MJ UMALI, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (978) 568 -7906
MUmali@centerlinecommunications.com

July 28, 2021

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

**RE: Notice of Exempt Modification // Site: Bilkays Express CT (ATC: 302467)**
**90 North Plains Industrial Road, Wallingford, CT 06492**
**N 41.4807 // W 2.8177**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 138-foot mount on the existing 187-foot monopole tower, located at 90 North Plains Industrial Road, Wallingford, CT. The tower is owned by American Tower. The property is owned by R L R Investments LLC. The tower was originally approved by the Council in 2001. Verizon Wireless now intends to install 3 new antennas with integrated remote radio heads (RRHs) for its 5G (3700 MHz) upgrade. Additionally, Verizon Wireless will retain all antennas, RRHs, diplexers, and 2 OVPs; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to William Dickinson, JR, Mayor for the Town of Wallingford, its Town Planner, Kevin Pagini, American Tower, the tower owner, and to the ground owner, R L R Investments LLC.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated June 23, 2021, and a structural analysis dated July 6, 2021 by A.T. Engineering Service, PLLC, a structural mount analysis by Maser Consulting Connecticut dated June 9, 2021 and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

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 new 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, as shown in the attached structural analyses by A.T. Engineering Service, PLLC, dated July 6, 2021 and Maser Consulting Connecticut, dated June 9 2021, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings, signed and stamped dated June 23 2021.

For the foregoing reasons, Verizon Wireless 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,

*MJ Umali*

_____

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West Bridgewater, MA 02379
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MUmali@centerlinecommunications.com

Attachments

cc: William Dickinson, JR - as Mayor for the Town of Wallingford
Kevin Pagini - as P&Z official
American Tower Corporation - as tower owner
R L R Investments LLC - as property owner

**UPS CampusShip: View/Print Label**

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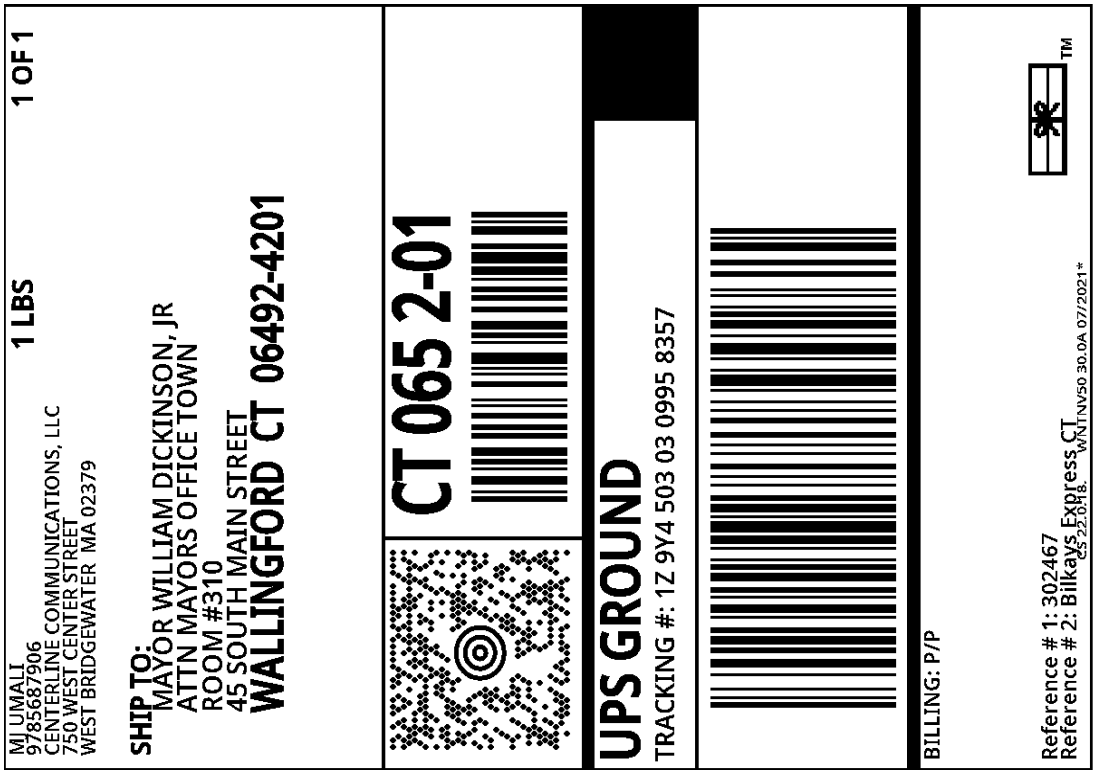

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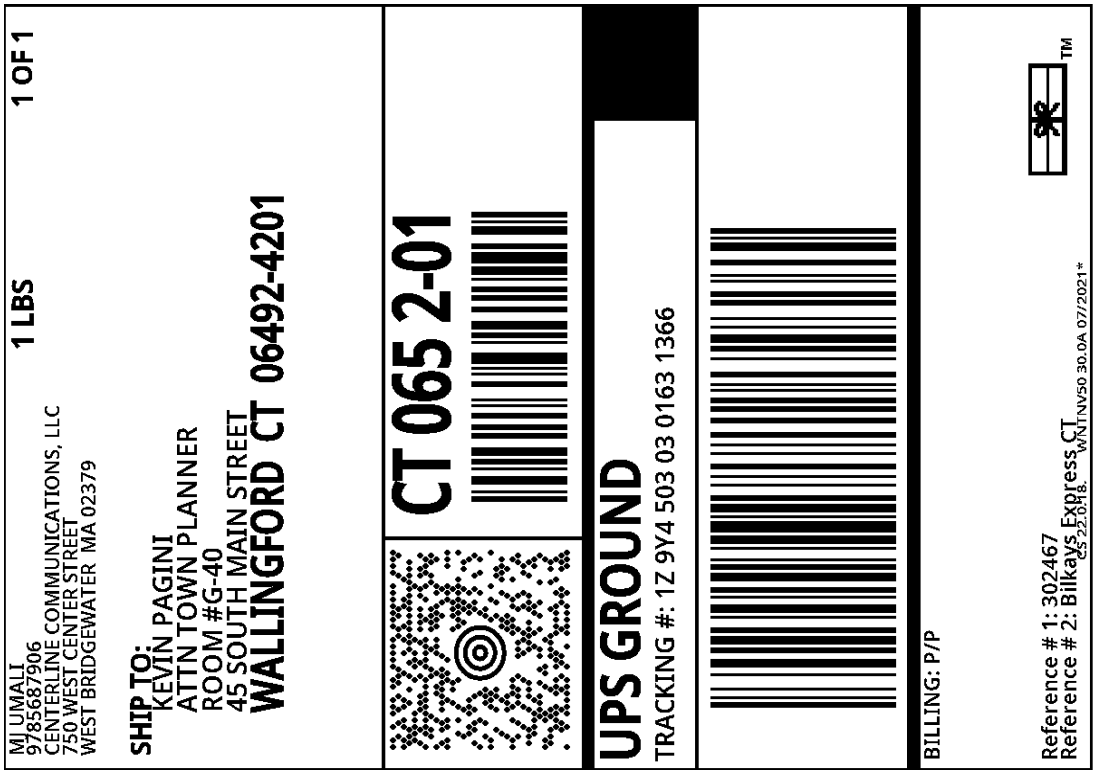

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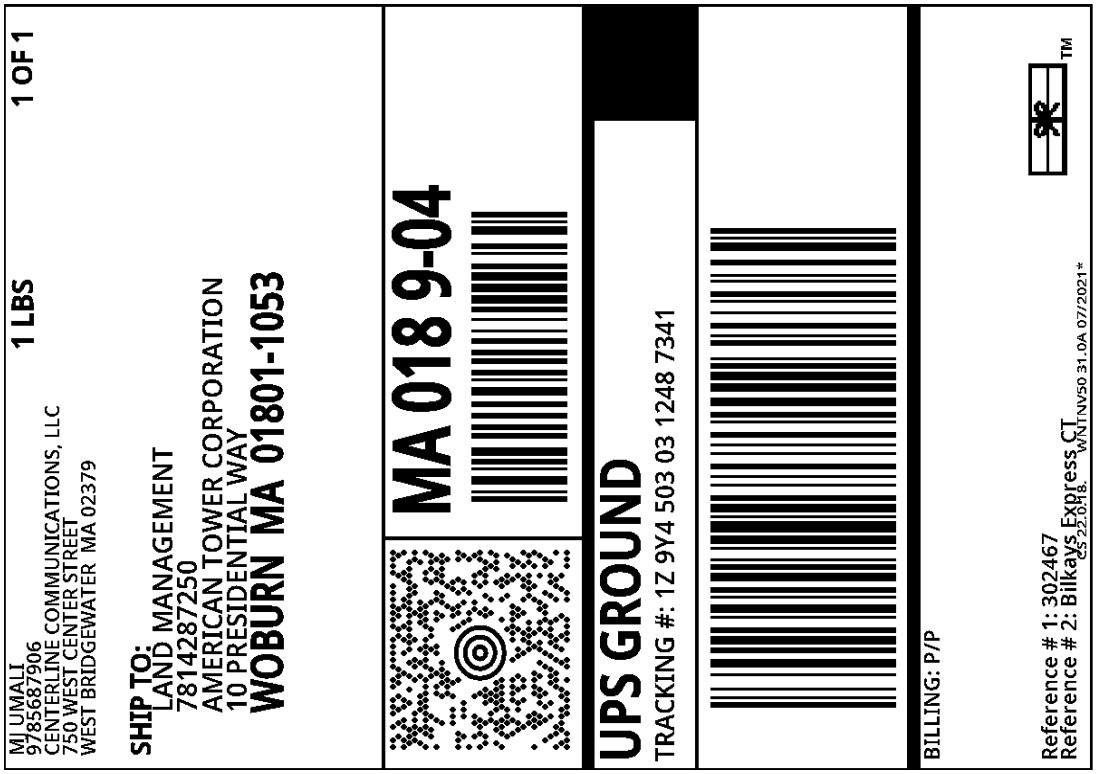

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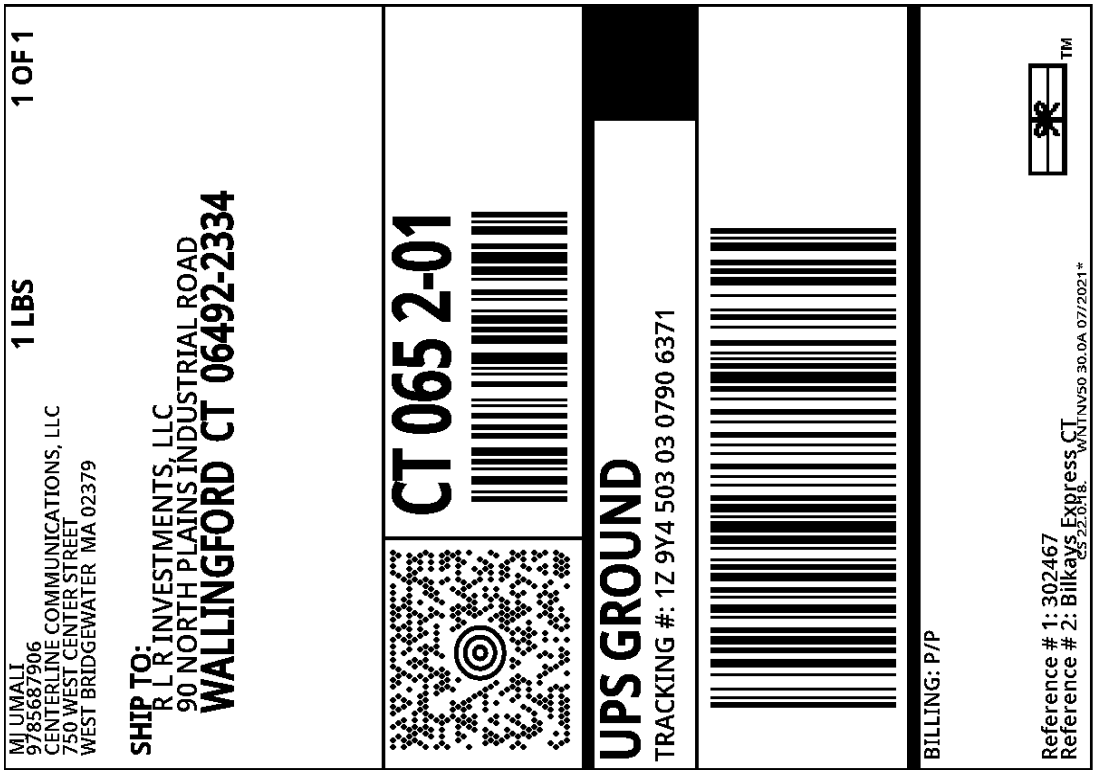

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# Structural Analysis Report

| | | |
|---|---|---|
| **Structure** | : | **178.5 ft Monopole** |
| **ATC Site Name** | : | **Bilkays Express, CT** |
| **ATC Asset Number** | : | **302467** |
| **Engineering Number** | : | **13668984_C3_04** |
| **Proposed Carrier** | : | **VERIZON WIRELESS** |
| **Carrier Site Name** | : | **WALLINGFORD III CT** |
| **Carrier Site Number** | : | **469297** |
| **Site Location** | : | **90 North Plains Industrial Rd.<br>Wallingford, CT 06492-2334<br>41.480800,-72.817700** |
| **County** | : | **New Haven** |
| **Date** | : | **July 6, 2021** |
| **Max Usage** | : | **61%** |
| **Result** | : | **Pass** |


Prepared By:
Kyle MacPetrie
Structural Engineer I

Reviewed By:

**COA: PEC.0001553**

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**Table of Contents**

## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 178.5 ft monopole to reflect the change in loading by VERIZON WIRELESS.

## Supporting Documents

| | |
|---|---|
| **Tower Drawings** | FWT Job #18357, dated March 19, 1999 |
| **Foundation Drawing** | FWT Job #18357, dated March 19, 1999 |
| **Geotechnical Report** | Tectonic Work Order #1170.C947C, dated March 11, 1999 |

## Analysis

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

| | |
|---|---|
| **Basic Wind Speed:** | 119 mph (3-Second Gust) |
| **Basic Wind Speed w/ Ice:** | 50 mph (3-Second Gust) w/ 1" radial ice concurrent |
| **Code:** | ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code |
| **Exposure Category:** | B |
| **Risk Category:** | II |
| **Topographic Factor Procedure:** | Method 1 |
| **Topographic Category:** | 1 |
| **Crest Height (H):** | 0 ft |
| **Spectral Response:** | Ss = 0.20, $S_1$ = 0.05 |
| **Site Class:** | D - Stiff Soil |

## Conclusion

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

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

## Existing and Reserved Equipment

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 182.0 | 12 | Decibel DB844H90E-XY | Triangular Low Profile Platform | (12) 1 5/8" Coax | SPRINT NEXTEL |
| 171.0 | 1 | DragonWave A-ANT-18G-2-C | Collar | (2) 1/2" Coax<br>(6) 5/16" (0.31"-7.9mm) Coax | CLEARWIRE CORPORATION |
| | 1 | DragonWave A-ANT-11G-2-C | | | |
| | 3 | Argus LLPX310R | | | |
| | 3 | NextNet BTS-2500 | | | |
| | 2 | DragonWave Horizon Compact | | | |
| 165.0 | 1 | Generic 18" x 12" Junction Box | | (1) 2" conduit | |
| 160.0 | 3 | Ericsson RRUS 32 B2 | Triangular Platform with Handrails | (2) 0.39" (10mm) Fiber Trunk<br>(6) 0.78" (19.7mm) 8 AWG 6<br>(12) 1 5/8" Coax<br>(4) 2" conduit<br>(1) 3/8" (0.38"-9.5mm) RET Control Cable | AT&T MOBILITY |
| | 3 | Ericsson RRUS 11 (Band 7) | | | |
| | 3 | Ericsson RRUS-32 (77 lbs) | | | |
| | 1 | Raycap DC6-48-60-18-8C-EV | | | |
| | 3 | Powerwave Allgon 7770.00 | | | |
| | 3 | Quintel QS66512-2 | | | |
| | 3 | CCI OPA-65R-LCUU-H6 | | | |
| | 3 | Ericsson RRUS 4478 B5 (56.1 lbs) | | | |
| | 3 | Ericsson RRUS 4478 B14 | | | |
| | 3 | Ericsson RRUS 4426 B66 | | | |
| | 3 | Kathrein Scala 80010965 | | | |
| | 6 | Powerwave Allgon LGP21401 | | | |
| | 9 | Kaelus DBCT108F1V92-1 | | | |
| | 6 | Powerwave Allgon 7020 | | | |
| | 2 | Raycap DC6-48-60-18-8F (23.5" Height) | | | |
| 148.0 | 3 | Ericsson KRY 112 144/1 | T-Arm with Working Platforms and Handrail Reinforcements | (4) 1 1/4" Hybriflex Cable<br>(6) 1 5/8" Coax | T-MOBILE |
| | 3 | Ericsson Radio 4449 B71 B85A | | | |
| | 3 | RFS APXVAARR24_43-U-NA20 | | | |
| | 3 | Ericsson AIR32 B66Aa/B2a | | | |
| | 3 | Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs) | | | |
| | 3 | Ericsson Air6449 B41 | | | |
| | 3 | Ericsson RRUS 4415 B25 | | | |
| 138.0 | 3 | Commscope CBC78T-DS-43-2X | Triangular Platform with Handrails | (12) 1 5/8" Coax<br>(2) 1 5/8" Hybriflex | VERIZON WIRELESS |
| | 3 | Samsung Outdoor CBRS 20W RRH | | | |
| | 3 | Samsung Outdoor CBRS 20W RRH –Clip-on Antenna | | | |
| | 3 | Samsung B5/B13 RRH-BR04C | | | |
| | 6 | Commscope JAHH-65B-R3B | | | |
| | 2 | RFS DB-T1-6Z-8AB-0Z | | | |
| | 3 | Samsung B2/B66A RRH-BR049 | | | |
| 128.0 | 1 | Nortel NTGB01MA | Flush | (6) 1 5/8" Coax<br>(1) 7/8" Coax | METRO PCS INC |
| | 3 | RFS APXV18-206517S-C | | | |
| 122.0 | 3 | Alcatel-Lucent 800 MHz RRH | Triangular Low Profile Platform | (4) 1 1/4" Hybriflex Cable | SPRINT NEXTEL |
| | 3 | Alcatel-Lucent 1900 MHz 4X45 RRH | | | |
| | 3 | Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield | | | |
| 118.0 | 3 | RFS APXVSPP18-C-A20 | | | |
| | 3 | RFS APXV9TM14-ALU-I20* | | | |
| 108.0 | 1 | Generic Dish Reserve | Sector Frame | - | ATC RESERVED |

## Existing and Reserved Equipment (Cont.)

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 20.0 | 1 | PCTEL GPS-TMG-HR-26N | Stand-Off | (1) 1/2" Coax | SPRINT NEXTEL |

## Equipment to be Removed

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 138.0 | 3 | Samsung B5/B13 RRH-BR04C | - | - | VERIZON WIRELESS |
| | 3 | Amphenol Antel BXA-80063-6BF-EDIN-X | | | |
| | 3 | Samsung B2/B66A RRH-BR049 | | | |

## Proposed Equipment

| Elev.[1] (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|---|---|---|---|---|---|
| 138.0 | 3 | Samsung MT6407-77A | Triangular Platform with Handrails | - | VERIZON WIRELESS |
| | 3 | Andrew SBNHH-1D65B | | | |

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

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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:

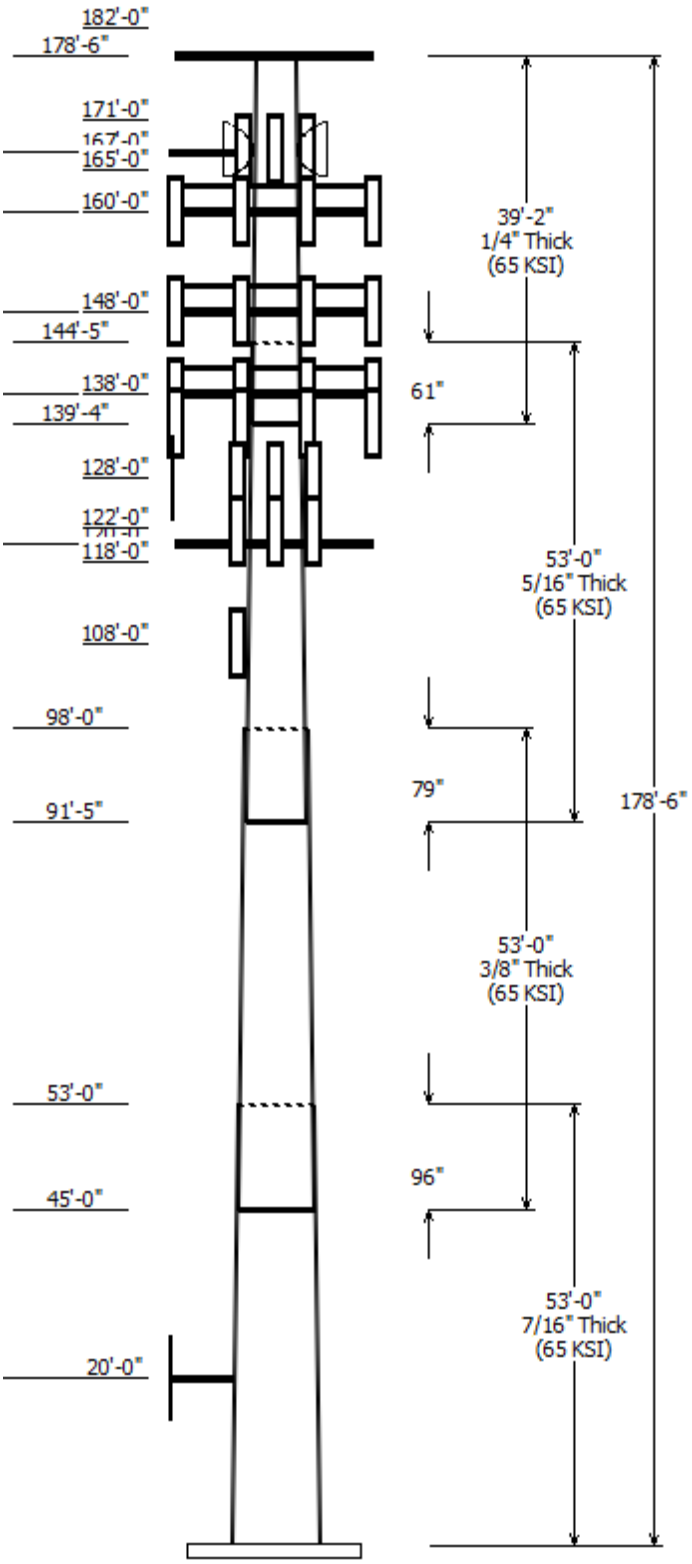
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.




## Job Information

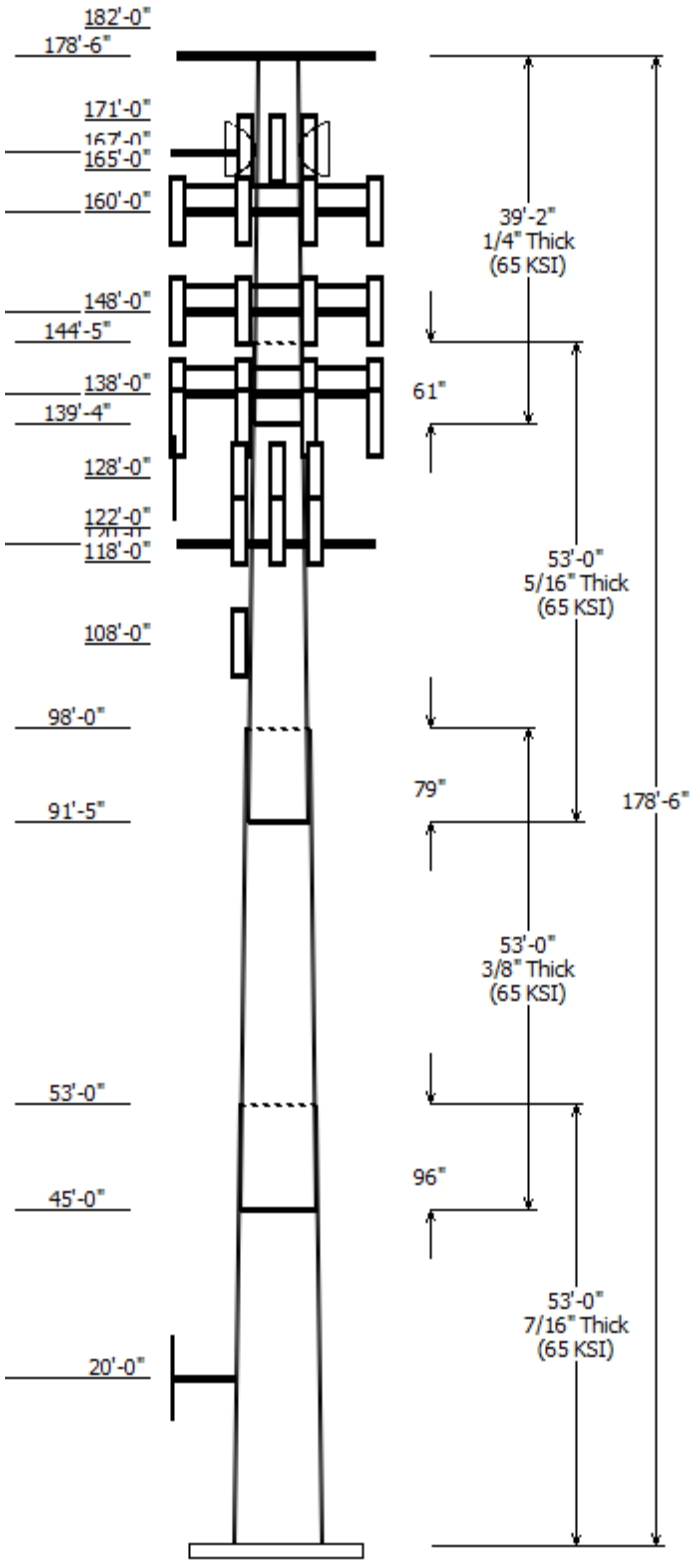
| | | | |
|---|---|---|---|
| Client : | VERIZON WIRELESS | | |
| Pole : | 302467 | Code: | ANSI/TIA-222-H |
| Location : | Bilkays Express, CT | | |
| Description : | 178.5' FWT Monopole | Risk Category : | II |
| Shape : | 18 Sides | Exposure : | B |
| Height : | 178.50 (ft) | Topo Method : | Method 1 |
| Base Elev (ft): | 0.00 | Topographic Category : | 1 |
| Taper: | 0.251401 (in/ft) | | |

## Sections Properties

| Shaft Section | Length (ft) | Diameter (in) Accross Flats Top | Bottom | Thick (in) | Joint Type | Overlap Length (in) | Shape | Steel Grade (ksi) |
|---|---|---|---|---|---|---|---|---|
| 1 | 53.000 | 58.67 | 72.00 | 0.438 | | 0.000 | 18 Sides | 65 |
| 2 | 53.000 | 48.11 | 61.43 | 0.375 | Slip Joint | 96.000 | 18 Sides | 65 |
| 3 | 53.000 | 37.06 | 50.39 | 0.313 | Slip Joint | 79.000 | 18 Sides | 65 |
| 4 | 39.167 | 29.00 | 38.84 | 0.250 | Slip Joint | 61.000 | 18 Sides | 65 |

## Discrete Appurtenance

| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
|---|---|---|---|
| 182.000 | 182.000 | 12 | Decibel DB844H90E-XY |
| 178.500 | 178.500 | 1 | Flat Low Profile Platform |
| 171.000 | 168.000 | 1 | DragonWave A-ANT-18G-2-C |
| 171.000 | 168.000 | 1 | DragonWave A-ANT-11G-2-C |
| 171.000 | 168.000 | 3 | Argus LLPX310R |
| 171.000 | 168.000 | 3 | NextNet BTS-2500 |
| 171.000 | 168.000 | 2 | DragonWave Horizon Compact |
| 167.000 | 167.000 | 1 | Side Arms |
| 165.000 | 165.000 | 1 | Generic 18" x 12" Junction Box |
| 160.000 | 160.000 | 1 | Generic Flat Platform with Han |
| 160.000 | 160.000 | 3 | Kathrein Scala 80010965 |
| 160.000 | 160.000 | 3 | CCI OPA-65R-LCUU-H6 |
| 160.000 | 160.000 | 3 | Quintel QS66512-2 |
| 160.000 | 160.000 | 3 | Powerwave Allgon 7770.00 |
| 160.000 | 160.000 | 1 | Raycap DC6-48-60-18-8C-EV |
| 160.000 | 160.000 | 3 | Ericsson RRUS-32 (77 lbs) |
| 160.000 | 160.000 | 3 | Ericsson RRUS 11 (Band 7) |
| 160.000 | 158.000 | 3 | Ericsson RRUS 32 B2 |
| 160.000 | 160.000 | 3 | Ericsson RRUS 4478 B5 (56.1 lb |
| 160.000 | 160.000 | 3 | Ericsson RRUS 4478 B14 |
| 160.000 | 160.000 | 3 | Ericsson RRUS 4426 B66 |
| 160.000 | 160.000 | 2 | Raycap DC6-48-60-18-8F (23.5" |
| 160.000 | 160.000 | 6 | Powerwave Allgon LGP21401 |
| 160.000 | 160.000 | 6 | Powerwave Allgon 7020 |
| 160.000 | 160.000 | 9 | Kaelus DBCT108F1V92-1 |
| 148.000 | 148.000 | 1 | Generic Flat Platform with Han |
| 148.000 | 148.000 | 3 | RFS APXVAARR24_43-U-NA20 |
| 148.000 | 148.000 | 3 | Ericsson AIR 21, 1.3M, B2A B4P |
| 148.000 | 148.000 | 3 | Ericsson Air6449 B41 |
| 148.000 | 148.000 | 3 | Ericsson RRUS 4415 B25 |
| 148.000 | 148.000 | 3 | Ericsson AIR32 B66Aa/B2a |
| 148.000 | 148.000 | 3 | Ericsson Radio 4449 B71 B85A |
| 148.000 | 152.000 | 3 | Ericsson KRY 112 144/1 |
| 138.000 | 138.000 | 1 | Generic Flat Platform with Han |
| 138.000 | 136.000 | 6 | Commscope JAHH-65B-R3B |
| 138.000 | 138.000 | 3 | Andrew SBNHH-1D65B |
| 138.000 | 140.000 | 2 | RFS DB-T1-6Z-8AB-0Z |
| 138.000 | 138.000 | 3 | Samsung MT6407-77A |
| 138.000 | 138.000 | 3 | Samsung B2/B66A RRH-BR049 |
| 138.000 | 138.000 | 3 | Samsung B5/B13 RRH-BR04C |
| 138.000 | 138.000 | 3 | Samsung Outdoor CBRS 20W |
| 138.000 | 138.000 | 3 | Samsung Outdoor CBRS 20W |
| 138.000 | 138.000 | 3 | Commscope CBC78T-DS-43-2X |
| 128.000 | 128.000 | 3 | RFS APXV18-206517S-C |




| | | | |
|---|---|---|---|
| 128.000 | 128.000 | 1 | Nortel NTGB01MA |
| 122.000 | 122.000 | 3 | Alcatel-Lucent TD-RRH8x20-25 |
| 122.000 | 122.000 | 3 | Alcatel-Lucent 1900 MHz 4X45 |
| 122.000 | 122.000 | 3 | Alcatel-Lucent 800 MHz RRH |
| 120.000 | 120.000 | 1 | Round Low Profile Platform |
| 118.000 | 122.000 | 3 | RFS APXVSPP18-C-A20 |
| 118.000 | 122.000 | 3 | RFS APXV9TM14-ALU-I20* |
| 108.000 | 108.000 | 1 | Generic Dish Reserve |
| 20.000 | 20.000 | 1 | Standoff |
| 20.000 | 20.000 | 1 | PCTEL GPS-TMG-HR-26N |

## Linear Appurtenance

| Elev (ft) From | To | Description | Exposed To Wind |
|---|---|---|---|
| 0.000 | 20.000 | 1/2" Coax | Yes |
| 0.000 | 116.0 | 1 1/4" Hybriflex | Yes |
| 0.000 | 118.0 | 1 1/4" Hybriflex | Yes |
| 0.000 | 128.0 | 1 5/8" Coax | Yes |
| 0.000 | 128.0 | 7/8" Coax | No |
| 0.000 | 138.0 | 1 5/8" Coax | No |
| 0.000 | 138.0 | 1 5/8" Hybriflex | Yes |
| 0.000 | 148.0 | 1 1/4" Hybriflex | Yes |
| 0.000 | 148.0 | 1 5/8" Coax | Yes |
| 0.000 | 160.0 | 0.39" (10mm) | No |
| 0.000 | 160.0 | 0.78" (19.7mm) 8 | No |
| 0.000 | 160.0 | 1 5/8" Coax | No |
| 0.000 | 160.0 | 2" conduit | No |
| 0.000 | 160.0 | 2" conduit | No |
| 0.000 | 160.0 | 3/8" (0.38"- | No |
| 0.000 | 165.0 | 2" conduit | Yes |
| 0.000 | 171.0 | 1/2" Coax | Yes |
| 0.000 | 171.0 | 5/16" (0.31"- | No |
| 0.000 | 182.0 | 1 5/8" Coax | No |

## Load Cases

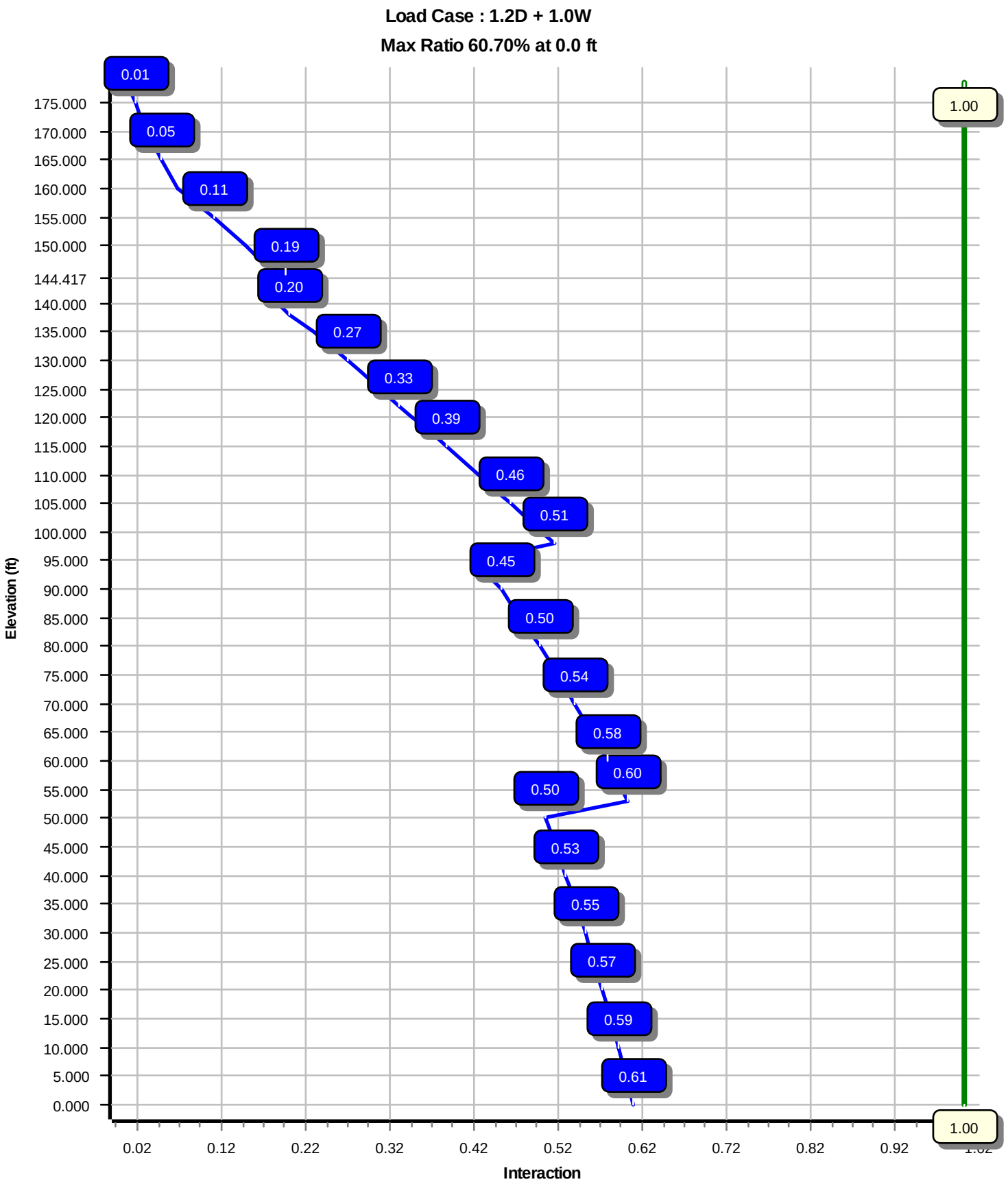
| | |
|---|---|
| 1.2D + 1.0W | 119 mph with No Ice |
| 0.9D + 1.0W | 119 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 50 mph with 1.00 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | Serviceability 60 mph |

## Reactions

| Load Case | Moment (kip-ft) | Shear (kip) | Axial (kip) |
|---|---|---|---|
| 1.2D + 1.0W | 5422.36 | 44.21 | 84.30 |
| 0.9D + 1.0W | 5367.33 | 44.19 | 63.21 |
| 1.2D + 1.0Di + 1.0Wi | 1360.90 | 11.21 | 118.92 |
| 1.2D + 1.0Ev + 1.0Eh | 295.10 | 2.11 | 84.88 |
| 0.9D - 1.0Ev + 1.0Eh | 291.24 | 2.11 | 58.44 |
| 1.0D + 1.0W | 1225.62 | 10.05 | 70.28 |

## Dish Deflections

| Load Case | Attach Elev (ft) | Deflection (in) | Rotation (deg) |
|---|---|---|---|
| 1.0D + 1.0W | 171.00 | 17.233 | 0.852 |
| 1.0D + 1.0W | 171.00 | 17.233 | 0.852 |


Load Case : 1.2D + 1.0W
Max Ratio 60.70% at 0.0 ft
0.01
0.05
0.11
0.19
0.20
0.27
0.33
0.39
0.46
0.51
0.45
0.50
0.54
0.58
0.60
0.50
0.53
0.55
0.57
0.59
0.61
1.00
1.00
175.000
170.000
165.000
160.000
155.000
150.000
144.417
140.000
135.000
130.000
125.000
120.000
115.000
110.000
105.000
100.000
95.000
90.000
85.000
80.000
75.000
70.000
65.000
60.000
55.000
50.000
45.000
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0.000
Elevation (ft)
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Site Number: 302467 | Code: ANSI/TIA-222-H | 

Site Name: Bilkays Express, CT | Engineering Number:13668984_C3_04 | 7/6/2021 3:28:16 PM

Customer: VERIZON WIRELESS

## Analysis Parameters

| | | | |
|---|---|---|---|
| Location : | New Haven County, CT | Height (ft) : | 178.5 |
| Code : | ANSI/TIA-222-H | Base Diameter (in) : | 72.00 |
| Shape : | 18 Sides | Top Diameter (in) : | 29.00 |
| Pole Type : | Taper | Taper (in/ft) : | 0.251 |
| Pole Manfacturer : | FWT | Rotation (deg) : | 0.00 |
| Kd (non-service) : | 0.95 | Ke : | 1.00 |

## Ice & Wind Parameters

| | | | |
|---|---|---|---|
| Exposure Category: | B | Design Wind Speed Without Ice: | 119 mph |
| Risk Category: | II | Design Wind Speed With Ice: | 50 mph |
| Topographic Factor Procedure: | Method 1 | Operational Wind Speed: | 60 mph |
| Topographic Category: | 1 | Design Ice Thickness: | 1.00 in |
| Crest Height: | 0 ft | HMSL: | 57.00 ft |

## Seismic Parameters

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | Equivalent Lateral Force Method | | | | |
| Site Class: | D - Stiff Soil | | | | |
| Period Based on Rayleigh Method (sec): | 2.36 | | | | |
| $T_L$ (sec): | 6 | p: | 1 | $C_s$: | 0.030 |
| $S_s$: | 0.205 | $S_1$: | 0.055 | $C_s$ Max: | 0.030 |
| $F_a$: | 1.600 | $F_v$: | 2.400 | $C_s$ Min: | 0.030 |
| $S_{ds}$: | 0.219 | $S_{d1}$: | 0.088 | | |

## Load Cases

| | |
|---|---|
| 1.2D + 1.0W | 119 mph with No Ice |
| 0.9D + 1.0W | 119 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 50 mph with 1.00 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | Serviceability 60 mph |

