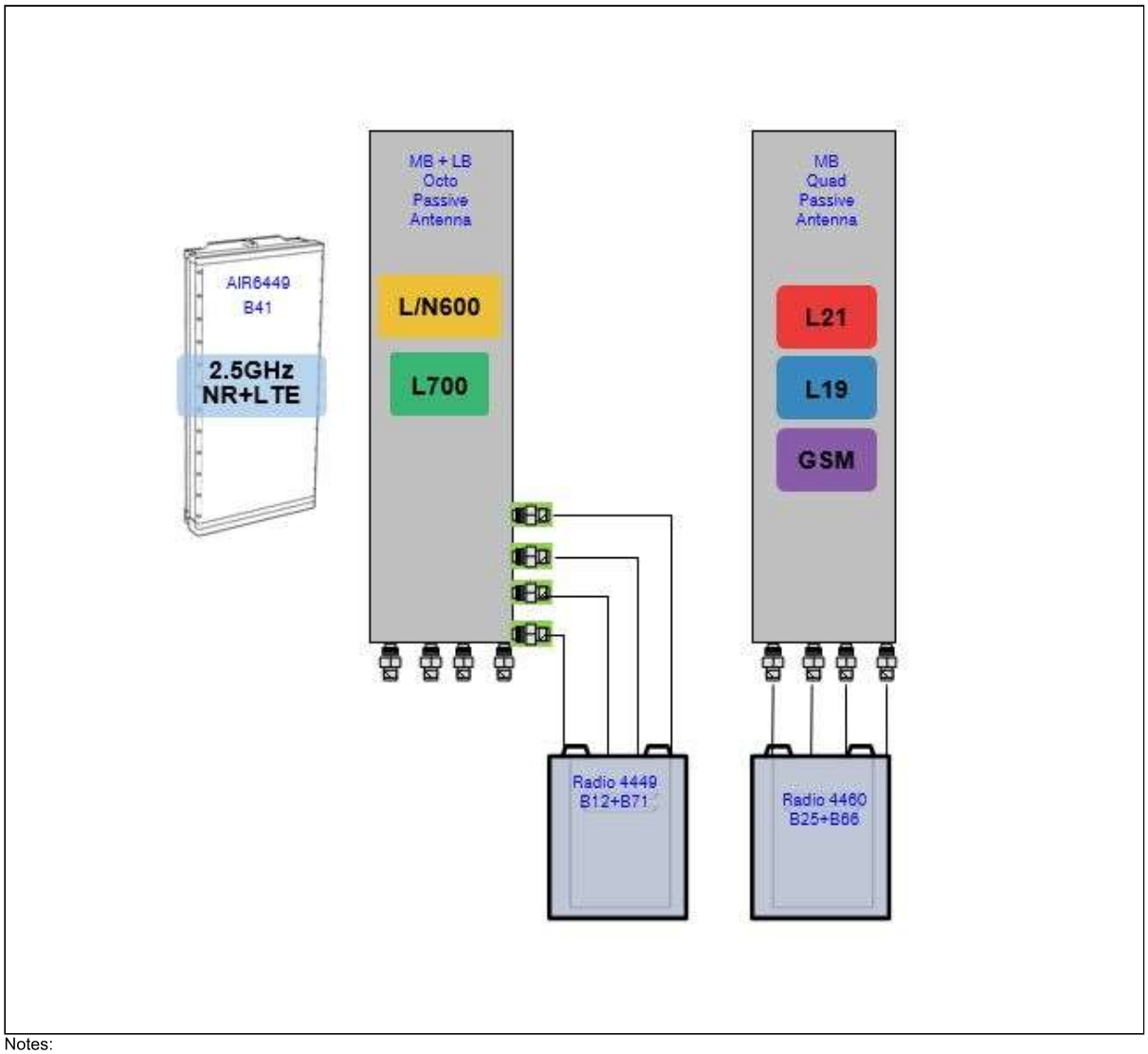
67D92DBL_U21.png




Notes:

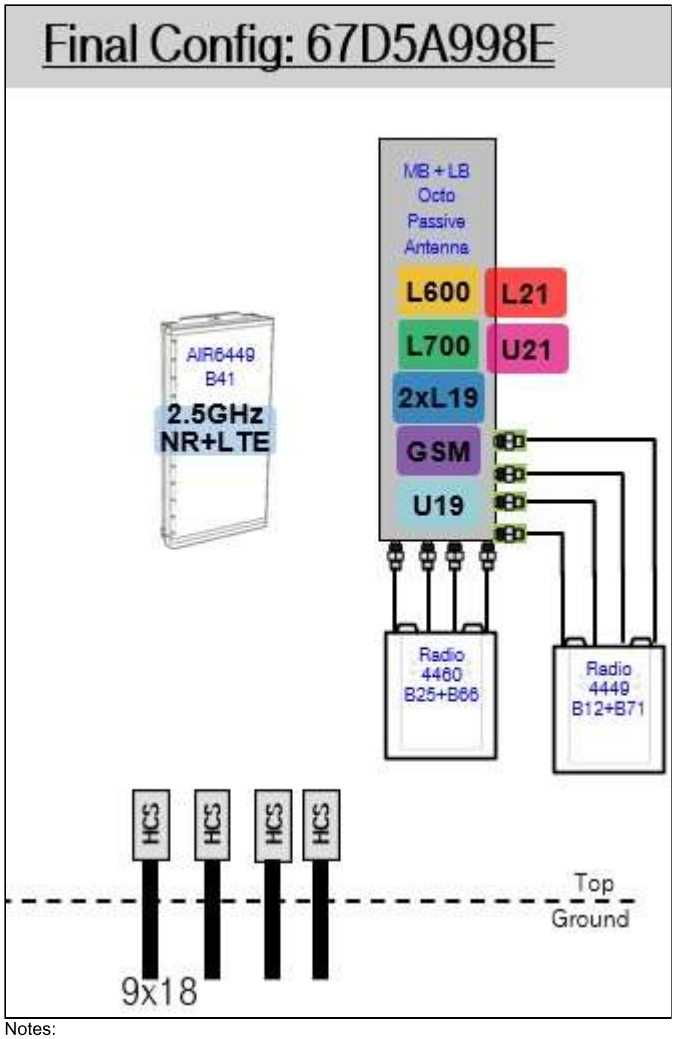
## Section 3 - Proposed Template Images

67D5998E_1xAIR+1OP+1QP.JPG




Notes:

67D5A998E.jpg


Final Config: 67D5A998E
MB + LB
Octo
Passive
Antenna
L600
L21
L700
U21
2xL19
GSM
U19
AIR6449
B41
2.5GHz
NR+LTE
Radio
4460
B25+B66
Radio
4449
B12+B71
HCS
HCS
HCS
HCS
Top
Ground
9x18

Notes:

## Section 4 - Siteplan Images

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Section 5 - RAN Equipment

### Existing RAN Equipment

**Template:** 67D92DBL Outdoor

| Enclosure | 1 | 2 |
|---|---|---|
| Enclosure Type | RBS 6131 | Ancillary Equipment (Ericsson) |
| Baseband | DUW30 (U2100); DUG20 (G1900); BB 6630 (N600, L700, L600); BB 6630 (L2100, L1900) | |
| Hybrid Cable System | | Ericsson 6x12 HCS *Select AWG & Length* **(x 3 )** |
| Radio | RU22 **(x 6 )** (U2100) | |

### Proposed RAN Equipment

**Template:** 67D5A998E Outdoor

| Enclosure | 1 | 2 | 3 |
|---|---|---|---|
| Enclosure Type | RBS 6131 | Enclosure 6160 AC V1 | B160 |
| Baseband | DUW30 (U2100); DUG20 (G1900); BB 6630 (L700, L600, N600); BB 6630 (L2100, L1900) | BB 6648 (L2500, N2500) | |
| Hybrid Cable System | Ericsson 6x12 HCS *Select Length & AWG* **(x 3 )** | PSU 4813 vR4A (Kit); Ericsson Hybrid Trunk 6/24 4AWG 100m **(x 2 )** | |
| Transport System | | CSR IXRe V2 (Gen2) | |

**RAN Scope of Work:**

Remove and return all cabinet radios from existing base station cabinet.

Remove Nortel

Add (1) Enclosure 6160.

Add (1) iXRe Router to new Enclosure 6160.

Add (1) BB6648 for L2500 and N2500 (MMBB - Mixed Mode Baseband) to new Enclosure 6160.

Add (1) PSU4813 Voltage Booster to new Enclosure 6160.

Add (1) Battery Cabinet B160.

Existing : (3) 6X12, (6) Coax

Remove all coaxial lines

Add (2) 6x24 terminating at the Enclosure 6160. Connect DC for the AIR6449 B41 to the PSU4813 Voltage Booster.

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Section 6 - A&L Equipment

**Existing Template:** 67D92DBL_1xAIR+1OP (U21 Market)
**Proposed Template:** 67D5998E_1xAIR+1OP+1QP

### Sector 1 (Existing) view from behind

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Coverage Type** | A - Outdoor Macro | | | | | | | |
| **Antenna** | 1 | | | | 2 | | | |
| **Antenna Model** | Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo) | | | | RFS - APXVAALL24_43-U-NA20 (Octo) | | | |
| **Azimuth** | 25 | | | | 25 | | | |
| **M. Tilt** | 0 | | | | 0 | | | |
| **Height** | 108 | | | | 108 | | | |
| **Ports** | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
| **Active Tech.** | L2100 | L2100 | L1900 G1900 | L1900 G1900 | L700 L600 N600 | L700 L600 N600 | U2100 | |
| **Dark Tech.** | | | | | | | | |
| **Restricted Tech.** | | | | | | | | |
| **Decomm. Tech.** | | | | | | | | |
| **E. Tilt** | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **Cables** | | | | | Coax Jumper **(x2)** | Coax Jumper **(x2)** | 1-5/8" Coax **(x2)** | |
| **TMAs** | | | | | | | Generic Twin Style 1B - AWS (AtAntenna) | |
| **Diplexers / Combiners** | | | | | | | | |
| **Radio** | | | | | Radio 4449 B71+B85 (At Antenna) | SHARED Radio 4449 B71+B85 (At Antenna) | | |
| **Sector Equipment** | | | | | | | | |

**Unconnected Equipment:**

**Scope of Work:**

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

# CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Sector 1 (Proposed) view from behind

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Coverage Type** | A - Outdoor Macro | | | | | | | |
| **Antenna** | 1 | | 2 | | | | 3 | |
| **Antenna Model** | Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO) | | RFS - APXVAALL24_43-U-NA20 (Octo) | | | | Commscope_VV-65A-R1 (Quad) | |
| **Azimuth** | 25 | | 25 | | | | 25 | |
| **M. Tilt** | 0 | | 0 | | | | 0 | |
| **Height** | 108 | | 108 | | | | 108 | |
| **Ports** | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
| **Active Tech.** | L2500 N2500 | L2500 N2500 | L700 L600 N600 | L700 L600 N600 | | | L2100 L1900 G1900 U2100 | L2100 L1900 G1900 U2100 |
| **Dark Tech.** | | | | | | | | |
| **Restricted Tech.** | | | | | | | | |
| **Decomm. Tech.** | | | | | | | | |
| **E. Tilt** | 2 | 2 | 2 | 2 | | | 2 | 2 |
| **Cables** | Fiber Jumper | Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper | | | Coax Jumper **(x2)** Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper |
| **TMAs** | | | | | | | | |
| **Diplexers / Combiners** | | | | | | | | |
| **Radio** | | | Radio 4449 B71+B85 (At Antenna) | SHARED Radio 4449 B71+B85 (At Antenna) | | | Radio 4460 B25+B66 (At Antenna) | SHARED Radio 4460 B25+B66 (At Antenna) |
| **Sector Equipment** | | | | | | | | |

**Unconnected Equipment:**

**Scope of Work:**

There will be Three antennae per sector.