## Shaft Section Properties

| Sect Info | Length (ft) | Thick (in) | Fy (ksi) | Slip Joint Type | Slip Joint Len (in) | Weight (lb) | Bottom Dia (in) | Bottom Elev (ft) | Bottom Area (in²) | Bottom Ix (in⁴) | Bottom W/t Ratio | Bottom D/t Ratio | Top Dia (in) | Top Elev (ft) | Top Area (in²) | Top Ix (in⁴) | Top W/t Ratio | Top D/t Ratio | Taper (in/ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-18 | 53.000 | 0.4375 | 65 | | 0.00 | 16,253 | 72.00 | 0.00 | 99.37 | 64295.3 | 27.26 | 164.57 | 58.67 | 53.00 | 80.87 | 34653.6 | 21.89 | 134.12 | 0.251401 |
| 2-18 | 53.000 | 0.3750 | 65 | Slip | 96.00 | 11,677 | 61.43 | 45.00 | 72.68 | 34236.4 | 27.12 | 163.83 | 48.11 | 98.00 | 56.82 | 16359.2 | 20.86 | 128.30 | 0.251401 |
| 3-18 | 53.000 | 0.3125 | 65 | Slip | 79.00 | 7,766 | 50.39 | 91.42 | 49.67 | 15739.6 | 26.67 | 161.26 | 37.06 | 144.42 | 36.46 | 6222.7 | 19.15 | 118.62 | 0.251401 |
| 4-18 | 39.167 | 0.2500 | 65 | Slip | 61.00 | 3,561 | 38.84 | 139.33 | 30.63 | 5764.1 | 25.64 | 155.39 | 29.00 | 178.50 | 22.81 | 2382.3 | 18.69 | 116.00 | 0.251401 |
| | | | | Shaft Weight | | 39,257 | | | | | | | | | | | | | |

## Discrete Appurtenance Properties

| Attach Elev (ft) | Description | Qty | Ka | Vert Ecc (ft) | No Ice Weight (lb) | No Ice EPAa (sf) | No Ice Orientation Factor | Ice Weight (lb) | Ice EPAa (sf) | Ice Orientation Factor |
|---|---|---|---|---|---|---|---|---|---|---|
| 182.00 | Decibel DB844H90E-XY | 12 | 0.80 | 0.000 | 14.00 | 3.615 | 0.73 | 83.10 | 3.626 | 0.73 |
| 178.50 | Flat Low Profile Platform | 1 | 1.00 | 0.000 | 1,500.00 | 26.100 | 1.00 | 1,939.97 | 39.065 | 1.00 |
| 171.00 | DragonWave Horizon Compact | 2 | 1.00 | -3.000 | 10.60 | 0.721 | 0.50 | 25.82 | 1.106 | 0.50 |
| 171.00 | NextNet BTS-2500 | 3 | 1.00 | -3.000 | 35.00 | 1.817 | 0.50 | 66.38 | 2.437 | 0.50 |
| 171.00 | Argus LLPX310R | 3 | 1.00 | -3.000 | 28.60 | 4.292 | 0.63 | 89.58 | 5.411 | 0.63 |
| 171.00 | DragonWave A-ANT-11G-2-C | 1 | 1.00 | -3.000 | 27.00 | 4.688 | 1.00 | 92.94 | 5.550 | 1.00 |
| 171.00 | DragonWave A-ANT-18G-2-C | 1 | 1.00 | -3.000 | 27.10 | 4.688 | 1.00 | 93.13 | 5.550 | 1.00 |
| 167.00 | Side Arms | 1 | 1.00 | 0.000 | 560.00 | 8.500 | 1.00 | 875.93 | 13.295 | 1.00 |
| 165.00 | Generic 18" x 12" Junction Box | 1 | 1.00 | 0.000 | 15.00 | 1.800 | 1.00 | 52.63 | 2.406 | 1.00 |
| 160.00 | Powerwave Allgon 7020 | 6 | 0.75 | 0.000 | 2.20 | 0.339 | 0.50 | 9.05 | 0.614 | 0.50 |
| 160.00 | Kaelus DBCT108F1V92-1 | 9 | 0.75 | 0.000 | 13.90 | 0.633 | 0.50 | 30.79 | 0.999 | 0.50 |
| 160.00 | Powerwave Allgon LGP21401 | 6 | 0.75 | 0.000 | 14.10 | 1.104 | 0.50 | 30.85 | 1.583 | 0.50 |
| 160.00 | Raycap DC6-48-60-18-8F (23.5" | 2 | 0.75 | 0.000 | 20.00 | 1.260 | 1.00 | 55.35 | 1.702 | 1.00 |
| 160.00 | Ericsson RRUS 4426 B66 | 3 | 0.75 | 0.000 | 48.40 | 1.650 | 0.50 | 78.37 | 2.220 | 0.50 |
| 160.00 | Ericsson RRUS 4478 B14 | 3 | 0.75 | 0.000 | 59.40 | 2.021 | 0.50 | 100.60 | 2.654 | 0.50 |
| 160.00 | Ericsson RRUS 4478 B5 (56.1 lbs) | 3 | 0.75 | 0.000 | 56.10 | 2.036 | 0.50 | 96.35 | 2.671 | 0.50 |
| 160.00 | Ericsson RRUS 32 B2 | 3 | 0.75 | -2.000 | 53.00 | 2.743 | 0.50 | 102.37 | 3.528 | 0.50 |
| 160.00 | Ericsson RRUS 11 (Band 7) | 3 | 0.75 | 0.000 | 50.70 | 2.791 | 0.50 | 99.31 | 3.527 | 0.50 |
| 160.00 | Ericsson RRUS-32 (77 lbs) | 3 | 0.75 | 0.000 | 77.00 | 3.314 | 0.50 | 142.29 | 4.176 | 0.50 |
| 160.00 | Raycap DC6-48-60-18-8C-EV | 1 | 0.75 | 0.000 | 16.00 | 4.788 | 1.00 | 102.69 | 5.775 | 1.00 |
| 160.00 | Powerwave Allgon 7770.00 | 3 | 0.75 | 0.000 | 35.00 | 5.508 | 0.65 | 118.85 | 6.199 | 0.65 |
| 160.00 | Quintel QS66512-2 | 3 | 0.75 | 0.000 | 111.00 | 8.133 | 0.74 | 244.77 | 10.004 | 0.74 |
| 160.00 | CCI OPA-65R-LCUU-H6 | 3 | 0.75 | 0.000 | 73.00 | 9.658 | 0.66 | 209.63 | 11.519 | 0.66 |
| 160.00 | Kathrein Scala 80010965 | 3 | 0.75 | 0.000 | 97.60 | 13.814 | 0.62 | 276.57 | 15.862 | 0.62 |
| 160.00 | Generic Flat Platform with | 1 | 1.00 | 0.000 | 2,500.00 | 42.400 | 1.00 | 3,692.55 | 56.479 | 1.00 |
| 148.00 | Ericsson KRY 112 144/1 | 3 | 0.75 | 4.000 | 11.00 | 0.351 | 0.50 | 18.17 | 0.622 | 0.50 |
| 148.00 | Ericsson Radio 4449 B71 B85A | 3 | 0.75 | 0.000 | 75.00 | 1.650 | 0.50 | 115.08 | 2.216 | 0.50 |
| 148.00 | Ericsson RRUS 4415 B25 | 3 | 0.75 | 0.000 | 46.00 | 1.842 | 0.50 | 78.68 | 2.440 | 0.50 |
| 148.00 | Ericsson Air6449 B41 | 3 | 0.75 | 0.000 | 104.00 | 5.682 | 0.63 | 194.83 | 6.740 | 0.63 |
| 148.00 | Ericsson AIR 21, 1.3M, B2A B4P | 3 | 0.75 | 0.000 | 91.50 | 6.037 | 0.70 | 188.53 | 7.466 | 0.70 |
| 148.00 | Ericsson AIR32 B66Aa/B2a | 3 | 0.75 | 0.000 | 132.20 | 6.510 | 0.71 | 238.57 | 7.970 | 0.71 |
| 148.00 | RFS APXVAARR24_43-U-NA20 | 3 | 0.75 | 0.000 | 127.90 | 20.243 | 0.63 | 389.54 | 22.715 | 0.63 |
| 148.00 | Generic Flat Platform with | 1 | 1.00 | 0.000 | 2,500.00 | 42.400 | 1.00 | 3,683.95 | 56.377 | 1.00 |
| 138.00 | Commscope CBC78T-DS-43-2X | 3 | 0.75 | 0.000 | 20.70 | 0.552 | 0.50 | 35.32 | 0.888 | 0.50 |
| 138.00 | Samsung Outdoor CBRS 20W | 3 | 0.75 | 0.000 | 18.60 | 0.857 | 0.50 | 34.48 | 1.272 | 0.50 |
| 138.00 | Samsung Outdoor CBRS 20W | 3 | 0.75 | 0.000 | 4.40 | 0.892 | 0.50 | 16.31 | 1.315 | 0.50 |
| 138.00 | Samsung B5/B13 RRH-BR04C | 3 | 0.75 | 0.000 | 70.30 | 1.875 | 0.50 | 108.15 | 2.472 | 0.50 |
| 138.00 | Samsung B2/B66A RRH-BR049 | 3 | 0.75 | 0.000 | 84.40 | 1.875 | 0.50 | 126.62 | 2.472 | 0.50 |
| 138.00 | Samsung MT6407-77A | 3 | 0.75 | 0.000 | 81.60 | 4.709 | 0.61 | 149.05 | 5.714 | 0.61 |
| 138.00 | RFS DB-T1-6Z-8AB-0Z | 2 | 0.75 | 2.000 | 44.00 | 4.800 | 0.72 | 127.29 | 5.740 | 0.72 |
| 138.00 | Andrew SBNHH-1D65B | 3 | 0.75 | 0.000 | 50.70 | 8.173 | 0.69 | 166.82 | 10.046 | 0.69 |
| 138.00 | Commscope JAHH-65B-R3B | 6 | 0.75 | -2.000 | 60.60 | 9.113 | 0.69 | 194.48 | 10.949 | 0.69 |
| 138.00 | Generic Flat Platform with | 1 | 1.00 | 0.000 | 2,500.00 | 42.400 | 1.00 | 3,675.61 | 56.279 | 1.00 |
| 128.00 | Nortel NTGB01MA | 1 | 1.00 | 0.000 | 1.00 | 0.090 | 1.00 | 4.55 | 0.206 | 1.00 |
| 128.00 | RFS APXV18-206517S-C | 3 | 1.00 | 0.000 | 26.40 | 5.160 | 0.68 | 87.25 | 6.713 | 0.68 |
| 122.00 | Alcatel-Lucent 800 MHz RRH | 3 | 0.80 | 0.000 | 53.00 | 2.134 | 0.50 | 101.26 | 2.774 | 0.50 |
| 122.00 | Alcatel-Lucent 1900 MHz 4X45 | 3 | 0.80 | 0.000 | 60.00 | 2.322 | 0.50 | 112.69 | 3.029 | 0.50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 122.00 | Alcatel-Lucent TD-RRH8x20-25 | 3 | 0.80 | 0.000 | 70.00 | 4.046 | 0.50 | 131.79 | 4.914 | 0.50 |
| 120.00 | Round Low Profile Platform | 1 | 1.00 | 0.000 | 1,500.00 | 21.700 | 1.00 | 1,922.91 | 34.232 | 1.00 |
| 118.00 | RFS APXV9TM14-ALU-I20* | 3 | 0.80 | 4.000 | 55.10 | 6.342 | 0.66 | 144.79 | 7.761 | 0.66 |
| 118.00 | RFS APXVSPP18-C-A20 | 3 | 0.80 | 4.000 | 57.00 | 8.024 | 0.69 | 169.36 | 9.841 | 0.69 |
| 108.00 | Generic Dish Reserve | 1 | 0.80 | 0.000 | 1,835.00 | 70.000 | 1.00 | 7,364.10 | 180.182 | 1.00 |
| 20.00 | PCTEL GPS-TMG-HR-26N | 1 | 1.00 | 0.000 | 0.60 | 0.090 | 1.00 | 3.21 | 0.187 | 1.00 |
| 20.00 | Standoff | 1 | 1.00 | 0.000 | 75.00 | 2.500 | 1.00 | 122.67 | 3.438 | 1.00 |
| Totals | Num Loadings:54 | 155 | | | 19,854.20 | | | 39,421.48 | | |

## Linear Appurtenance Properties

Load Case Azimuth (deg) : 0

| Elev From (ft) | Elev To (ft) | Qty | Description | Coax Dia (in) | Coax Wt (lb/ft) | Flat | Max Coax / Row | Dist Between Rows (in) | Dist Between Cols (in) | Azimuth (deg) | Dist From Face (in) | Exposed To Wind | Carrier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 182.00 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | SPRINT NEXTEL |
| 0.00 | 171.00 | 2 | 1/2" Coax | 0.63 | 0.15 | N | 2 | 0.50 | 0.50 | 130 | 0.50 | Y | CLEARWIRE |
| 0.00 | 171.00 | 6 | 5/16" (0.31"-7.9mm) | 0.31 | 0.05 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | CLEARWIRE |
| 0.00 | 165.00 | 1 | 2" conduit | 2.38 | 3.65 | N | 1 | 0.50 | 0.50 | 135 | 0.50 | Y | CLEARWIRE |
| 0.00 | 160.00 | 2 | 0.39" (10mm) Fiber | 0.39 | 0.06 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 0.00 | 160.00 | 6 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 0.00 | 160.00 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 0.00 | 160.00 | 1 | 2" conduit | 2.38 | 3.65 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 0.00 | 160.00 | 3 | 2" conduit | 2.38 | 3.65 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 0.00 | 160.00 | 1 | 3/8" (0.38"- 9.5mm) | 0.38 | 0.23 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 0.00 | 148.00 | 4 | 1 1/4" Hybriflex Cable | 1.54 | 1.00 | N | 1 | 0.50 | 0.50 | 265 | 0.50 | Y | T-MOBILE |
| 0.00 | 148.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 6 | 0.50 | 0.50 | 260 | 0.50 | Y | T-MOBILE |
| 0.00 | 138.00 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | VERIZON WIRELESS |
| 0.00 | 138.00 | 2 | 1 5/8" Hybriflex | 1.98 | 1.30 | N | 2 | 0.00 | 0.00 | 0 | 0.00 | Y | VERIZON WIRELESS |
| 0.00 | 128.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 6 | 0.50 | 0.50 | 200 | 0.50 | Y | METRO PCS INC |
| 0.00 | 128.00 | 1 | 7/8" Coax | 1.09 | 0.33 | N | 0 | 0.00 | 0.00 | 0 | 0.00 | N | METRO PCS INC |
| 0.00 | 118.00 | 3 | 1 1/4" Hybriflex Cable | 1.54 | 1.00 | N | 3 | 0.50 | 0.50 | 170 | 0.50 | Y | SPRINT NEXTEL |
| 0.00 | 116.00 | 1 | 1 1/4" Hybriflex Cable | 1.54 | 1.00 | N | 1 | 0.50 | 0.50 | 175 | 0.50 | Y | SPRINT NEXTEL |
| 0.00 | 20.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 1 | 0.50 | 0.50 | 180 | 0.50 | Y | SPRINT NEXTEL |

## Segment Properties (Max Len : 5. ft)

| Seg Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area ($in^2$) | Ix ($in^4$) | W/t Ratio | D/t Ratio | F'y (ksi) | S ($in^3$) | Z ($in^3$) | Weight (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | 0.4375 | 72.000 | 99.370 | 64,295.3 | 27.26 | 164.57 | 69.3 | 1758. | 0.0 | 0.0 |
| 5.00 | | 0.4375 | 70.743 | 97.624 | 60,966.4 | 26.75 | 161.70 | 69.9 | 1697. | 0.0 | 1,675.8 |
| 10.00 | | 0.4375 | 69.486 | 95.879 | 57,754.4 | 26.24 | 158.83 | 70.5 | 1637. | 0.0 | 1,646.1 |
| 15.00 | | 0.4375 | 68.229 | 94.134 | 54,657.3 | 25.74 | 155.95 | 71.1 | 1577. | 0.0 | 1,616.4 |
| 20.00 | | 0.4375 | 66.972 | 92.388 | 51,672.9 | 25.23 | 153.08 | 71.7 | 1519. | 0.0 | 1,586.7 |
| 25.00 | | 0.4375 | 65.715 | 90.643 | 48,799.2 | 24.72 | 150.21 | 72.3 | 1462. | 0.0 | 1,557.0 |
| 30.00 | | 0.4375 | 64.458 | 88.897 | 46,034.1 | 24.22 | 147.33 | 72.9 | 1406. | 0.0 | 1,527.3 |
| 35.00 | | 0.4375 | 63.201 | 87.152 | 43,375.4 | 23.71 | 144.46 | 73.5 | 1351. | 0.0 | 1,497.6 |
| 40.00 | | 0.4375 | 61.944 | 85.406 | 40,821.1 | 23.20 | 141.59 | 74.1 | 1298. | 0.0 | 1,467.9 |
| 45.00 | Bot - Section 2 | 0.4375 | 60.687 | 83.661 | 38,369.2 | 22.70 | 138.71 | 74.7 | 1245. | 0.0 | 1,438.2 |
| 50.00 | | 0.4375 | 59.430 | 81.915 | 36,017.4 | 22.19 | 135.84 | 75.3 | 1193. | 0.0 | 2,632.3 |
| 53.00 | Top - Section 1 | 0.3750 | 59.426 | 70.283 | 30,963.7 | 26.18 | 158.47 | 70.6 | 1026. | 0.0 | 1,552.9 |
| 55.00 | | 0.3750 | 58.923 | 69.684 | 30,179.4 | 25.94 | 157.13 | 70.9 | 1008. | 0.0 | 476.3 |
| 60.00 | | 0.3750 | 57.666 | 68.188 | 28,277.0 | 25.35 | 153.78 | 71.6 | 965.8 | 0.0 | 1,172.9 |
| 65.00 | | 0.3750 | 56.409 | 66.692 | 26,456.3 | 24.76 | 150.42 | 72.3 | 923.8 | 0.0 | 1,147.4 |
| 70.00 | | 0.3750 | 55.152 | 65.196 | 24,715.5 | 24.17 | 147.07 | 73.0 | 882.7 | 0.0 | 1,122.0 |
| 75.00 | | 0.3750 | 53.895 | 63.700 | 23,052.8 | 23.58 | 143.72 | 73.7 | 842.5 | 0.0 | 1,096.5 |
| 80.00 | | 0.3750 | 52.638 | 62.204 | 21,466.3 | 22.99 | 140.37 | 74.4 | 803.2 | 0.0 | 1,071.1 |
| 85.00 | | 0.3750 | 51.381 | 60.708 | 19,954.4 | 22.40 | 137.02 | 75.1 | 764.9 | 0.0 | 1,045.6 |
| 90.00 | | 0.3750 | 50.124 | 59.212 | 18,515.2 | 21.81 | 133.66 | 75.8 | 727.6 | 0.0 | 1,020.1 |
| 91.42 | Bot - Section 3 | 0.3750 | 49.768 | 58.788 | 18,120.3 | 21.64 | 132.71 | 76.0 | 717.1 | 0.0 | 284.4 |
| 95.00 | | 0.3750 | 48.867 | 57.715 | 17,146.9 | 21.21 | 130.31 | 76.4 | 691.1 | 0.0 | 1,310.5 |
| 98.00 | Top - Section 2 | 0.3125 | 48.738 | 48.030 | 14,230.2 | 25.74 | 155.96 | 71.1 | 575.1 | 0.0 | 1,078.7 |
| 100.0 | | 0.3125 | 48.235 | 47.531 | 13,791.5 | 25.45 | 154.35 | 71.5 | 563.2 | 0.0 | 325.2 |
| 105.0 | | 0.3125 | 46.978 | 46.285 | 12,734.5 | 24.74 | 150.33 | 72.3 | 533.9 | 0.0 | 798.1 |
| 108.0 | | 0.3125 | 46.224 | 45.537 | 12,126.9 | 24.32 | 147.92 | 72.8 | 516.7 | 0.0 | 468.7 |
| 110.0 | | 0.3125 | 45.721 | 45.038 | 11,732.9 | 24.03 | 146.31 | 73.1 | 505.4 | 0.0 | 308.2 |
| 115.0 | | 0.3125 | 44.464 | 43.791 | 10,785.2 | 23.33 | 142.28 | 74.0 | 477.8 | 0.0 | 755.7 |
| 118.0 | | 0.3125 | 43.710 | 43.043 | 10,241.9 | 22.90 | 139.87 | 74.5 | 461.5 | 0.0 | 443.2 |
| 120.0 | | 0.3125 | 43.207 | 42.544 | 9,890.0 | 22.62 | 138.26 | 74.8 | 450.8 | 0.0 | 291.2 |
| 122.0 | | 0.3125 | 42.704 | 42.046 | 9,546.3 | 22.33 | 136.65 | 75.1 | 440.3 | 0.0 | 287.8 |
| 125.0 | | 0.3125 | 41.950 | 41.298 | 9,045.8 | 21.91 | 134.24 | 75.6 | 424.7 | 0.0 | 425.4 |
| 128.0 | | 0.3125 | 41.196 | 40.550 | 8,563.1 | 21.48 | 131.83 | 76.1 | 409.4 | 0.0 | 417.8 |
| 130.0 | | 0.3125 | 40.693 | 40.051 | 8,251.0 | 21.20 | 130.22 | 76.5 | 399.4 | 0.0 | 274.3 |
| 135.0 | | 0.3125 | 39.436 | 38.804 | 7,504.2 | 20.49 | 126.19 | 77.3 | 374.8 | 0.0 | 670.8 |
| 138.0 | | 0.3125 | 38.682 | 38.056 | 7,078.5 | 20.06 | 123.78 | 77.8 | 360.4 | 0.0 | 392.3 |
| 139.3 | Bot - Section 4 | 0.3125 | 38.347 | 37.724 | 6,894.6 | 19.87 | 122.71 | 78.0 | 354.1 | 0.0 | 171.9 |
| 140.0 | | 0.3125 | 38.179 | 37.557 | 6,803.9 | 19.78 | 122.17 | 78.1 | 351.0 | 0.0 | 154.7 |
| 144.4 | Top - Section 3 | 0.2500 | 37.569 | 29.611 | 5,210.3 | 24.73 | 150.27 | 72.3 | 273.2 | 0.0 | 1,007.8 |
| 145.0 | | 0.2500 | 37.422 | 29.495 | 5,149.1 | 24.63 | 149.69 | 72.4 | 271.0 | 0.0 | 58.7 |
| 148.0 | | 0.2500 | 36.668 | 28.896 | 4,842.0 | 24.10 | 146.67 | 73.1 | 260.1 | 0.0 | 298.0 |
| 150.0 | | 0.2500 | 36.165 | 28.497 | 4,644.2 | 23.74 | 144.66 | 73.5 | 252.9 | 0.0 | 195.3 |
| 155.0 | | 0.2500 | 34.908 | 27.500 | 4,173.4 | 22.86 | 139.63 | 74.5 | 235.5 | 0.0 | 476.4 |
| 160.0 | | 0.2500 | 33.651 | 26.503 | 3,735.6 | 21.97 | 134.60 | 75.6 | 218.6 | 0.0 | 459.4 |
| 165.0 | | 0.2500 | 32.394 | 25.505 | 3,329.5 | 21.08 | 129.58 | 76.6 | 202.4 | 0.0 | 442.4 |
| 167.0 | | 0.2500 | 31.891 | 25.106 | 3,175.7 | 20.73 | 127.56 | 77.0 | 196.1 | 0.0 | 172.2 |
| 170.0 | | 0.2500 | 31.137 | 24.508 | 2,954.0 | 20.20 | 124.55 | 77.6 | 186.9 | 0.0 | 253.2 |
| 171.0 | | 0.2500 | 30.886 | 24.308 | 2,882.4 | 20.02 | 123.54 | 77.9 | 183.8 | 0.0 | 83.1 |
| 175.0 | | 0.2500 | 29.880 | 23.510 | 2,607.8 | 19.31 | 119.52 | 78.7 | 171.9 | 0.0 | 325.4 |
| 178.5 | | 0.2500 | 29.000 | 22.812 | 2,382.3 | 18.69 | 116.00 | 79.4 | 161.8 | 0.0 | 275.8 |
| | | | | | | | | | | | 39,257.1 |

**Load Case:** 1.2D + 1.0W — 119 mph with No Ice — 24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

## Applied Segment Forces Summary

| | | Shaft Forces | | Discrete Forces | | | | Linear Forces | | Sum of Forces | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seg Elev (ft) | Description | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 291.7 | 0.0 | | | | | 0.0 | 0.0 | 291.7 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 578.2 | 2,011.0 | | | | | 0.0 | 439.1 | 578.2 | 2,450.1 | 0.0 | 0.0 |
| 10.00 | | 568.5 | 1,975.3 | | | | | 0.0 | 439.1 | 568.5 | 2,414.4 | 0.0 | 0.0 |
| 15.00 | | 561.9 | 1,939.7 | | | | | 0.0 | 439.1 | 561.9 | 2,378.8 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 558.0 | 1,904.1 | 68.5 | 0.0 | 0.0 | 90.7 | 0.0 | 439.1 | 626.5 | 2,433.9 | 0.0 | 0.0 |
| 25.00 | | 554.0 | 1,868.4 | | | | | 0.0 | 438.2 | 554.0 | 2,306.6 | 0.0 | 0.0 |
| 30.00 | | 556.8 | 1,832.8 | | | | | 0.0 | 438.2 | 556.8 | 2,271.0 | 0.0 | 0.0 |
| 35.00 | | 571.1 | 1,797.2 | | | | | 0.0 | 438.2 | 571.1 | 2,235.3 | 0.0 | 0.0 |
| 40.00 | | 589.3 | 1,761.5 | | | | | 0.0 | 438.2 | 589.3 | 2,199.7 | 0.0 | 0.0 |
| 45.00 | Bot - Section 2 | 609.1 | 1,725.9 | | | | | 0.0 | 438.2 | 609.1 | 2,164.1 | 0.0 | 0.0 |
| 50.00 | | 499.7 | 3,158.8 | | | | | 0.0 | 438.2 | 499.7 | 3,597.0 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 316.0 | 1,863.5 | | | | | 0.0 | 262.9 | 316.0 | 2,126.4 | 0.0 | 0.0 |
| 55.00 | | 447.1 | 571.5 | | | | | 0.0 | 175.3 | 447.1 | 746.8 | 0.0 | 0.0 |
| 60.00 | | 646.6 | 1,407.4 | | | | | 0.0 | 438.2 | 646.6 | 1,845.6 | 0.0 | 0.0 |
| 65.00 | | 657.1 | 1,376.9 | | | | | 0.0 | 438.2 | 657.1 | 1,815.1 | 0.0 | 0.0 |
| 70.00 | | 666.8 | 1,346.4 | | | | | 0.0 | 438.2 | 666.8 | 1,784.5 | 0.0 | 0.0 |
| 75.00 | | 675.6 | 1,315.8 | | | | | 0.0 | 438.2 | 675.6 | 1,754.0 | 0.0 | 0.0 |
| 80.00 | | 683.8 | 1,285.3 | | | | | 0.0 | 438.2 | 683.8 | 1,723.4 | 0.0 | 0.0 |
| 85.00 | | 691.4 | 1,254.7 | | | | | 0.0 | 438.2 | 691.4 | 1,692.9 | 0.0 | 0.0 |
| 90.00 | | 446.6 | 1,224.2 | | | | | 0.0 | 438.2 | 446.6 | 1,662.4 | 0.0 | 0.0 |
| 91.42 | Bot - Section 3 | 354.1 | 341.3 | | | | | 0.0 | 124.2 | 354.1 | 465.4 | 0.0 | 0.0 |
| 95.00 | | 469.8 | 1,572.6 | | | | | 0.0 | 314.0 | 469.8 | 1,886.6 | 0.0 | 0.0 |
| 98.00 | Top - Section 2 | 357.2 | 1,294.5 | | | | | 0.0 | 262.9 | 357.2 | 1,557.4 | 0.0 | 0.0 |
| 100.00 | | 500.6 | 390.2 | | | | | 0.0 | 175.3 | 500.6 | 565.5 | 0.0 | 0.0 |
| 105.00 | | 574.4 | 957.7 | | | | | 0.0 | 438.2 | 574.4 | 1,395.9 | 0.0 | 0.0 |
| 108.00 | Appurtenance(s) | 361.0 | 562.4 | 2,138.7 | 0.0 | 0.0 | 2,202.0 | 0.0 | 262.9 | 2,499.7 | 3,027.3 | 0.0 | 0.0 |
| 110.00 | | 508.4 | 369.8 | | | | | 0.0 | 175.3 | 508.4 | 545.1 | 0.0 | 0.0 |
| 115.00 | | 583.1 | 906.8 | | | | | 0.0 | 438.2 | 583.1 | 1,345.0 | 0.0 | 0.0 |
| 118.00 | Appurtenance(s) | 366.3 | 531.9 | 922.7 | 0.0 | 3,690.8 | 403.6 | 0.0 | 260.5 | 1,289.0 | 1,195.9 | 0.0 | 0.0 |
| 120.00 | Appurtenance(s) | 294.0 | 349.5 | 854.1 | 0.0 | 0.0 | 1,800.0 | 0.0 | 165.7 | 1,148.1 | 2,315.2 | 0.0 | 0.0 |
| 122.00 | Appurtenance(s) | 368.8 | 345.4 | 403.4 | 0.0 | 0.0 | 658.8 | 0.0 | 165.7 | 772.2 | 1,169.9 | 0.0 | 0.0 |
| 125.00 | | 444.0 | 510.5 | | | | | 0.0 | 248.5 | 444.0 | 759.0 | 0.0 | 0.0 |
| 128.00 | Appurtenance(s) | 371.3 | 501.3 | 425.6 | 0.0 | 0.0 | 96.2 | 0.0 | 248.5 | 796.9 | 846.1 | 0.0 | 0.0 |
| 130.00 | | 522.0 | 329.1 | | | | | 0.0 | 153.1 | 522.0 | 482.2 | 0.0 | 0.0 |
| 135.00 | | 593.5 | 805.0 | | | | | 0.1 | 382.7 | 593.5 | 1,187.7 | 0.0 | 0.0 |
| 138.00 | Appurtenance(s) | 317.1 | 470.8 | 4,167.5 | 0.0 | -1,882.0 | 4,732.4 | 0.3 | 229.6 | 4,484.9 | 5,432.8 | 0.0 | 0.0 |
| 139.33 | Bot - Section 4 | 145.7 | 206.3 | | | | | 0.2 | 82.1 | 145.9 | 288.4 | 0.0 | 0.0 |
| 140.00 | | 368.1 | 185.7 | | | | | 0.1 | 41.1 | 368.2 | 226.7 | 0.0 | 0.0 |
| 144.42 | Top - Section 3 | 360.9 | 1,209.4 | | | | | 0.9 | 272.1 | 361.8 | 1,481.5 | 0.0 | 0.0 |
| 145.00 | | 253.8 | 70.4 | | | | | 0.1 | 35.9 | 253.9 | 106.3 | 0.0 | 0.0 |
| 148.00 | Appurtenance(s) | 306.3 | 357.6 | 4,320.2 | 0.0 | 66.5 | 5,115.4 | 0.7 | 184.8 | 4,627.3 | 5,657.8 | 0.0 | 0.0 |
| 150.00 | | 325.5 | 234.4 | | | | | 0.0 | 101.8 | 325.5 | 336.2 | 0.0 | 0.0 |
| 155.00 | | 456.5 | 571.6 | | | | | 0.0 | 254.5 | 456.5 | 826.2 | 0.0 | 0.0 |
| 160.00 | Appurtenance(s) | 444.1 | 551.3 | 5,334.3 | 0.0 | -262.8 | 5,715.0 | 0.0 | 254.5 | 5,778.3 | 6,520.8 | 0.0 | 0.0 |
| 165.00 | Appurtenance(s) | 304.6 | 530.9 | 77.6 | 0.0 | 0.0 | 18.0 | 0.0 | 84.5 | 382.2 | 633.5 | 0.0 | 0.0 |
| 167.00 | Appurtenance(s) | 212.4 | 206.7 | 367.7 | 0.0 | 0.0 | 672.0 | 0.0 | 25.1 | 580.0 | 903.7 | 0.0 | 0.0 |
| 170.00 | | 168.3 | 303.9 | | | | | 0.0 | 37.6 | 168.3 | 341.5 | 0.0 | 0.0 |
| 171.00 | Appurtenance(s) | 205.7 | 99.7 | 907.1 | 0.0 | -2,721.2 | 319.3 | 0.0 | 12.5 | 1,112.8 | 431.5 | 0.0 | 0.0 |

Load Case: 1.2D + 1.0W 119 mph with No Ice 24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 175.00 | | 303.9 | 390.5 | | | | | 0.0 | 47.2 | 303.9 | 437.8 | 0.0 | 0.0 |
| 178.50 | Appurtenance(s) | 139.9 | 331.0 | 1,150.7 | 0.0 | 0.0 | 1,800.0 | 0.0 | 41.3 | 1,290.6 | 2,172.3 | 0.0 | 0.0 |
| | | | | | | | | Totals: | | 43,291.0 | 84,143.1 | 0.00 | 0.00 |

Load Case: 1.2D + 1.0W 119 mph with No Ice 24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

## Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -84.30 | -44.21 | 0.00 | -5,422.36 | 0.00 | 5,422.36 | 6,201.63 | 1,743.94 | 11,271.7 | 9,147.40 | 0.00 | 0.00 | 0.607 |
| 5.00 | -81.76 | -43.80 | 0.00 | -5,201.30 | 0.00 | 5,201.30 | 6,145.05 | 1,713.31 | 10,879.2 | 8,903.77 | 0.06 | -0.12 | 0.598 |
| 10.00 | -79.26 | -43.39 | 0.00 | -4,982.31 | 0.00 | 4,982.31 | 6,086.60 | 1,682.68 | 10,493.7 | 8,660.43 | 0.25 | -0.24 | 0.589 |
| 15.00 | -76.79 | -42.98 | 0.00 | -4,765.37 | 0.00 | 4,765.37 | 6,026.28 | 1,652.04 | 10,115.2 | 8,417.51 | 0.56 | -0.36 | 0.580 |
| 20.00 | -74.27 | -42.49 | 0.00 | -4,550.50 | 0.00 | 4,550.50 | 5,964.08 | 1,621.41 | 9,743.60 | 8,175.18 | 1.00 | -0.48 | 0.570 |
| 25.00 | -71.88 | -42.07 | 0.00 | -4,338.05 | 0.00 | 4,338.05 | 5,900.01 | 1,590.78 | 9,378.96 | 7,933.57 | 1.57 | -0.60 | 0.560 |
| 30.00 | -69.52 | -41.64 | 0.00 | -4,127.71 | 0.00 | 4,127.71 | 5,834.07 | 1,560.15 | 9,021.26 | 7,692.84 | 2.26 | -0.72 | 0.549 |
| 35.00 | -67.21 | -41.18 | 0.00 | -3,919.54 | 0.00 | 3,919.54 | 5,766.26 | 1,529.51 | 8,670.52 | 7,453.12 | 3.09 | -0.85 | 0.538 |
| 40.00 | -64.93 | -40.70 | 0.00 | -3,713.64 | 0.00 | 3,713.64 | 5,696.58 | 1,498.88 | 8,326.74 | 7,214.56 | 4.05 | -0.97 | 0.527 |
| 45.00 | -62.69 | -40.19 | 0.00 | -3,510.15 | 0.00 | 3,510.15 | 5,625.02 | 1,468.25 | 7,989.90 | 6,977.32 | 5.13 | -1.10 | 0.515 |
| 50.00 | -59.03 | -39.72 | 0.00 | -3,309.21 | 0.00 | 3,309.21 | 5,551.60 | 1,437.62 | 7,660.03 | 6,741.53 | 6.35 | -1.23 | 0.502 |
| 53.00 | -56.87 | -39.42 | 0.00 | -3,190.05 | 0.00 | 3,190.05 | 4,466.37 | 1,233.46 | 6,578.51 | 5,434.80 | 7.15 | -1.30 | 0.601 |
| 55.00 | -56.06 | -39.05 | 0.00 | -3,111.21 | 0.00 | 3,111.21 | 4,445.78 | 1,222.96 | 6,466.97 | 5,363.40 | 7.70 | -1.35 | 0.594 |
| 60.00 | -54.14 | -38.49 | 0.00 | -2,915.95 | 0.00 | 2,915.95 | 4,392.99 | 1,196.70 | 6,192.29 | 5,185.21 | 9.20 | -1.50 | 0.576 |
| 65.00 | -52.25 | -37.92 | 0.00 | -2,723.48 | 0.00 | 2,723.48 | 4,338.33 | 1,170.45 | 5,923.57 | 5,007.61 | 10.84 | -1.64 | 0.557 |
| 70.00 | -50.40 | -37.32 | 0.00 | -2,533.90 | 0.00 | 2,533.90 | 4,281.80 | 1,144.19 | 5,660.81 | 4,830.75 | 12.64 | -1.78 | 0.537 |
| 75.00 | -48.57 | -36.71 | 0.00 | -2,347.30 | 0.00 | 2,347.30 | 4,223.39 | 1,117.93 | 5,404.01 | 4,654.77 | 14.57 | -1.92 | 0.517 |
| 80.00 | -46.79 | -36.08 | 0.00 | -2,163.76 | 0.00 | 2,163.76 | 4,163.12 | 1,091.68 | 5,153.18 | 4,479.82 | 16.66 | -2.06 | 0.495 |
| 85.00 | -45.04 | -35.43 | 0.00 | -1,983.37 | 0.00 | 1,983.37 | 4,100.97 | 1,065.42 | 4,908.30 | 4,306.05 | 18.89 | -2.20 | 0.473 |
| 90.00 | -43.34 | -34.99 | 0.00 | -1,806.21 | 0.00 | 1,806.21 | 4,036.95 | 1,039.16 | 4,669.38 | 4,133.61 | 21.26 | -2.33 | 0.449 |
| 91.42 | -42.85 | -34.66 | 0.00 | -1,756.65 | 0.00 | 1,756.65 | 4,018.47 | 1,031.72 | 4,602.78 | 4,085.01 | 21.96 | -2.37 | 0.442 |
| 95.00 | -40.93 | -34.18 | 0.00 | -1,632.45 | 0.00 | 1,632.45 | 3,971.06 | 1,012.91 | 4,436.43 | 3,962.63 | 23.78 | -2.47 | 0.423 |
| 98.00 | -39.36 | -33.80 | 0.00 | -1,529.92 | 0.00 | 1,529.92 | 3,074.73 | 842.93 | 3,686.72 | 3,067.88 | 25.35 | -2.54 | 0.513 |
| 100.00 | -38.76 | -33.34 | 0.00 | -1,462.33 | 0.00 | 1,462.33 | 3,057.08 | 834.18 | 3,610.56 | 3,018.39 | 26.43 | -2.60 | 0.499 |
| 105.00 | -37.32 | -32.77 | 0.00 | -1,295.65 | 0.00 | 1,295.65 | 3,011.64 | 812.29 | 3,423.66 | 2,895.03 | 29.23 | -2.74 | 0.462 |
| 108.00 | -34.39 | -30.17 | 0.00 | -1,197.34 | 0.00 | 1,197.34 | 2,983.48 | 799.17 | 3,313.90 | 2,821.30 | 30.98 | -2.82 | 0.437 |
| 110.00 | -33.82 | -29.69 | 0.00 | -1,137.01 | 0.00 | 1,137.01 | 2,964.33 | 790.41 | 3,241.72 | 2,772.28 | 32.17 | -2.88 | 0.423 |
| 115.00 | -32.45 | -29.09 | 0.00 | -988.57 | 0.00 | 988.57 | 2,915.15 | 768.53 | 3,064.74 | 2,650.30 | 35.25 | -3.01 | 0.386 |
| 118.00 | -31.30 | -27.78 | 0.00 | -897.60 | 0.00 | 897.60 | 2,884.74 | 755.41 | 2,960.94 | 2,577.54 | 37.17 | -3.08 | 0.360 |
| 120.00 | -29.03 | -26.53 | 0.00 | -842.04 | 0.00 | 842.04 | 2,864.09 | 746.65 | 2,892.74 | 2,529.23 | 38.47 | -3.13 | 0.344 |
| 122.00 | -27.88 | -25.72 | 0.00 | -788.99 | 0.00 | 788.99 | 2,843.15 | 737.90 | 2,825.33 | 2,481.09 | 39.79 | -3.18 | 0.329 |
| 125.00 | -27.11 | -25.27 | 0.00 | -711.82 | 0.00 | 711.82 | 2,811.17 | 724.77 | 2,725.70 | 2,409.22 | 41.80 | -3.24 | 0.306 |
| 128.00 | -26.29 | -24.45 | 0.00 | -636.02 | 0.00 | 636.02 | 2,778.51 | 711.65 | 2,627.86 | 2,337.78 | 43.86 | -3.31 | 0.283 |
| 130.00 | -25.81 | -23.93 | 0.00 | -587.13 | 0.00 | 587.13 | 2,756.37 | 702.89 | 2,563.63 | 2,290.41 | 45.26 | -3.35 | 0.267 |
| 135.00 | -24.64 | -23.29 | 0.00 | -467.49 | 0.00 | 467.49 | 2,699.70 | 681.01 | 2,406.52 | 2,172.95 | 48.81 | -3.44 | 0.225 |
| 138.00 | -19.47 | -18.50 | 0.00 | -397.61 | 0.00 | 397.61 | 2,664.80 | 667.88 | 2,314.65 | 2,103.19 | 50.99 | -3.49 | 0.197 |
| 139.33 | -19.19 | -18.34 | 0.00 | -372.94 | 0.00 | 372.94 | 2,649.07 | 662.05 | 2,274.38 | 2,072.36 | 51.96 | -3.51 | 0.188 |
| 140.00 | -18.97 | -17.97 | 0.00 | -360.71 | 0.00 | 360.71 | 2,641.16 | 659.13 | 2,254.39 | 2,056.99 | 52.45 | -3.52 | 0.183 |
| 144.42 | -17.51 | -17.53 | 0.00 | -281.33 | 0.00 | 281.33 | 1,927.04 | 519.68 | 1,751.62 | 1,481.39 | 55.74 | -3.58 | 0.200 |
| 145.00 | -17.41 | -17.28 | 0.00 | -271.11 | 0.00 | 271.11 | 1,922.70 | 517.63 | 1,737.88 | 1,472.21 | 56.17 | -3.58 | 0.194 |
| 148.00 | -12.05 | -12.31 | 0.00 | -219.21 | 0.00 | 219.21 | 1,899.96 | 507.13 | 1,668.08 | 1,425.08 | 58.44 | -3.62 | 0.161 |
| 150.00 | -11.73 | -11.97 | 0.00 | -194.59 | 0.00 | 194.59 | 1,884.42 | 500.13 | 1,622.34 | 1,393.78 | 59.96 | -3.65 | 0.146 |
| 155.00 | -10.92 | -11.47 | 0.00 | -134.72 | 0.00 | 134.72 | 1,844.28 | 482.63 | 1,510.78 | 1,316.02 | 63.81 | -3.70 | 0.109 |