Remove all TMAs.

Remove all Coaxial Lines.

Remove AIR32 B66A/B2A from Position 1.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 1.

Install(1) Mid-band Quad antenna in Position 3.

Add (1) Radio 4460 B25+B66 for L2100, L1900 (Both carriers), U2100, and GSM to Position 3 at antenna.

Ensure RET control is enabled for all technology layers according to the Design Documents

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

# CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Sector 2 (Existing) view from behind

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Coverage Type** | A - Outdoor Macro | | | | | | | |
| **Antenna** | 1 | | | | 2 | | | |
| **Antenna Model** | Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo) | | | | RFS - APXVAALL24_43-U-NA20 (Octo) | | | |
| **Azimuth** | 120 | | | | 120 | | | |
| **M. Tilt** | 0 | | | | 0 | | | |
| **Height** | 108 | | | | 108 | | | |
| **Ports** | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
| **Active Tech.** | L2100 | L2100 | L1900 G1900 | L1900 G1900 | L700 L600 N600 | L700 L600 N600 | U2100 | |
| **Dark Tech.** | | | | | | | | |
| **Restricted Tech.** | | | | | | | | |
| **Decomm. Tech.** | | | | | | | | |
| **E. Tilt** | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **Cables** | | | | | Coax Jumper **(x2)** | Coax Jumper **(x2)** | 1-5/8" Coax **(x2)** | |
| **TMAs** | | | | | | | Generic Twin Style 1B - AWS (AtAntenna) | |
| **Diplexers / Combiners** | | | | | | | | |
| **Radio** | | | | | Radio 4449 B71+B85 (At Antenna) | SHARED Radio 4449 B71+B85 (At Antenna) | | |
| **Sector Equipment** | | | | | | | | |

**Unconnected Equipment:**

**Scope of Work:**

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

# CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Sector 2 (Proposed) view from behind

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Coverage Type** | A - Outdoor Macro | | | | | | | |
| **Antenna** | 1 | | 2 | | | | 3 | |
| **Antenna Model** | Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO) | | RFS - APXVAALL24_43-U-NA20 (Octo) | | | | Commscope_VV-65A-R1 (Quad) | |
| **Azimuth** | 120 | | 120 | | | | 120 | |
| **M. Tilt** | 0 | | 0 | | | | 0 | |
| **Height** | 108 | | 108 | | | | 108 | |
| **Ports** | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
| **Active Tech.** | L2500 N2500 | L2500 N2500 | L700 L600 N600 | L700 L600 N600 | | | L2100 L1900 G1900 U2100 | L2100 L1900 G1900 U2100 |
| **Dark Tech.** | | | | | | | | |
| **Restricted Tech.** | | | | | | | | |
| **Decomm. Tech.** | | | | | | | | |
| **E. Tilt** | 2 | 2 | 2 | 2 | | | 2 | 2 |
| **Cables** | Fiber Jumper | Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper | | | Coax Jumper **(x2)** Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper |
| **TMAs** | | | | | | | | |
| **Diplexers / Combiners** | | | | | | | | |
| **Radio** | | | Radio 4449 B71+B85 (At Antenna) | SHARED Radio 4449 B71+B85 (At Antenna) | | | Radio 4460 B25+B66 (At Antenna) | SHARED Radio 4460 B25+B66 (At Antenna) |
| **Sector Equipment** | | | | | | | | |

**Unconnected Equipment:**

**Scope of Work:**

There will be Three antennae per sector.

Remove all TMAs.

Remove all Coaxial Lines.

Remove AIR32 B66A/B2A from Position 1.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 1.

Install(1) Mid-band Quad antenna in Position 3.

Add (1) Radio 4460 B25+B66 for L2100, L1900 (Both carriers), U2100, and GSM to Position 3 at antenna.

Ensure RET control is enabled for all technology layers according to the Design Documents

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

# CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Sector 3 (Existing) view from behind

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Coverage Type** | A - Outdoor Macro | | | | | | | |
| **Antenna** | 1 | | | | 2 | | | |
| **Antenna Model** | Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo) | | | | RFS - APXVAALL24_43-U-NA20 (Octo) | | | |
| **Azimuth** | 240 | | | | 240 | | | |
| **M. Tilt** | 0 | | | | 0 | | | |
| **Height** | 108 | | | | 108 | | | |
| **Ports** | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
| **Active Tech.** | L2100 | L2100 | L1900 G1900 | L1900 G1900 | L700 L600 N600 | L700 L600 N600 | U2100 | |
| **Dark Tech.** | | | | | | | | |
| **Restricted Tech.** | | | | | | | | |
| **Decomm. Tech.** | | | | | | | | |
| **E. Tilt** | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **Cables** | | | | | Coax Jumper **(x2)** | Coax Jumper **(x2)** | 1-5/8" Coax **(x2)** | |
| **TMAs** | | | | | | | Generic Twin Style 1B - AWS (AtAntenna) | |
| **Diplexers / Combiners** | | | | | | | | |
| **Radio** | | | | | Radio 4449 B71+B85 (At Antenna) | SHARED Radio 4449 B71+B85 (At Antenna) | | |
| **Sector Equipment** | | | | | | | | |

**Unconnected Equipment:**

**Scope of Work:**

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

# CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Sector 3 (Proposed) view from behind

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Coverage Type** | A - Outdoor Macro | | | | | | | |
| **Antenna** | 1 | | 2 | | | | 3 | |
| **Antenna Model** | Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO) | | RFS - APXVAALL24_43-U-NA20 (Octo) | | | | Commscope_VV-65A-R1 (Quad) | |
| **Azimuth** | 240 | | 240 | | | | 240 | |
| **M. Tilt** | 0 | | 0 | | | | 0 | |
| **Height** | 108 | | 108 | | | | 108 | |
| **Ports** | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
| **Active Tech.** | L2500 N2500 | L2500 N2500 | L700 L600 N600 | L700 L600 N600 | | | L2100 L1900 G1900 U2100 | L2100 L1900 G1900 U2100 |
| **Dark Tech.** | | | | | | | | |
| **Restricted Tech.** | | | | | | | | |
| **Decomm. Tech.** | | | | | | | | |
| **E. Tilt** | 2 | 2 | 2 | 2 | | | 2 | 2 |
| **Cables** | Fiber Jumper | Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper | | | Coax Jumper **(x2)** Fiber Jumper | Coax Jumper **(x2)** Fiber Jumper |
| **TMAs** | | | | | | | | |
| **Diplexers / Combiners** | | | | | | | | |
| **Radio** | | | Radio 4449 B71+B85 (At Antenna) | SHARED Radio 4449 B71+B85 (At Antenna) | | | Radio 4460 B25+B66 (At Antenna) | SHARED Radio 4460 B25+B66 (At Antenna) |
| **Sector Equipment** | | | | | | | | |

**Unconnected Equipment:**

**Scope of Work:**

There will be Three antennae per sector.

Remove all TMAs.

Remove all Coaxial Lines.

Remove AIR32 B66A/B2A from Position 1.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 1.

Install(1) Mid-band Quad antenna in Position 3.

Add (1) Radio 4460 B25+B66 for L2100, L1900 (Both carriers), U2100, and GSM to Position 3 at antenna.