Load Case: 1.2D + 1.0W 119 mph with No Ice 24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 160.00 | -4.79 | -5.29 | 0.00 | -77.36 | 0.00 | 77.36 | 1,802.26 | 465.12 | 1,403.19 | 1,239.06 | 67.70 | -3.74 | 0.065 |
| 165.00 | -4.18 | -4.86 | 0.00 | -50.94 | 0.00 | 50.94 | 1,758.37 | 447.62 | 1,299.57 | 1,163.05 | 71.63 | -3.76 | 0.046 |
| 167.00 | -3.31 | -4.23 | 0.00 | -41.21 | 0.00 | 41.21 | 1,740.29 | 440.62 | 1,259.24 | 1,132.94 | 73.20 | -3.77 | 0.038 |
| 170.00 | -2.98 | -4.04 | 0.00 | -28.53 | 0.00 | 28.53 | 1,712.61 | 430.11 | 1,199.93 | 1,088.14 | 75.57 | -3.78 | 0.028 |
| 171.00 | -2.63 | -2.90 | 0.00 | -24.50 | 0.00 | 24.50 | 1,703.23 | 426.61 | 1,180.48 | 1,073.30 | 76.36 | -3.78 | 0.024 |
| 175.00 | -2.21 | -2.57 | 0.00 | -12.91 | 0.00 | 12.91 | 1,664.97 | 412.61 | 1,104.26 | 1,014.48 | 79.53 | -3.79 | 0.014 |
| 178.50 | 0.00 | -2.41 | 0.00 | -3.93 | 0.00 | 3.93 | 1,630.52 | 400.36 | 1,039.66 | 963.73 | 82.31 | -3.79 | 0.004 |

Load Case: 0.9D + 1.0W 119 mph with No Ice (Reduced DL) 23 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.00

## Applied Segment Forces Summary

| | | Shaft Forces | | Discrete Forces | | | | Linear Forces | | Sum of Forces | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seg Elev (ft) | Description | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 291.7 | 0.0 | | | | | 0.0 | 0.0 | 291.7 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 578.2 | 1,508.2 | | | | | 0.0 | 329.3 | 578.2 | 1,837.5 | 0.0 | 0.0 |
| 10.00 | | 568.5 | 1,481.5 | | | | | 0.0 | 329.3 | 568.5 | 1,810.8 | 0.0 | 0.0 |
| 15.00 | | 561.9 | 1,454.8 | | | | | 0.0 | 329.3 | 561.9 | 1,784.1 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 558.0 | 1,428.1 | 68.5 | 0.0 | 0.0 | 68.0 | 0.0 | 329.3 | 626.5 | 1,825.4 | 0.0 | 0.0 |
| 25.00 | | 554.0 | 1,401.3 | | | | | 0.0 | 328.6 | 554.0 | 1,730.0 | 0.0 | 0.0 |
| 30.00 | | 556.8 | 1,374.6 | | | | | 0.0 | 328.6 | 556.8 | 1,703.2 | 0.0 | 0.0 |
| 35.00 | | 571.1 | 1,347.9 | | | | | 0.0 | 328.6 | 571.1 | 1,676.5 | 0.0 | 0.0 |
| 40.00 | | 589.3 | 1,321.1 | | | | | 0.0 | 328.6 | 589.3 | 1,649.8 | 0.0 | 0.0 |
| 45.00 | Bot - Section 2 | 609.1 | 1,294.4 | | | | | 0.0 | 328.6 | 609.1 | 1,623.1 | 0.0 | 0.0 |
| 50.00 | | 499.7 | 2,369.1 | | | | | 0.0 | 328.6 | 499.7 | 2,697.7 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 316.0 | 1,397.6 | | | | | 0.0 | 197.2 | 316.0 | 1,594.8 | 0.0 | 0.0 |
| 55.00 | | 447.1 | 428.6 | | | | | 0.0 | 131.5 | 447.1 | 560.1 | 0.0 | 0.0 |
| 60.00 | | 646.6 | 1,055.6 | | | | | 0.0 | 328.6 | 646.6 | 1,384.2 | 0.0 | 0.0 |
| 65.00 | | 657.1 | 1,032.7 | | | | | 0.0 | 328.6 | 657.1 | 1,361.3 | 0.0 | 0.0 |
| 70.00 | | 666.8 | 1,009.8 | | | | | 0.0 | 328.6 | 666.8 | 1,338.4 | 0.0 | 0.0 |
| 75.00 | | 675.6 | 986.9 | | | | | 0.0 | 328.6 | 675.6 | 1,315.5 | 0.0 | 0.0 |
| 80.00 | | 683.8 | 963.9 | | | | | 0.0 | 328.6 | 683.8 | 1,292.6 | 0.0 | 0.0 |
| 85.00 | | 691.4 | 941.0 | | | | | 0.0 | 328.6 | 691.4 | 1,269.7 | 0.0 | 0.0 |
| 90.00 | | 446.6 | 918.1 | | | | | 0.0 | 328.6 | 446.6 | 1,246.8 | 0.0 | 0.0 |
| 91.42 | Bot - Section 3 | 354.1 | 256.0 | | | | | 0.0 | 93.1 | 354.1 | 349.1 | 0.0 | 0.0 |
| 95.00 | | 469.8 | 1,179.4 | | | | | 0.0 | 235.5 | 469.8 | 1,415.0 | 0.0 | 0.0 |
| 98.00 | Top - Section 2 | 357.2 | 970.8 | | | | | 0.0 | 197.2 | 357.2 | 1,168.0 | 0.0 | 0.0 |
| 100.00 | | 500.6 | 292.7 | | | | | 0.0 | 131.5 | 500.6 | 424.1 | 0.0 | 0.0 |
| 105.00 | | 574.4 | 718.3 | | | | | 0.0 | 328.6 | 574.4 | 1,046.9 | 0.0 | 0.0 |
| 108.00 | Appurtenance(s) | 361.0 | 421.8 | 2,138.7 | 0.0 | 0.0 | 1,651.5 | 0.0 | 197.2 | 2,499.7 | 2,270.5 | 0.0 | 0.0 |
| 110.00 | | 508.4 | 277.4 | | | | | 0.0 | 131.5 | 508.4 | 408.8 | 0.0 | 0.0 |
| 115.00 | | 583.1 | 680.1 | | | | | 0.0 | 328.6 | 583.1 | 1,008.7 | 0.0 | 0.0 |
| 118.00 | Appurtenance(s) | 366.3 | 398.9 | 922.7 | 0.0 | 3,690.8 | 302.7 | 0.0 | 195.4 | 1,289.0 | 896.9 | 0.0 | 0.0 |
| 120.00 | Appurtenance(s) | 294.0 | 262.1 | 854.1 | 0.0 | 0.0 | 1,350.0 | 0.0 | 124.3 | 1,148.1 | 1,736.4 | 0.0 | 0.0 |
| 122.00 | Appurtenance(s) | 368.8 | 259.1 | 403.4 | 0.0 | 0.0 | 494.1 | 0.0 | 124.3 | 772.2 | 877.4 | 0.0 | 0.0 |
| 125.00 | | 444.0 | 382.9 | | | | | 0.0 | 186.4 | 444.0 | 569.2 | 0.0 | 0.0 |
| 128.00 | Appurtenance(s) | 371.3 | 376.0 | 425.6 | 0.0 | 0.0 | 72.2 | 0.0 | 186.4 | 796.9 | 634.5 | 0.0 | 0.0 |
| 130.00 | | 522.0 | 246.8 | | | | | 0.0 | 114.8 | 522.0 | 361.6 | 0.0 | 0.0 |
| 135.00 | | 593.5 | 603.7 | | | | | 0.1 | 287.0 | 593.5 | 890.7 | 0.0 | 0.0 |
| 138.00 | Appurtenance(s) | 317.1 | 353.1 | 4,167.5 | 0.0 | -1,882.0 | 3,549.3 | 0.3 | 172.2 | 4,484.9 | 4,074.6 | 0.0 | 0.0 |
| 139.33 | Bot - Section 4 | 145.7 | 154.7 | | | | | 0.2 | 61.6 | 145.9 | 216.3 | 0.0 | 0.0 |
| 140.00 | | 368.1 | 139.2 | | | | | 0.1 | 30.8 | 368.2 | 170.0 | 0.0 | 0.0 |
| 144.42 | Top - Section 3 | 360.9 | 907.0 | | | | | 0.9 | 204.1 | 361.8 | 1,111.1 | 0.0 | 0.0 |
| 145.00 | | 253.8 | 52.8 | | | | | 0.1 | 27.0 | 253.9 | 79.7 | 0.0 | 0.0 |
| 148.00 | Appurtenance(s) | 306.3 | 268.2 | 4,320.2 | 0.0 | 66.5 | 3,836.5 | 0.7 | 138.6 | 4,627.3 | 4,243.4 | 0.0 | 0.0 |
| 150.00 | | 325.5 | 175.8 | | | | | 0.0 | 76.4 | 325.5 | 252.1 | 0.0 | 0.0 |
| 155.00 | | 456.5 | 428.7 | | | | | 0.0 | 190.9 | 456.5 | 619.6 | 0.0 | 0.0 |
| 160.00 | Appurtenance(s) | 444.1 | 413.5 | 5,334.3 | 0.0 | -262.8 | 4,286.2 | 0.0 | 190.9 | 5,778.3 | 4,890.6 | 0.0 | 0.0 |
| 165.00 | Appurtenance(s) | 304.6 | 398.2 | 77.6 | 0.0 | 0.0 | 13.5 | 0.0 | 63.4 | 382.2 | 475.1 | 0.0 | 0.0 |
| 167.00 | Appurtenance(s) | 212.4 | 155.0 | 367.7 | 0.0 | 0.0 | 504.0 | 0.0 | 18.8 | 580.0 | 677.8 | 0.0 | 0.0 |
| 170.00 | | 168.3 | 227.9 | | | | | 0.0 | 28.2 | 168.3 | 256.1 | 0.0 | 0.0 |
| 171.00 | Appurtenance(s) | 205.7 | 74.7 | 907.1 | 0.0 | -2,721.2 | 239.5 | 0.0 | 9.4 | 1,112.8 | 323.6 | 0.0 | 0.0 |

Load Case: 0.9D + 1.0W 119 mph with No Ice (Reduced DL) 23 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 175.00 | | 303.9 | 292.9 | | | | | 0.0 | 35.4 | 303.9 | 328.3 | 0.0 | 0.0 |
| 178.50 | Appurtenance(s) | 139.9 | 248.3 | 1,150.7 | 0.0 | 0.0 | 1,350.0 | 0.0 | 31.0 | 1,290.6 | 1,629.3 | 0.0 | 0.0 |
| | | | | | | | | Totals: | | 43,291.0 | 63,107.3 | 0.00 | 0.00 |

Load Case: 0.9D + 1.0W 119 mph with No Ice (Reduced DL) 23 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.00

## Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -63.21 | -44.19 | 0.00 | -5,367.33 | 0.00 | 5,367.33 | 6,201.63 | 1,743.94 | 11,271.7 | 9,147.40 | 0.00 | 0.00 | 0.598 |
| 5.00 | -61.29 | -43.73 | 0.00 | -5,146.39 | 0.00 | 5,146.39 | 6,145.05 | 1,713.31 | 10,879.2 | 8,903.77 | 0.06 | -0.12 | 0.589 |
| 10.00 | -59.39 | -43.28 | 0.00 | -4,927.73 | 0.00 | 4,927.73 | 6,086.60 | 1,682.68 | 10,493.7 | 8,660.43 | 0.25 | -0.23 | 0.579 |
| 15.00 | -57.52 | -42.83 | 0.00 | -4,711.33 | 0.00 | 4,711.33 | 6,026.28 | 1,652.04 | 10,115.2 | 8,417.51 | 0.56 | -0.35 | 0.570 |
| 20.00 | -55.61 | -42.31 | 0.00 | -4,497.19 | 0.00 | 4,497.19 | 5,964.08 | 1,621.41 | 9,743.60 | 8,175.18 | 0.99 | -0.47 | 0.560 |
| 25.00 | -53.79 | -41.85 | 0.00 | -4,285.65 | 0.00 | 4,285.65 | 5,900.01 | 1,590.78 | 9,378.96 | 7,933.57 | 1.55 | -0.59 | 0.550 |
| 30.00 | -52.01 | -41.39 | 0.00 | -4,076.40 | 0.00 | 4,076.40 | 5,834.07 | 1,560.15 | 9,021.26 | 7,692.84 | 2.24 | -0.72 | 0.540 |
| 35.00 | -50.25 | -40.90 | 0.00 | -3,869.48 | 0.00 | 3,869.48 | 5,766.26 | 1,529.51 | 8,670.52 | 7,453.12 | 3.06 | -0.84 | 0.529 |
| 40.00 | -48.53 | -40.39 | 0.00 | -3,664.98 | 0.00 | 3,664.98 | 5,696.58 | 1,498.88 | 8,326.74 | 7,214.56 | 4.00 | -0.96 | 0.517 |
| 45.00 | -46.83 | -39.85 | 0.00 | -3,463.03 | 0.00 | 3,463.03 | 5,625.02 | 1,468.25 | 7,989.90 | 6,977.32 | 5.07 | -1.09 | 0.505 |
| 50.00 | -44.07 | -39.38 | 0.00 | -3,263.77 | 0.00 | 3,263.77 | 5,551.60 | 1,437.62 | 7,660.03 | 6,741.53 | 6.28 | -1.21 | 0.493 |
| 53.00 | -42.44 | -39.07 | 0.00 | -3,145.64 | 0.00 | 3,145.64 | 4,466.37 | 1,233.46 | 6,578.51 | 5,434.80 | 7.07 | -1.29 | 0.589 |
| 55.00 | -41.83 | -38.68 | 0.00 | -3,067.49 | 0.00 | 3,067.49 | 4,445.78 | 1,222.96 | 6,466.97 | 5,363.40 | 7.62 | -1.34 | 0.582 |
| 60.00 | -40.37 | -38.10 | 0.00 | -2,874.07 | 0.00 | 2,874.07 | 4,392.99 | 1,196.70 | 6,192.29 | 5,185.21 | 9.09 | -1.48 | 0.564 |
| 65.00 | -38.93 | -37.50 | 0.00 | -2,683.57 | 0.00 | 2,683.57 | 4,338.33 | 1,170.45 | 5,923.57 | 5,007.61 | 10.72 | -1.62 | 0.546 |
| 70.00 | -37.52 | -36.89 | 0.00 | -2,496.05 | 0.00 | 2,496.05 | 4,281.80 | 1,144.19 | 5,660.81 | 4,830.75 | 12.48 | -1.76 | 0.527 |
| 75.00 | -36.14 | -36.26 | 0.00 | -2,311.61 | 0.00 | 2,311.61 | 4,223.39 | 1,117.93 | 5,404.01 | 4,654.77 | 14.40 | -1.89 | 0.506 |
| 80.00 | -34.79 | -35.61 | 0.00 | -2,130.32 | 0.00 | 2,130.32 | 4,163.12 | 1,091.68 | 5,153.18 | 4,479.82 | 16.46 | -2.03 | 0.485 |
| 85.00 | -33.47 | -34.95 | 0.00 | -1,952.26 | 0.00 | 1,952.26 | 4,100.97 | 1,065.42 | 4,908.30 | 4,306.05 | 18.66 | -2.17 | 0.463 |
| 90.00 | -32.19 | -34.51 | 0.00 | -1,777.49 | 0.00 | 1,777.49 | 4,036.95 | 1,039.16 | 4,669.38 | 4,133.61 | 21.00 | -2.30 | 0.439 |
| 91.42 | -31.81 | -34.18 | 0.00 | -1,728.61 | 0.00 | 1,728.61 | 4,018.47 | 1,031.72 | 4,602.78 | 4,085.01 | 21.69 | -2.34 | 0.432 |
| 95.00 | -30.37 | -33.69 | 0.00 | -1,606.14 | 0.00 | 1,606.14 | 3,971.06 | 1,012.91 | 4,436.43 | 3,962.63 | 23.48 | -2.43 | 0.414 |
| 98.00 | -29.18 | -33.32 | 0.00 | -1,505.07 | 0.00 | 1,505.07 | 3,074.73 | 842.93 | 3,686.72 | 3,067.88 | 25.03 | -2.51 | 0.502 |
| 100.00 | -28.72 | -32.85 | 0.00 | -1,438.43 | 0.00 | 1,438.43 | 3,057.08 | 834.18 | 3,610.56 | 3,018.39 | 26.10 | -2.56 | 0.488 |
| 105.00 | -27.64 | -32.28 | 0.00 | -1,274.19 | 0.00 | 1,274.19 | 3,011.64 | 812.29 | 3,423.66 | 2,895.03 | 28.86 | -2.70 | 0.451 |
| 108.00 | -25.46 | -29.70 | 0.00 | -1,177.35 | 0.00 | 1,177.35 | 2,983.48 | 799.17 | 3,313.90 | 2,821.30 | 30.58 | -2.78 | 0.427 |
| 110.00 | -25.03 | -29.22 | 0.00 | -1,117.95 | 0.00 | 1,117.95 | 2,964.33 | 790.41 | 3,241.72 | 2,772.28 | 31.76 | -2.84 | 0.413 |
| 115.00 | -24.00 | -28.62 | 0.00 | -971.87 | 0.00 | 971.87 | 2,915.15 | 768.53 | 3,064.74 | 2,650.30 | 34.80 | -2.96 | 0.376 |
| 118.00 | -23.14 | -27.31 | 0.00 | -882.30 | 0.00 | 882.30 | 2,884.74 | 755.41 | 2,960.94 | 2,577.54 | 36.68 | -3.04 | 0.352 |
| 120.00 | -21.45 | -26.09 | 0.00 | -827.68 | 0.00 | 827.68 | 2,864.09 | 746.65 | 2,892.74 | 2,529.23 | 37.96 | -3.08 | 0.336 |
| 122.00 | -20.59 | -25.29 | 0.00 | -775.49 | 0.00 | 775.49 | 2,843.15 | 737.90 | 2,825.33 | 2,481.09 | 39.27 | -3.13 | 0.321 |
| 125.00 | -20.02 | -24.84 | 0.00 | -699.61 | 0.00 | 699.61 | 2,811.17 | 724.77 | 2,725.70 | 2,409.22 | 41.26 | -3.20 | 0.299 |
| 128.00 | -19.41 | -24.03 | 0.00 | -625.08 | 0.00 | 625.08 | 2,778.51 | 711.65 | 2,627.86 | 2,337.78 | 43.28 | -3.26 | 0.276 |
| 130.00 | -19.05 | -23.51 | 0.00 | -577.03 | 0.00 | 577.03 | 2,756.37 | 702.89 | 2,563.63 | 2,290.41 | 44.66 | -3.30 | 0.260 |
| 135.00 | -18.17 | -22.89 | 0.00 | -459.49 | 0.00 | 459.49 | 2,699.70 | 681.01 | 2,406.52 | 2,172.95 | 48.16 | -3.39 | 0.219 |
| 138.00 | -14.36 | -18.17 | 0.00 | -390.83 | 0.00 | 390.83 | 2,664.80 | 667.88 | 2,314.65 | 2,103.19 | 50.31 | -3.44 | 0.192 |
| 139.33 | -14.15 | -18.02 | 0.00 | -366.60 | 0.00 | 366.60 | 2,649.07 | 662.05 | 2,274.38 | 2,072.36 | 51.27 | -3.46 | 0.183 |
| 140.00 | -13.99 | -17.65 | 0.00 | -354.59 | 0.00 | 354.59 | 2,641.16 | 659.13 | 2,254.39 | 2,056.99 | 51.75 | -3.47 | 0.178 |
| 144.42 | -12.89 | -17.23 | 0.00 | -276.63 | 0.00 | 276.63 | 1,927.04 | 519.68 | 1,751.62 | 1,481.39 | 54.99 | -3.52 | 0.195 |
| 145.00 | -12.82 | -16.98 | 0.00 | -266.58 | 0.00 | 266.58 | 1,922.70 | 517.63 | 1,737.88 | 1,472.21 | 55.42 | -3.53 | 0.189 |
| 148.00 | -8.86 | -12.10 | 0.00 | -215.59 | 0.00 | 215.59 | 1,899.96 | 507.13 | 1,668.08 | 1,425.08 | 57.65 | -3.57 | 0.157 |
| 150.00 | -8.63 | -11.76 | 0.00 | -191.39 | 0.00 | 191.39 | 1,884.42 | 500.13 | 1,622.34 | 1,393.78 | 59.15 | -3.60 | 0.142 |
| 155.00 | -8.03 | -11.28 | 0.00 | -132.57 | 0.00 | 132.57 | 1,844.28 | 482.63 | 1,510.78 | 1,316.02 | 62.94 | -3.65 | 0.106 |

**Load Case:** 0.9D + 1.0W — 119 mph with No Ice (Reduced DL) — 23 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 160.00 | -3.51 | -5.20 | 0.00 | -76.20 | 0.00 | 76.20 | 1,802.26 | 465.12 | 1,403.19 | 1,239.06 | 66.78 | -3.68 | 0.064 |
| 165.00 | -3.06 | -4.79 | 0.00 | -50.21 | 0.00 | 50.21 | 1,758.37 | 447.62 | 1,299.57 | 1,163.05 | 70.65 | -3.71 | 0.045 |
| 167.00 | -2.42 | -4.16 | 0.00 | -40.64 | 0.00 | 40.64 | 1,740.29 | 440.62 | 1,259.24 | 1,132.94 | 72.20 | -3.71 | 0.037 |
| 170.00 | -2.18 | -3.98 | 0.00 | -28.14 | 0.00 | 28.14 | 1,712.61 | 430.11 | 1,199.93 | 1,088.14 | 74.53 | -3.72 | 0.027 |
| 171.00 | -1.93 | -2.85 | 0.00 | -24.16 | 0.00 | 24.16 | 1,703.23 | 426.61 | 1,180.48 | 1,073.30 | 75.31 | -3.72 | 0.024 |
| 175.00 | -1.62 | -2.52 | 0.00 | -12.77 | 0.00 | 12.77 | 1,664.97 | 412.61 | 1,104.26 | 1,014.48 | 78.44 | -3.73 | 0.014 |
| 178.50 | 0.00 | -2.41 | 0.00 | -3.93 | 0.00 | 3.93 | 1,630.52 | 400.36 | 1,039.66 | 963.73 | 81.17 | -3.74 | 0.004 |

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.00 in Radial Ice 23 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

## Applied Segment Forces Summary

| | | Shaft Forces | | Discrete Forces | | | | Linear Forces | | Sum of Forces | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seg Elev (ft) | Description | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 86.5 | 0.0 | | | | | 0.0 | 0.0 | 86.5 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 171.6 | 2,357.2 | | | | | 0.0 | 633.9 | 171.6 | 2,991.1 | 0.0 | 0.0 |
| 10.00 | | 169.0 | 2,355.4 | | | | | 0.0 | 652.0 | 169.0 | 3,007.4 | 0.0 | 0.0 |
| 15.00 | | 166.2 | 2,332.8 | | | | | 0.0 | 661.3 | 166.2 | 2,994.1 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 163.3 | 2,303.4 | 16.9 | 0.0 | 0.0 | 127.6 | 0.0 | 667.8 | 180.2 | 3,098.8 | 0.0 | 0.0 |
| 25.00 | | 160.4 | 2,270.5 | | | | | 0.0 | 668.6 | 160.4 | 2,939.1 | 0.0 | 0.0 |
| 30.00 | | 159.4 | 2,235.4 | | | | | 0.0 | 672.6 | 159.4 | 2,908.0 | 0.0 | 0.0 |
| 35.00 | | 161.6 | 2,198.8 | | | | | 0.0 | 676.0 | 161.6 | 2,874.8 | 0.0 | 0.0 |
| 40.00 | | 164.7 | 2,161.0 | | | | | 0.0 | 679.0 | 164.7 | 2,840.1 | 0.0 | 0.0 |
| 45.00 | Bot - Section 2 | 168.1 | 2,122.4 | | | | | 0.0 | 681.7 | 168.1 | 2,804.1 | 0.0 | 0.0 |
| 50.00 | | 136.5 | 3,556.5 | | | | | 0.0 | 684.1 | 136.5 | 4,240.6 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 85.8 | 2,101.2 | | | | | 0.0 | 411.5 | 85.8 | 2,512.7 | 0.0 | 0.0 |
| 55.00 | | 120.7 | 729.4 | | | | | 0.0 | 274.7 | 120.7 | 1,004.2 | 0.0 | 0.0 |
| 60.00 | | 172.9 | 1,796.3 | | | | | 0.0 | 688.3 | 172.9 | 2,484.6 | 0.0 | 0.0 |
| 65.00 | | 173.2 | 1,760.7 | | | | | 0.0 | 690.1 | 173.2 | 2,450.8 | 0.0 | 0.0 |
| 70.00 | | 173.2 | 1,724.7 | | | | | 0.0 | 691.8 | 173.2 | 2,416.6 | 0.0 | 0.0 |
| 75.00 | | 172.8 | 1,688.4 | | | | | 0.0 | 693.5 | 172.8 | 2,381.9 | 0.0 | 0.0 |
| 80.00 | | 172.1 | 1,651.8 | | | | | 0.0 | 695.0 | 172.1 | 2,346.9 | 0.0 | 0.0 |
| 85.00 | | 171.1 | 1,615.0 | | | | | 0.0 | 696.5 | 171.1 | 2,311.5 | 0.0 | 0.0 |
| 90.00 | | 109.3 | 1,578.0 | | | | | 0.0 | 697.8 | 109.3 | 2,275.8 | 0.0 | 0.0 |
| 91.42 | Bot - Section 3 | 85.4 | 441.2 | | | | | 0.0 | 198.0 | 85.4 | 639.2 | 0.0 | 0.0 |
| 95.00 | | 112.3 | 1,824.6 | | | | | 0.0 | 501.2 | 112.3 | 2,325.8 | 0.0 | 0.0 |
| 98.00 | Top - Section 2 | 84.9 | 1,503.1 | | | | | 0.0 | 420.1 | 84.9 | 1,923.1 | 0.0 | 0.0 |
| 100.00 | | 117.8 | 528.2 | | | | | 0.0 | 280.3 | 117.8 | 808.5 | 0.0 | 0.0 |
| 105.00 | | 133.9 | 1,295.2 | | | | | 0.0 | 701.6 | 133.9 | 1,996.7 | 0.0 | 0.0 |
| 108.00 | Appurtenance(s) | 83.0 | 762.5 | 971.9 | 0.0 | 0.0 | 6,501.6 | 0.0 | 421.5 | 1,054.9 | 7,685.6 | 0.0 | 0.0 |
| 110.00 | | 115.0 | 502.1 | | | | | 0.0 | 281.2 | 115.0 | 783.4 | 0.0 | 0.0 |
| 115.00 | | 130.6 | 1,229.7 | | | | | 0.7 | 703.8 | 131.2 | 1,933.5 | 0.0 | 0.0 |
| 118.00 | Appurtenance(s) | 80.8 | 723.1 | 199.6 | 0.0 | 798.4 | 876.1 | 0.9 | 417.5 | 281.3 | 2,016.7 | 0.0 | 0.0 |
| 120.00 | Appurtenance(s) | 64.1 | 475.8 | 237.9 | 0.0 | 0.0 | 2,129.9 | 0.9 | 257.5 | 302.8 | 2,863.2 | 0.0 | 0.0 |
| 122.00 | Appurtenance(s) | 79.5 | 470.5 | 89.8 | 0.0 | 0.0 | 1,039.8 | 1.0 | 257.6 | 170.3 | 1,767.9 | 0.0 | 0.0 |
| 125.00 | | 94.7 | 695.3 | | | | | 1.9 | 386.6 | 96.6 | 1,081.9 | 0.0 | 0.0 |
| 128.00 | Appurtenance(s) | 78.2 | 683.3 | 98.4 | 0.0 | 0.0 | 241.7 | 2.3 | 386.9 | 178.9 | 1,311.9 | 0.0 | 0.0 |
| 130.00 | | 107.9 | 449.3 | | | | | 1.8 | 219.4 | 109.7 | 668.6 | 0.0 | 0.0 |
| 135.00 | | 122.2 | 1,097.1 | | | | | 5.3 | 548.8 | 127.5 | 1,645.9 | 0.0 | 0.0 |
| 138.00 | Appurtenance(s) | 65.4 | 643.3 | 934.8 | 0.0 | -399.6 | 7,131.5 | 3.8 | 329.6 | 1,004.0 | 8,104.4 | 0.0 | 0.0 |
| 139.33 | Bot - Section 4 | 30.1 | 282.5 | | | | | 1.8 | 119.6 | 31.9 | 402.1 | 0.0 | 0.0 |
| 140.00 | | 76.2 | 224.1 | | | | | 0.9 | 59.8 | 77.1 | 283.9 | 0.0 | 0.0 |
| 144.42 | Top - Section 3 | 74.7 | 1,457.4 | | | | | 6.8 | 396.6 | 81.5 | 1,853.9 | 0.0 | 0.0 |
| 145.00 | | 52.7 | 103.1 | | | | | 0.9 | 52.4 | 53.6 | 155.5 | 0.0 | 0.0 |
| 148.00 | Appurtenance(s) | 73.1 | 522.7 | 948.5 | 0.0 | 20.8 | 7,540.9 | 5.0 | 269.6 | 1,026.6 | 8,333.2 | 0.0 | 0.0 |
| 150.00 | | 100.5 | 343.1 | | | | | 0.0 | 111.2 | 100.5 | 454.3 | 0.0 | 0.0 |
| 155.00 | | 141.2 | 835.0 | | | | | 0.0 | 278.1 | 141.2 | 1,113.1 | 0.0 | 0.0 |
| 160.00 | Appurtenance(s) | 137.7 | 806.3 | 1,190.0 | 0.0 | -59.7 | 8,966.4 | 0.0 | 278.2 | 1,327.7 | 10,050.9 | 0.0 | 0.0 |
| 165.00 | Appurtenance(s) | 94.6 | 777.5 | 18.3 | 0.0 | 0.0 | 47.6 | 0.0 | 108.3 | 112.9 | 933.4 | 0.0 | 0.0 |
| 167.00 | Appurtenance(s) | 66.1 | 304.0 | 101.5 | 0.0 | 0.0 | 920.7 | 0.0 | 30.3 | 167.7 | 1,255.1 | 0.0 | 0.0 |
| 170.00 | | 52.5 | 446.8 | | | | | 0.0 | 45.5 | 52.5 | 492.4 | 0.0 | 0.0 |
| 171.00 | Appurtenance(s) | 64.2 | 147.0 | 199.6 | 0.0 | -598.7 | 665.6 | 0.0 | 15.2 | 263.8 | 827.7 | 0.0 | 0.0 |

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.00 in Radial Ice 23 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 175.00 | | 95.1 | 574.2 | | | | | 0.0 | 47.2 | 95.1 | 621.4 | 0.0 | 0.0 |
| 178.50 | Appurtenance(s) | 43.8 | 487.5 | 304.0 | 0.0 | 0.0 | 2,147.0 | 0.0 | 41.3 | 347.9 | 2,675.8 | 0.0 | 0.0 |
| | | | | | | | | Totals: | | 11,061.8 | 117,892. | 0.00 | 0.00 |

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.00 in Radial Ice 23 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

## Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -118.92 | -11.21 | 0.00 | -1,360.90 | 0.00 | 1,360.90 | 6,201.63 | 1,743.94 | 11,271.7 | 9,147.40 | 0.00 | 0.00 | 0.168 |
| 5.00 | -115.92 | -11.09 | 0.00 | -1,304.88 | 0.00 | 1,304.88 | 6,145.05 | 1,713.31 | 10,879.2 | 8,903.77 | 0.02 | -0.03 | 0.165 |
| 10.00 | -112.91 | -10.98 | 0.00 | -1,249.41 | 0.00 | 1,249.41 | 6,086.60 | 1,682.68 | 10,493.7 | 8,660.43 | 0.06 | -0.06 | 0.163 |
| 15.00 | -109.91 | -10.87 | 0.00 | -1,194.51 | 0.00 | 1,194.51 | 6,026.28 | 1,652.04 | 10,115.2 | 8,417.51 | 0.14 | -0.09 | 0.160 |
| 20.00 | -106.81 | -10.74 | 0.00 | -1,140.17 | 0.00 | 1,140.17 | 5,964.08 | 1,621.41 | 9,743.60 | 8,175.18 | 0.25 | -0.12 | 0.157 |
| 25.00 | -103.86 | -10.63 | 0.00 | -1,086.47 | 0.00 | 1,086.47 | 5,900.01 | 1,590.78 | 9,378.96 | 7,933.57 | 0.39 | -0.15 | 0.155 |
| 30.00 | -100.95 | -10.52 | 0.00 | -1,033.33 | 0.00 | 1,033.33 | 5,834.07 | 1,560.15 | 9,021.26 | 7,692.84 | 0.57 | -0.18 | 0.152 |
| 35.00 | -98.07 | -10.40 | 0.00 | -980.76 | 0.00 | 980.76 | 5,766.26 | 1,529.51 | 8,670.52 | 7,453.12 | 0.77 | -0.21 | 0.149 |
| 40.00 | -95.22 | -10.27 | 0.00 | -928.77 | 0.00 | 928.77 | 5,696.58 | 1,498.88 | 8,326.74 | 7,214.56 | 1.01 | -0.24 | 0.145 |
| 45.00 | -92.42 | -10.14 | 0.00 | -877.41 | 0.00 | 877.41 | 5,625.02 | 1,468.25 | 7,989.90 | 6,977.32 | 1.29 | -0.28 | 0.142 |
| 50.00 | -88.17 | -10.02 | 0.00 | -826.70 | 0.00 | 826.70 | 5,551.60 | 1,437.62 | 7,660.03 | 6,741.53 | 1.59 | -0.31 | 0.139 |
| 53.00 | -85.66 | -9.95 | 0.00 | -796.62 | 0.00 | 796.62 | 4,466.37 | 1,233.46 | 6,578.51 | 5,434.80 | 1.79 | -0.33 | 0.166 |
| 55.00 | -84.65 | -9.86 | 0.00 | -776.73 | 0.00 | 776.73 | 4,445.78 | 1,222.96 | 6,466.97 | 5,363.40 | 1.93 | -0.34 | 0.164 |
| 60.00 | -82.16 | -9.72 | 0.00 | -727.44 | 0.00 | 727.44 | 4,392.99 | 1,196.70 | 6,192.29 | 5,185.21 | 2.30 | -0.37 | 0.159 |
| 65.00 | -79.70 | -9.58 | 0.00 | -678.84 | 0.00 | 678.84 | 4,338.33 | 1,170.45 | 5,923.57 | 5,007.61 | 2.72 | -0.41 | 0.154 |
| 70.00 | -77.28 | -9.44 | 0.00 | -630.95 | 0.00 | 630.95 | 4,281.80 | 1,144.19 | 5,660.81 | 4,830.75 | 3.16 | -0.44 | 0.149 |
| 75.00 | -74.90 | -9.29 | 0.00 | -583.77 | 0.00 | 583.77 | 4,223.39 | 1,117.93 | 5,404.01 | 4,654.77 | 3.65 | -0.48 | 0.143 |
| 80.00 | -72.55 | -9.14 | 0.00 | -537.33 | 0.00 | 537.33 | 4,163.12 | 1,091.68 | 5,153.18 | 4,479.82 | 4.17 | -0.51 | 0.137 |
| 85.00 | -70.23 | -8.99 | 0.00 | -491.63 | 0.00 | 491.63 | 4,100.97 | 1,065.42 | 4,908.30 | 4,306.05 | 4.73 | -0.55 | 0.131 |
| 90.00 | -67.95 | -8.88 | 0.00 | -446.68 | 0.00 | 446.68 | 4,036.95 | 1,039.16 | 4,669.38 | 4,133.61 | 5.32 | -0.58 | 0.125 |
| 91.42 | -67.31 | -8.81 | 0.00 | -434.10 | 0.00 | 434.10 | 4,018.47 | 1,031.72 | 4,602.78 | 4,085.01 | 5.50 | -0.59 | 0.123 |
| 95.00 | -64.98 | -8.70 | 0.00 | -402.53 | 0.00 | 402.53 | 3,971.06 | 1,012.91 | 4,436.43 | 3,962.63 | 5.95 | -0.62 | 0.118 |
| 98.00 | -63.06 | -8.61 | 0.00 | -376.44 | 0.00 | 376.44 | 3,074.73 | 842.93 | 3,686.72 | 3,067.88 | 6.34 | -0.63 | 0.143 |
| 100.00 | -62.25 | -8.51 | 0.00 | -359.23 | 0.00 | 359.23 | 3,057.08 | 834.18 | 3,610.56 | 3,018.39 | 6.61 | -0.65 | 0.139 |
| 105.00 | -60.25 | -8.38 | 0.00 | -316.68 | 0.00 | 316.68 | 3,011.64 | 812.29 | 3,423.66 | 2,895.03 | 7.31 | -0.68 | 0.130 |
| 108.00 | -52.58 | -7.25 | 0.00 | -291.54 | 0.00 | 291.54 | 2,983.48 | 799.17 | 3,313.90 | 2,821.30 | 7.74 | -0.70 | 0.121 |
| 110.00 | -51.79 | -7.14 | 0.00 | -277.05 | 0.00 | 277.05 | 2,964.33 | 790.41 | 3,241.72 | 2,772.28 | 8.04 | -0.72 | 0.117 |
| 115.00 | -49.86 | -7.01 | 0.00 | -241.33 | 0.00 | 241.33 | 2,915.15 | 768.53 | 3,064.74 | 2,650.30 | 8.81 | -0.75 | 0.108 |
| 118.00 | -47.84 | -6.71 | 0.00 | -219.51 | 0.00 | 219.51 | 2,884.74 | 755.41 | 2,960.94 | 2,577.54 | 9.28 | -0.77 | 0.102 |
| 120.00 | -44.98 | -6.38 | 0.00 | -206.08 | 0.00 | 206.08 | 2,864.09 | 746.65 | 2,892.74 | 2,529.23 | 9.61 | -0.78 | 0.097 |
| 122.00 | -43.21 | -6.20 | 0.00 | -193.32 | 0.00 | 193.32 | 2,843.15 | 737.90 | 2,825.33 | 2,481.09 | 9.94 | -0.79 | 0.093 |
| 125.00 | -42.13 | -6.10 | 0.00 | -174.72 | 0.00 | 174.72 | 2,811.17 | 724.77 | 2,725.70 | 2,409.22 | 10.44 | -0.81 | 0.088 |
| 128.00 | -40.82 | -5.91 | 0.00 | -156.43 | 0.00 | 156.43 | 2,778.51 | 711.65 | 2,627.86 | 2,337.78 | 10.95 | -0.82 | 0.082 |
| 130.00 | -40.15 | -5.80 | 0.00 | -144.61 | 0.00 | 144.61 | 2,756.37 | 702.89 | 2,563.63 | 2,290.41 | 11.30 | -0.83 | 0.078 |
| 135.00 | -38.51 | -5.66 | 0.00 | -115.61 | 0.00 | 115.61 | 2,699.70 | 681.01 | 2,406.52 | 2,172.95 | 12.18 | -0.85 | 0.068 |
| 138.00 | -30.42 | -4.54 | 0.00 | -98.62 | 0.00 | 98.62 | 2,664.80 | 667.88 | 2,314.65 | 2,103.19 | 12.72 | -0.87 | 0.058 |
| 139.33 | -30.02 | -4.50 | 0.00 | -92.57 | 0.00 | 92.57 | 2,649.07 | 662.05 | 2,274.38 | 2,072.36 | 12.96 | -0.87 | 0.056 |
| 140.00 | -29.73 | -4.43 | 0.00 | -89.57 | 0.00 | 89.57 | 2,641.16 | 659.13 | 2,254.39 | 2,056.99 | 13.08 | -0.87 | 0.055 |
| 144.42 | -27.88 | -4.32 | 0.00 | -70.01 | 0.00 | 70.01 | 1,927.04 | 519.68 | 1,751.62 | 1,481.39 | 13.90 | -0.89 | 0.062 |
| 145.00 | -27.72 | -4.27 | 0.00 | -67.49 | 0.00 | 67.49 | 1,922.70 | 517.63 | 1,737.88 | 1,472.21 | 14.01 | -0.89 | 0.060 |
| 148.00 | -19.41 | -3.11 | 0.00 | -54.67 | 0.00 | 54.67 | 1,899.96 | 507.13 | 1,668.08 | 1,425.08 | 14.57 | -0.90 | 0.049 |
| 150.00 | -18.96 | -3.01 | 0.00 | -48.44 | 0.00 | 48.44 | 1,884.42 | 500.13 | 1,622.34 | 1,393.78 | 14.95 | -0.91 | 0.045 |
| 155.00 | -17.84 | -2.85 | 0.00 | -33.39 | 0.00 | 33.39 | 1,844.28 | 482.63 | 1,510.78 | 1,316.02 | 15.90 | -0.92 | 0.035 |

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 1.00 in Radial Ice 23 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor :1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 160.00 | -7.82 | -1.37 | 0.00 | -19.12 | 0.00 | 19.12 | 1,802.26 | 465.12 | 1,403.19 | 1,239.06 | 16.87 | -0.93 | 0.020 |
| 165.00 | -6.88 | -1.24 | 0.00 | -12.29 | 0.00 | 12.29 | 1,758.37 | 447.62 | 1,299.57 | 1,163.05 | 17.85 | -0.93 | 0.014 |
| 167.00 | -5.63 | -1.05 | 0.00 | -9.81 | 0.00 | 9.81 | 1,740.29 | 440.62 | 1,259.24 | 1,132.94 | 18.24 | -0.94 | 0.012 |
| 170.00 | -5.14 | -0.99 | 0.00 | -6.66 | 0.00 | 6.66 | 1,712.61 | 430.11 | 1,199.93 | 1,088.14 | 18.83 | -0.94 | 0.009 |
| 171.00 | -4.32 | -0.71 | 0.00 | -5.67 | 0.00 | 5.67 | 1,703.23 | 426.61 | 1,180.48 | 1,073.30 | 19.02 | -0.94 | 0.008 |
| 175.00 | -3.70 | -0.61 | 0.00 | -2.82 | 0.00 | 2.82 | 1,664.97 | 412.61 | 1,104.26 | 1,014.48 | 19.81 | -0.94 | 0.005 |
| 178.50 | 0.00 | -0.55 | 0.00 | -0.70 | 0.00 | 0.70 | 1,630.52 | 400.36 | 1,039.66 | 963.73 | 20.50 | -0.94 | 0.001 |

Load Case: 1.0D + 1.0W Serviceability 60 mph 22 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

## Applied Segment Forces Summary

| | | Shaft Forces | | Discrete Forces | | | | Linear Forces | | Sum of Forces | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seg Elev (ft) | Description | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 66.3 | 0.0 | | | | | 0.0 | 0.0 | 66.3 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 131.5 | 1,675.8 | | | | | 0.0 | 365.9 | 131.5 | 2,041.7 | 0.0 | 0.0 |
| 10.00 | | 129.3 | 1,646.1 | | | | | 0.0 | 365.9 | 129.3 | 2,012.0 | 0.0 | 0.0 |
| 15.00 | | 127.8 | 1,616.4 | | | | | 0.0 | 365.9 | 127.8 | 1,982.3 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 126.9 | 1,586.7 | 15.6 | 0.0 | 0.0 | 75.6 | 0.0 | 365.9 | 142.5 | 2,028.2 | 0.0 | 0.0 |
| 25.00 | | 126.0 | 1,557.0 | | | | | 0.0 | 365.2 | 126.0 | 1,922.2 | 0.0 | 0.0 |
| 30.00 | | 126.6 | 1,527.3 | | | | | 0.0 | 365.2 | 126.6 | 1,892.5 | 0.0 | 0.0 |
| 35.00 | | 129.9 | 1,497.6 | | | | | 0.0 | 365.2 | 129.9 | 1,862.8 | 0.0 | 0.0 |
| 40.00 | | 134.0 | 1,467.9 | | | | | 0.0 | 365.2 | 134.0 | 1,833.1 | 0.0 | 0.0 |
| 45.00 | Bot - Section 2 | 138.6 | 1,438.2 | | | | | 0.0 | 365.2 | 138.6 | 1,803.4 | 0.0 | 0.0 |
| 50.00 | | 113.7 | 2,632.3 | | | | | 0.0 | 365.2 | 113.7 | 2,997.5 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 71.9 | 1,552.9 | | | | | 0.0 | 219.1 | 71.9 | 1,772.0 | 0.0 | 0.0 |
| 55.00 | | 101.7 | 476.3 | | | | | 0.0 | 146.1 | 101.7 | 622.3 | 0.0 | 0.0 |
| 60.00 | | 147.1 | 1,172.9 | | | | | 0.0 | 365.2 | 147.1 | 1,538.0 | 0.0 | 0.0 |
| 65.00 | | 149.5 | 1,147.4 | | | | | 0.0 | 365.2 | 149.5 | 1,512.6 | 0.0 | 0.0 |
| 70.00 | | 151.7 | 1,122.0 | | | | | 0.0 | 365.2 | 151.7 | 1,487.1 | 0.0 | 0.0 |
| 75.00 | | 153.7 | 1,096.5 | | | | | 0.0 | 365.2 | 153.7 | 1,461.7 | 0.0 | 0.0 |
| 80.00 | | 155.5 | 1,071.1 | | | | | 0.0 | 365.2 | 155.5 | 1,436.2 | 0.0 | 0.0 |
| 85.00 | | 157.3 | 1,045.6 | | | | | 0.0 | 365.2 | 157.3 | 1,410.8 | 0.0 | 0.0 |
| 90.00 | | 101.6 | 1,020.1 | | | | | 0.0 | 365.2 | 101.6 | 1,385.3 | 0.0 | 0.0 |
| 91.42 | Bot - Section 3 | 80.5 | 284.4 | | | | | 0.0 | 103.5 | 80.5 | 387.9 | 0.0 | 0.0 |
| 95.00 | | 106.9 | 1,310.5 | | | | | 0.0 | 261.7 | 106.9 | 1,572.2 | 0.0 | 0.0 |
| 98.00 | Top - Section 2 | 81.3 | 1,078.7 | | | | | 0.0 | 219.1 | 81.3 | 1,297.8 | 0.0 | 0.0 |
| 100.00 | | 113.9 | 325.2 | | | | | 0.0 | 146.1 | 113.9 | 471.2 | 0.0 | 0.0 |
| 105.00 | | 130.6 | 798.1 | | | | | 0.0 | 365.2 | 130.6 | 1,163.2 | 0.0 | 0.0 |
| 108.00 | Appurtenance(s) | 82.1 | 468.7 | 486.5 | 0.0 | 0.0 | 1,835.0 | 0.0 | 219.1 | 568.6 | 2,522.8 | 0.0 | 0.0 |
| 110.00 | | 115.6 | 308.2 | | | | | 0.0 | 146.1 | 115.6 | 454.3 | 0.0 | 0.0 |
| 115.00 | | 132.6 | 755.7 | | | | | 0.0 | 365.2 | 132.6 | 1,120.8 | 0.0 | 0.0 |
| 118.00 | Appurtenance(s) | 83.3 | 443.2 | 209.9 | 0.0 | 839.5 | 336.3 | 0.0 | 217.1 | 293.2 | 996.6 | 0.0 | 0.0 |
| 120.00 | Appurtenance(s) | 66.9 | 291.2 | 194.3 | 0.0 | 0.0 | 1,500.0 | 0.0 | 138.1 | 261.1 | 1,929.3 | 0.0 | 0.0 |
| 122.00 | Appurtenance(s) | 83.9 | 287.8 | 91.8 | 0.0 | 0.0 | 549.0 | 0.0 | 138.1 | 175.7 | 974.9 | 0.0 | 0.0 |
| 125.00 | | 101.0 | 425.4 | | | | | 0.0 | 207.1 | 101.0 | 632.5 | 0.0 | 0.0 |
| 128.00 | Appurtenance(s) | 84.4 | 417.8 | 96.8 | 0.0 | 0.0 | 80.2 | 0.0 | 207.1 | 181.3 | 705.1 | 0.0 | 0.0 |
| 130.00 | | 118.7 | 274.3 | | | | | 0.0 | 127.6 | 118.7 | 401.8 | 0.0 | 0.0 |
| 135.00 | | 135.0 | 670.8 | | | | | 0.0 | 318.9 | 135.0 | 989.7 | 0.0 | 0.0 |
| 138.00 | Appurtenance(s) | 72.1 | 392.3 | 947.9 | 0.0 | -428.1 | 3,943.7 | 0.1 | 191.3 | 1,020.1 | 4,527.3 | 0.0 | 0.0 |
| 139.33 | Bot - Section 4 | 33.1 | 171.9 | | | | | 0.0 | 68.5 | 33.2 | 240.4 | 0.0 | 0.0 |
| 140.00 | | 83.7 | 154.7 | | | | | 0.0 | 34.2 | 83.7 | 188.9 | 0.0 | 0.0 |
| 144.42 | Top - Section 3 | 82.1 | 1,007.8 | | | | | 0.2 | 226.8 | 82.3 | 1,234.6 | 0.0 | 0.0 |
| 145.00 | | 57.7 | 58.7 | | | | | 0.0 | 29.9 | 57.8 | 88.6 | 0.0 | 0.0 |
| 148.00 | Appurtenance(s) | 69.7 | 298.0 | 982.7 | 0.0 | 15.1 | 4,262.8 | 0.2 | 154.0 | 1,052.5 | 4,714.9 | 0.0 | 0.0 |
| 150.00 | | 74.0 | 195.3 | | | | | 0.0 | 84.8 | 74.0 | 280.1 | 0.0 | 0.0 |
| 155.00 | | 103.8 | 476.4 | | | | | 0.0 | 212.1 | 103.8 | 688.5 | 0.0 | 0.0 |
| 160.00 | Appurtenance(s) | 101.0 | 459.4 | 1,213.3 | 0.0 | -59.8 | 4,762.5 | 0.0 | 212.1 | 1,314.3 | 5,434.0 | 0.0 | 0.0 |
| 165.00 | Appurtenance(s) | 69.3 | 442.4 | 17.6 | 0.0 | 0.0 | 15.0 | 0.0 | 70.5 | 86.9 | 527.9 | 0.0 | 0.0 |
| 167.00 | Appurtenance(s) | 48.3 | 172.2 | 83.6 | 0.0 | 0.0 | 560.0 | 0.0 | 20.9 | 131.9 | 753.1 | 0.0 | 0.0 |
| 170.00 | | 38.3 | 253.2 | | | | | 0.0 | 31.3 | 38.3 | 284.6 | 0.0 | 0.0 |
| 171.00 | Appurtenance(s) | 46.8 | 83.1 | 206.3 | 0.0 | -619.0 | 266.1 | 0.0 | 10.4 | 253.1 | 359.6 | 0.0 | 0.0 |

Load Case: 1.0D + 1.0W Serviceability 60 mph 22 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 175.00 | | 69.1 | 325.4 | | | | | 0.0 | 39.4 | 69.1 | 364.8 | 0.0 | 0.0 |
| 178.50 | Appurtenance(s) | 31.8 | 275.8 | 261.7 | 0.0 | 0.0 | 1,500.0 | 0.0 | 34.4 | 293.6 | 1,810.3 | 0.0 | 0.0 |
| | | | | | | | | Totals: | | 9,846.95 | 70,119.2 | 0.00 | 0.00 |

Load Case: 1.0D + 1.0W Serviceability 60 mph 22 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

## Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -70.28 | -10.05 | 0.00 | -1,225.62 | 0.00 | 1,225.62 | 6,201.63 | 1,743.94 | 11,271.7 | 9,147.40 | 0.00 | 0.00 | 0.145 |
| 5.00 | -68.24 | -9.95 | 0.00 | -1,175.36 | 0.00 | 1,175.36 | 6,145.05 | 1,713.31 | 10,879.2 | 8,903.77 | 0.01 | -0.03 | 0.143 |
| 10.00 | -66.22 | -9.85 | 0.00 | -1,125.60 | 0.00 | 1,125.60 | 6,086.60 | 1,682.68 | 10,493.7 | 8,660.43 | 0.06 | -0.05 | 0.141 |
| 15.00 | -64.24 | -9.75 | 0.00 | -1,076.34 | 0.00 | 1,076.34 | 6,026.28 | 1,652.04 | 10,115.2 | 8,417.51 | 0.13 | -0.08 | 0.139 |
| 20.00 | -62.20 | -9.64 | 0.00 | -1,027.58 | 0.00 | 1,027.58 | 5,964.08 | 1,621.41 | 9,743.60 | 8,175.18 | 0.23 | -0.11 | 0.136 |
| 25.00 | -60.28 | -9.54 | 0.00 | -979.40 | 0.00 | 979.40 | 5,900.01 | 1,590.78 | 9,378.96 | 7,933.57 | 0.35 | -0.14 | 0.134 |
| 30.00 | -58.38 | -9.43 | 0.00 | -931.72 | 0.00 | 931.72 | 5,834.07 | 1,560.15 | 9,021.26 | 7,692.84 | 0.51 | -0.16 | 0.131 |
| 35.00 | -56.51 | -9.32 | 0.00 | -884.56 | 0.00 | 884.56 | 5,766.26 | 1,529.51 | 8,670.52 | 7,453.12 | 0.70 | -0.19 | 0.129 |
| 40.00 | -54.68 | -9.21 | 0.00 | -837.94 | 0.00 | 837.94 | 5,696.58 | 1,498.88 | 8,326.74 | 7,214.56 | 0.91 | -0.22 | 0.126 |
| 45.00 | -52.87 | -9.09 | 0.00 | -791.88 | 0.00 | 791.88 | 5,625.02 | 1,468.25 | 7,989.90 | 6,977.32 | 1.16 | -0.25 | 0.123 |
| 50.00 | -49.87 | -8.98 | 0.00 | -746.43 | 0.00 | 746.43 | 5,551.60 | 1,437.62 | 7,660.03 | 6,741.53 | 1.43 | -0.28 | 0.120 |
| 53.00 | -48.09 | -8.92 | 0.00 | -719.48 | 0.00 | 719.48 | 4,466.37 | 1,233.46 | 6,578.51 | 5,434.80 | 1.61 | -0.29 | 0.143 |
| 55.00 | -47.47 | -8.83 | 0.00 | -701.65 | 0.00 | 701.65 | 4,445.78 | 1,222.96 | 6,466.97 | 5,363.40 | 1.74 | -0.31 | 0.142 |
| 60.00 | -45.93 | -8.70 | 0.00 | -657.50 | 0.00 | 657.50 | 4,392.99 | 1,196.70 | 6,192.29 | 5,185.21 | 2.08 | -0.34 | 0.137 |
| 65.00 | -44.41 | -8.56 | 0.00 | -614.01 | 0.00 | 614.01 | 4,338.33 | 1,170.45 | 5,923.57 | 5,007.61 | 2.45 | -0.37 | 0.133 |
| 70.00 | -42.92 | -8.43 | 0.00 | -571.19 | 0.00 | 571.19 | 4,281.80 | 1,144.19 | 5,660.81 | 4,830.75 | 2.85 | -0.40 | 0.128 |
| 75.00 | -41.45 | -8.29 | 0.00 | -529.06 | 0.00 | 529.06 | 4,223.39 | 1,117.93 | 5,404.01 | 4,654.77 | 3.29 | -0.43 | 0.124 |
| 80.00 | -40.01 | -8.14 | 0.00 | -487.63 | 0.00 | 487.63 | 4,163.12 | 1,091.68 | 5,153.18 | 4,479.82 | 3.76 | -0.46 | 0.119 |
| 85.00 | -38.60 | -7.99 | 0.00 | -446.93 | 0.00 | 446.93 | 4,100.97 | 1,065.42 | 4,908.30 | 4,306.05 | 4.27 | -0.50 | 0.113 |
| 90.00 | -37.21 | -7.89 | 0.00 | -406.98 | 0.00 | 406.98 | 4,036.95 | 1,039.16 | 4,669.38 | 4,133.61 | 4.80 | -0.53 | 0.108 |
| 91.42 | -36.82 | -7.82 | 0.00 | -395.80 | 0.00 | 395.80 | 4,018.47 | 1,031.72 | 4,602.78 | 4,085.01 | 4.96 | -0.53 | 0.106 |
| 95.00 | -35.25 | -7.71 | 0.00 | -367.79 | 0.00 | 367.79 | 3,971.06 | 1,012.91 | 4,436.43 | 3,962.63 | 5.37 | -0.56 | 0.102 |
| 98.00 | -33.95 | -7.62 | 0.00 | -344.67 | 0.00 | 344.67 | 3,074.73 | 842.93 | 3,686.72 | 3,067.88 | 5.72 | -0.57 | 0.123 |
| 100.00 | -33.48 | -7.52 | 0.00 | -329.43 | 0.00 | 329.43 | 3,057.08 | 834.18 | 3,610.56 | 3,018.39 | 5.97 | -0.59 | 0.120 |
| 105.00 | -32.31 | -7.39 | 0.00 | -291.85 | 0.00 | 291.85 | 3,011.64 | 812.29 | 3,423.66 | 2,895.03 | 6.60 | -0.62 | 0.112 |
| 108.00 | -29.80 | -6.80 | 0.00 | -269.69 | 0.00 | 269.69 | 2,983.48 | 799.17 | 3,313.90 | 2,821.30 | 6.99 | -0.64 | 0.106 |
| 110.00 | -29.34 | -6.69 | 0.00 | -256.10 | 0.00 | 256.10 | 2,964.33 | 790.41 | 3,241.72 | 2,772.28 | 7.26 | -0.65 | 0.102 |
| 115.00 | -28.22 | -6.55 | 0.00 | -222.66 | 0.00 | 222.66 | 2,915.15 | 768.53 | 3,064.74 | 2,650.30 | 7.96 | -0.68 | 0.094 |
| 118.00 | -27.22 | -6.26 | 0.00 | -202.15 | 0.00 | 202.15 | 2,884.74 | 755.41 | 2,960.94 | 2,577.54 | 8.39 | -0.69 | 0.088 |
| 120.00 | -25.30 | -5.98 | 0.00 | -189.64 | 0.00 | 189.64 | 2,864.09 | 746.65 | 2,892.74 | 2,529.23 | 8.68 | -0.71 | 0.084 |
| 122.00 | -24.32 | -5.79 | 0.00 | -177.69 | 0.00 | 177.69 | 2,843.15 | 737.90 | 2,825.33 | 2,481.09 | 8.98 | -0.72 | 0.080 |
| 125.00 | -23.69 | -5.69 | 0.00 | -160.31 | 0.00 | 160.31 | 2,811.17 | 724.77 | 2,725.70 | 2,409.22 | 9.44 | -0.73 | 0.075 |
| 128.00 | -22.99 | -5.50 | 0.00 | -143.24 | 0.00 | 143.24 | 2,778.51 | 711.65 | 2,627.86 | 2,337.78 | 9.90 | -0.75 | 0.070 |
| 130.00 | -22.59 | -5.39 | 0.00 | -132.23 | 0.00 | 132.23 | 2,756.37 | 702.89 | 2,563.63 | 2,290.41 | 10.21 | -0.75 | 0.066 |
| 135.00 | -21.60 | -5.24 | 0.00 | -105.30 | 0.00 | 105.30 | 2,699.70 | 681.01 | 2,406.52 | 2,172.95 | 11.02 | -0.78 | 0.057 |
| 138.00 | -17.08 | -4.17 | 0.00 | -89.56 | 0.00 | 89.56 | 2,664.80 | 667.88 | 2,314.65 | 2,103.19 | 11.51 | -0.79 | 0.049 |
| 139.33 | -16.84 | -4.13 | 0.00 | -84.01 | 0.00 | 84.01 | 2,649.07 | 662.05 | 2,274.38 | 2,072.36 | 11.73 | -0.79 | 0.047 |
| 140.00 | -16.65 | -4.05 | 0.00 | -81.26 | 0.00 | 81.26 | 2,641.16 | 659.13 | 2,254.39 | 2,056.99 | 11.84 | -0.79 | 0.046 |
| 144.42 | -15.42 | -3.95 | 0.00 | -63.39 | 0.00 | 63.39 | 1,927.04 | 519.68 | 1,751.62 | 1,481.39 | 12.58 | -0.81 | 0.051 |
| 145.00 | -15.33 | -3.89 | 0.00 | -61.08 | 0.00 | 61.08 | 1,922.70 | 517.63 | 1,737.88 | 1,472.21 | 12.68 | -0.81 | 0.050 |
| 148.00 | -10.63 | -2.77 | 0.00 | -49.40 | 0.00 | 49.40 | 1,899.96 | 507.13 | 1,668.08 | 1,425.08 | 13.19 | -0.82 | 0.040 |
| 150.00 | -10.35 | -2.70 | 0.00 | -43.85 | 0.00 | 43.85 | 1,884.42 | 500.13 | 1,622.34 | 1,393.78 | 13.53 | -0.82 | 0.037 |
| 155.00 | -9.67 | -2.58 | 0.00 | -30.37 | 0.00 | 30.37 | 1,844.28 | 482.63 | 1,510.78 | 1,316.02 | 14.40 | -0.83 | 0.028 |

Load Case: 1.0D + 1.0W Serviceability 60 mph 22 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 160.00 | -4.25 | -1.19 | 0.00 | -17.45 | 0.00 | 17.45 | 1,802.26 | 465.12 | 1,403.19 | 1,239.06 | 15.28 | -0.84 | 0.016 |
| 165.00 | -3.72 | -1.10 | 0.00 | -11.49 | 0.00 | 11.49 | 1,758.37 | 447.62 | 1,299.57 | 1,163.05 | 16.16 | -0.85 | 0.012 |
| 167.00 | -2.97 | -0.95 | 0.00 | -9.30 | 0.00 | 9.30 | 1,740.29 | 440.62 | 1,259.24 | 1,132.94 | 16.52 | -0.85 | 0.010 |
| 170.00 | -2.69 | -0.91 | 0.00 | -6.44 | 0.00 | 6.44 | 1,712.61 | 430.11 | 1,199.93 | 1,088.14 | 17.05 | -0.85 | 0.007 |
| 171.00 | -2.33 | -0.65 | 0.00 | -5.53 | 0.00 | 5.53 | 1,703.23 | 426.61 | 1,180.48 | 1,073.30 | 17.23 | -0.85 | 0.007 |
| 175.00 | -1.97 | -0.58 | 0.00 | -2.92 | 0.00 | 2.92 | 1,664.97 | 412.61 | 1,104.26 | 1,014.48 | 17.95 | -0.85 | 0.004 |
| 178.50 | 0.00 | -0.55 | 0.00 | -0.89 | 0.00 | 0.89 | 1,630.52 | 400.36 | 1,039.66 | 963.73 | 18.57 | -0.85 | 0.001 |

## Equivalent Lateral Forces Method Analysis

| | |
|---|---|
| Spectral Response Acceleration for Short Period ($S_s$): | 0.20 |
| Spectral Response Acceleration at 1.0 Second Period ($S_1$): | 0.05 |
| Long-Period Transition Period ($T_L$): | 6 |
| Importance Factor ($I_E$): | 1.00 |
| Site Coefficient $F_a$: | 1.60 |
| Site Coeffiecient $F_v$: | 2.40 |
| Response Modification Coefficient (R): | 1.50 |
| Design Spectral Response Acceleration at Short Period ($S_{ds}$): | 0.22 |
| Design Spectral Response Acceleration at 1.0 Second Period ($S_{d1}$): | 0.09 |
| Seismic Response Coefficient ($C_s$): | 0.03 |
| Upper Limit $C_s$ | 0.03 |
| Lower Limit $C_s$ | 0.03 |
| Period based on Rayleigh Method (sec): | 2.36 |
| Redundancy Factor (p): | 1.00 |
| Seismic Force Distribution Exponent (k): | 1.93 |
| Total Unfactored Dead Load: | 70.29 k |
| Seismic Base Shear (E): | 2.11 k |

Load Case 1.2D + 1.0Ev + 1.0Eh Seismic

| Segment | Height Above Base (ft) | Weight (lb) | $W_z$ (lb-ft) | $C_{vx}$ | Horizontal Force (lb) | Vertical Force (lb) |
|---|---|---|---|---|---|---|
| 49 | 176.75 | 310 | 6,786 | 0.012 | 25 | 386 |
| 48 | 173.00 | 365 | 7,654 | 0.014 | 29 | 454 |
| 47 | 170.50 | 93 | 1,907 | 0.003 | 7 | 116 |
| 46 | 168.50 | 285 | 5,674 | 0.010 | 21 | 354 |
| 45 | 166.00 | 193 | 3,741 | 0.007 | 14 | 240 |
| 44 | 162.50 | 513 | 9,536 | 0.017 | 36 | 638 |
| 43 | 157.50 | 671 | 11,754 | 0.021 | 44 | 835 |
| 42 | 152.50 | 688 | 11,323 | 0.020 | 42 | 856 |
| 41 | 149.00 | 280 | 4,405 | 0.008 | 17 | 348 |
| 40 | 146.50 | 452 | 6,880 | 0.012 | 26 | 562 |
| 39 | 144.71 | 89 | 1,317 | 0.002 | 5 | 110 |
| 38 | 142.21 | 1,235 | 17,742 | 0.032 | 67 | 1,535 |
| 37 | 139.67 | 189 | 2,622 | 0.005 | 10 | 235 |
| 36 | 138.67 | 240 | 3,290 | 0.006 | 12 | 299 |
| 35 | 136.50 | 584 | 7,750 | 0.014 | 29 | 726 |
| 34 | 132.50 | 990 | 12,408 | 0.022 | 47 | 1,231 |
| 33 | 129.00 | 402 | 4,784 | 0.009 | 18 | 500 |
| 32 | 126.50 | 625 | 7,163 | 0.013 | 27 | 777 |
| 31 | 123.50 | 632 | 6,922 | 0.012 | 26 | 787 |
| 30 | 121.00 | 426 | 4,481 | 0.008 | 17 | 530 |
| 29 | 119.00 | 429 | 4,373 | 0.008 | 16 | 534 |
| 28 | 116.50 | 660 | 6,457 | 0.011 | 24 | 821 |
| 27 | 112.50 | 1,121 | 10,244 | 0.018 | 38 | 1,394 |
| 26 | 109.00 | 454 | 3,906 | 0.007 | 15 | 565 |
| 25 | 106.50 | 688 | 5,655 | 0.010 | 21 | 855 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 24 | 102.50 | 1,163 | 8,883 | 0.016 | 33 | 1,447 |
| 23 | 99.00 | 471 | 3,365 | 0.006 | 13 | 586 |
| 22 | 96.50 | 1,298 | 8,821 | 0.016 | 33 | 1,614 |
| 21 | 93.21 | 1,572 | 9,993 | 0.018 | 37 | 1,955 |
| 20 | 90.71 | 388 | 2,339 | 0.004 | 9 | 482 |
| 19 | 87.50 | 1,385 | 7,793 | 0.014 | 29 | 1,723 |
| 18 | 82.50 | 1,411 | 7,084 | 0.013 | 27 | 1,755 |
| 17 | 77.50 | 1,436 | 6,392 | 0.011 | 24 | 1,786 |
| 16 | 72.50 | 1,462 | 5,719 | 0.010 | 21 | 1,818 |
| 15 | 67.50 | 1,487 | 5,069 | 0.009 | 19 | 1,850 |
| 14 | 62.50 | 1,513 | 4,443 | 0.008 | 17 | 1,881 |
| 13 | 57.50 | 1,538 | 3,846 | 0.007 | 14 | 1,913 |
| 12 | 54.00 | 622 | 1,379 | 0.002 | 5 | 774 |
| 11 | 51.50 | 1,772 | 3,582 | 0.006 | 13 | 2,204 |
| 10 | 47.50 | 2,997 | 5,183 | 0.009 | 19 | 3,728 |
| 9 | 42.50 | 1,803 | 2,516 | 0.004 | 9 | 2,243 |
| 8 | 37.50 | 1,833 | 2,008 | 0.004 | 8 | 2,280 |
| 7 | 32.50 | 1,863 | 1,548 | 0.003 | 6 | 2,317 |
| 6 | 27.50 | 1,892 | 1,139 | 0.002 | 4 | 2,354 |
| 5 | 22.50 | 1,922 | 785 | 0.001 | 3 | 2,391 |
| 4 | 17.50 | 1,953 | 491 | 0.001 | 2 | 2,429 |
| 3 | 12.50 | 1,982 | 260 | 0.000 | 1 | 2,465 |
| 2 | 7.50 | 2,012 | 99 | 0.000 | 0 | 2,502 |
| 1 | 2.50 | 2,042 | 12 | 0.000 | 0 | 2,539 |
| Decibel DB844H90E-XY | 178.50 | 168 | 3,745 | 0.007 | 14 | 209 |
| Flat Low Profile Pla | 178.50 | 1,500 | 33,435 | 0.059 | 125 | 1,866 |
| DragonWave Horizon C | 171.00 | 21 | 435 | 0.001 | 2 | 26 |
| NextNet BTS-2500 | 171.00 | 105 | 2,154 | 0.004 | 8 | 131 |
| Argus LLPX310R | 171.00 | 86 | 1,760 | 0.003 | 7 | 107 |
| DragonWave A-ANT-11G | 171.00 | 27 | 554 | 0.001 | 2 | 34 |
| DragonWave A-ANT-18G | 171.00 | 27 | 556 | 0.001 | 2 | 34 |
| Side Arms | 167.00 | 560 | 10,976 | 0.020 | 41 | 696 |
| Generic 18" x 12" Ju | 165.00 | 15 | 287 | 0.001 | 1 | 19 |
| Powerwave Allgon 702 | 160.00 | 13 | 238 | 0.000 | 1 | 16 |
| Kaelus DBCT108F1V92- | 160.00 | 125 | 2,257 | 0.004 | 8 | 156 |
| Powerwave Allgon LGP | 160.00 | 85 | 1,527 | 0.003 | 6 | 105 |
| Raycap DC6-48-60-18- | 160.00 | 40 | 722 | 0.001 | 3 | 50 |
| Ericsson RRUS 4426 B | 160.00 | 145 | 2,620 | 0.005 | 10 | 181 |
| Ericsson RRUS 4478 B | 160.00 | 178 | 3,216 | 0.006 | 12 | 222 |
| Ericsson RRUS 4478 B | 160.00 | 168 | 3,037 | 0.005 | 11 | 209 |
| Ericsson RRUS 32 B2 | 160.00 | 159 | 2,869 | 0.005 | 11 | 198 |
| Ericsson RRUS 11 (Ba | 160.00 | 152 | 2,745 | 0.005 | 10 | 189 |
| Ericsson RRUS-32 (77 | 160.00 | 231 | 4,168 | 0.007 | 16 | 287 |
| Raycap DC6-48-60-18- | 160.00 | 16 | 289 | 0.001 | 1 | 20 |
| Powerwave Allgon 777 | 160.00 | 105 | 1,895 | 0.003 | 7 | 131 |
| Quintel QS66512-2 | 160.00 | 333 | 6,009 | 0.011 | 23 | 414 |
| CCI OPA-65R-LCUU-H6 | 160.00 | 219 | 3,952 | 0.007 | 15 | 272 |
| Kathrein Scala 80010 | 160.00 | 293 | 5,283 | 0.009 | 20 | 364 |
| Generic Flat Platfor | 160.00 | 2,500 | 45,111 | 0.080 | 169 | 3,109 |
| Ericsson KRY 112 144 | 148.00 | 33 | 512 | 0.001 | 2 | 41 |
| Ericsson Radio 4449 | 148.00 | 225 | 3,493 | 0.006 | 13 | 280 |
| Ericsson RRUS 4415 B | 148.00 | 138 | 2,142 | 0.004 | 8 | 172 |
| Ericsson Air6449 B41 | 148.00 | 312 | 4,843 | 0.009 | 18 | 388 |
| Ericsson AIR 21, 1.3 | 148.00 | 275 | 4,261 | 0.008 | 16 | 341 |
| Ericsson AIR32 B66Aa | 148.00 | 397 | 6,156 | 0.011 | 23 | 493 |
| RFS APXVAARR24_43-U- | 148.00 | 384 | 5,956 | 0.011 | 22 | 477 |
| Generic Flat Platfor | 148.00 | 2,500 | 38,806 | 0.069 | 146 | 3,109 |
| Commscope CBC78T-DS- | 138.00 | 62 | 842 | 0.001 | 3 | 77 |
| Samsung Outdoor CBRS | 138.00 | 56 | 757 | 0.001 | 3 | 69 |
| Samsung Outdoor CBRS | 138.00 | 13 | 179 | 0.000 | 1 | 16 |
| Samsung B5/B13 RRH-B | 138.00 | 211 | 2,860 | 0.005 | 11 | 262 |
| Samsung B2/B66A RRH- | 138.00 | 253 | 3,434 | 0.006 | 13 | 315 |
| Samsung MT6407-77A | 138.00 | 245 | 3,320 | 0.006 | 12 | 304 |
| RFS DB-T1-6Z-8AB-0Z | 138.00 | 88 | 1,193 | 0.002 | 4 | 109 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Andrew SBNHH-1D65B | 138.00 | 152 | 2,063 | 0.004 | 8 | 189 |
| Commscope JAHH-65B-R | 138.00 | 364 | 4,931 | 0.009 | 18 | 452 |
| Generic Flat Platfor | 138.00 | 2,500 | 33,902 | 0.060 | 127 | 3,109 |
| Nortel NTGB01MA | 128.00 | 1 | 12 | 0.000 | 0 | 1 |
| RFS APXV18-206517S-C | 128.00 | 79 | 929 | 0.002 | 3 | 99 |
| Alcatel-Lucent 800 M | 122.00 | 159 | 1,700 | 0.003 | 6 | 198 |
| Alcatel-Lucent 1900 | 122.00 | 180 | 1,924 | 0.003 | 7 | 224 |
| Alcatel-Lucent TD-RR | 122.00 | 210 | 2,245 | 0.004 | 8 | 261 |
| Round Low Profile Pl | 120.00 | 1,500 | 15,530 | 0.028 | 58 | 1,866 |
| RFS APXV9TM14-ALU-I2 | 118.00 | 165 | 1,657 | 0.003 | 6 | 206 |
| RFS APXVSPP18-C-A20 | 118.00 | 171 | 1,714 | 0.003 | 6 | 213 |
| Generic Dish Reserve | 108.00 | 1,835 | 15,501 | 0.028 | 58 | 2,282 |
| PCTEL GPS-TMG-HR-26N | 20.00 | 1 | 0 | 0.000 | 0 | 1 |
| Standoff | 20.00 | 75 | 24 | 0.000 | 0 | 93 |
| | | 70,287 | 562,246 | 1.000 | 2,109 | 87,419 |

Load Case 0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

| Segment | Height Above Base (ft) | Weight (lb) | $W_z$ (lb-ft) | $C_{vx}$ | Horizontal Force (lb) | Vertical Force (lb) |
|---|---|---|---|---|---|---|
| 49 | 176.75 | 310 | 6,786 | 0.012 | 25 | 266 |
| 48 | 173.00 | 365 | 7,654 | 0.014 | 29 | 312 |
| 47 | 170.50 | 93 | 1,907 | 0.003 | 7 | 80 |
| 46 | 168.50 | 285 | 5,674 | 0.010 | 21 | 244 |
| 45 | 166.00 | 193 | 3,741 | 0.007 | 14 | 165 |
| 44 | 162.50 | 513 | 9,536 | 0.017 | 36 | 439 |
| 43 | 157.50 | 671 | 11,754 | 0.021 | 44 | 575 |
| 42 | 152.50 | 688 | 11,323 | 0.020 | 42 | 590 |
| 41 | 149.00 | 280 | 4,405 | 0.008 | 17 | 240 |
| 40 | 146.50 | 452 | 6,880 | 0.012 | 26 | 387 |
| 39 | 144.71 | 89 | 1,317 | 0.002 | 5 | 76 |
| 38 | 142.21 | 1,235 | 17,742 | 0.032 | 67 | 1,057 |
| 37 | 139.67 | 189 | 2,622 | 0.005 | 10 | 162 |
| 36 | 138.67 | 240 | 3,290 | 0.006 | 12 | 206 |
| 35 | 136.50 | 584 | 7,750 | 0.014 | 29 | 500 |
| 34 | 132.50 | 990 | 12,408 | 0.022 | 47 | 847 |
| 33 | 129.00 | 402 | 4,784 | 0.009 | 18 | 344 |
| 32 | 126.50 | 625 | 7,163 | 0.013 | 27 | 535 |
| 31 | 123.50 | 632 | 6,922 | 0.012 | 26 | 542 |
| 30 | 121.00 | 426 | 4,481 | 0.008 | 17 | 365 |
| 29 | 119.00 | 429 | 4,373 | 0.008 | 16 | 368 |
| 28 | 116.50 | 660 | 6,457 | 0.011 | 24 | 565 |
| 27 | 112.50 | 1,121 | 10,244 | 0.018 | 38 | 960 |
| 26 | 109.00 | 454 | 3,906 | 0.007 | 15 | 389 |
| 25 | 106.50 | 688 | 5,655 | 0.010 | 21 | 589 |
| 24 | 102.50 | 1,163 | 8,883 | 0.016 | 33 | 996 |
| 23 | 99.00 | 471 | 3,365 | 0.006 | 13 | 404 |
| 22 | 96.50 | 1,298 | 8,821 | 0.016 | 33 | 1,111 |
| 21 | 93.21 | 1,572 | 9,993 | 0.018 | 37 | 1,346 |
| 20 | 90.71 | 388 | 2,339 | 0.004 | 9 | 332 |
| 19 | 87.50 | 1,385 | 7,793 | 0.014 | 29 | 1,186 |
| 18 | 82.50 | 1,411 | 7,084 | 0.013 | 27 | 1,208 |
| 17 | 77.50 | 1,436 | 6,392 | 0.011 | 24 | 1,230 |
| 16 | 72.50 | 1,462 | 5,719 | 0.010 | 21 | 1,252 |
| 15 | 67.50 | 1,487 | 5,069 | 0.009 | 19 | 1,273 |
| 14 | 62.50 | 1,513 | 4,443 | 0.008 | 17 | 1,295 |
| 13 | 57.50 | 1,538 | 3,846 | 0.007 | 14 | 1,317 |
| 12 | 54.00 | 622 | 1,379 | 0.002 | 5 | 533 |
| 11 | 51.50 | 1,772 | 3,582 | 0.006 | 13 | 1,517 |
| 10 | 47.50 | 2,997 | 5,183 | 0.009 | 19 | 2,567 |
| 9 | 42.50 | 1,803 | 2,516 | 0.004 | 9 | 1,544 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | 37.50 | 1,833 | 2,008 | 0.004 | 8 | 1,570 |
| 7 | 32.50 | 1,863 | 1,548 | 0.003 | 6 | 1,595 |
| 6 | 27.50 | 1,892 | 1,139 | 0.002 | 4 | 1,620 |
| 5 | 22.50 | 1,922 | 785 | 0.001 | 3 | 1,646 |
| 4 | 17.50 | 1,953 | 491 | 0.001 | 2 | 1,672 |
| 3 | 12.50 | 1,982 | 260 | 0.000 | 1 | 1,697 |
| 2 | 7.50 | 2,012 | 99 | 0.000 | 0 | 1,723 |
| 1 | 2.50 | 2,042 | 12 | 0.000 | 0 | 1,748 |
| Decibel DB844H90E-XY | 178.50 | 168 | 3,745 | 0.007 | 14 | 144 |
| Flat Low Profile Pla | 178.50 | 1,500 | 33,435 | 0.059 | 125 | 1,284 |
| DragonWave Horizon C | 171.00 | 21 | 435 | 0.001 | 2 | 18 |
| NextNet BTS-2500 | 171.00 | 105 | 2,154 | 0.004 | 8 | 90 |
| Argus LLPX310R | 171.00 | 86 | 1,760 | 0.003 | 7 | 73 |
| DragonWave A-ANT-11G | 171.00 | 27 | 554 | 0.001 | 2 | 23 |
| DragonWave A-ANT-18G | 171.00 | 27 | 556 | 0.001 | 2 | 23 |
| Side Arms | 167.00 | 560 | 10,976 | 0.020 | 41 | 480 |
| Generic 18" x 12" Ju | 165.00 | 15 | 287 | 0.001 | 1 | 13 |
| Powerwave Allgon 702 | 160.00 | 13 | 238 | 0.000 | 1 | 11 |
| Kaelus DBCT108F1V92- | 160.00 | 125 | 2,257 | 0.004 | 8 | 107 |
| Powerwave Allgon LGP | 160.00 | 85 | 1,527 | 0.003 | 6 | 72 |
| Raycap DC6-48-60-18- | 160.00 | 40 | 722 | 0.001 | 3 | 34 |
| Ericsson RRUS 4426 B | 160.00 | 145 | 2,620 | 0.005 | 10 | 124 |
| Ericsson RRUS 4478 B | 160.00 | 178 | 3,216 | 0.006 | 12 | 153 |
| Ericsson RRUS 4478 B | 160.00 | 168 | 3,037 | 0.005 | 11 | 144 |
| Ericsson RRUS 32 B2 | 160.00 | 159 | 2,869 | 0.005 | 11 | 136 |
| Ericsson RRUS 11 (Ba | 160.00 | 152 | 2,745 | 0.005 | 10 | 130 |
| Ericsson RRUS-32 (77 | 160.00 | 231 | 4,168 | 0.007 | 16 | 198 |
| Raycap DC6-48-60-18- | 160.00 | 16 | 289 | 0.001 | 1 | 14 |
| Powerwave Allgon 777 | 160.00 | 105 | 1,895 | 0.003 | 7 | 90 |
| Quintel QS66512-2 | 160.00 | 333 | 6,009 | 0.011 | 23 | 285 |
| CCI OPA-65R-LCUU-H6 | 160.00 | 219 | 3,952 | 0.007 | 15 | 188 |
| Kathrein Scala 80010 | 160.00 | 293 | 5,283 | 0.009 | 20 | 251 |
| Generic Flat Platfor | 160.00 | 2,500 | 45,111 | 0.080 | 169 | 2,141 |
| Ericsson KRY 112 144 | 148.00 | 33 | 512 | 0.001 | 2 | 28 |
| Ericsson Radio 4449 | 148.00 | 225 | 3,493 | 0.006 | 13 | 193 |
| Ericsson RRUS 4415 B | 148.00 | 138 | 2,142 | 0.004 | 8 | 118 |
| Ericsson Air6449 B41 | 148.00 | 312 | 4,843 | 0.009 | 18 | 267 |
| Ericsson AIR 21, 1.3 | 148.00 | 275 | 4,261 | 0.008 | 16 | 235 |
| Ericsson AIR32 B66Aa | 148.00 | 397 | 6,156 | 0.011 | 23 | 340 |
| RFS APXVAARR24_43-U- | 148.00 | 384 | 5,956 | 0.011 | 22 | 329 |
| Generic Flat Platfor | 148.00 | 2,500 | 38,806 | 0.069 | 146 | 2,141 |
| Commscope CBC78T-DS- | 138.00 | 62 | 842 | 0.001 | 3 | 53 |
| Samsung Outdoor CBRS | 138.00 | 56 | 757 | 0.001 | 3 | 48 |
| Samsung Outdoor CBRS | 138.00 | 13 | 179 | 0.000 | 1 | 11 |
| Samsung B5/B13 RRH-B | 138.00 | 211 | 2,860 | 0.005 | 11 | 181 |
| Samsung B2/B66A RRH- | 138.00 | 253 | 3,434 | 0.006 | 13 | 217 |
| Samsung MT6407-77A | 138.00 | 245 | 3,320 | 0.006 | 12 | 210 |
| RFS DB-T1-6Z-8AB-0Z | 138.00 | 88 | 1,193 | 0.002 | 4 | 75 |
| Andrew SBNHH-1D65B | 138.00 | 152 | 2,063 | 0.004 | 8 | 130 |
| Commscope JAHH-65B-R | 138.00 | 364 | 4,931 | 0.009 | 18 | 311 |
| Generic Flat Platfor | 138.00 | 2,500 | 33,902 | 0.060 | 127 | 2,141 |
| Nortel NTGB01MA | 128.00 | 1 | 12 | 0.000 | 0 | 1 |
| RFS APXV18-206517S-C | 128.00 | 79 | 929 | 0.002 | 3 | 68 |
| Alcatel-Lucent 800 M | 122.00 | 159 | 1,700 | 0.003 | 6 | 136 |
| Alcatel-Lucent 1900 | 122.00 | 180 | 1,924 | 0.003 | 7 | 154 |
| Alcatel-Lucent TD-RR | 122.00 | 210 | 2,245 | 0.004 | 8 | 180 |
| Round Low Profile Pl | 120.00 | 1,500 | 15,530 | 0.028 | 58 | 1,284 |
| RFS APXV9TM14-ALU-I2 | 118.00 | 165 | 1,657 | 0.003 | 6 | 142 |
| RFS APXVSPP18-C-A20 | 118.00 | 171 | 1,714 | 0.003 | 6 | 146 |
| Generic Dish Reserve | 108.00 | 1,835 | 15,501 | 0.028 | 58 | 1,571 |
| PCTEL GPS-TMG-HR-26N | 20.00 | 1 | 0 | 0.000 | 0 | 1 |
| Standoff | 20.00 | 75 | 24 | 0.000 | 0 | 64 |
| | | 70,287 | 562,246 | 1.000 | 2,109 | 60,185 |