Ensure RET control is enabled for all technology layers according to the Design Documents

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

| RAN Template: | A&L Template: |
|---|---|
| 67D5A998E Outdoor | 67D5998E_1xAIR+1OP+1QP |

CTHA240A_Anchor_12_draft

**Print Name:** Preliminary (For_Scoping)
**PORs:** Anchor_Phase 3

## Section 7 - Power Systems Equipment

| Existing Power Systems Equipment |
|---|
| ----- This section is intentionally blank. ----- |

| | Proposed Power Systems Equipment |
|---|---|
| Enclosure | 1 |
| Enclosure Type | Enclosure 6160 AC V1 |

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: CTHA240A

CTHA240/Verizon_BB
99 Christian Hill Road
Cromwell, Connecticut 06416

**April 14, 2022**

**EBI Project Number: 6222002439**

| **Site Compliance Summary** | |
|---|---|
| Compliance Status: | **COMPLIANT** |
| Site total MPE% of FCC general population allowable limit: | **54.15%** |

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

April 14, 2022

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

Emissions Analysis for Site: CTHA240A - CTHA240/Verizon_BB

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **99 Christian Hill Road** in **Cromwell, 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 99 Christian Hill Road in Cromwell, 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 UMTS channels (AWS Band - 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

7) 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.

8) 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.

9) 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.

10) 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.

11) 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.

12) 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.

13) 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.

14) 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 APXVAALL24_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 / 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 APXVAALL24_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 / 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 APXVAALL24_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 / 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.

15) The antenna mounting height centerline of the proposed antennas is 108 feet above ground level (AGL).

16) 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.

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

# T-Mobile Site Inventory and Power Data

| Sector: | A | Sector: | B | Sector: | C |
|---|---|---|---|---|---|
| Antenna #: | 1 | Antenna #: | 1 | Antenna #: | 1 |
| Make / Model: | 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: | 22.35 dBd / 17.3 dBd / 22.35 dBd / 17.3 dBd | Gain: | 22.35 dBd / 17.3 dBd / 22.35 dBd / 17.3 dBd | Gain: | 22.35 dBd / 17.3 dBd / 22.35 dBd / 17.3 dBd |
| Height (AGL): | 108 feet | Height (AGL): | 108 feet | Height (AGL): | 108 feet |
| Channel Count: | 4 | Channel Count: | 4 | Channel Count: | 4 |
| Total TX Power (W): | 240.00 Watts | Total TX Power (W): | 240.00 Watts | Total TX Power (W): | 240.00 Watts |
| ERP (W): | 34,144.54 | ERP (W): | 34,144.54 | ERP (W): | 34,144.54 |
| Antenna A1 MPE %: | **11.80%** | Antenna B1 MPE %: | **11.80%** | Antenna C1 MPE %: | **11.80%** |
| Antenna #: | **2** | Antenna #: | **2** | Antenna #: | **2** |
| Make / Model: | RFS APXVAALL24_43-U-NA20 | Make / Model: | RFS APXVAALL24_43-U-NA20 | Make / Model: | RFS APXVAALL24_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 / 13.65 dBd | Gain: | 12.95 dBd / 12.95 dBd / 13.65 dBd | Gain: | 12.95 dBd / 12.95 dBd / 13.65 dBd |
| Height (AGL): | 108 feet | Height (AGL): | 108 feet | Height (AGL): | 108 feet |
| Channel Count: | 5 | Channel Count: | 5 | Channel Count: | 5 |
| Total TX Power (W): | 200.00 Watts | Total TX Power (W): | 200.00 Watts | Total TX Power (W): | 200.00 Watts |
| ERP (W): | 4,151.83 | ERP (W): | 4,151.83 | ERP (W): | 4,151.83 |
| Antenna A2 MPE %: | **3.41%** | Antenna B2 MPE %: | **3.41%** | Antenna C2 MPE %: | **3.41%** |
| 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 / 2100 MHz | Frequency Bands: | 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz |
| Gain: | 15.55 dBd / 15.55 dBd / 16.05 dBd / 16.05 dBd | Gain: | 15.55 dBd / 15.55 dBd / 16.05 dBd / 16.05 dBd | Gain: | 15.55 dBd / 15.55 dBd / 16.05 dBd / 16.05 dBd |
| Height (AGL): | 108 feet | Height (AGL): | 108 feet | Height (AGL): | 108 feet |
| Channel Count: | 10 | Channel Count: | 10 | Channel Count: | 10 |
| Total TX Power (W): | 420.00 Watts | Total TX Power (W): | 420.00 Watts | Total TX Power (W): | 420.00 Watts |
| ERP (W): | 15,863.03 | ERP (W): | 15,863.03 | ERP (W): | 15,863.03 |
| Antenna A3 MPE %: | **5.48%** | Antenna B3 MPE %: | **5.48%** | Antenna C3 MPE %: | **5.48%** |