Load Case 1.2D + 1.0Ev + 1.0Eh Seismic

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -84.88 | -2.11 | 0.00 | -295.10 | 0.00 | 295.10 | 6,201.63 | 1,743.94 | 11,271.7 | 9,147.40 | 0.00 | 0.00 | 0.046 |
| 5.00 | -82.38 | -2.12 | 0.00 | -284.54 | 0.00 | 284.54 | 6,145.05 | 1,713.31 | 10,879.2 | 8,903.77 | 0.00 | -0.01 | 0.045 |
| 10.00 | -79.91 | -2.13 | 0.00 | -273.94 | 0.00 | 273.94 | 6,086.60 | 1,682.68 | 10,493.7 | 8,660.43 | 0.01 | -0.01 | 0.045 |
| 15.00 | -77.48 | -2.14 | 0.00 | -263.29 | 0.00 | 263.29 | 6,026.28 | 1,652.04 | 10,115.2 | 8,417.51 | 0.03 | -0.02 | 0.044 |
| 20.00 | -75.00 | -2.14 | 0.00 | -252.61 | 0.00 | 252.61 | 5,964.08 | 1,621.41 | 9,743.60 | 8,175.18 | 0.05 | -0.03 | 0.043 |
| 25.00 | -72.64 | -2.14 | 0.00 | -241.91 | 0.00 | 241.91 | 5,900.01 | 1,590.78 | 9,378.96 | 7,933.57 | 0.09 | -0.03 | 0.043 |
| 30.00 | -70.33 | -2.14 | 0.00 | -231.20 | 0.00 | 231.20 | 5,834.07 | 1,560.15 | 9,021.26 | 7,692.84 | 0.12 | -0.04 | 0.042 |
| 35.00 | -68.05 | -2.14 | 0.00 | -220.47 | 0.00 | 220.47 | 5,766.26 | 1,529.51 | 8,670.52 | 7,453.12 | 0.17 | -0.05 | 0.041 |
| 40.00 | -65.80 | -2.14 | 0.00 | -209.75 | 0.00 | 209.75 | 5,696.58 | 1,498.88 | 8,326.74 | 7,214.56 | 0.22 | -0.05 | 0.041 |
| 45.00 | -62.07 | -2.13 | 0.00 | -199.05 | 0.00 | 199.05 | 5,625.02 | 1,468.25 | 7,989.90 | 6,977.32 | 0.28 | -0.06 | 0.040 |
| 50.00 | -59.87 | -2.12 | 0.00 | -188.42 | 0.00 | 188.42 | 5,551.60 | 1,437.62 | 7,660.03 | 6,741.53 | 0.35 | -0.07 | 0.039 |
| 53.00 | -59.10 | -2.11 | 0.00 | -182.08 | 0.00 | 182.08 | 4,466.37 | 1,233.46 | 6,578.51 | 5,434.80 | 0.40 | -0.07 | 0.047 |
| 55.00 | -57.18 | -2.10 | 0.00 | -177.85 | 0.00 | 177.85 | 4,445.78 | 1,222.96 | 6,466.97 | 5,363.40 | 0.43 | -0.08 | 0.046 |
| 60.00 | -55.30 | -2.09 | 0.00 | -167.35 | 0.00 | 167.35 | 4,392.99 | 1,196.70 | 6,192.29 | 5,185.21 | 0.51 | -0.08 | 0.045 |
| 65.00 | -53.45 | -2.08 | 0.00 | -156.90 | 0.00 | 156.90 | 4,338.33 | 1,170.45 | 5,923.57 | 5,007.61 | 0.60 | -0.09 | 0.044 |
| 70.00 | -51.63 | -2.06 | 0.00 | -146.52 | 0.00 | 146.52 | 4,281.80 | 1,144.19 | 5,660.81 | 4,830.75 | 0.70 | -0.10 | 0.042 |
| 75.00 | -49.85 | -2.04 | 0.00 | -136.22 | 0.00 | 136.22 | 4,223.39 | 1,117.93 | 5,404.01 | 4,654.77 | 0.81 | -0.11 | 0.041 |
| 80.00 | -48.09 | -2.02 | 0.00 | -126.03 | 0.00 | 126.03 | 4,163.12 | 1,091.68 | 5,153.18 | 4,479.82 | 0.93 | -0.12 | 0.040 |
| 85.00 | -46.37 | -1.99 | 0.00 | -115.95 | 0.00 | 115.95 | 4,100.97 | 1,065.42 | 4,908.30 | 4,306.05 | 1.06 | -0.12 | 0.038 |
| 90.00 | -45.89 | -1.98 | 0.00 | -106.01 | 0.00 | 106.01 | 4,036.95 | 1,039.16 | 4,669.38 | 4,133.61 | 1.19 | -0.13 | 0.037 |
| 91.42 | -43.93 | -1.94 | 0.00 | -103.20 | 0.00 | 103.20 | 4,018.47 | 1,031.72 | 4,602.78 | 4,085.01 | 1.23 | -0.13 | 0.036 |
| 95.00 | -42.32 | -1.91 | 0.00 | -96.23 | 0.00 | 96.23 | 3,971.06 | 1,012.91 | 4,436.43 | 3,962.63 | 1.33 | -0.14 | 0.035 |
| 98.00 | -41.73 | -1.90 | 0.00 | -90.50 | 0.00 | 90.50 | 3,074.73 | 842.93 | 3,686.72 | 3,067.88 | 1.42 | -0.14 | 0.043 |
| 100.00 | -40.28 | -1.87 | 0.00 | -86.70 | 0.00 | 86.70 | 3,057.08 | 834.18 | 3,610.56 | 3,018.39 | 1.48 | -0.15 | 0.042 |
| 105.00 | -39.43 | -1.85 | 0.00 | -77.36 | 0.00 | 77.36 | 3,011.64 | 812.29 | 3,423.66 | 2,895.03 | 1.64 | -0.16 | 0.040 |
| 108.00 | -36.58 | -1.77 | 0.00 | -71.82 | 0.00 | 71.82 | 2,983.48 | 799.17 | 3,313.90 | 2,821.30 | 1.74 | -0.16 | 0.038 |
| 110.00 | -35.19 | -1.73 | 0.00 | -68.28 | 0.00 | 68.28 | 2,964.33 | 790.41 | 3,241.72 | 2,772.28 | 1.81 | -0.16 | 0.037 |
| 115.00 | -34.37 | -1.71 | 0.00 | -59.62 | 0.00 | 59.62 | 2,915.15 | 768.53 | 3,064.74 | 2,650.30 | 1.99 | -0.17 | 0.034 |
| 118.00 | -33.41 | -1.68 | 0.00 | -54.50 | 0.00 | 54.50 | 2,884.74 | 755.41 | 2,960.94 | 2,577.54 | 2.10 | -0.18 | 0.033 |
| 120.00 | -31.02 | -1.60 | 0.00 | -51.14 | 0.00 | 51.14 | 2,864.09 | 746.65 | 2,892.74 | 2,529.23 | 2.17 | -0.18 | 0.031 |
| 122.00 | -29.55 | -1.55 | 0.00 | -47.95 | 0.00 | 47.95 | 2,843.15 | 737.90 | 2,825.33 | 2,481.09 | 2.25 | -0.18 | 0.030 |
| 125.00 | -28.77 | -1.52 | 0.00 | -43.31 | 0.00 | 43.31 | 2,811.17 | 724.77 | 2,725.70 | 2,409.22 | 2.37 | -0.19 | 0.028 |
| 128.00 | -28.17 | -1.50 | 0.00 | -38.75 | 0.00 | 38.75 | 2,778.51 | 711.65 | 2,627.86 | 2,337.78 | 2.48 | -0.19 | 0.027 |
| 130.00 | -26.94 | -1.45 | 0.00 | -35.76 | 0.00 | 35.76 | 2,756.37 | 702.89 | 2,563.63 | 2,290.41 | 2.57 | -0.19 | 0.025 |
| 135.00 | -26.22 | -1.42 | 0.00 | -28.51 | 0.00 | 28.51 | 2,699.70 | 681.01 | 2,406.52 | 2,172.95 | 2.77 | -0.20 | 0.023 |
| 138.00 | -21.01 | -1.19 | 0.00 | -24.25 | 0.00 | 24.25 | 2,664.80 | 667.88 | 2,314.65 | 2,103.19 | 2.90 | -0.20 | 0.019 |
| 139.33 | -20.78 | -1.18 | 0.00 | -22.67 | 0.00 | 22.67 | 2,649.07 | 662.05 | 2,274.38 | 2,072.36 | 2.95 | -0.20 | 0.019 |
| 140.00 | -19.24 | -1.11 | 0.00 | -21.88 | 0.00 | 21.88 | 2,641.16 | 659.13 | 2,254.39 | 2,056.99 | 2.98 | -0.20 | 0.018 |
| 144.42 | -19.13 | -1.10 | 0.00 | -16.99 | 0.00 | 16.99 | 1,927.04 | 519.68 | 1,751.62 | 1,481.39 | 3.17 | -0.21 | 0.021 |
| 145.00 | -18.57 | -1.08 | 0.00 | -16.35 | 0.00 | 16.35 | 1,922.70 | 517.63 | 1,737.88 | 1,472.21 | 3.20 | -0.21 | 0.021 |
| 148.00 | -12.92 | -0.79 | 0.00 | -13.12 | 0.00 | 13.12 | 1,899.96 | 507.13 | 1,668.08 | 1,425.08 | 3.33 | -0.21 | 0.016 |
| 150.00 | -12.06 | -0.75 | 0.00 | -11.54 | 0.00 | 11.54 | 1,884.42 | 500.13 | 1,622.34 | 1,393.78 | 3.42 | -0.21 | 0.015 |
| 155.00 | -11.23 | -0.70 | 0.00 | -7.82 | 0.00 | 7.82 | 1,844.28 | 482.63 | 1,510.78 | 1,316.02 | 3.64 | -0.21 | 0.012 |
| 160.00 | -4.67 | -0.32 | 0.00 | -4.32 | 0.00 | 4.32 | 1,802.26 | 465.12 | 1,403.19 | 1,239.06 | 3.87 | -0.22 | 0.006 |
| 165.00 | -4.41 | -0.30 | 0.00 | -2.74 | 0.00 | 2.74 | 1,758.37 | 447.62 | 1,299.57 | 1,163.05 | 4.09 | -0.22 | 0.005 |
| 167.00 | -3.36 | -0.23 | 0.00 | -2.14 | 0.00 | 2.14 | 1,740.29 | 440.62 | 1,259.24 | 1,132.94 | 4.18 | -0.22 | 0.004 |
| 170.00 | -3.24 | -0.23 | 0.00 | -1.44 | 0.00 | 1.44 | 1,712.61 | 430.11 | 1,199.93 | 1,088.14 | 4.32 | -0.22 | 0.003 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171.00 | -2.46 | -0.17 | 0.00 | -1.21 | 0.00 | 1.21 | 1,703.23 | 426.61 | 1,180.48 | 1,073.30 | 4.37 | -0.22 | 0.003 |
| 175.00 | -2.07 | -0.15 | 0.00 | -0.52 | 0.00 | 0.52 | 1,664.97 | 412.61 | 1,104.26 | 1,014.48 | 4.55 | -0.22 | 0.002 |
| 178.50 | 0.00 | -0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1,630.52 | 400.36 | 1,039.66 | 963.73 | 4.71 | -0.22 | 0.000 |

Load Case 0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | -58.44 | -2.11 | 0.00 | -291.24 | 0.00 | 291.24 | 6,201.63 | 1,743.94 | 11,271.7 | 9,147.40 | 0.00 | 0.00 | 0.041 |
| 5.00 | -56.71 | -2.12 | 0.00 | -280.69 | 0.00 | 280.69 | 6,145.05 | 1,713.31 | 10,879.2 | 8,903.77 | 0.00 | -0.01 | 0.041 |
| 10.00 | -55.02 | -2.12 | 0.00 | -270.10 | 0.00 | 270.10 | 6,086.60 | 1,682.68 | 10,493.7 | 8,660.43 | 0.01 | -0.01 | 0.040 |
| 15.00 | -53.34 | -2.13 | 0.00 | -259.50 | 0.00 | 259.50 | 6,026.28 | 1,652.04 | 10,115.2 | 8,417.51 | 0.03 | -0.02 | 0.040 |
| 20.00 | -51.63 | -2.13 | 0.00 | -248.87 | 0.00 | 248.87 | 5,964.08 | 1,621.41 | 9,743.60 | 8,175.18 | 0.05 | -0.03 | 0.039 |
| 25.00 | -50.01 | -2.13 | 0.00 | -238.23 | 0.00 | 238.23 | 5,900.01 | 1,590.78 | 9,378.96 | 7,933.57 | 0.08 | -0.03 | 0.039 |
| 30.00 | -48.42 | -2.13 | 0.00 | -227.59 | 0.00 | 227.59 | 5,834.07 | 1,560.15 | 9,021.26 | 7,692.84 | 0.12 | -0.04 | 0.038 |
| 35.00 | -46.85 | -2.12 | 0.00 | -216.95 | 0.00 | 216.95 | 5,766.26 | 1,529.51 | 8,670.52 | 7,453.12 | 0.17 | -0.05 | 0.037 |
| 40.00 | -45.30 | -2.12 | 0.00 | -206.32 | 0.00 | 206.32 | 5,696.58 | 1,498.88 | 8,326.74 | 7,214.56 | 0.22 | -0.05 | 0.037 |
| 45.00 | -42.74 | -2.10 | 0.00 | -195.73 | 0.00 | 195.73 | 5,625.02 | 1,468.25 | 7,989.90 | 6,977.32 | 0.28 | -0.06 | 0.036 |
| 50.00 | -41.22 | -2.09 | 0.00 | -185.21 | 0.00 | 185.21 | 5,551.60 | 1,437.62 | 7,660.03 | 6,741.53 | 0.35 | -0.07 | 0.035 |
| 53.00 | -40.68 | -2.09 | 0.00 | -178.94 | 0.00 | 178.94 | 4,466.37 | 1,233.46 | 6,578.51 | 5,434.80 | 0.39 | -0.07 | 0.042 |
| 55.00 | -39.37 | -2.08 | 0.00 | -174.76 | 0.00 | 174.76 | 4,445.78 | 1,222.96 | 6,466.97 | 5,363.40 | 0.42 | -0.07 | 0.041 |
| 60.00 | -38.07 | -2.06 | 0.00 | -164.38 | 0.00 | 164.38 | 4,392.99 | 1,196.70 | 6,192.29 | 5,185.21 | 0.50 | -0.08 | 0.040 |
| 65.00 | -36.80 | -2.05 | 0.00 | -154.07 | 0.00 | 154.07 | 4,338.33 | 1,170.45 | 5,923.57 | 5,007.61 | 0.59 | -0.09 | 0.039 |
| 70.00 | -35.55 | -2.03 | 0.00 | -143.83 | 0.00 | 143.83 | 4,281.80 | 1,144.19 | 5,660.81 | 4,830.75 | 0.69 | -0.10 | 0.038 |
| 75.00 | -34.32 | -2.01 | 0.00 | -133.69 | 0.00 | 133.69 | 4,223.39 | 1,117.93 | 5,404.01 | 4,654.77 | 0.80 | -0.11 | 0.037 |
| 80.00 | -33.11 | -1.98 | 0.00 | -123.66 | 0.00 | 123.66 | 4,163.12 | 1,091.68 | 5,153.18 | 4,479.82 | 0.92 | -0.11 | 0.036 |
| 85.00 | -31.92 | -1.96 | 0.00 | -113.74 | 0.00 | 113.74 | 4,100.97 | 1,065.42 | 4,908.30 | 4,306.05 | 1.04 | -0.12 | 0.034 |
| 90.00 | -31.59 | -1.95 | 0.00 | -103.96 | 0.00 | 103.96 | 4,036.95 | 1,039.16 | 4,669.38 | 4,133.61 | 1.17 | -0.13 | 0.033 |
| 91.42 | -30.24 | -1.91 | 0.00 | -101.20 | 0.00 | 101.20 | 4,018.47 | 1,031.72 | 4,602.78 | 4,085.01 | 1.21 | -0.13 | 0.032 |
| 95.00 | -29.13 | -1.88 | 0.00 | -94.36 | 0.00 | 94.36 | 3,971.06 | 1,012.91 | 4,436.43 | 3,962.63 | 1.31 | -0.14 | 0.031 |
| 98.00 | -28.73 | -1.87 | 0.00 | -88.73 | 0.00 | 88.73 | 3,074.73 | 842.93 | 3,686.72 | 3,067.88 | 1.40 | -0.14 | 0.038 |
| 100.00 | -27.73 | -1.83 | 0.00 | -85.00 | 0.00 | 85.00 | 3,057.08 | 834.18 | 3,610.56 | 3,018.39 | 1.46 | -0.15 | 0.037 |
| 105.00 | -27.14 | -1.81 | 0.00 | -75.83 | 0.00 | 75.83 | 3,011.64 | 812.29 | 3,423.66 | 2,895.03 | 1.62 | -0.15 | 0.035 |
| 108.00 | -25.18 | -1.74 | 0.00 | -70.40 | 0.00 | 70.40 | 2,983.48 | 799.17 | 3,313.90 | 2,821.30 | 1.72 | -0.16 | 0.033 |
| 110.00 | -24.22 | -1.70 | 0.00 | -66.92 | 0.00 | 66.92 | 2,964.33 | 790.41 | 3,241.72 | 2,772.28 | 1.78 | -0.16 | 0.032 |
| 115.00 | -23.66 | -1.67 | 0.00 | -58.44 | 0.00 | 58.44 | 2,915.15 | 768.53 | 3,064.74 | 2,650.30 | 1.96 | -0.17 | 0.030 |
| 118.00 | -23.00 | -1.64 | 0.00 | -53.41 | 0.00 | 53.41 | 2,884.74 | 755.41 | 2,960.94 | 2,577.54 | 2.07 | -0.17 | 0.029 |
| 120.00 | -21.35 | -1.57 | 0.00 | -50.12 | 0.00 | 50.12 | 2,864.09 | 746.65 | 2,892.74 | 2,529.23 | 2.14 | -0.18 | 0.027 |
| 122.00 | -20.34 | -1.52 | 0.00 | -46.99 | 0.00 | 46.99 | 2,843.15 | 737.90 | 2,825.33 | 2,481.09 | 2.21 | -0.18 | 0.026 |
| 125.00 | -19.81 | -1.49 | 0.00 | -42.44 | 0.00 | 42.44 | 2,811.17 | 724.77 | 2,725.70 | 2,409.22 | 2.33 | -0.18 | 0.025 |
| 128.00 | -19.39 | -1.47 | 0.00 | -37.98 | 0.00 | 37.98 | 2,778.51 | 711.65 | 2,627.86 | 2,337.78 | 2.44 | -0.19 | 0.023 |
| 130.00 | -18.55 | -1.42 | 0.00 | -35.04 | 0.00 | 35.04 | 2,756.37 | 702.89 | 2,563.63 | 2,290.41 | 2.52 | -0.19 | 0.022 |
| 135.00 | -18.05 | -1.39 | 0.00 | -27.95 | 0.00 | 27.95 | 2,699.70 | 681.01 | 2,406.52 | 2,172.95 | 2.72 | -0.20 | 0.020 |
| 138.00 | -14.47 | -1.16 | 0.00 | -23.78 | 0.00 | 23.78 | 2,664.80 | 667.88 | 2,314.65 | 2,103.19 | 2.85 | -0.20 | 0.017 |
| 139.33 | -14.30 | -1.15 | 0.00 | -22.23 | 0.00 | 22.23 | 2,649.07 | 662.05 | 2,274.38 | 2,072.36 | 2.90 | -0.20 | 0.016 |
| 140.00 | -13.25 | -1.09 | 0.00 | -21.46 | 0.00 | 21.46 | 2,641.16 | 659.13 | 2,254.39 | 2,056.99 | 2.93 | -0.20 | 0.015 |
| 144.42 | -13.17 | -1.08 | 0.00 | -16.67 | 0.00 | 16.67 | 1,927.04 | 519.68 | 1,751.62 | 1,481.39 | 3.12 | -0.20 | 0.018 |
| 145.00 | -12.78 | -1.05 | 0.00 | -16.04 | 0.00 | 16.04 | 1,922.70 | 517.63 | 1,737.88 | 1,472.21 | 3.14 | -0.20 | 0.018 |
| 148.00 | -8.89 | -0.78 | 0.00 | -12.88 | 0.00 | 12.88 | 1,899.96 | 507.13 | 1,668.08 | 1,425.08 | 3.27 | -0.21 | 0.014 |
| 150.00 | -8.31 | -0.73 | 0.00 | -11.33 | 0.00 | 11.33 | 1,884.42 | 500.13 | 1,622.34 | 1,393.78 | 3.36 | -0.21 | 0.013 |
| 155.00 | -7.73 | -0.69 | 0.00 | -7.67 | 0.00 | 7.67 | 1,844.28 | 482.63 | 1,510.78 | 1,316.02 | 3.58 | -0.21 | 0.010 |
| 160.00 | -3.21 | -0.31 | 0.00 | -4.24 | 0.00 | 4.24 | 1,802.26 | 465.12 | 1,403.19 | 1,239.06 | 3.80 | -0.21 | 0.005 |
| 165.00 | -3.04 | -0.29 | 0.00 | -2.69 | 0.00 | 2.69 | 1,758.37 | 447.62 | 1,299.57 | 1,163.05 | 4.02 | -0.21 | 0.004 |
| 167.00 | -2.31 | -0.23 | 0.00 | -2.10 | 0.00 | 2.10 | 1,740.29 | 440.62 | 1,259.24 | 1,132.94 | 4.11 | -0.21 | 0.003 |
| 170.00 | -2.23 | -0.22 | 0.00 | -1.41 | 0.00 | 1.41 | 1,712.61 | 430.11 | 1,199.93 | 1,088.14 | 4.25 | -0.21 | 0.003 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171.00 | -1.69 | -0.17 | 0.00 | -1.19 | 0.00 | 1.19 | 1,703.23 | 426.61 | 1,180.48 | 1,073.30 | 4.29 | -0.21 | 0.002 |
| 175.00 | -1.43 | -0.14 | 0.00 | -0.51 | 0.00 | 0.51 | 1,664.97 | 412.61 | 1,104.26 | 1,014.48 | 4.47 | -0.22 | 0.001 |
| 178.50 | 0.00 | -0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 1,630.52 | 400.36 | 1,039.66 | 963.73 | 4.63 | -0.22 | 0.000 |

## Analysis Summary

| | Reactions | | | | | | Max Usage | |
|---|---|---|---|---|---|---|---|---|
| Load Case | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Elev (ft) | Interaction Ratio |
| 1.2D + 1.0W | 44.21 | 0.00 | 84.30 | 0.00 | 0.00 | 5422.36 | 0.00 | 0.61 |
| 0.9D + 1.0W | 44.19 | 0.00 | 63.21 | 0.00 | 0.00 | 5367.33 | 0.00 | 0.60 |
| 1.2D + 1.0Di + 1.0Wi | 11.21 | 0.00 | 118.92 | 0.00 | 0.00 | 1360.90 | 0.00 | 0.17 |
| 1.2D + 1.0Ev + 1.0Eh | 2.11 | 0.00 | 84.88 | 0.00 | 0.00 | 295.10 | 53.00 | 0.05 |
| 0.9D - 1.0Ev + 1.0Eh | 2.11 | 0.00 | 58.44 | 0.00 | 0.00 | 291.24 | 53.00 | 0.04 |
| 1.0D + 1.0W | 10.05 | 0.00 | 70.28 | 0.00 | 0.00 | 1225.62 | 0.00 | 0.15 |

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856.797.0412
peter.albano@colliersengineering.com

# Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050697
Maser Consulting Connecticut Project #: 21777595A

June 9, 2021

| | | |
|---|---|---|
| ***Site Information*** | *Site ID:* | *469297-VZW / WALLINGFORD 3 CT* |
| | *Site Name:* | *WALLINGFORD 3 CT* |
| | *Carrier Name:* | *Verizon Wireless* |
| | *Address:* | *90 North Plains Industrial Rd.*<br>*Wallingford, Connecticut 06492*<br>*New Haven County* |
| | *Latitude:* | *41.480361°* |
| | *Longitude:* | *-72.818389°* |
| ***Structure Information*** | *Tower Type:* | *180-Ft Monopole* |
| | *Mount Type:* | *13.67-Ft Platform* |

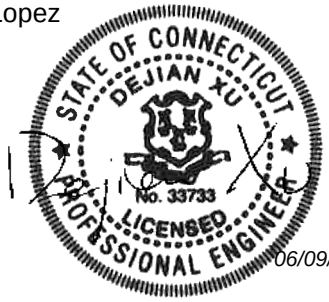
**FUZE ID # 16227578**

## Analysis Results

Platform: **42.8% Pass**

******Contractor PMI Requirements***:
***Included at the end of this MA report***
***Available & Submitted via portal at https://pmi.vzwsmart.com***
***Contractor - Please Review Specific Site PMI Requirements Upon Award***
***Requirements also Noted on Mount Modification Drawings***
***Requirements may also be Noted on A & E drawings***

Report Prepared By: Evelina Lopez




*06/09/2021*

## Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

## Sources of Information:

| Document Type | Remarks |
|---|---|
| *Radio Frequency Data Sheet (RFDS)* | *Verizon RFDS Site ID: 325036, dated March 16, 2021* |
| *Mount Mapping Report* | *Structural Components, Site ID: 16227578, dated April 1, 2021* |

## Analysis Criteria:

| | | |
|---|---|---|
| Codes and Standards: | ANSI/TIA-222-H | |
| Wind Parameters: | Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$: | 119 mph |
| | Ice Wind Speed (3-sec. Gust): | 50 mph |
| | Design Ice Thickness: | 1.00 in |
| | Risk Category: | II |
| | Exposure Category: | B |
| | Topographic Category: | 1 |
| | Topographic Feature Considered: | N/A |
| | Topographic Method: | N/A |
| | Ground Elevation Factor, $K_e$: | 0.998 |
| Seismic Parameters: | $S_S$: | 0.205 |
| | $S_1$: | 0.055 |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): | 30 mph |
| | Maintenance Live Load, Lv: | 250 lbs. |
| | Maintenance Live Load, Lm: | 500 lbs. |
| Analysis Software: | RISA-3D (V17) | |

## Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|---|---|---|---|---|---|
| 137.25 | 138.00 | 3 | Samsung | MT6407-77A | Added |
| | | 6 | Commscope | JAHH-65B-R3B | Retained |
| | | 3 | Andrew | SBNHH-1D65B | |
| | | 3 | Samsung | XXDWMM-12.5-65-8T | |
| | | 3 | Commscope | CBC78-DS-43-2X | |
| | | 2 | Raycap | RRFDC-3315-PF-48 | |
| | | 3 | Samsung | B2/B66A RRH-BR049 | |
| | | 3 | Samsung | B5/B13 RRH-BR04C | |
| | | 1 | Generic | GPS | |

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

| Model Number | Ports | AKA |
|---|---|---|
| DB-B1-6C-12AB-0Z | 6 | OVP-6 |
| RVZDC-6627-PF-48 | 12 | OVP-12 |

## Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

   Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

   The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.**

## Analysis Results:

| Component | Utilization % | Pass/Fail |
|---|---|---|
| *Face Horizontal* | *11.8%* | *Pass* |
| *End Plate* | *42.8%* | *Pass* |
| *Standoff Horizontal* | *30.0%* | *Pass* |
| *Kicker* | *9.1%* | *Pass* |
| *Cross Brace* | *6.5%* | *Pass* |
| *Support Rail* | *17.2%* | *Pass* |
| *Antenna Pipe* | *31.6%* | *Pass* |
| *Dual Mount Pipe* | *29.5%* | *Pass* |
| *Support Corner Angle* | *25.2%* | *Pass* |
| *Mount Connection* | *23.9%* | *Pass* |

| **Structure Rating – *(Controlling Utilization of all Components)*** | **42.8%** |
|---|---|

## Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

## Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter

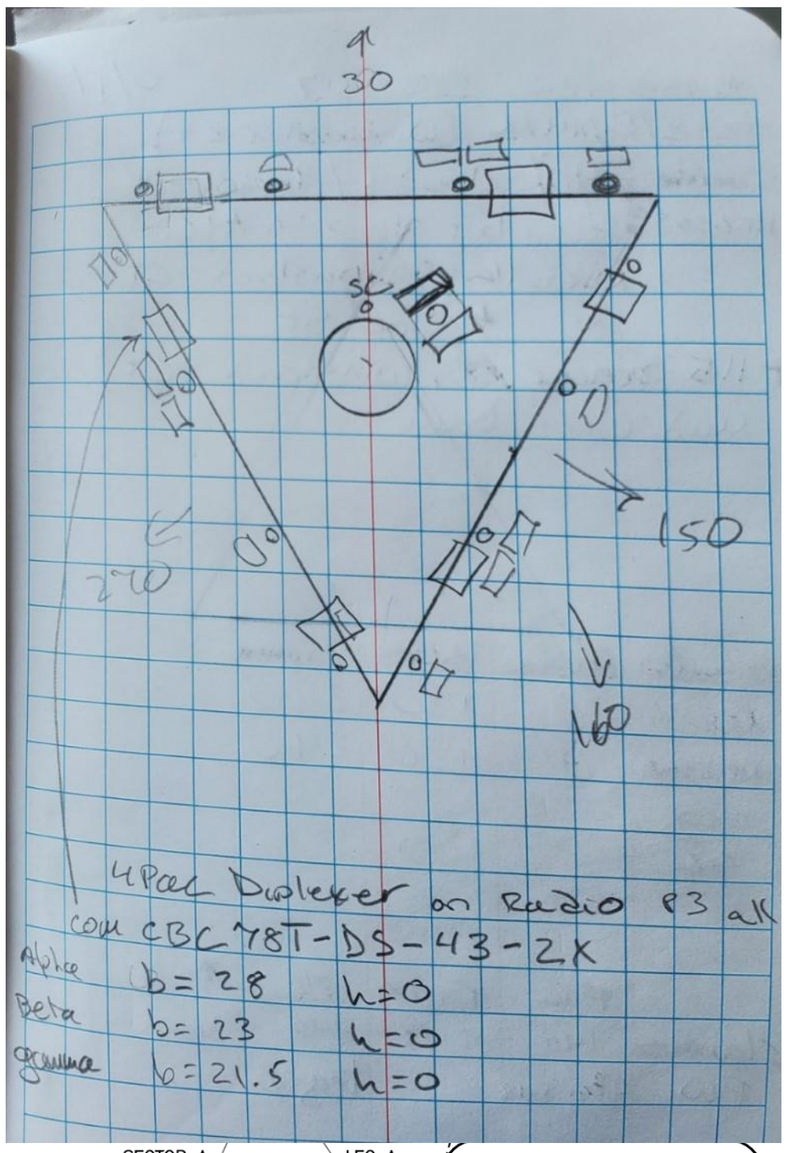
V3.0 Updated on 8-31-2020

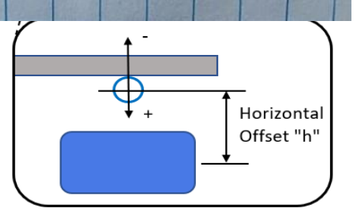
# Antenna Mount Mapping Form (PATENT PENDING)

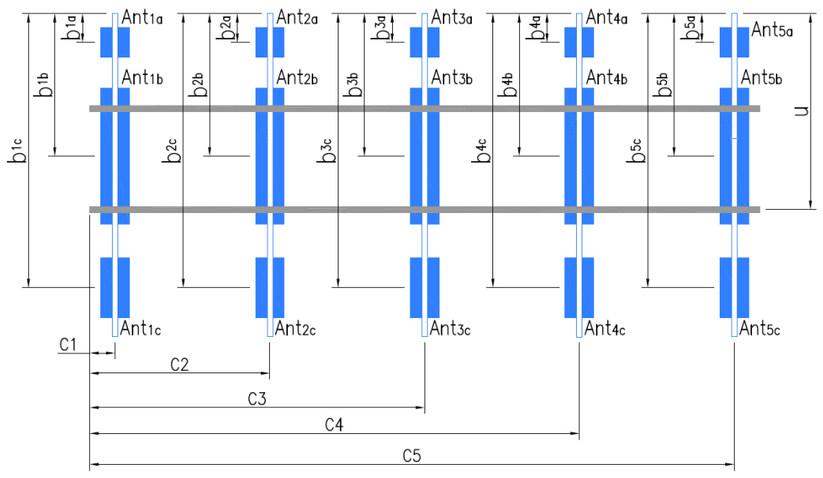
| FCC # |
|---|
| 1270056 |

| | | | |
|---|---|---|---|
| **Tower Owner:** | ATC | **Mapping Date:** | 4/1/2021 |
| **Site Name:** | Wallingford 3 CT | **Tower Type:** | Monopole |
| **Site Number or ID:** | 16227578 | **Tower Height (Ft.):** | 180 |
| **Mapping Contractor:** | Structural Components | **Mount Elevation (Ft.):** | 135 |





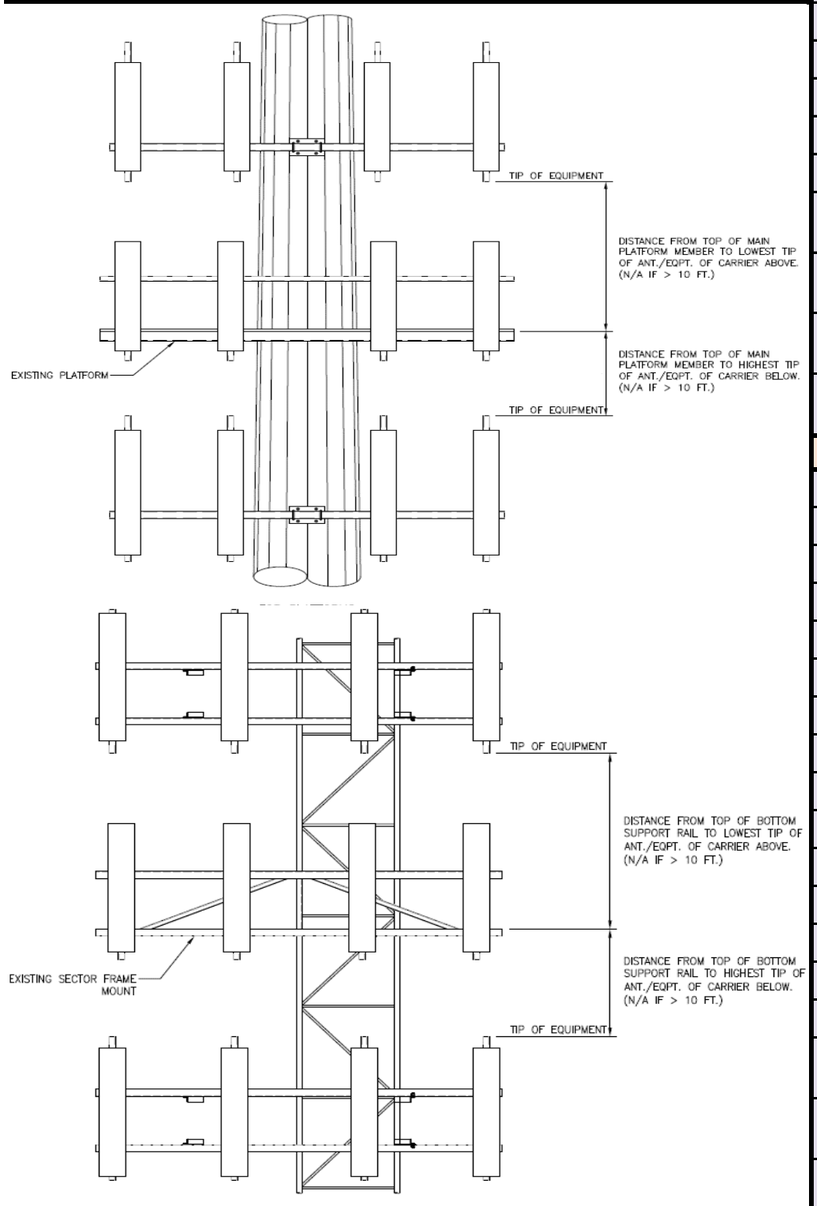

**Antenna Layout (Looking Out From Tower)**

| Mount Pipe Configuration and Geometries [Unit = Inches] | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sector / Position | Mount Pipe Size & Length | Vertical Offset Dimension "u" | Horizontal Offset "C1, C2, C3, etc." | Sector / Position | Mount Pipe Size & Length | Vertical Offset Dimension "u" | Horizontal Offset "C1, C2, C3, etc." |
| A1 | 2-3/8 x 0.154 x 84 | 48.00 | 21.00 | C1 | 2-3/8 x 0.154 x 84 | 47.50 | 22.50 |
| A2 | 2-3/8 x 0.154 x 84 | 50.50 | 45.50 | C2 | 2-3/8 x 0.154 x 84 | 50.00 | 48.00 |
| A3 | 2-7/8 x 0.203 x 96 | 49.00 | 118.50 | C3 | 2-3/8 x 0.154 x 96 | 48.00 | 118.50 |
| A4 | 2-3/8 x 0.154 x 84 | 47.00 | 148.50 | C4 | 2-3/8 x 0.154 x 84 | 48.00 | 148.50 |
| A5 | | | | C5 | | | |
| A6 | | | | C6 | | | |
| B1 | 2-3/8 x 0.154 x 84 | 46.50 | 18.00 | D1 | | | |
| B2 | 2-3/8 x 0.154 x 84 | 49.00 | 47.50 | D2 | | | |
| B3 | 2-7/8 x 0.203 x 96 | 50.00 | 119.50 | D3 | | | |
| B4 | 2-3/8 x 0.154 x 84 | 48.50 | 151.00 | D4 | | | |
| B5 | | | | D5 | | | |
| B6 | | | | D6 | | | |
| Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. : | | | | | | | 0.00 |
| Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) : | | | | | | | |
| Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) : | | | | | | | |
| Please enter additional infomation or comments below. | | | | | | | |
| Surge h up from FR | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Tower Face Width at Mount Elev. (ft.): | | | Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): | | | | |

| | Enter antenna model. If not labeled, enter "Unknown". | | | | | | Mounting Locations [Units are inches and degrees] | | | Photos of antennas |
|---|---|---|---|---|---|---|---|---|---|---|
| Ants. Items | Antenna Models if Known | Width (in.) | Depth (in.) | Height (in.) | Coax Size and Qty | Antenna Center-line (Ft.) | Vertical Distances"$b_{1a}$, $b_{2a}$, $b_{3a}$, $b_{1b}$...." (Inches) | Horiz. Offset "h" (Use "-" if Ant. is behind) | Antenna Azimuth (Degrees) | Photo Numbers |
| **Sector A** | | | | | | | | | | |
| $Ant_{1a}$ | | | | | | | | | | |
| $Ant_{1b}$ | Sam RFV01U-D2A | 15.50 | 10.00 | 15.50 | Jumpers | 137 | 24.00 | 0.00 | | 10, 235 |
| $Ant_{1c}$ | | | | | | | | | | |
| $Ant_{2a}$ | | | | | | | | | | |
| $Ant_{2b}$ | Comm SBNHH-1D65B | 12.00 | 7.50 | 72.00 | (2)1-5/8 t> | 135.75 | 41.50 | 11.00 | 30.00 | 10, 235 |
| $Ant_{2c}$ | | | | | | | | | | |
| $Ant_{3a}$ | Sam RFV01U-D1A | 15.50 | 12.00 | 15.50 | Jumpers | 137.167 | 23.00 | 0.00 | | 10, 236 |
| $Ant_{3b}$ | (2) JAHH-65E-R3B | 13.75 | 8.50 | 72.00 | Jupers | 135.542 | 42.50 | 13.00 | 30.00 | 10, 236 |
| $Ant_{3c}$ | | | | | | | | | | |
| $Ant_{4a}$ | | | | | | | | | | |
| $Ant_{4b}$ | Sam RT4401-48A | 8.50 | 4.00 | 13.00 | Jumpers | 136.625 | 27.50 | 10.00 | 30.00 | 10, 251 |
| $Ant_{4c}$ | | | | | | | | | | |
| $Ant_{5a}$ | | | | | | | | | | |
| $Ant_{5b}$ | | | | | | | | | | |
| $Ant_{5c}$ | | | | | | | | | | |
| Ant on Standoff | (2) RRFDC-3315-PF-48 | 14.50 | 11.00 | 19.00 | | | 48.00 | | | 21, 237, 288 |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |

| Mount Azimuth (Degree) for Each Sector | | | | Tower Leg Azimuth (Degree) for Each Sector | |
|---|---|---|---|---|---|
| Sector A: | 30.00 | Deg | Leg A: | | Deg |
| Sector B: | 150.00 | Deg | Leg B: | | Deg |
| Sector C: | 270.00 | Deg | Leg C: | | Deg |
| Sector D: | | Deg | Leg D: | | Deg |

| Climbing Facility Information | | | |
|---|---|---|---|
| Location: | 30.00 | Deg | N/A |
| Climbing Facility | Corrosion Type: | | |
| | Access: | | |
| | Condition: | | |




| Sector B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| $Ant_{1a}$ | | | | | | | | | | |
| $Ant_{1b}$ | Sam RFV01U-D2A | 15.50 | 10.00 | 15.50 | Jumpers | 136.792 | 25.00 | 0.00 | | 21, 256 |
| $Ant_{1c}$ | | | | | | | | | | |
| $Ant_{2a}$ | | | | | | | | | | |
| $Ant_{2b}$ | Comm SBNHH-1D65B | 12.00 | 7.50 | 72.00 | (2)1-5/8 tx | 135.458 | 43.50 | 10.00 | 160.00 | 21, 258 |
| $Ant_{2c}$ | | | | | | | | | | |
| $Ant_{3a}$ | Sam RFV01U-D1A | 15.50 | 12.00 | 15.50 | Jumpers | 136.833 | 28.00 | 0.00 | | 21, 260 |
| $Ant_{3b}$ | (2) JAHH-65E-R3B | 13.75 | 8.50 | 72.00 | Jupers | 135.708 | 41.50 | 14.00 | 160.00 | 21, 260 |
| $Ant_{3c}$ | | | | | | | | | | |
| $Ant_{4a}$ | | | | | | | | | | |
| $Ant_{4b}$ | Sam RT4401-48A | 8.50 | 4.00 | 13.00 | Jumpers | 136.583 | 29.50 | 10.00 | 160.00 | 21, 268 |
| $Ant_{4c}$ | | | | | | | | | | |
| $Ant_{5a}$ | | | | | | | | | | |
| $Ant_{5b}$ | | | | | | | | | | |
| $Ant_{5c}$ | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |

| Sector C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| $Ant_{1a}$ | | | | | | | | | | |
| $Ant_{1b}$ | Sam RFV01U-D2A | 15.50 | 10.00 | 15.50 | Jumpers | 136.833 | 25.50 | 0.00 | | 32, 270 |
| $Ant_{1c}$ | | | | | | | | | | |
| $Ant_{2a}$ | | | | | | | | | | |
| $Ant_{2b}$ | Comm SBNHH-1D65B | 12.00 | 7.50 | 72.00 | (2)1-5/8 tx | 135.625 | 42.50 | 10.00 | 270.00 | 32, 270 |
| $Ant_{2c}$ | | | | | | | | | | |
| $Ant_{3a}$ | Sam RFV01U-D1A | 15.50 | 12.00 | 15.50 | Jumpers | 136.875 | 25.50 | 0.00 | | 32, 276 |
| $Ant_{3b}$ | (2) JAHH-65E-R3B | 13.75 | 8.50 | 72.00 | Jupers | 135.625 | 40.50 | 13.00 | 270.00 | 32, 276 |
| $Ant_{3c}$ | | | | | | | | | | |
| $Ant_{4a}$ | GPS | | | | | 139.167 | -2.00 | -6.00 | | 32, 284 |
| $Ant_{4b}$ | Sam RT4401-48A | 8.50 | 4.00 | 13.00 | Jumpers | 137.333 | 20.00 | 10.00 | 270.00 | 32, 285 |
| $Ant_{4c}$ | | | | | | | | | | |
| $Ant_{5a}$ | | | | | | | | | | |
| $Ant_{5b}$ | | | | | | | | | | |
| $Ant_{5c}$ | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |

| Sector D | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| $Ant_{1a}$ | | | | | | | | | | |
| $Ant_{1b}$ | | | | | | | | | | |
| $Ant_{1c}$ | | | | | | | | | | |
| $Ant_{2a}$ | | | | | | | | | | |
| $Ant_{2b}$ | | | | | | | | | | |
| $Ant_{2c}$ | | | | | | | | | | |
| $Ant_{3a}$ | | | | | | | | | | |
| $Ant_{3b}$ | | | | | | | | | | |
| $Ant_{3c}$ | | | | | | | | | | |
| $Ant_{4a}$ | | | | | | | | | | |
| $Ant_{4b}$ | | | | | | | | | | |
| $Ant_{4c}$ | | | | | | | | | | |
| $Ant_{5a}$ | | | | | | | | | | |
| $Ant_{5b}$ | | | | | | | | | | |
| $Ant_{5c}$ | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |

| Observed Safety and Structural Issues During the Mount Mapping | | |
|---|---|---|
| Issue # | Description of Issue | Photo # |

| | | |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| Mapping Notes |
|---|
| 1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.) |
| 2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness. |
| 3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab. |
| 4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type. |
| 5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required. |
| 6. Please measure and report the size and length of all existing antenna mounting pipes. |
| 7. Please measure and report the antenna information for all sectors. |
| 8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form. |

| Standard Conditions |
|---|
| 1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount. |

V3.0 Updated on 8-31-2020

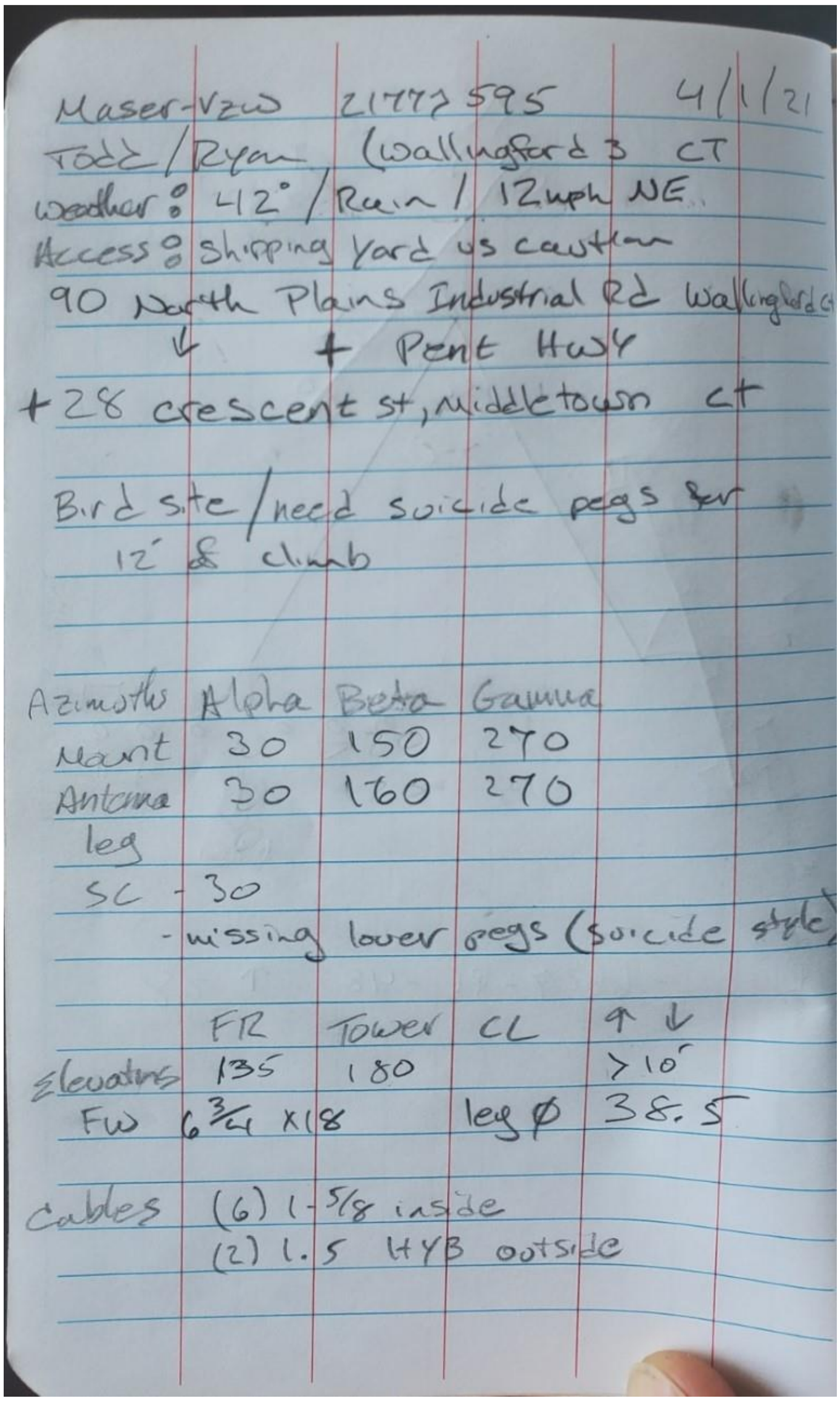
# Antenna Mount Mapping Form (PATENT PENDING)

| FCC # |
|---|
| 1270056 |

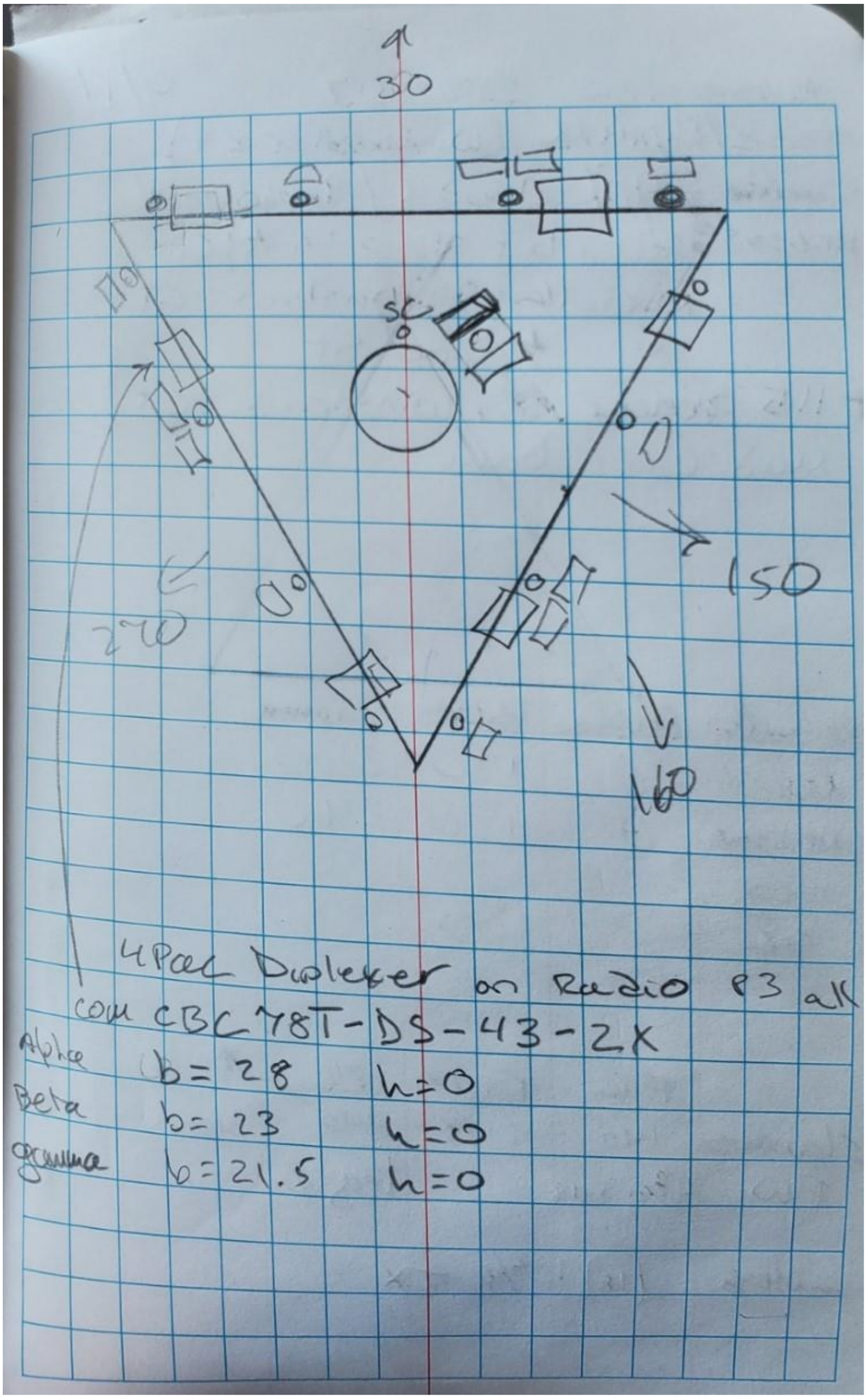
| | | | |
|---|---|---|---|
| **Tower Owner:** | ATC | **Mapping Date:** | 4/1/2021 |
| **Site Name:** | Wallingford 3 CT | **Tower Type:** | Monopole |
| **Site Number or ID:** | 16227578 | **Tower Height (Ft.):** | 180 |
| **Mapping Contractor:** | Structural Components | **Mount Elevation (Ft.):** | 135 |



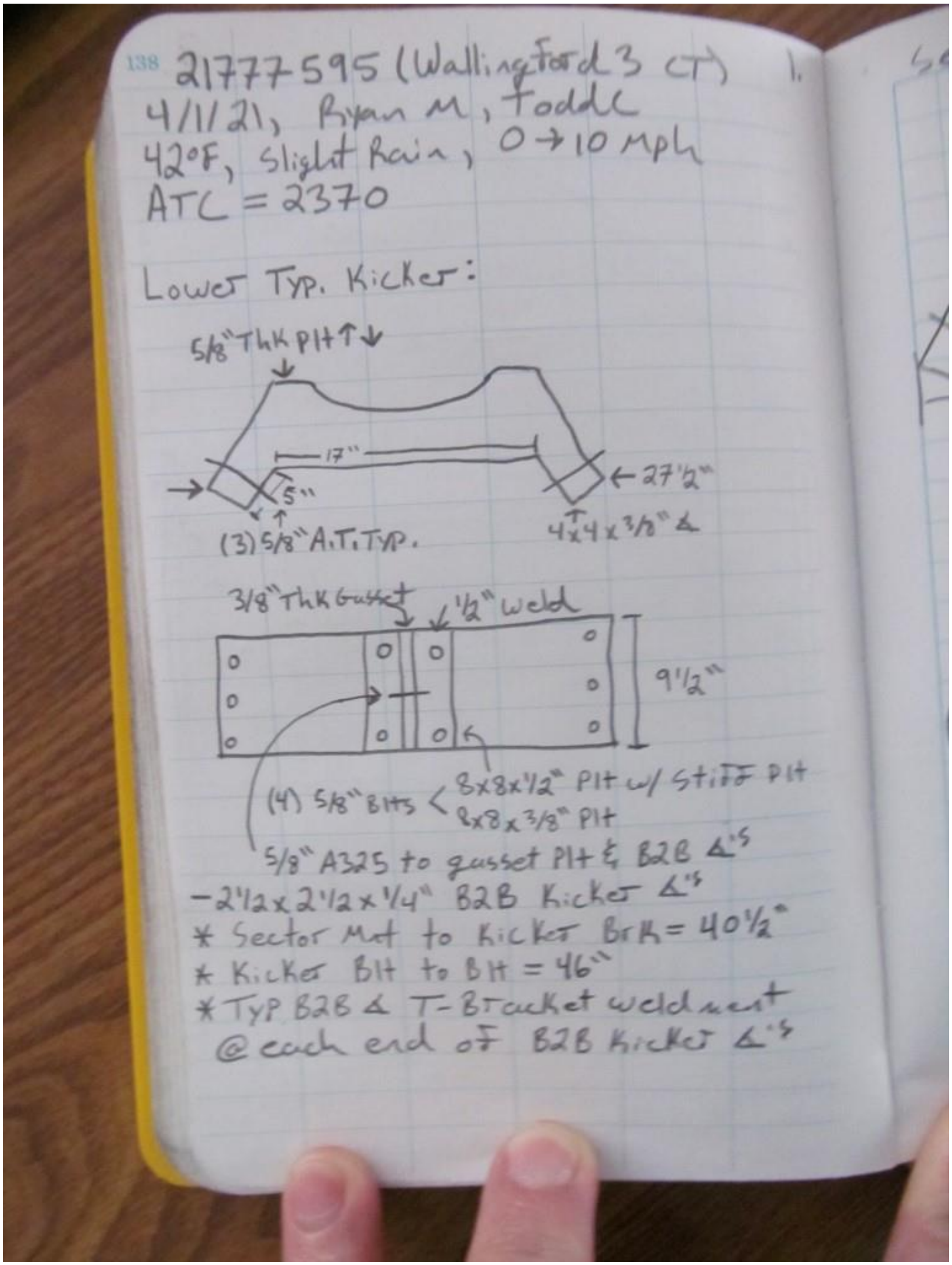
## Please Insert Sketches of the Antenna Mount



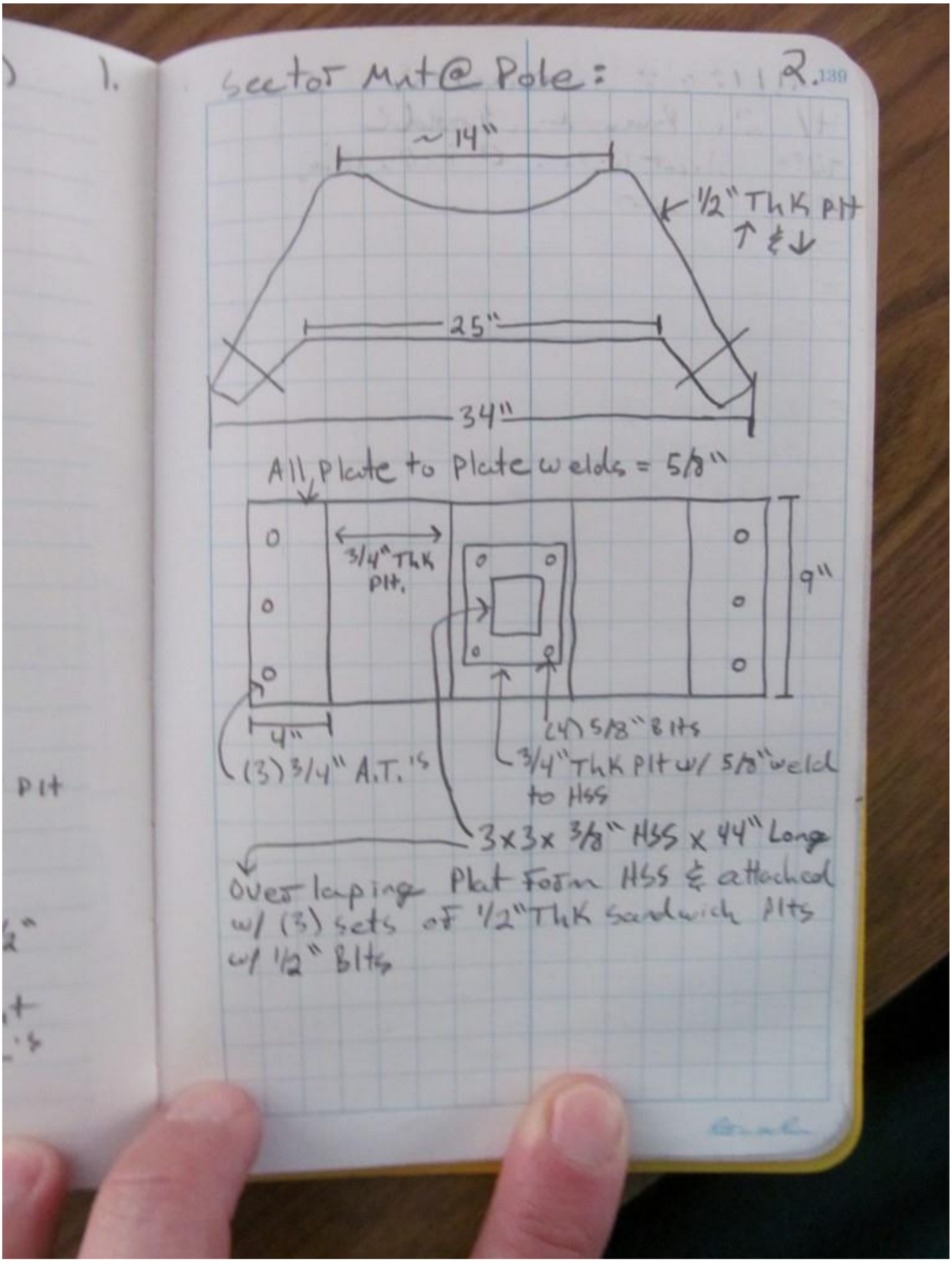
**Please Insert Sketches of the Antenna Mount, cont'd**



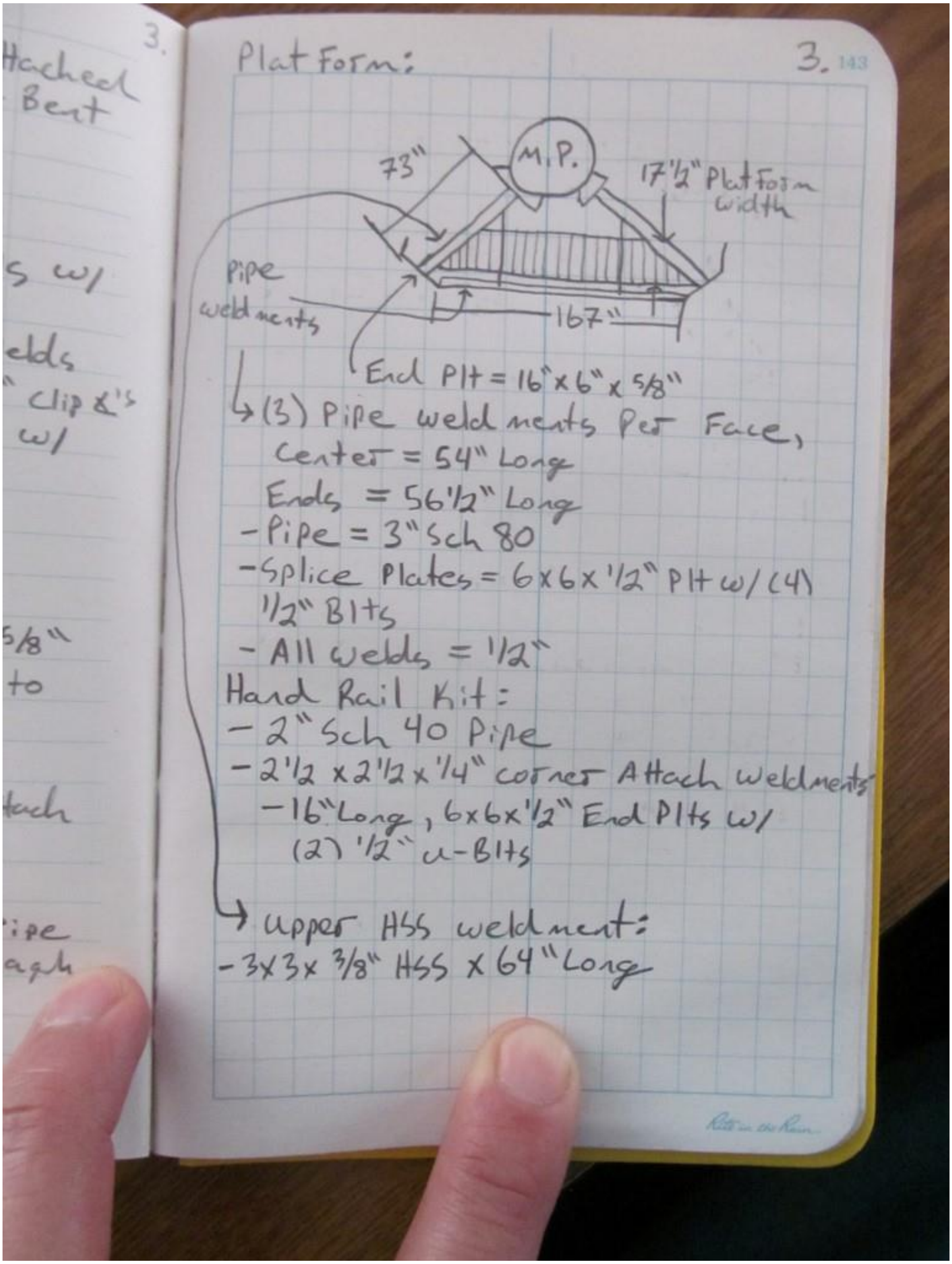
**Please Insert Sketches of the Antenna Mount, cont'd**

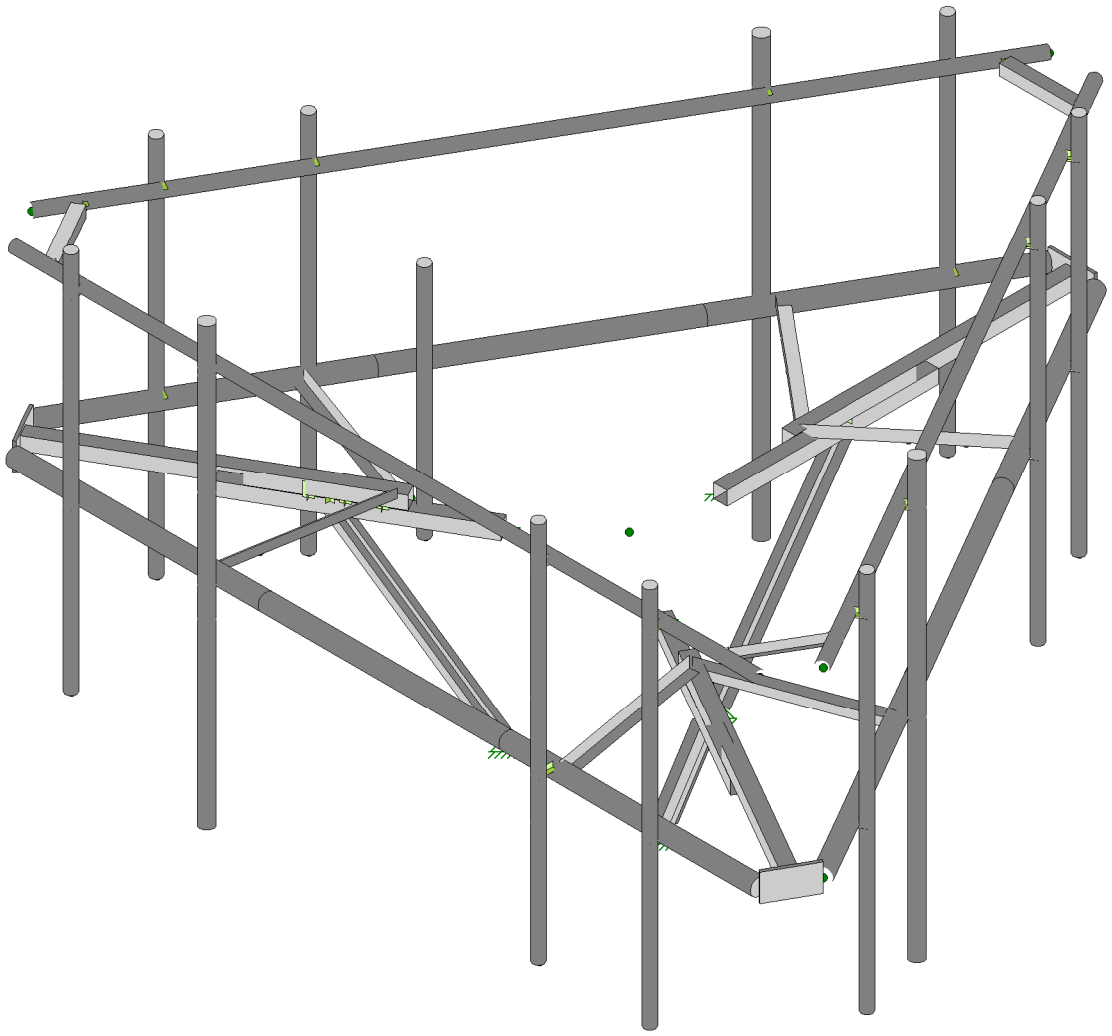


**Please Insert Sketches of the Antenna Mount, cont'd**

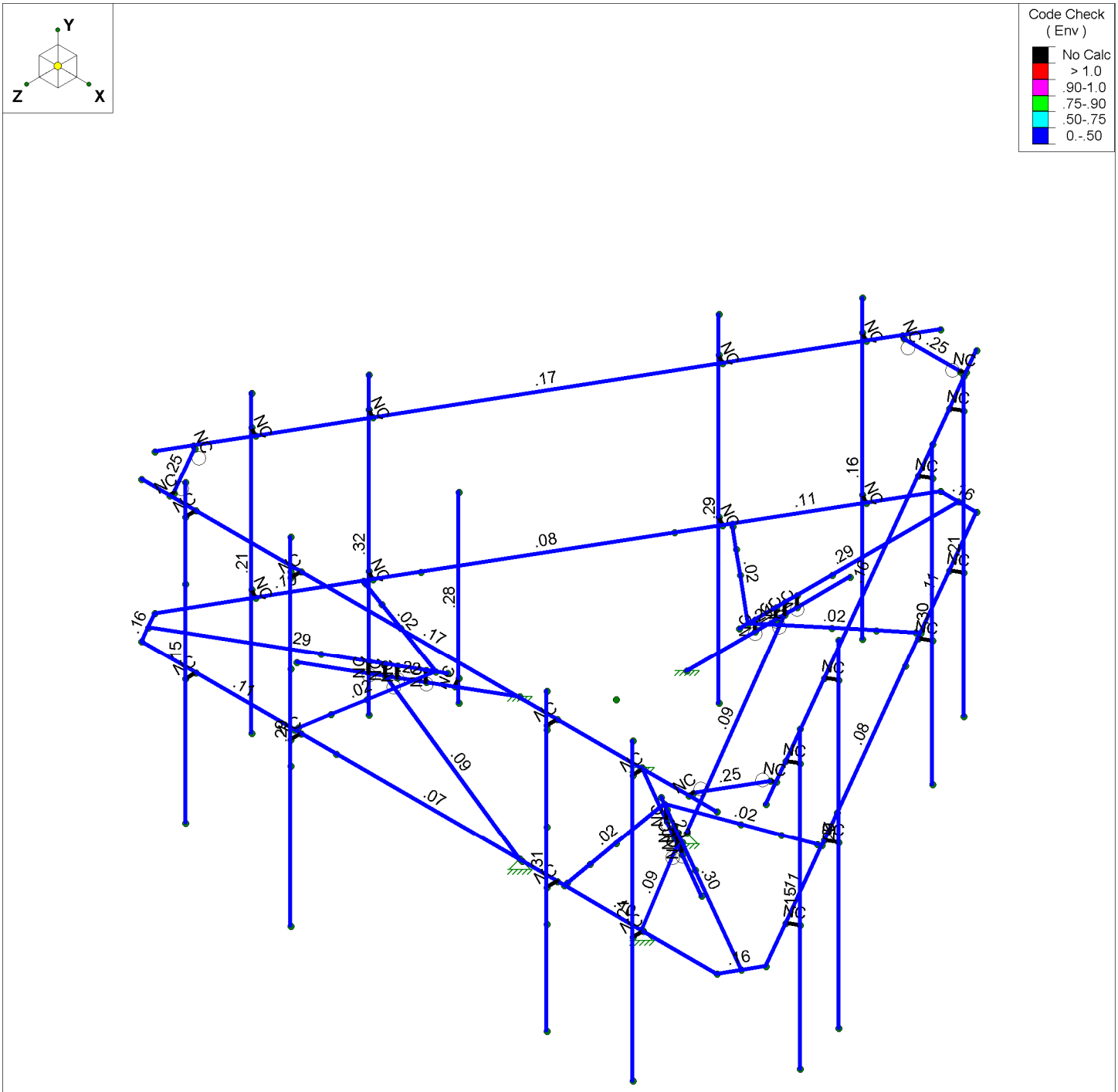


**Please Insert Sketches of the Antenna Mount, cont'd**



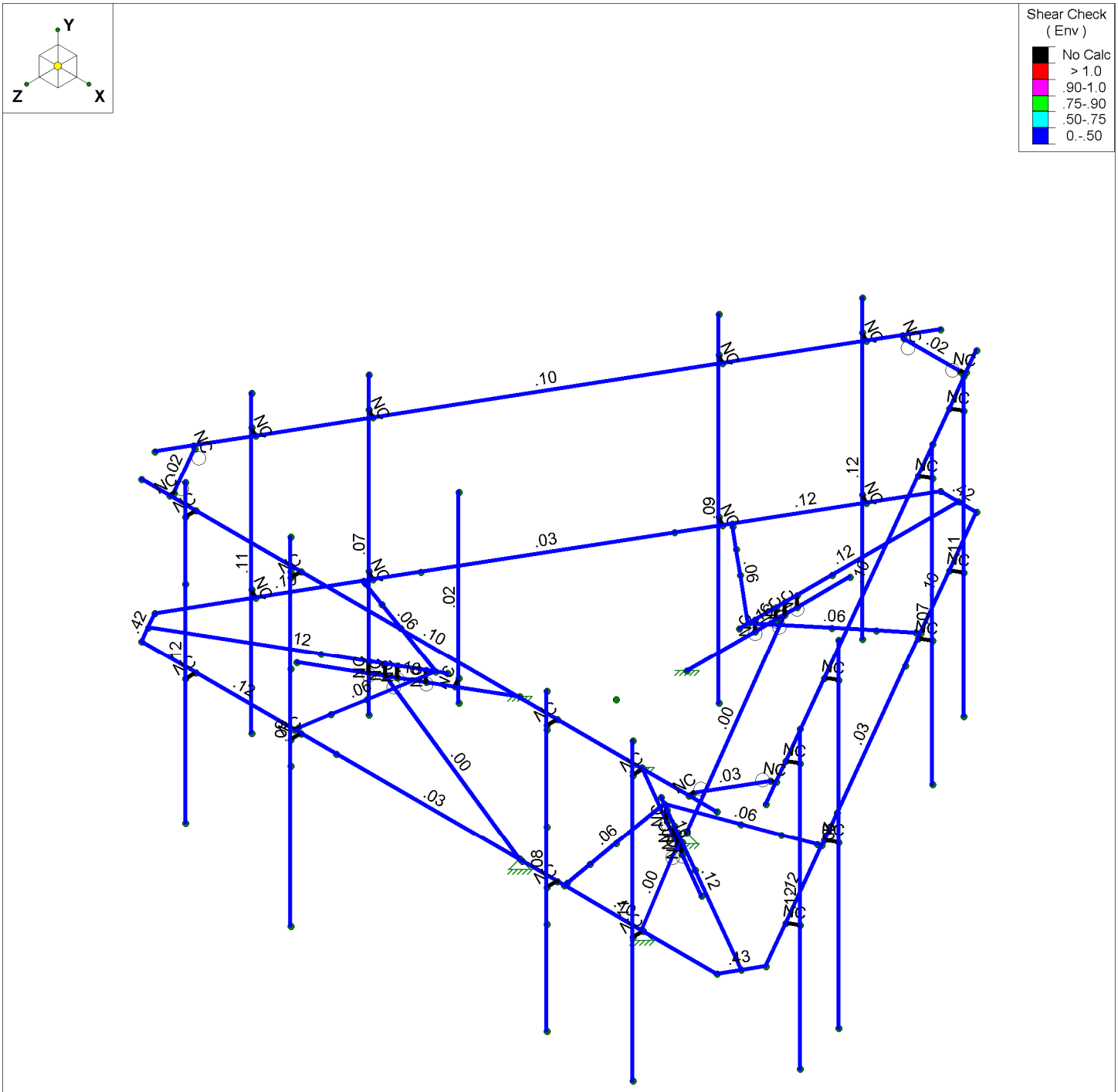



| | | |
|---|---|---|
| Maser Consulting | 469297-VZW_MT_LO_H | SK - 1 |
| NL | | June 9, 2021 at 11:40 AM |
| Project No. 10050697 | | 469297-VZW_MT_LO_H.r3d |




Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|---|---|---|
| Maser Consulting | 469297-VZW_MT_LO_H | SK - 4 |
| NL | | June 9, 2021 at 11:41 AM |
| Project No. 10050697 | | 469297-VZW_MT_LO_H.r3d |




Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|---|---|---|
| Maser Consulting | 469297-VZW_MT_LO_H | SK - 3 |
| NL | | June 9, 2021 at 11:41 AM |
| Project No. 10050697 | | 469297-VZW_MT_LO_H.r3d |

## Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed | Area(Me... | Surface(P... |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Antenna D | None | | | | | 117 | | | |
| 2 | Antenna Di | None | | | | | 117 | | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 117 | | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 117 | | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 117 | | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 117 | | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 117 | | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 117 | | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 117 | | | |
| 10 | Antenna Wo (210 Deg) | None | | | | | 117 | | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 117 | | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 117 | | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 117 | | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 117 | | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 117 | | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 117 | | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 117 | | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 117 | | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 117 | | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 117 | | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 117 | | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 117 | | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 117 | | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 117 | | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 117 | | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 117 | | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 117 | | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 117 | | | |
| 29 | Antenna Wm (60 Deg) | None | | | | | 117 | | | |
| 30 | Antenna Wm (90 Deg) | None | | | | | 117 | | | |
| 31 | Antenna Wm (120 Deg) | None | | | | | 117 | | | |
| 32 | Antenna Wm (150 Deg) | None | | | | | 117 | | | |
| 33 | Antenna Wm (180 Deg) | None | | | | | 117 | | | |
| 34 | Antenna Wm (210 Deg) | None | | | | | 117 | | | |
| 35 | Antenna Wm (240 Deg) | None | | | | | 117 | | | |
| 36 | Antenna Wm (270 Deg) | None | | | | | 117 | | | |
| 37 | Antenna Wm (300 Deg) | None | | | | | 117 | | | |
| 38 | Antenna Wm (330 Deg) | None | | | | | 117 | | | |
| 39 | Structure D | None | | -1 | | | | | 3 | |
| 40 | Structure Di | None | | | | | | 46 | 3 | |
| 41 | Structure Wo (0 Deg) | None | | | | | | 92 | | |
| 42 | Structure Wo (30 Deg) | None | | | | | | 92 | | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 92 | | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 92 | | |
| 45 | Structure Wo (120 D... | None | | | | | | 92 | | |
| 46 | Structure Wo (150 D... | None | | | | | | 92 | | |
| 47 | Structure Wo (180 D... | None | | | | | | 92 | | |
| 48 | Structure Wo (210 D... | None | | | | | | 92 | | |
| 49 | Structure Wo (240 D... | None | | | | | | 92 | | |
| 50 | Structure Wo (270 D... | None | | | | | | 92 | | |
| 51 | Structure Wo (300 D... | None | | | | | | 92 | | |
| 52 | Structure Wo (330 D... | None | | | | | | 92 | | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 92 | | |

## Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed | Area(Me... | Surface(P... |
|---|---|---|---|---|---|---|---|---|---|---|
| 54 | Structure Wi (30 Deg) | None | | | | | | 92 | | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 92 | | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 92 | | |
| 57 | Structure Wi (120 De... | None | | | | | | 92 | | |
| 58 | Structure Wi (150 De... | None | | | | | | 92 | | |
| 59 | Structure Wi (180 De... | None | | | | | | 92 | | |
| 60 | Structure Wi (210 De... | None | | | | | | 92 | | |
| 61 | Structure Wi (240 De... | None | | | | | | 92 | | |
| 62 | Structure Wi (270 De... | None | | | | | | 92 | | |
| 63 | Structure Wi (300 De... | None | | | | | | 92 | | |
| 64 | Structure Wi (330 De... | None | | | | | | 92 | | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 92 | | |
| 66 | Structure Wm (30 De... | None | | | | | | 92 | | |
| 67 | Structure Wm (60 De... | None | | | | | | 92 | | |
| 68 | Structure Wm (90 De... | None | | | | | | 92 | | |
| 69 | Structure Wm (120 D... | None | | | | | | 92 | | |
| 70 | Structure Wm (150 D... | None | | | | | | 92 | | |
| 71 | Structure Wm (180 D... | None | | | | | | 92 | | |
| 72 | Structure Wm (210 D... | None | | | | | | 92 | | |
| 73 | Structure Wm (240 D... | None | | | | | | 92 | | |
| 74 | Structure Wm (270 D... | None | | | | | | 92 | | |
| 75 | Structure Wm (300 D... | None | | | | | | 92 | | |
| 76 | Structure Wm (330 D... | None | | | | | | 92 | | |
| 77 | Lm1 | None | | | | | 1 | | | |
| 78 | Lm2 | None | | | | | 1 | | | |
| 79 | Lv1 | None | | | | | 1 | | | |
| 80 | Lv2 | None | | | | | 1 | | | |
| 81 | BLC 39 Transient Are... | None | | | | | | 15 | | |
| 82 | BLC 40 Transient Are... | None | | | | | | 15 | | |

## Load Combinations

| | Description | So... | PDelta | S... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 3 | 1 | 41 | 1 | | | | | | | | | | | | |
| 2 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 4 | 1 | 42 | 1 | | | | | | | | | | | | |
| 3 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 5 | 1 | 43 | 1 | | | | | | | | | | | | |
| 4 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 6 | 1 | 44 | 1 | | | | | | | | | | | | |
| 5 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 7 | 1 | 45 | 1 | | | | | | | | | | | | |
| 6 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 8 | 1 | 46 | 1 | | | | | | | | | | | | |
| 7 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 9 | 1 | 47 | 1 | | | | | | | | | | | | |
| 8 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 10 | 1 | 48 | 1 | | | | | | | | | | | | |
| 9 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 11 | 1 | 49 | 1 | | | | | | | | | | | | |
| 10 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 12 | 1 | 50 | 1 | | | | | | | | | | | | |
| 11 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 13 | 1 | 51 | 1 | | | | | | | | | | | | |
| 12 | 1.2D+1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 14 | 1 | 52 | 1 | | | | | | | | | | | | |
| 13 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 15 | 1 | 53 | 1 | | | | | | | | |
| 14 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 16 | 1 | 54 | 1 | | | | | | | | |
| 15 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 17 | 1 | 55 | 1 | | | | | | | | |
| 16 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 18 | 1 | 56 | 1 | | | | | | | | |
| 17 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 19 | 1 | 57 | 1 | | | | | | | | |
| 18 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 20 | 1 | 58 | 1 | | | | | | | | |
| 19 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 21 | 1 | 59 | 1 | | | | | | | | |
| 20 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 22 | 1 | 60 | 1 | | | | | | | | |
| 21 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 23 | 1 | 61 | 1 | | | | | | | | |
| 22 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 24 | 1 | 62 | 1 | | | | | | | | |
| 23 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 25 | 1 | 63 | 1 | | | | | | | | |

## Load Combinations (Continued)

| | Description | So... | PDelta | S... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... | BLC | Fac... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 26 | 1 | 64 | 1 | | | | | | | | |
| 25 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 27 | 1 | 65 | 1 | | | | | | | | | | |
| 26 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 28 | 1 | 66 | 1 | | | | | | | | | | |
| 27 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 29 | 1 | 67 | 1 | | | | | | | | | | |
| 28 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 30 | 1 | 68 | 1 | | | | | | | | | | |
| 29 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 31 | 1 | 69 | 1 | | | | | | | | | | |
| 30 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 32 | 1 | 70 | 1 | | | | | | | | | | |
| 31 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 33 | 1 | 71 | 1 | | | | | | | | | | |
| 32 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 34 | 1 | 72 | 1 | | | | | | | | | | |
| 33 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 35 | 1 | 73 | 1 | | | | | | | | | | |
| 34 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 36 | 1 | 74 | 1 | | | | | | | | | | |
| 35 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 37 | 1 | 75 | 1 | | | | | | | | | | |
| 36 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 38 | 1 | 76 | 1 | | | | | | | | | | |
| 37 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 27 | 1 | 65 | 1 | | | | | | | | | | |
| 38 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 28 | 1 | 66 | 1 | | | | | | | | | | |
| 39 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 29 | 1 | 67 | 1 | | | | | | | | | | |
| 40 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 30 | 1 | 68 | 1 | | | | | | | | | | |
| 41 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 31 | 1 | 69 | 1 | | | | | | | | | | |
| 42 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 32 | 1 | 70 | 1 | | | | | | | | | | |
| 43 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 33 | 1 | 71 | 1 | | | | | | | | | | |
| 44 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 34 | 1 | 72 | 1 | | | | | | | | | | |
| 45 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 35 | 1 | 73 | 1 | | | | | | | | | | |
| 46 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 36 | 1 | 74 | 1 | | | | | | | | | | |
| 47 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 37 | 1 | 75 | 1 | | | | | | | | | | |
| 48 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 38 | 1 | 76 | 1 | | | | | | | | | | |
| 49 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 79 | 1.5 | | | | | | | | | | | | | | |
| 50 | 1.2D + 1.... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 80 | 1.5 | | | | | | | | | | | | | | |
| 51 | 1.4D | Yes | Y | | 1 | 1.4 | 39 | 1.4 | | | | | | | | | | | | | | | | |
| 52 | Seismic ... | | Y | | 1 | 1 | 39 | 1 | | | | | | | | | | | | | | | | |
| 53 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | | SY | 1 | SZ | -1 | | | | | | | | | | |
| 54 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .5 | SY | 1 | SZ | -.866 | | | | | | | | | | |
| 55 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .866 | SY | 1 | SZ | -.5 | | | | | | | | | | |
| 56 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | 1 | SY | 1 | SZ | | | | | | | | | | | |
| 57 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .866 | SY | 1 | SZ | .5 | | | | | | | | | | |
| 58 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | .5 | SY | 1 | SZ | .866 | | | | | | | | | | |
| 59 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | | SY | 1 | SZ | 1 | | | | | | | | | | |
| 60 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.5 | SY | 1 | SZ | .866 | | | | | | | | | | |
| 61 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.866 | SY | 1 | SZ | .5 | | | | | | | | | | |
| 62 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -1 | SY | 1 | SZ | | | | | | | | | | | |
| 63 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.866 | SY | 1 | SZ | -.5 | | | | | | | | | | |
| 64 | 1.2D + 1.... | | Y | | 1 | 1.2 | 39 | 1.2 | SX | -.5 | SY | 1 | SZ | -.866 | | | | | | | | | | |

## Joint Coordinates and Temperatures

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 1 | N1 | 0 | 0 | 0 | 0 | |
| 2 | N2 | 6.833333 | 0 | 4.4375 | 0 | |
| 3 | N3 | -6.833333 | 0 | 4.4375 | 0 | |
| 4 | N6 | -2.208333 | 0 | 4.4375 | 0 | |
| 5 | N8 | 2.208333 | 0 | 4.4375 | 0 | |
| 6 | N14 | 0.426321 | 0 | -8.13659 | 0 | |
| 7 | N15 | 7.259654 | 0 | 3.69909 | 0 | |
| 8 | N18 | 4.947154 | 0 | -0.306277 | 0 | |
| 9 | N20 | 2.738821 | 0 | -4.131223 | 0 | |
| 10 | N26 | -7.259654 | 0 | 3.69909 | 0 | |
| 11 | N27 | -0.426321 | 0 | -8.13659 | 0 | |

## Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 12 | N30 | -2.738821 | 0 | -4.131223 | 0 | |
| 13 | N32 | -4.947154 | 0 | -0.306277 | 0 | |
| 14 | N38 | -0. | 0 | -8.13659 | 0 | |
| 15 | N39 | -0. | 0 | -2.928257 | 0 | |
| 16 | N40 | -7.046494 | 0 | 4.068295 | 0 | |
| 17 | N41 | -2.535945 | 0 | 1.464128 | 0 | |
| 18 | N42 | 7.046494 | 0 | 4.068295 | 0 | |
| 19 | N43 | 2.535945 | 0 | 1.464128 | 0 | |
| 20 | N44 | -0. | -.25 | -5.553257 | 0 | |
| 21 | N45 | -0. | -.25 | -1.678257 | 0 | |
| 22 | N46 | -0. | 0 | -4.303257 | 0 | |
| 23 | N47 | -0. | 0 | -3.803257 | 0 | |
| 24 | N48 | -0. | 0 | -3.303257 | 0 | |
| 25 | N49 | -0. | -.25 | -4.303257 | 0 | |
| 26 | N50 | -0. | -.25 | -3.803257 | 0 | |
| 27 | N51 | -0. | -.25 | -3.303257 | 0 | |
| 28 | N52 | -4.809262 | -.25 | 2.776628 | 0 | |
| 29 | N53 | -1.453413 | -.25 | 0.839128 | 0 | |
| 30 | N54 | -3.72673 | 0 | 2.151628 | 0 | |
| 31 | N55 | -3.293717 | 0 | 1.901628 | 0 | |
| 32 | N56 | -2.860704 | 0 | 1.651628 | 0 | |
| 33 | N57 | -3.72673 | -.25 | 2.151628 | 0 | |
| 34 | N58 | -3.293717 | -.25 | 1.901628 | 0 | |
| 35 | N59 | -2.860704 | -.25 | 1.651628 | 0 | |
| 36 | N60 | 4.809262 | -.25 | 2.776628 | 0 | |
| 37 | N61 | 1.453413 | -.25 | 0.839128 | 0 | |
| 38 | N62 | 3.72673 | 0 | 2.151628 | 0 | |
| 39 | N63 | 3.293717 | 0 | 1.901628 | 0 | |
| 40 | N64 | 2.860704 | 0 | 1.651628 | 0 | |
| 41 | N65 | 3.72673 | -.25 | 2.151628 | 0 | |
| 42 | N66 | 3.293717 | -.25 | 1.901628 | 0 | |
| 43 | N67 | 2.860704 | -.25 | 1.651628 | 0 | |
| 44 | N71 | -3.208333 | 0 | 4.4375 | 0 | |
| 45 | N69 | -0. | 0 | -3.13659 | 0 | |
| 46 | N70 | -2.716367 | 0 | 1.568295 | 0 | |
| 47 | N71A | 2.716367 | 0 | 1.568295 | 0 | |
| 48 | N72 | 3.208333 | 0 | 4.4375 | 0 | |
| 49 | N73 | 5.447154 | 0 | 0.559748 | 0 | |
| 50 | N76 | 2.238821 | 0 | -4.997248 | 0 | |
| 51 | N77 | -2.238821 | 0 | -4.997248 | 0 | |
| 52 | N80 | -5.447154 | 0 | 0.559748 | 0 | |
| 53 | N90 | -0. | -3.583333 | -1.678257 | 0 | |
| 54 | N173A | -3.081585 | 0 | 3.698288 | 0 | |
| 55 | N174A | 3.081585 | 0 | 3.698288 | 0 | |
| 56 | N175A | 4.743603 | 0 | 0.819587 | 0 | |
| 57 | N176A | 1.662019 | 0 | -4.517875 | 0 | |
| 58 | N177A | -1.662019 | 0 | -4.517875 | 0 | |
| 59 | N178A | -4.743603 | 0 | 0.819587 | 0 | |
| 60 | N179A | -3.19425 | 0 | 4.355365 | 0 | |
| 61 | N180A | 3.19425 | 0 | 4.355365 | 0 | |
| 62 | N181A | 5.368982 | 0 | 0.588619 | 0 | |
| 63 | N182A | 2.174732 | 0 | -4.943984 | 0 | |
| 64 | N183A | -2.174732 | 0 | -4.943984 | 0 | |
| 65 | N184A | -5.368982 | 0 | 0.588619 | 0 | |
| 66 | N185 | -0. | 0 | -5.13659 | 0 | |
| 67 | N186 | -4.448418 | 0 | 2.568295 | 0 | |
| 68 | N187 | 4.448418 | 0 | 2.568295 | 0 | |

## Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 69 | N182B | -1.085216 | 0 | -4.038501 | 0 | |
| 70 | N183B | 1.085216 | 0 | -4.038501 | 0 | |
| 71 | N184B | -2.954836 | 0 | 2.959075 | 0 | |
| 72 | N185A | -4.040053 | 0 | 1.079425 | 0 | |
| 73 | N186A | 4.040053 | 0 | 1.079425 | 0 | |
| 74 | N187A | 2.954836 | 0 | 2.959075 | 0 | |
| 75 | N80A | 6.833333 | 3.333333 | 4.4375 | 0 | |
| 76 | N81 | -6.833333 | 3.333333 | 4.4375 | 0 | |
| 77 | N83 | 0.426321 | 3.333333 | -8.13659 | 0 | |
| 78 | N84 | 7.259654 | 3.333333 | 3.69909 | 0 | |
| 79 | N86 | -7.259654 | 3.333333 | 3.69909 | 0 | |
| 80 | N87 | -0.426321 | 3.333333 | -8.13659 | 0 | |
| 81 | N86A | 5.083333 | 0 | 4.4375 | 0 | |
| 82 | N87A | 5.083333 | 3.333333 | 4.4375 | 0 | |
| 83 | N88 | 3.041667 | 0 | 4.4375 | 0 | |
| 84 | N89A | 3.041667 | 3.333333 | 4.4375 | 0 | |
| 85 | N90A | -3.041667 | 0 | 4.4375 | 0 | |
| 86 | N91A | -3.041667 | 3.333333 | 4.4375 | 0 | |
| 87 | N92A | -5.541667 | 0 | 4.4375 | 0 | |
| 88 | N93A | -5.541667 | 3.333333 | 4.4375 | 0 | |
| 89 | N94A | 5.083333 | 0 | 4.6875 | 0 | |
| 90 | N95 | 5.083333 | 3.333333 | 4.6875 | 0 | |
| 91 | N96 | 3.041667 | 0 | 4.6875 | 0 | |
| 92 | N97 | 3.041667 | 3.333333 | 4.6875 | 0 | |
| 93 | N98 | -3.041667 | 0 | 4.6875 | 0 | |
| 94 | N99 | -3.041667 | 3.333333 | 4.6875 | 0 | |
| 95 | N100 | -5.541667 | 0 | 4.6875 | 0 | |
| 96 | N101 | -5.541667 | 3.333333 | 4.6875 | 0 | |
| 97 | N102 | 5.083333 | 4.041667 | 4.6875 | 0 | |
| 98 | N103 | 3.041667 | 4.041667 | 4.6875 | 0 | |
| 99 | N104 | -5.541667 | 4.041667 | 4.6875 | 0 | |
| 100 | N105 | 5.083333 | -2.958333 | 4.6875 | 0 | |
| 101 | N106 | 3.041667 | -2.958333 | 4.6875 | 0 | |
| 102 | N107 | -5.541667 | -2.958333 | 4.6875 | 0 | |
| 103 | N108 | -3.041667 | 4.166667 | 4.6875 | 0 | |
| 104 | N109 | -3.041667 | -3.833333 | 4.6875 | 0 | |
| 105 | N111 | 1.301321 | 0 | -6.621046 | 0 | |
| 106 | N112 | 1.301321 | 3.333333 | -6.621046 | 0 | |
| 107 | N113 | 2.322154 | 0 | -4.852911 | 0 | |
| 108 | N114 | 2.322154 | 3.333333 | -4.852911 | 0 | |
| 109 | N115 | 5.363821 | 0 | 0.415411 | 0 | |
| 110 | N116 | 5.363821 | 3.333333 | 0.415411 | 0 | |
| 111 | N117 | 6.613821 | 0 | 2.580474 | 0 | |
| 112 | N118 | 6.613821 | 3.333333 | 2.580474 | 0 | |
| 113 | N119 | 1.517827 | 0 | -6.746046 | 0 | |
| 114 | N120 | 1.517827 | 3.333333 | -6.746046 | 0 | |
| 115 | N121 | 2.538661 | 0 | -4.977911 | 0 | |
| 116 | N122 | 2.538661 | 3.333333 | -4.977911 | 0 | |
| 117 | N123 | 5.580327 | 0 | 0.290411 | 0 | |
| 118 | N124 | 5.580327 | 3.333333 | 0.290411 | 0 | |
| 119 | N125 | 6.830327 | 0 | 2.455474 | 0 | |
| 120 | N126 | 6.830327 | 3.333333 | 2.455474 | 0 | |
| 121 | N127 | 1.517827 | 4.041667 | -6.746046 | 0 | |
| 122 | N128 | 2.538661 | 4.041667 | -4.977911 | 0 | |
| 123 | N129 | 6.830327 | 4.041667 | 2.455474 | 0 | |
| 124 | N130 | 1.517827 | -2.958333 | -6.746046 | 0 | |
| 125 | N131 | 2.538661 | -2.958333 | -4.977911 | 0 | |

## Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 126 | N132 | 6.830327 | -2.958333 | 2.455474 | 0 | |
| 127 | N133 | 5.580327 | 4.166667 | 0.290411 | 0 | |
| 128 | N134 | 5.580327 | -3.833333 | 0.290411 | 0 | |
| 129 | N136 | -6.384654 | 0 | 2.183546 | 0 | |
| 130 | N137 | -6.384654 | 3.333333 | 2.183546 | 0 | |
| 131 | N138 | -5.363821 | 0 | 0.415411 | 0 | |
| 132 | N139 | -5.363821 | 3.333333 | 0.415411 | 0 | |
| 133 | N140 | -2.322154 | 0 | -4.852911 | 0 | |
| 134 | N141 | -2.322154 | 3.333333 | -4.852911 | 0 | |
| 135 | N142 | -1.072154 | 0 | -7.017974 | 0 | |
| 136 | N143 | -1.072154 | 3.333333 | -7.017974 | 0 | |
| 137 | N144 | -6.601161 | 0 | 2.058546 | 0 | |
| 138 | N145 | -6.601161 | 3.333333 | 2.058546 | 0 | |
| 139 | N146 | -5.580327 | 0 | 0.290411 | 0 | |
| 140 | N147 | -5.580327 | 3.333333 | 0.290411 | 0 | |
| 141 | N148 | -2.538661 | 0 | -4.977911 | 0 | |
| 142 | N149 | -2.538661 | 3.333333 | -4.977911 | 0 | |
| 143 | N150 | -1.288661 | 0 | -7.142974 | 0 | |
| 144 | N151 | -1.288661 | 3.333333 | -7.142974 | 0 | |
| 145 | N152 | -6.601161 | 4.041667 | 2.058546 | 0 | |
| 146 | N153 | -5.580327 | 4.041667 | 0.290411 | 0 | |
| 147 | N154 | -1.288661 | 4.041667 | -7.142974 | 0 | |
| 148 | N155 | -6.601161 | -2.958333 | 2.058546 | 0 | |
| 149 | N156 | -5.580327 | -2.958333 | 0.290411 | 0 | |
| 150 | N157 | -1.288661 | -2.958333 | -7.142974 | 0 | |
| 151 | N158 | -2.538661 | 4.166667 | -4.977911 | 0 | |
| 152 | N159 | -2.538661 | -3.833333 | -4.977911 | 0 | |
| 153 | N158A | -6.166667 | 3.333333 | 4.4375 | 0 | |
| 154 | N159A | 6.166667 | 3.333333 | 4.4375 | 0 | |
| 155 | N160 | -6.166667 | 3.333333 | 4.3375 | 0 | |
| 156 | N161 | 6.166667 | 3.333333 | 4.3375 | 0 | |
| 157 | N163 | 6.926321 | 3.333333 | 3.12174 | 0 | |
| 158 | N164 | 0.759654 | 3.333333 | -7.55924 | 0 | |
| 159 | N165 | 6.839719 | 3.333333 | 3.17174 | 0 | |
| 160 | N166 | 0.673052 | 3.333333 | -7.50924 | 0 | |
| 161 | N168 | -0.759654 | 3.333333 | -7.55924 | 0 | |
| 162 | N169 | -6.926321 | 3.333333 | 3.12174 | 0 | |
| 163 | N170 | -0.673052 | 3.333333 | -7.50924 | 0 | |
| 164 | N171 | -6.839719 | 3.333333 | 3.17174 | 0 | |
| 165 | N170A | -0. | -.25 | -4.01159 | 0 | |
| 166 | N170C | -3.041667 | 1.458333 | 4.6875 | 0 | |
| 167 | N171B | -3.041667 | 3.458333 | 4.6875 | 0 | |
| 168 | N172 | -3.041667 | -0.541667 | 4.6875 | 0 | |
| 169 | N173 | 3.041667 | 1.25 | 4.6875 | 0 | |
| 170 | N174 | 3.041667 | 3.25 | 4.6875 | 0 | |
| 171 | N175 | 3.041667 | -.75 | 4.6875 | 0 | |
| 172 | N176 | -5.541667 | 1.958333 | 4.6875 | 0 | |
| 173 | N177 | -2.427692 | -.25 | 1.401628 | 0 | |
| 174 | N178 | -2.552692 | -.25 | 1.185122 | 0 | |
| 175 | N179 | -2.552692 | -.75 | 1.185122 | 0 | |
| 176 | N180 | -2.552692 | 3.583333 | 1.185122 | 0 | |
| 177 | N181 | -0. | 0 | -4.01159 | 0 | |
| 178 | N179B | -1.453413 | -3.583333 | 0.839128 | 0 | |
| 179 | N180B | -3.474139 | -.25 | 2.005795 | 0 | |
| 180 | N181B | -3.474139 | 0 | 2.005795 | 0 | |
| 181 | N183 | 1.453413 | -3.583333 | 0.839128 | 0 | |
| 182 | N184 | 3.474139 | -.25 | 2.005795 | 0 | |

## Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|---|---|---|---|---|---|---|
| 183 | N185B | 3.474139 | 0 | 2.005795 | 0 | |

## Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design R... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Antenna Pipe | PIPE_2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 2 | Face Horizontal | PIPE_3.0X | Beam | Pipe | A53 Gr. B | Typical | 2.83 | 3.7 | 3.7 | 7.4 |
| 3 | Support Rail | PIPE_2.0 | Beam | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 4 | Support Corner An... | L2.5x2.5x4 | Beam | Single Angle | A36 Gr.36 | Typical | 1.19 | .692 | .692 | .026 |
| 5 | Standoff Horizontal | HSS3X3X6 | Beam | Tube | A500 Gr. B 42 | Typical | 3.39 | 3.78 | 3.78 | 6.64 |
| 6 | Cross Brace | L2.5x2x4 | Beam | Single Angle | A36 Gr.36 | Typical | 1.07 | .372 | .656 | .024 |
| 7 | Corner Plate | PL5/8X6 | Beam | RECT | A36 Gr.36 | Typical | 3.75 | .122 | 11.25 | .456 |
| 8 | End Plate | PL5/8X6 | Beam | RECT | A36 Gr.36 | Typical | 3.75 | .122 | 11.25 | .456 |
| 9 | Kicker | LL2.5x2.5... | Beam | Double Angle (No Gap) | A36 Gr.36 | Typical | 2.38 | 2.57 | 1.38 | .052 |
| 10 | Dual Mount Pipe | PIPE_2.5 | Column | Pipe | A53 Gr. B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |

## Hot Rolled Steel Properties

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

## Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Shape | Type | Design List | Material | Design Rul... |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M1 | N3 | N6 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 2 | M3 | N2 | N8 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 3 | M5 | N8 | N6 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 4 | M13 | N15 | N18 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 5 | M15 | N14 | N20 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 6 | M17 | N20 | N18 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 7 | M25 | N27 | N30 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 8 | M27 | N26 | N32 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 9 | M29 | N32 | N30 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 10 | M37 | N3 | N26 | | | End Plate | Beam | RECT | A36 Gr.36 | Typical |
| 11 | M38 | N2 | N15 | | | End Plate | Beam | RECT | A36 Gr.36 | Typical |
| 12 | M39 | N27 | N14 | | | End Plate | Beam | RECT | A36 Gr.36 | Typical |
| 13 | M40 | N38 | N39 | | | Standoff Horizontal | Beam | Tube | A500 Gr.... | Typical |
| 14 | M41 | N40 | N41 | | | Standoff Horizontal | Beam | Tube | A500 Gr.... | Typical |
| 15 | M42 | N42 | N43 | | | Standoff Horizontal | Beam | Tube | A500 Gr.... | Typical |
| 16 | M43 | N44 | N45 | | | Standoff Horizontal | Beam | Tube | A500 Gr.... | Typical |
| 17 | M44 | N48 | N51 | N1 | | RIGID | None | None | RIGID | Typical |
| 18 | M45 | N47 | N50 | N1 | | RIGID | None | None | RIGID | Typical |
| 19 | M46 | N46 | N49 | N1 | | RIGID | None | None | RIGID | Typical |
| 20 | M47 | N52 | N53 | | | Standoff Horizontal | Beam | Tube | A500 Gr.... | Typical |
| 21 | M48 | N56 | N59 | N1 | | RIGID | None | None | RIGID | Typical |
| 22 | M49 | N55 | N58 | N1 | | RIGID | None | None | RIGID | Typical |
| 23 | M50 | N54 | N57 | N1 | | RIGID | None | None | RIGID | Typical |
| 24 | M51 | N60 | N61 | | | Standoff Horizontal | Beam | Tube | A500 Gr.... | Typical |
| 25 | M52 | N64 | N67 | N1 | | RIGID | None | None | RIGID | Typical |
| 26 | M53 | N63 | N66 | N1 | | RIGID | None | None | RIGID | Typical |

## Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Shape | Type | Design List | Material | Design Rul... |
|---|---|---|---|---|---|---|---|---|---|---|
| 27 | M54 | N62 | N65 | N1 | | RIGID | None | None | RIGID | Typical |
| 28 | M70 | N170A | N90 | | | Kicker | Beam | Double Angl... | A36 Gr.36 | Typical |
| 29 | M109A | N71 | N70 | | 270 | Cross Brace | Beam | Single Angle | A36 Gr.36 | Typical |
| 30 | M110A | N72 | N71A | | | Cross Brace | Beam | Single Angle | A36 Gr.36 | Typical |
| 31 | M111 | N73 | N71A | | 270 | Cross Brace | Beam | Single Angle | A36 Gr.36 | Typical |
| 32 | M112A | N76 | N69 | | | Cross Brace | Beam | Single Angle | A36 Gr.36 | Typical |
| 33 | M113A | N77 | N69 | | 270 | Cross Brace | Beam | Single Angle | A36 Gr.36 | Typical |
| 34 | M114 | N80 | N70 | | | Cross Brace | Beam | Single Angle | A36 Gr.36 | Typical |
| 35 | M37A | N81 | N80A | | | Support Rail | Beam | Pipe | A53 Gr. B | Typical |
| 36 | M38A | N84 | N83 | | | Support Rail | Beam | Pipe | A53 Gr. B | Typical |
| 37 | M39A | N87 | N86 | | | Support Rail | Beam | Pipe | A53 Gr. B | Typical |
| 38 | M40A | N101 | N93A | | | RIGID | None | None | RIGID | Typical |
| 39 | M41A | N100 | N92A | | | RIGID | None | None | RIGID | Typical |
| 40 | M42A | N98 | N90A | | | RIGID | None | None | RIGID | Typical |
| 41 | M43A | N99 | N91A | | | RIGID | None | None | RIGID | Typical |
| 42 | M44A | N96 | N88 | | | RIGID | None | None | RIGID | Typical |
| 43 | M45A | N97 | N89A | | | RIGID | None | None | RIGID | Typical |
| 44 | M46A | N95 | N87A | | | RIGID | None | None | RIGID | Typical |
| 45 | M47A | N94A | N86A | | | RIGID | None | None | RIGID | Typical |
| 46 | MP4A | N104 | N107 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 47 | MP2A | N103 | N106 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 48 | MP1A | N102 | N105 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 49 | MP3A | N108 | N109 | | | Dual Mount Pipe | Column | Pipe | A53 Gr. B | Typical |
| 50 | M52A | N126 | N118 | | | RIGID | None | None | RIGID | Typical |
| 51 | M53A | N125 | N117 | | | RIGID | None | None | RIGID | Typical |
| 52 | M54A | N123 | N115 | | | RIGID | None | None | RIGID | Typical |
| 53 | M55 | N124 | N116 | | | RIGID | None | None | RIGID | Typical |
| 54 | M56 | N121 | N113 | | | RIGID | None | None | RIGID | Typical |
| 55 | M57 | N122 | N114 | | | RIGID | None | None | RIGID | Typical |
| 56 | M58 | N120 | N112 | | | RIGID | None | None | RIGID | Typical |
| 57 | M59 | N119 | N111 | | | RIGID | None | None | RIGID | Typical |
| 58 | MP4C | N129 | N132 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 59 | MP2C | N128 | N131 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 60 | MP1C | N127 | N130 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 61 | MP3C | N133 | N134 | | | Dual Mount Pipe | Column | Pipe | A53 Gr. B | Typical |
| 62 | M64 | N151 | N143 | | | RIGID | None | None | RIGID | Typical |
| 63 | M65 | N150 | N142 | | | RIGID | None | None | RIGID | Typical |
| 64 | M66 | N148 | N140 | | | RIGID | None | None | RIGID | Typical |
| 65 | M67 | N149 | N141 | | | RIGID | None | None | RIGID | Typical |
| 66 | M68 | N146 | N138 | | | RIGID | None | None | RIGID | Typical |
| 67 | M69 | N147 | N139 | | | RIGID | None | None | RIGID | Typical |
| 68 | M70A | N145 | N137 | | | RIGID | None | None | RIGID | Typical |
| 69 | M71A | N144 | N136 | | | RIGID | None | None | RIGID | Typical |
| 70 | MP4B | N154 | N157 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 71 | MP2B | N153 | N156 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 72 | MP1B | N152 | N155 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 73 | MP3B | N158 | N159 | | | Dual Mount Pipe | Column | Pipe | A53 Gr. B | Typical |
| 74 | M76 | N158A | N160 | | | RIGID | None | None | RIGID | Typical |
| 75 | M77 | N159A | N161 | | | RIGID | None | None | RIGID | Typical |
| 76 | M78 | N163 | N165 | | | RIGID | None | None | RIGID | Typical |
| 77 | M79 | N164 | N166 | | | RIGID | None | None | RIGID | Typical |
| 78 | M80 | N168 | N170 | | | RIGID | None | None | RIGID | Typical |
| 79 | M81 | N169 | N171 | | | RIGID | None | None | RIGID | Typical |
| 80 | M82 | N171 | N160 | | 90 | Support Corner Angle | Beam | Single Angle | A36 Gr.36 | Typical |
| 81 | M83 | N161 | N165 | | 90 | Support Corner Angle | Beam | Single Angle | A36 Gr.36 | Typical |
| 82 | M84 | N170 | N166 | | 180 | Support Corner Angle | Beam | Single Angle | A36 Gr.36 | Typical |
| 83 | M85 | N177 | N178 | | | RIGID | None | None | RIGID | Typical |

## Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(d... | Section/Shape | Type | Design List | Material | Design Rul... |
|---|---|---|---|---|---|---|---|---|---|---|
| 84 | OVP | N180 | N179 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 85 | M87 | N181 | N170A | | | RIGID | None | None | RIGID | Typical |
| 86 | M86 | N180B | N179B | | | Kicker | Beam | Double Angl... | A36 Gr.36 | Typical |
| 87 | M87A | N181B | N180B | | | RIGID | None | None | RIGID | Typical |
| 88 | M88 | N184 | N183 | | | Kicker | Beam | Double Angl... | A36 Gr.36 | Typical |
| 89 | M89 | N185B | N184 | | | RIGID | None | None | RIGID | Typical |

## Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M1 | | | | | | Yes | | | | None |
| 2 | M3 | | | | | | Yes | | | | None |
| 3 | M5 | | | | | | Yes | | | | None |
| 4 | M13 | | | | | | Yes | | | | None |
| 5 | M15 | | | | | | Yes | | | | None |
| 6 | M17 | | | | | | Yes | | | | None |
| 7 | M25 | | | | | | Yes | | | | None |
| 8 | M27 | | | | | | Yes | | | | None |
| 9 | M29 | | | | | | Yes | | | | None |
| 10 | M37 | | | | | | Yes | | | | None |
| 11 | M38 | | | | | | Yes | | | | None |
| 12 | M39 | | | | | | Yes | | | | None |
| 13 | M40 | | | | | | Yes | | | | None |
| 14 | M41 | | | | | | Yes | | | | None |
| 15 | M42 | | | | | | Yes | | | | None |
| 16 | M43 | | | | | | Yes | | | | None |
| 17 | M44 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 18 | M45 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 19 | M46 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 20 | M47 | | | | | | Yes | | | | None |
| 21 | M48 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 22 | M49 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 23 | M50 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 24 | M51 | | | | | | Yes | | | | None |
| 25 | M52 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 26 | M53 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 27 | M54 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 28 | M70 | BenPIN | | | | | Yes | | | | None |
| 29 | M109A | | | | | Euler Buc... | Yes | | | | None |
| 30 | M110A | | | | | Euler Buc... | Yes | Default | | | None |
| 31 | M111 | | | | | Euler Buc... | Yes | | | | None |
| 32 | M112A | | | | | Euler Buc... | Yes | | | | None |
| 33 | M113A | | | | | Euler Buc... | Yes | Default | | | None |
| 34 | M114 | | | | | Euler Buc... | Yes | | | | None |
| 35 | M37A | | | | | | Yes | | | | None |
| 36 | M38A | | | | | | Yes | | | | None |
| 37 | M39A | | | | | | Yes | | | | None |
| 38 | M40A | | | | | | Yes | ** NA ** | | | None |
| 39 | M41A | | | | | | Yes | ** NA ** | | | None |
| 40 | M42A | | | | | | Yes | ** NA ** | | | None |
| 41 | M43A | | | | | | Yes | ** NA ** | | | None |
| 42 | M44A | | | | | | Yes | ** NA ** | | | None |
| 43 | M45A | | | | | | Yes | ** NA ** | | | None |
| 44 | M46A | | | | | | Yes | ** NA ** | | | None |
| 45 | M47A | | | | | | Yes | ** NA ** | | | None |
| 46 | MP4A | | | | | | Yes | ** NA ** | | | None |

## Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | MP2A | | | | | | Yes | ** NA ** | | | None |
| 48 | MP1A | | | | | | Yes | ** NA ** | | | None |
| 49 | MP3A | | | | | | Yes | ** NA ** | | | None |
| 50 | M52A | | | | | | Yes | ** NA ** | | | None |
| 51 | M53A | | | | | | Yes | ** NA ** | | | None |
| 52 | M54A | | | | | | Yes | ** NA ** | | | None |
| 53 | M55 | | | | | | Yes | ** NA ** | | | None |
| 54 | M56 | | | | | | Yes | ** NA ** | | | None |
| 55 | M57 | | | | | | Yes | ** NA ** | | | None |
| 56 | M58 | | | | | | Yes | ** NA ** | | | None |
| 57 | M59 | | | | | | Yes | ** NA ** | | | None |
| 58 | MP4C | | | | | | Yes | ** NA ** | | | None |
| 59 | MP2C | | | | | | Yes | ** NA ** | | | None |
| 60 | MP1C | | | | | | Yes | ** NA ** | | | None |
| 61 | MP3C | | | | | | Yes | ** NA ** | | | None |
| 62 | M64 | | | | | | Yes | ** NA ** | | | None |
| 63 | M65 | | | | | | Yes | ** NA ** | | | None |
| 64 | M66 | | | | | | Yes | ** NA ** | | | None |
| 65 | M67 | | | | | | Yes | ** NA ** | | | None |
| 66 | M68 | | | | | | Yes | ** NA ** | | | None |
| 67 | M69 | | | | | | Yes | ** NA ** | | | None |
| 68 | M70A | | | | | | Yes | ** NA ** | | | None |
| 69 | M71A | | | | | | Yes | ** NA ** | | | None |
| 70 | MP4B | | | | | | Yes | ** NA ** | | | None |
| 71 | MP2B | | | | | | Yes | ** NA ** | | | None |
| 72 | MP1B | | | | | | Yes | ** NA ** | | | None |
| 73 | MP3B | | | | | | Yes | ** NA ** | | | None |
| 74 | M76 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 75 | M77 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 76 | M78 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 77 | M79 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 78 | M80 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 79 | M81 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 80 | M82 | | | | | | Yes | | | | None |
| 81 | M83 | | | | | | Yes | | | | None |
| 82 | M84 | | | | | | Yes | | | | None |
| 83 | M85 | | | | | | Yes | ** NA ** | | | None |
| 84 | OVP | | | | | | Yes | ** NA ** | | | None |
| 85 | M87 | | | | | | Yes | ** NA ** | | | None |
| 86 | M86 | BenPIN | | | | | Yes | | | | None |
| 87 | M87A | | | | | | Yes | ** NA ** | | | None |
| 88 | M88 | BenPIN | | | | | Yes | | | | None |
| 89 | M89 | | | | | | Yes | ** NA ** | | | None |

## Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | Y | -43.55 | 1 |
| 2 | MP1A | My | -.033 | 1 |
| 3 | MP1A | Mz | 0 | 1 |
| 4 | MP1A | Y | -43.55 | 3 |
| 5 | MP1A | My | -.033 | 3 |
| 6 | MP1A | Mz | 0 | 3 |
| 7 | MP1B | Y | -43.55 | 1 |
| 8 | MP1B | My | .021 | 1 |
| 9 | MP1B | Mz | -.025 | 1 |

## Member Point Loads (BLC 1 : Antenna D) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 10 | MP1B | Y | -43.55 | 3 |
| 11 | MP1B | My | .021 | 3 |
| 12 | MP1B | Mz | -.025 | 3 |
| 13 | MP1C | Y | -43.55 | 1 |
| 14 | MP1C | My | .016 | 1 |
| 15 | MP1C | Mz | .028 | 1 |
| 16 | MP1C | Y | -43.55 | 3 |
| 17 | MP1C | My | .016 | 3 |
| 18 | MP1C | Mz | .028 | 3 |
| 19 | MP3A | Y | -31.65 | .71 |
| 20 | MP3A | My | -.024 | .71 |
| 21 | MP3A | Mz | .021 | .71 |
| 22 | MP3A | Y | -31.65 | 4.71 |
| 23 | MP3A | My | -.024 | 4.71 |
| 24 | MP3A | Mz | .021 | 4.71 |
| 25 | MP3B | Y | -31.65 | .71 |
| 26 | MP3B | My | -.000905 | .71 |
| 27 | MP3B | Mz | -.032 | .71 |
| 28 | MP3B | Y | -31.65 | 4.71 |
| 29 | MP3B | My | -.000905 | 4.71 |
| 30 | MP3B | Mz | -.032 | 4.71 |
| 31 | MP3C | Y | -31.65 | .71 |
| 32 | MP3C | My | .03 | .71 |
| 33 | MP3C | Mz | .01 | .71 |
| 34 | MP3C | Y | -31.65 | 4.71 |
| 35 | MP3C | My | .03 | 4.71 |
| 36 | MP3C | Mz | .01 | 4.71 |
| 37 | MP3A | Y | -31.65 | .71 |
| 38 | MP3A | My | -.024 | .71 |
| 39 | MP3A | Mz | -.021 | .71 |
| 40 | MP3A | Y | -31.65 | 4.71 |
| 41 | MP3A | My | -.024 | 4.71 |
| 42 | MP3A | Mz | -.021 | 4.71 |
| 43 | MP3B | Y | -31.65 | .71 |
| 44 | MP3B | My | .031 | .71 |
| 45 | MP3B | Mz | -.005 | .71 |
| 46 | MP3B | Y | -31.65 | 4.71 |
| 47 | MP3B | My | .031 | 4.71 |
| 48 | MP3B | Mz | -.005 | 4.71 |
| 49 | MP3C | Y | -31.65 | .71 |
| 50 | MP3C | My | -.006 | .71 |
| 51 | MP3C | Mz | .031 | .71 |
| 52 | MP3C | Y | -31.65 | 4.71 |
| 53 | MP3C | My | -.006 | 4.71 |
| 54 | MP3C | Mz | .031 | 4.71 |
| 55 | MP2A | Y | -20 | .8 |
| 56 | MP2A | My | -.015 | .8 |
| 57 | MP2A | Mz | 0 | .8 |
| 58 | MP2A | Y | -20 | 4.8 |
| 59 | MP2A | My | -.015 | 4.8 |
| 60 | MP2A | Mz | 0 | 4.8 |
| 61 | MP2B | Y | -20 | .8 |
| 62 | MP2B | My | .01 | .8 |
| 63 | MP2B | Mz | -.011 | .8 |
| 64 | MP2B | Y | -20 | 4.8 |
| 65 | MP2B | My | .01 | 4.8 |
| 66 | MP2B | Mz | -.011 | 4.8 |