| Site Composite MPE % | |
|---|---|
| **Carrier** | **MPE %** |
| T-Mobile (Max at Sector A): | 20.69% |
| AT&T | 5.53% |
| Metro PCS | 2.41% |
| Verizon | 25.52% |
| **Site Total MPE % :** | 54.15% |

| T-Mobile MPE % Per Sector | |
|---|---|
| T-Mobile Sector A Total: | 20.69% |
| T-Mobile Sector B Total: | 20.69% |
| T-Mobile Sector C Total: | 20.69% |
| | |
| Site Total MPE % : | 54.15% |

## 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 | 10307.45 | 108.0 | 35.62 | 2500 MHz LTE 1C & 2C Traffic | 1000 | 3.56% |
| T-Mobile 2500 MHz LTE 1C & 2C Broadcast | 1 | 1074.06 | 108.0 | 3.71 | 2500 MHz LTE 1C & 2C Broadcast | 1000 | 0.37% |
| T-Mobile 2500 MHz NR Traffic | 1 | 20614.90 | 108.0 | 71.24 | 2500 MHz NR Traffic | 1000 | 7.12% |
| T-Mobile 2500 MHz NR Broadcast | 1 | 2148.13 | 108.0 | 7.42 | 2500 MHz NR Broadcast | 1000 | 0.74% |
| T-Mobile 600 MHz LTE | 2 | 591.73 | 108.0 | 4.09 | 600 MHz LTE | 400 | 1.02% |
| T-Mobile 600 MHz NR | 1 | 1577.94 | 108.0 | 5.45 | 600 MHz NR | 400 | 1.36% |
| T-Mobile 700 MHz LTE | 2 | 695.22 | 108.0 | 4.80 | 700 MHz LTE | 467 | 1.03% |
| T-Mobile 1900 MHz GSM | 4 | 1076.77 | 108.0 | 14.88 | 1900 MHz GSM | 1000 | 1.49% |
| T-Mobile 1900 MHz LTE | 2 | 2153.53 | 108.0 | 14.88 | 1900 MHz LTE | 1000 | 1.49% |
| T-Mobile 2100 MHz UMTS | 2 | 1208.15 | 108.0 | 8.35 | 2100 MHz UMTS | 1000 | 0.83% |
| T-Mobile 2100 MHz LTE | 2 | 2416.30 | 108.0 | 16.70 | 2100 MHz LTE | 1000 | 1.67% |
| | | | | | | **Total:** | **20.69%** |

• 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: | 20.69% |
| Sector B: | 20.69% |
| Sector C: | 20.69% |
| T-Mobile Maximum MPE % (Sector A): | 20.69% |
| | |
| Site Total: | 54.15% |
| | |
| Site Compliance Status: | **COMPLIANT** |

The anticipated composite MPE value for this site assuming all carriers present is **54.15%** 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.