## Member Point Loads (BLC 1 : Antenna D) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 67 | MP2C | Y | -20 | .8 |
| 68 | MP2C | My | .007 | .8 |
| 69 | MP2C | Mz | .013 | .8 |
| 70 | MP2C | Y | -20 | 4.8 |
| 71 | MP2C | My | .007 | 4.8 |
| 72 | MP2C | Mz | .013 | 4.8 |
| 73 | MP4A | Y | -4.4 | 2.08 |
| 74 | MP4A | My | -.003 | 2.08 |
| 75 | MP4A | Mz | 0 | 2.08 |
| 76 | MP4B | Y | -4.4 | 2.08 |
| 77 | MP4B | My | .002 | 2.08 |
| 78 | MP4B | Mz | -.003 | 2.08 |
| 79 | MP4C | Y | -4.4 | 2.08 |
| 80 | MP4C | My | .002 | 2.08 |
| 81 | MP4C | Mz | .003 | 2.08 |
| 82 | MP3A | Y | -10.4 | 2.08 |
| 83 | MP3A | My | .007 | 2.08 |
| 84 | MP3A | Mz | .002 | 2.08 |
| 85 | MP3B | Y | -10.4 | 2.08 |
| 86 | MP3B | My | .007 | 2.08 |
| 87 | MP3B | Mz | .002 | 2.08 |
| 88 | MP3C | Y | -10.4 | 2.08 |
| 89 | MP3C | My | .007 | 2.08 |
| 90 | MP3C | Mz | .002 | 2.08 |
| 91 | OVP | Y | -26.9 | 1 |
| 92 | OVP | My | -.012 | 1 |
| 93 | OVP | Mz | .007 | 1 |
| 94 | MP3A | Y | -84.4 | 2.08 |
| 95 | MP3A | My | .015 | 2.08 |
| 96 | MP3A | Mz | -.058 | 2.08 |
| 97 | MP3B | Y | -84.4 | 2.08 |
| 98 | MP3B | My | .015 | 2.08 |
| 99 | MP3B | Mz | -.058 | 2.08 |
| 100 | MP3C | Y | -84.4 | 2.08 |
| 101 | MP3C | My | .015 | 2.08 |
| 102 | MP3C | Mz | -.058 | 2.08 |
| 103 | MP1A | Y | -70.3 | 2.08 |
| 104 | MP1A | My | .013 | 2.08 |
| 105 | MP1A | Mz | -.048 | 2.08 |
| 106 | MP1B | Y | -70.3 | 2.08 |
| 107 | MP1B | My | .013 | 2.08 |
| 108 | MP1B | Mz | -.048 | 2.08 |
| 109 | MP1C | Y | -70.3 | 2.08 |
| 110 | MP1C | My | .013 | 2.08 |
| 111 | MP1C | Mz | -.048 | 2.08 |
| 112 | MP4C | Y | -10 | 1 |
| 113 | MP4C | My | 0 | 1 |
| 114 | MP4C | Mz | 0 | 1 |
| 115 | OVP | Y | -26.9 | 1 |
| 116 | OVP | My | .012 | 1 |
| 117 | OVP | Mz | -.007 | 1 |

## Member Point Loads (BLC 2 : Antenna Di)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | Y | -35.607 | 1 |
| 2 | MP1A | My | -.027 | 1 |

## Member Point Loads (BLC 2 : Antenna Di) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 3 | MP1A | Mz | 0 | 1 |
| 4 | MP1A | Y | -35.607 | 3 |
| 5 | MP1A | My | -.027 | 3 |
| 6 | MP1A | Mz | 0 | 3 |
| 7 | MP1B | Y | -35.607 | 1 |
| 8 | MP1B | My | .017 | 1 |
| 9 | MP1B | Mz | -.02 | 1 |
| 10 | MP1B | Y | -35.607 | 3 |
| 11 | MP1B | My | .017 | 3 |
| 12 | MP1B | Mz | -.02 | 3 |
| 13 | MP1C | Y | -35.607 | 1 |
| 14 | MP1C | My | .013 | 1 |
| 15 | MP1C | Mz | .023 | 1 |
| 16 | MP1C | Y | -35.607 | 3 |
| 17 | MP1C | My | .013 | 3 |
| 18 | MP1C | Mz | .023 | 3 |
| 19 | MP3A | Y | -69.935 | .71 |
| 20 | MP3A | My | -.052 | .71 |
| 21 | MP3A | Mz | .047 | .71 |
| 22 | MP3A | Y | -69.935 | 4.71 |
| 23 | MP3A | My | -.052 | 4.71 |
| 24 | MP3A | Mz | .047 | 4.71 |
| 25 | MP3B | Y | -69.935 | .71 |
| 26 | MP3B | My | -.002 | .71 |
| 27 | MP3B | Mz | -.07 | .71 |
| 28 | MP3B | Y | -69.935 | 4.71 |
| 29 | MP3B | My | -.002 | 4.71 |
| 30 | MP3B | Mz | -.07 | 4.71 |
| 31 | MP3C | Y | -69.935 | .71 |
| 32 | MP3C | My | .067 | .71 |
| 33 | MP3C | Mz | .022 | .71 |
| 34 | MP3C | Y | -69.935 | 4.71 |
| 35 | MP3C | My | .067 | 4.71 |
| 36 | MP3C | Mz | .022 | 4.71 |
| 37 | MP3A | Y | -69.935 | .71 |
| 38 | MP3A | My | -.052 | .71 |
| 39 | MP3A | Mz | -.047 | .71 |
| 40 | MP3A | Y | -69.935 | 4.71 |
| 41 | MP3A | My | -.052 | 4.71 |
| 42 | MP3A | Mz | -.047 | 4.71 |
| 43 | MP3B | Y | -69.935 | .71 |
| 44 | MP3B | My | .069 | .71 |
| 45 | MP3B | Mz | -.01 | .71 |
| 46 | MP3B | Y | -69.935 | 4.71 |
| 47 | MP3B | My | .069 | 4.71 |
| 48 | MP3B | Mz | -.01 | 4.71 |
| 49 | MP3C | Y | -69.935 | .71 |
| 50 | MP3C | My | -.014 | .71 |
| 51 | MP3C | Mz | .069 | .71 |
| 52 | MP3C | Y | -69.935 | 4.71 |
| 53 | MP3C | My | -.014 | 4.71 |
| 54 | MP3C | Mz | .069 | 4.71 |
| 55 | MP2A | Y | -61.05 | .8 |
| 56 | MP2A | My | -.046 | .8 |
| 57 | MP2A | Mz | 0 | .8 |
| 58 | MP2A | Y | -61.05 | 4.8 |
| 59 | MP2A | My | -.046 | 4.8 |

## Member Point Loads (BLC 2 : Antenna Di) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 60 | MP2A | Mz | 0 | 4.8 |
| 61 | MP2B | Y | -61.05 | .8 |
| 62 | MP2B | My | .029 | .8 |
| 63 | MP2B | Mz | -.035 | .8 |
| 64 | MP2B | Y | -61.05 | 4.8 |
| 65 | MP2B | My | .029 | 4.8 |
| 66 | MP2B | Mz | -.035 | 4.8 |
| 67 | MP2C | Y | -61.05 | .8 |
| 68 | MP2C | My | .023 | .8 |
| 69 | MP2C | Mz | .04 | .8 |
| 70 | MP2C | Y | -61.05 | 4.8 |
| 71 | MP2C | My | .023 | 4.8 |
| 72 | MP2C | Mz | .04 | 4.8 |
| 73 | MP4A | Y | -13.446 | 2.08 |
| 74 | MP4A | My | -.01 | 2.08 |
| 75 | MP4A | Mz | 0 | 2.08 |
| 76 | MP4B | Y | -13.446 | 2.08 |
| 77 | MP4B | My | .006 | 2.08 |
| 78 | MP4B | Mz | -.008 | 2.08 |
| 79 | MP4C | Y | -13.446 | 2.08 |
| 80 | MP4C | My | .005 | 2.08 |
| 81 | MP4C | Mz | .009 | 2.08 |
| 82 | MP3A | Y | -10.739 | 2.08 |
| 83 | MP3A | My | .007 | 2.08 |
| 84 | MP3A | Mz | .002 | 2.08 |
| 85 | MP3B | Y | -10.739 | 2.08 |
| 86 | MP3B | My | .007 | 2.08 |
| 87 | MP3B | Mz | .002 | 2.08 |
| 88 | MP3C | Y | -10.739 | 2.08 |
| 89 | MP3C | My | .007 | 2.08 |
| 90 | MP3C | Mz | .002 | 2.08 |
| 91 | OVP | Y | -55.279 | 1 |
| 92 | OVP | My | -.024 | 1 |
| 93 | OVP | Mz | .014 | 1 |
| 94 | MP3A | Y | -44.892 | 2.08 |
| 95 | MP3A | My | .008 | 2.08 |
| 96 | MP3A | Mz | -.031 | 2.08 |
| 97 | MP3B | Y | -44.892 | 2.08 |
| 98 | MP3B | My | .008 | 2.08 |
| 99 | MP3B | Mz | -.031 | 2.08 |
| 100 | MP3C | Y | -44.892 | 2.08 |
| 101 | MP3C | My | .008 | 2.08 |
| 102 | MP3C | Mz | -.031 | 2.08 |
| 103 | MP1A | Y | -40.372 | 2.08 |
| 104 | MP1A | My | .007 | 2.08 |
| 105 | MP1A | Mz | -.028 | 2.08 |
| 106 | MP1B | Y | -40.372 | 2.08 |
| 107 | MP1B | My | .007 | 2.08 |
| 108 | MP1B | Mz | -.028 | 2.08 |
| 109 | MP1C | Y | -40.372 | 2.08 |
| 110 | MP1C | My | .007 | 2.08 |
| 111 | MP1C | Mz | -.028 | 2.08 |
| 112 | MP4C | Y | -11.384 | 1 |
| 113 | MP4C | My | 0 | 1 |
| 114 | MP4C | Mz | 0 | 1 |
| 115 | OVP | Y | -55.279 | 1 |
| 116 | OVP | My | .024 | 1 |

## Member Point Loads (BLC 2 : Antenna Di) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 117 | OVP | Mz | -.014 | 1 |

## Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 0 | 1 |
| 2 | MP1A | Z | -78.753 | 1 |
| 3 | MP1A | Mx | 0 | 1 |
| 4 | MP1A | X | 0 | 3 |
| 5 | MP1A | Z | -78.753 | 3 |
| 6 | MP1A | Mx | 0 | 3 |
| 7 | MP1B | X | 0 | 1 |
| 8 | MP1B | Z | -50.632 | 1 |
| 9 | MP1B | Mx | .029 | 1 |
| 10 | MP1B | X | 0 | 3 |
| 11 | MP1B | Z | -50.632 | 3 |
| 12 | MP1B | Mx | .029 | 3 |
| 13 | MP1C | X | 0 | 1 |
| 14 | MP1C | Z | -42.812 | 1 |
| 15 | MP1C | Mx | -.028 | 1 |
| 16 | MP1C | X | 0 | 3 |
| 17 | MP1C | Z | -42.812 | 3 |
| 18 | MP1C | Mx | -.028 | 3 |
| 19 | MP3A | X | 0 | .71 |
| 20 | MP3A | Z | -152.647 | .71 |
| 21 | MP3A | Mx | -.102 | .71 |
| 22 | MP3A | X | 0 | 4.71 |
| 23 | MP3A | Z | -152.647 | 4.71 |
| 24 | MP3A | Mx | -.102 | 4.71 |
| 25 | MP3B | X | 0 | .71 |
| 26 | MP3B | Z | -121.903 | .71 |
| 27 | MP3B | Mx | .122 | .71 |
| 28 | MP3B | X | 0 | 4.71 |
| 29 | MP3B | Z | -121.903 | 4.71 |
| 30 | MP3B | Mx | .122 | 4.71 |
| 31 | MP3C | X | 0 | .71 |
| 32 | MP3C | Z | -113.354 | .71 |
| 33 | MP3C | Mx | -.036 | .71 |
| 34 | MP3C | X | 0 | 4.71 |
| 35 | MP3C | Z | -113.354 | 4.71 |
| 36 | MP3C | Mx | -.036 | 4.71 |
| 37 | MP3A | X | 0 | .71 |
| 38 | MP3A | Z | -152.647 | .71 |
| 39 | MP3A | Mx | .102 | .71 |
| 40 | MP3A | X | 0 | 4.71 |
| 41 | MP3A | Z | -152.647 | 4.71 |
| 42 | MP3A | Mx | .102 | 4.71 |
| 43 | MP3B | X | 0 | .71 |
| 44 | MP3B | Z | -121.903 | .71 |
| 45 | MP3B | Mx | .018 | .71 |
| 46 | MP3B | X | 0 | 4.71 |
| 47 | MP3B | Z | -121.903 | 4.71 |
| 48 | MP3B | Mx | .018 | 4.71 |
| 49 | MP3C | X | 0 | .71 |
| 50 | MP3C | Z | -113.354 | .71 |
| 51 | MP3C | Mx | -.111 | .71 |
| 52 | MP3C | X | 0 | 4.71 |

## Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 53 | MP3C | Z | -113.354 | 4.71 |
| 54 | MP3C | Mx | -.111 | 4.71 |
| 55 | MP2A | X | 0 | .8 |
| 56 | MP2A | Z | -136.729 | .8 |
| 57 | MP2A | Mx | 0 | .8 |
| 58 | MP2A | X | 0 | 4.8 |
| 59 | MP2A | Z | -136.729 | 4.8 |
| 60 | MP2A | Mx | 0 | 4.8 |
| 61 | MP2B | X | 0 | .8 |
| 62 | MP2B | Z | -109.553 | .8 |
| 63 | MP2B | Mx | .063 | .8 |
| 64 | MP2B | X | 0 | 4.8 |
| 65 | MP2B | Z | -109.553 | 4.8 |
| 66 | MP2B | Mx | .063 | 4.8 |
| 67 | MP2C | X | 0 | .8 |
| 68 | MP2C | Z | -101.997 | .8 |
| 69 | MP2C | Mx | -.066 | .8 |
| 70 | MP2C | X | 0 | 4.8 |
| 71 | MP2C | Z | -101.997 | 4.8 |
| 72 | MP2C | Mx | -.066 | 4.8 |
| 73 | MP4A | X | 0 | 2.08 |
| 74 | MP4A | Z | -29.826 | 2.08 |
| 75 | MP4A | Mx | 0 | 2.08 |
| 76 | MP4B | X | 0 | 2.08 |
| 77 | MP4B | Z | -15.756 | 2.08 |
| 78 | MP4B | Mx | .009 | 2.08 |
| 79 | MP4C | X | 0 | 2.08 |
| 80 | MP4C | Z | -11.843 | 2.08 |
| 81 | MP4C | Mx | -.008 | 2.08 |
| 82 | MP3A | X | 0 | 2.08 |
| 83 | MP3A | Z | -11.444 | 2.08 |
| 84 | MP3A | Mx | -.002 | 2.08 |
| 85 | MP3B | X | 0 | 2.08 |
| 86 | MP3B | Z | -11.444 | 2.08 |
| 87 | MP3B | Mx | -.002 | 2.08 |
| 88 | MP3C | X | 0 | 2.08 |
| 89 | MP3C | Z | -11.444 | 2.08 |
| 90 | MP3C | Mx | -.002 | 2.08 |
| 91 | OVP | X | 0 | 1 |
| 92 | OVP | Z | -76.437 | 1 |
| 93 | OVP | Mx | -.019 | 1 |
| 94 | MP3A | X | 0 | 2.08 |
| 95 | MP3A | Z | -57.473 | 2.08 |
| 96 | MP3A | Mx | .039 | 2.08 |
| 97 | MP3B | X | 0 | 2.08 |
| 98 | MP3B | Z | -57.473 | 2.08 |
| 99 | MP3B | Mx | .039 | 2.08 |
| 100 | MP3C | X | 0 | 2.08 |
| 101 | MP3C | Z | -57.473 | 2.08 |
| 102 | MP3C | Mx | .039 | 2.08 |
| 103 | MP1A | X | 0 | 2.08 |
| 104 | MP1A | Z | -55.483 | 2.08 |
| 105 | MP1A | Mx | .038 | 2.08 |
| 106 | MP1B | X | 0 | 2.08 |
| 107 | MP1B | Z | -55.483 | 2.08 |
| 108 | MP1B | Mx | .038 | 2.08 |
| 109 | MP1C | X | 0 | 2.08 |

## Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 110 | MP1C | Z | -55.483 | 2.08 |
| 111 | MP1C | Mx | .038 | 2.08 |
| 112 | MP4C | X | 0 | 1 |
| 113 | MP4C | Z | -30.161 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 0 | 1 |
| 116 | OVP | Z | -76.437 | 1 |
| 117 | OVP | Mx | .019 | 1 |

## Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 33.386 | 1 |
| 2 | MP1A | Z | -57.827 | 1 |
| 3 | MP1A | Mx | -.025 | 1 |
| 4 | MP1A | X | 33.386 | 3 |
| 5 | MP1A | Z | -57.827 | 3 |
| 6 | MP1A | Mx | -.025 | 3 |
| 7 | MP1B | X | 16.138 | 1 |
| 8 | MP1B | Z | -27.952 | 1 |
| 9 | MP1B | Mx | .024 | 1 |
| 10 | MP1B | X | 16.138 | 3 |
| 11 | MP1B | Z | -27.952 | 3 |
| 12 | MP1B | Mx | .024 | 3 |
| 13 | MP1C | X | 33.386 | 1 |
| 14 | MP1C | Z | -57.827 | 1 |
| 15 | MP1C | Mx | -.025 | 1 |
| 16 | MP1C | X | 33.386 | 3 |
| 17 | MP1C | Z | -57.827 | 3 |
| 18 | MP1C | Mx | -.025 | 3 |
| 19 | MP3A | X | 69.775 | .71 |
| 20 | MP3A | Z | -120.853 | .71 |
| 21 | MP3A | Mx | -.133 | .71 |
| 22 | MP3A | X | 69.775 | 4.71 |
| 23 | MP3A | Z | -120.853 | 4.71 |
| 24 | MP3A | Mx | -.133 | 4.71 |
| 25 | MP3B | X | 50.918 | .71 |
| 26 | MP3B | Z | -88.193 | .71 |
| 27 | MP3B | Mx | .087 | .71 |
| 28 | MP3B | X | 50.918 | 4.71 |
| 29 | MP3B | Z | -88.193 | 4.71 |
| 30 | MP3B | Mx | .087 | 4.71 |
| 31 | MP3C | X | 69.775 | .71 |
| 32 | MP3C | Z | -120.853 | .71 |
| 33 | MP3C | Mx | .028 | .71 |
| 34 | MP3C | X | 69.775 | 4.71 |
| 35 | MP3C | Z | -120.853 | 4.71 |
| 36 | MP3C | Mx | .028 | 4.71 |
| 37 | MP3A | X | 69.775 | .71 |
| 38 | MP3A | Z | -120.853 | .71 |
| 39 | MP3A | Mx | .028 | .71 |
| 40 | MP3A | X | 69.775 | 4.71 |
| 41 | MP3A | Z | -120.853 | 4.71 |
| 42 | MP3A | Mx | .028 | 4.71 |
| 43 | MP3B | X | 50.918 | .71 |
| 44 | MP3B | Z | -88.193 | .71 |
| 45 | MP3B | Mx | .063 | .71 |

## Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 46 | MP3B | X | 50.918 | 4.71 |
| 47 | MP3B | Z | -88.193 | 4.71 |
| 48 | MP3B | Mx | .063 | 4.71 |
| 49 | MP3C | X | 69.775 | .71 |
| 50 | MP3C | Z | -120.853 | .71 |
| 51 | MP3C | Mx | -.133 | .71 |
| 52 | MP3C | X | 69.775 | 4.71 |
| 53 | MP3C | Z | -120.853 | 4.71 |
| 54 | MP3C | Mx | -.133 | 4.71 |
| 55 | MP2A | X | 62.576 | .8 |
| 56 | MP2A | Z | -108.384 | .8 |
| 57 | MP2A | Mx | -.047 | .8 |
| 58 | MP2A | X | 62.576 | 4.8 |
| 59 | MP2A | Z | -108.384 | 4.8 |
| 60 | MP2A | Mx | -.047 | 4.8 |
| 61 | MP2B | X | 45.908 | .8 |
| 62 | MP2B | Z | -79.515 | .8 |
| 63 | MP2B | Mx | .068 | .8 |
| 64 | MP2B | X | 45.908 | 4.8 |
| 65 | MP2B | Z | -79.515 | 4.8 |
| 66 | MP2B | Mx | .068 | 4.8 |
| 67 | MP2C | X | 62.576 | .8 |
| 68 | MP2C | Z | -108.384 | .8 |
| 69 | MP2C | Mx | -.047 | .8 |
| 70 | MP2C | X | 62.576 | 4.8 |
| 71 | MP2C | Z | -108.384 | 4.8 |
| 72 | MP2C | Mx | -.047 | 4.8 |
| 73 | MP4A | X | 11.916 | 2.08 |
| 74 | MP4A | Z | -20.639 | 2.08 |
| 75 | MP4A | Mx | -.009 | 2.08 |
| 76 | MP4B | X | 3.286 | 2.08 |
| 77 | MP4B | Z | -5.692 | 2.08 |
| 78 | MP4B | Mx | .005 | 2.08 |
| 79 | MP4C | X | 11.916 | 2.08 |
| 80 | MP4C | Z | -20.639 | 2.08 |
| 81 | MP4C | Mx | -.009 | 2.08 |
| 82 | MP3A | X | 4.767 | 2.08 |
| 83 | MP3A | Z | -8.257 | 2.08 |
| 84 | MP3A | Mx | .002 | 2.08 |
| 85 | MP3B | X | 4.767 | 2.08 |
| 86 | MP3B | Z | -8.257 | 2.08 |
| 87 | MP3B | Mx | .002 | 2.08 |
| 88 | MP3C | X | 4.767 | 2.08 |
| 89 | MP3C | Z | -8.257 | 2.08 |
| 90 | MP3C | Mx | .002 | 2.08 |
| 91 | OVP | X | 30.875 | 1 |
| 92 | OVP | Z | -53.477 | 1 |
| 93 | OVP | Mx | -.027 | 1 |
| 94 | MP3A | X | 23.542 | 2.08 |
| 95 | MP3A | Z | -40.776 | 2.08 |
| 96 | MP3A | Mx | .032 | 2.08 |
| 97 | MP3B | X | 23.542 | 2.08 |
| 98 | MP3B | Z | -40.776 | 2.08 |
| 99 | MP3B | Mx | .032 | 2.08 |
| 100 | MP3C | X | 23.542 | 2.08 |
| 101 | MP3C | Z | -40.776 | 2.08 |
| 102 | MP3C | Mx | .032 | 2.08 |

## Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 103 | MP1A | X | 20.557 | 2.08 |
| 104 | MP1A | Z | -35.607 | 2.08 |
| 105 | MP1A | Mx | .028 | 2.08 |
| 106 | MP1B | X | 20.557 | 2.08 |
| 107 | MP1B | Z | -35.607 | 2.08 |
| 108 | MP1B | Mx | .028 | 2.08 |
| 109 | MP1C | X | 20.557 | 2.08 |
| 110 | MP1C | Z | -35.607 | 2.08 |
| 111 | MP1C | Mx | .028 | 2.08 |
| 112 | MP4C | X | 11.729 | 1 |
| 113 | MP4C | Z | -20.316 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 30.875 | 1 |
| 116 | OVP | Z | -53.477 | 1 |
| 117 | OVP | Mx | .027 | 1 |

## Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 37.076 | 1 |
| 2 | MP1A | Z | -21.406 | 1 |
| 3 | MP1A | Mx | -.028 | 1 |
| 4 | MP1A | X | 37.076 | 3 |
| 5 | MP1A | Z | -21.406 | 3 |
| 6 | MP1A | Mx | -.028 | 3 |
| 7 | MP1B | X | 31.556 | 1 |
| 8 | MP1B | Z | -18.219 | 1 |
| 9 | MP1B | Mx | .026 | 1 |
| 10 | MP1B | X | 31.556 | 3 |
| 11 | MP1B | Z | -18.219 | 3 |
| 12 | MP1B | Mx | .026 | 3 |
| 13 | MP1C | X | 68.202 | 1 |
| 14 | MP1C | Z | -39.377 | 1 |
| 15 | MP1C | Mx | 0 | 1 |
| 16 | MP1C | X | 68.202 | 3 |
| 17 | MP1C | Z | -39.377 | 3 |
| 18 | MP1C | Mx | 0 | 3 |
| 19 | MP3A | X | 98.168 | .71 |
| 20 | MP3A | Z | -56.677 | .71 |
| 21 | MP3A | Mx | -.111 | .71 |
| 22 | MP3A | X | 98.168 | 4.71 |
| 23 | MP3A | Z | -56.677 | 4.71 |
| 24 | MP3A | Mx | -.111 | 4.71 |
| 25 | MP3B | X | 92.132 | .71 |
| 26 | MP3B | Z | -53.193 | .71 |
| 27 | MP3B | Mx | .051 | .71 |
| 28 | MP3B | X | 92.132 | 4.71 |
| 29 | MP3B | Z | -53.193 | 4.71 |
| 30 | MP3B | Mx | .051 | 4.71 |
| 31 | MP3C | X | 132.196 | .71 |
| 32 | MP3C | Z | -76.323 | .71 |
| 33 | MP3C | Mx | .102 | .71 |
| 34 | MP3C | X | 132.196 | 4.71 |
| 35 | MP3C | Z | -76.323 | 4.71 |
| 36 | MP3C | Mx | .102 | 4.71 |
| 37 | MP3A | X | 98.168 | .71 |
| 38 | MP3A | Z | -56.677 | .71 |

## Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 39 | MP3A | Mx | -.036 | .71 |
| 40 | MP3A | X | 98.168 | 4.71 |
| 41 | MP3A | Z | -56.677 | 4.71 |
| 42 | MP3A | Mx | -.036 | 4.71 |
| 43 | MP3B | X | 92.132 | .71 |
| 44 | MP3B | Z | -53.193 | .71 |
| 45 | MP3B | Mx | .099 | .71 |
| 46 | MP3B | X | 92.132 | 4.71 |
| 47 | MP3B | Z | -53.193 | 4.71 |
| 48 | MP3B | Mx | .099 | 4.71 |
| 49 | MP3C | X | 132.196 | .71 |
| 50 | MP3C | Z | -76.323 | .71 |
| 51 | MP3C | Mx | -.102 | .71 |
| 52 | MP3C | X | 132.196 | 4.71 |
| 53 | MP3C | Z | -76.323 | 4.71 |
| 54 | MP3C | Mx | -.102 | 4.71 |
| 55 | MP2A | X | 88.332 | .8 |
| 56 | MP2A | Z | -50.998 | .8 |
| 57 | MP2A | Mx | -.066 | .8 |
| 58 | MP2A | X | 88.332 | 4.8 |
| 59 | MP2A | Z | -50.998 | 4.8 |
| 60 | MP2A | Mx | -.066 | 4.8 |
| 61 | MP2B | X | 82.997 | .8 |
| 62 | MP2B | Z | -47.918 | .8 |
| 63 | MP2B | Mx | .068 | .8 |
| 64 | MP2B | X | 82.997 | 4.8 |
| 65 | MP2B | Z | -47.918 | 4.8 |
| 66 | MP2B | Mx | .068 | 4.8 |
| 67 | MP2C | X | 118.411 | .8 |
| 68 | MP2C | Z | -68.364 | .8 |
| 69 | MP2C | Mx | 0 | .8 |
| 70 | MP2C | X | 118.411 | 4.8 |
| 71 | MP2C | Z | -68.364 | 4.8 |
| 72 | MP2C | Mx | 0 | 4.8 |
| 73 | MP4A | X | 10.256 | 2.08 |
| 74 | MP4A | Z | -5.922 | 2.08 |
| 75 | MP4A | Mx | -.008 | 2.08 |
| 76 | MP4B | X | 7.494 | 2.08 |
| 77 | MP4B | Z | -4.327 | 2.08 |
| 78 | MP4B | Mx | .006 | 2.08 |
| 79 | MP4C | X | 25.83 | 2.08 |
| 80 | MP4C | Z | -14.913 | 2.08 |
| 81 | MP4C | Mx | 0 | 2.08 |
| 82 | MP3A | X | 7.43 | 2.08 |
| 83 | MP3A | Z | -4.29 | 2.08 |
| 84 | MP3A | Mx | .004 | 2.08 |
| 85 | MP3B | X | 7.43 | 2.08 |
| 86 | MP3B | Z | -4.29 | 2.08 |
| 87 | MP3B | Mx | .004 | 2.08 |
| 88 | MP3C | X | 7.43 | 2.08 |
| 89 | MP3C | Z | -4.29 | 2.08 |
| 90 | MP3C | Mx | .004 | 2.08 |
| 91 | OVP | X | 47.118 | 1 |
| 92 | OVP | Z | -27.203 | 1 |
| 93 | OVP | Mx | -.027 | 1 |
| 94 | MP3A | X | 36.278 | 2.08 |
| 95 | MP3A | Z | -20.945 | 2.08 |

## Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 96 | MP3A | Mx | .021 | 2.08 |
| 97 | MP3B | X | 36.278 | 2.08 |
| 98 | MP3B | Z | -20.945 | 2.08 |
| 99 | MP3B | Mx | .021 | 2.08 |
| 100 | MP3C | X | 36.278 | 2.08 |
| 101 | MP3C | Z | -20.945 | 2.08 |
| 102 | MP3C | Mx | .021 | 2.08 |
| 103 | MP1A | X | 29.385 | 2.08 |
| 104 | MP1A | Z | -16.965 | 2.08 |
| 105 | MP1A | Mx | .017 | 2.08 |
| 106 | MP1B | X | 29.385 | 2.08 |
| 107 | MP1B | Z | -16.965 | 2.08 |
| 108 | MP1B | Mx | .017 | 2.08 |
| 109 | MP1C | X | 29.385 | 2.08 |
| 110 | MP1C | Z | -16.965 | 2.08 |
| 111 | MP1C | Mx | .017 | 2.08 |
| 112 | MP4C | X | 17.413 | 1 |
| 113 | MP4C | Z | -10.054 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 47.118 | 1 |
| 116 | OVP | Z | -27.203 | 1 |
| 117 | OVP | Mx | .027 | 1 |

## Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 30.832 | 1 |
| 2 | MP1A | Z | 0 | 1 |
| 3 | MP1A | Mx | -.023 | 1 |
| 4 | MP1A | X | 30.832 | 3 |
| 5 | MP1A | Z | 0 | 3 |
| 6 | MP1A | Mx | -.023 | 3 |
| 7 | MP1B | X | 58.953 | 1 |
| 8 | MP1B | Z | 0 | 1 |
| 9 | MP1B | Mx | .028 | 1 |
| 10 | MP1B | X | 58.953 | 3 |
| 11 | MP1B | Z | 0 | 3 |
| 12 | MP1B | Mx | .028 | 3 |
| 13 | MP1C | X | 66.773 | 1 |
| 14 | MP1C | Z | 0 | 1 |
| 15 | MP1C | Mx | .025 | 1 |
| 16 | MP1C | X | 66.773 | 3 |
| 17 | MP1C | Z | 0 | 3 |
| 18 | MP1C | Mx | .025 | 3 |
| 19 | MP3A | X | 100.257 | .71 |
| 20 | MP3A | Z | 0 | .71 |
| 21 | MP3A | Mx | -.075 | .71 |
| 22 | MP3A | X | 100.257 | 4.71 |
| 23 | MP3A | Z | 0 | 4.71 |
| 24 | MP3A | Mx | -.075 | 4.71 |
| 25 | MP3B | X | 131 | .71 |
| 26 | MP3B | Z | 0 | .71 |
| 27 | MP3B | Mx | -.004 | .71 |
| 28 | MP3B | X | 131 | 4.71 |
| 29 | MP3B | Z | 0 | 4.71 |
| 30 | MP3B | Mx | -.004 | 4.71 |
| 31 | MP3C | X | 139.549 | .71 |

## Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 32 | MP3C | Z | 0 | .71 |
| 33 | MP3C | Mx | .133 | .71 |
| 34 | MP3C | X | 139.549 | 4.71 |
| 35 | MP3C | Z | 0 | 4.71 |
| 36 | MP3C | Mx | .133 | 4.71 |
| 37 | MP3A | X | 100.257 | .71 |
| 38 | MP3A | Z | 0 | .71 |
| 39 | MP3A | Mx | -.075 | .71 |
| 40 | MP3A | X | 100.257 | 4.71 |
| 41 | MP3A | Z | 0 | 4.71 |
| 42 | MP3A | Mx | -.075 | 4.71 |
| 43 | MP3B | X | 131 | .71 |
| 44 | MP3B | Z | 0 | .71 |
| 45 | MP3B | Mx | .13 | .71 |
| 46 | MP3B | X | 131 | 4.71 |
| 47 | MP3B | Z | 0 | 4.71 |
| 48 | MP3B | Mx | .13 | 4.71 |
| 49 | MP3C | X | 139.549 | .71 |
| 50 | MP3C | Z | 0 | .71 |
| 51 | MP3C | Mx | -.028 | .71 |
| 52 | MP3C | X | 139.549 | 4.71 |
| 53 | MP3C | Z | 0 | 4.71 |
| 54 | MP3C | Mx | -.028 | 4.71 |
| 55 | MP2A | X | 90.42 | .8 |
| 56 | MP2A | Z | 0 | .8 |
| 57 | MP2A | Mx | -.068 | .8 |
| 58 | MP2A | X | 90.42 | 4.8 |
| 59 | MP2A | Z | 0 | 4.8 |
| 60 | MP2A | Mx | -.068 | 4.8 |
| 61 | MP2B | X | 117.595 | .8 |
| 62 | MP2B | Z | 0 | .8 |
| 63 | MP2B | Mx | .057 | .8 |
| 64 | MP2B | X | 117.595 | 4.8 |
| 65 | MP2B | Z | 0 | 4.8 |
| 66 | MP2B | Mx | .057 | 4.8 |
| 67 | MP2C | X | 125.151 | .8 |
| 68 | MP2C | Z | 0 | .8 |
| 69 | MP2C | Mx | .047 | .8 |
| 70 | MP2C | X | 125.151 | 4.8 |
| 71 | MP2C | Z | 0 | 4.8 |
| 72 | MP2C | Mx | .047 | 4.8 |
| 73 | MP4A | X | 5.849 | 2.08 |
| 74 | MP4A | Z | 0 | 2.08 |
| 75 | MP4A | Mx | -.004 | 2.08 |
| 76 | MP4B | X | 19.919 | 2.08 |
| 77 | MP4B | Z | 0 | 2.08 |
| 78 | MP4B | Mx | .01 | 2.08 |
| 79 | MP4C | X | 23.831 | 2.08 |
| 80 | MP4C | Z | 0 | 2.08 |
| 81 | MP4C | Mx | .009 | 2.08 |
| 82 | MP3A | X | 9.534 | 2.08 |
| 83 | MP3A | Z | 0 | 2.08 |
| 84 | MP3A | Mx | .007 | 2.08 |
| 85 | MP3B | X | 9.534 | 2.08 |
| 86 | MP3B | Z | 0 | 2.08 |
| 87 | MP3B | Mx | .007 | 2.08 |
| 88 | MP3C | X | 9.534 | 2.08 |

## Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 89 | MP3C | Z | 0 | 2.08 |
| 90 | MP3C | Mx | .007 | 2.08 |
| 91 | OVP | X | 61.75 | 1 |
| 92 | OVP | Z | 0 | 1 |
| 93 | OVP | Mx | -.027 | 1 |
| 94 | MP3A | X | 47.084 | 2.08 |
| 95 | MP3A | Z | 0 | 2.08 |
| 96 | MP3A | Mx | .009 | 2.08 |
| 97 | MP3B | X | 47.084 | 2.08 |
| 98 | MP3B | Z | 0 | 2.08 |
| 99 | MP3B | Mx | .009 | 2.08 |
| 100 | MP3C | X | 47.084 | 2.08 |
| 101 | MP3C | Z | 0 | 2.08 |
| 102 | MP3C | Mx | .009 | 2.08 |
| 103 | MP1A | X | 41.115 | 2.08 |
| 104 | MP1A | Z | 0 | 2.08 |
| 105 | MP1A | Mx | .008 | 2.08 |
| 106 | MP1B | X | 41.115 | 2.08 |
| 107 | MP1B | Z | 0 | 2.08 |
| 108 | MP1B | Mx | .008 | 2.08 |
| 109 | MP1C | X | 41.115 | 2.08 |
| 110 | MP1C | Z | 0 | 2.08 |
| 111 | MP1C | Mx | .008 | 2.08 |
| 112 | MP4C | X | 23.458 | 1 |
| 113 | MP4C | Z | 0 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 61.75 | 1 |
| 116 | OVP | Z | 0 | 1 |
| 117 | OVP | Mx | .027 | 1 |

## Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 37.076 | 1 |
| 2 | MP1A | Z | 21.406 | 1 |
| 3 | MP1A | Mx | -.028 | 1 |
| 4 | MP1A | X | 37.076 | 3 |
| 5 | MP1A | Z | 21.406 | 3 |
| 6 | MP1A | Mx | -.028 | 3 |
| 7 | MP1B | X | 66.951 | 1 |
| 8 | MP1B | Z | 38.654 | 1 |
| 9 | MP1B | Mx | .01 | 1 |
| 10 | MP1B | X | 66.951 | 3 |
| 11 | MP1B | Z | 38.654 | 3 |
| 12 | MP1B | Mx | .01 | 3 |
| 13 | MP1C | X | 37.076 | 1 |
| 14 | MP1C | Z | 21.406 | 1 |
| 15 | MP1C | Mx | .028 | 1 |
| 16 | MP1C | X | 37.076 | 3 |
| 17 | MP1C | Z | 21.406 | 3 |
| 18 | MP1C | Mx | .028 | 3 |
| 19 | MP3A | X | 98.168 | .71 |
| 20 | MP3A | Z | 56.677 | .71 |
| 21 | MP3A | Mx | -.036 | .71 |
| 22 | MP3A | X | 98.168 | 4.71 |
| 23 | MP3A | Z | 56.677 | 4.71 |
| 24 | MP3A | Mx | -.036 | 4.71 |

## Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 25 | MP3B | X | 130.828 | .71 |
| 26 | MP3B | Z | 75.534 | .71 |
| 27 | MP3B | Mx | -.08 | .71 |
| 28 | MP3B | X | 130.828 | 4.71 |
| 29 | MP3B | Z | 75.534 | 4.71 |
| 30 | MP3B | Mx | -.08 | 4.71 |
| 31 | MP3C | X | 98.168 | .71 |
| 32 | MP3C | Z | 56.677 | .71 |
| 33 | MP3C | Mx | .111 | .71 |
| 34 | MP3C | X | 98.168 | 4.71 |
| 35 | MP3C | Z | 56.677 | 4.71 |
| 36 | MP3C | Mx | .111 | 4.71 |
| 37 | MP3A | X | 98.168 | .71 |
| 38 | MP3A | Z | 56.677 | .71 |
| 39 | MP3A | Mx | -.111 | .71 |
| 40 | MP3A | X | 98.168 | 4.71 |
| 41 | MP3A | Z | 56.677 | 4.71 |
| 42 | MP3A | Mx | -.111 | 4.71 |
| 43 | MP3B | X | 130.828 | .71 |
| 44 | MP3B | Z | 75.534 | .71 |
| 45 | MP3B | Mx | .119 | .71 |
| 46 | MP3B | X | 130.828 | 4.71 |
| 47 | MP3B | Z | 75.534 | 4.71 |
| 48 | MP3B | Mx | .119 | 4.71 |
| 49 | MP3C | X | 98.168 | .71 |
| 50 | MP3C | Z | 56.677 | .71 |
| 51 | MP3C | Mx | .036 | .71 |
| 52 | MP3C | X | 98.168 | 4.71 |
| 53 | MP3C | Z | 56.677 | 4.71 |
| 54 | MP3C | Mx | .036 | 4.71 |
| 55 | MP2A | X | 88.332 | .8 |
| 56 | MP2A | Z | 50.998 | .8 |
| 57 | MP2A | Mx | -.066 | .8 |
| 58 | MP2A | X | 88.332 | 4.8 |
| 59 | MP2A | Z | 50.998 | 4.8 |
| 60 | MP2A | Mx | -.066 | 4.8 |
| 61 | MP2B | X | 117.201 | .8 |
| 62 | MP2B | Z | 67.666 | .8 |
| 63 | MP2B | Mx | .018 | .8 |
| 64 | MP2B | X | 117.201 | 4.8 |
| 65 | MP2B | Z | 67.666 | 4.8 |
| 66 | MP2B | Mx | .018 | 4.8 |
| 67 | MP2C | X | 88.332 | .8 |
| 68 | MP2C | Z | 50.998 | .8 |
| 69 | MP2C | Mx | .066 | .8 |
| 70 | MP2C | X | 88.332 | 4.8 |
| 71 | MP2C | Z | 50.998 | 4.8 |
| 72 | MP2C | Mx | .066 | 4.8 |
| 73 | MP4A | X | 10.256 | 2.08 |
| 74 | MP4A | Z | 5.922 | 2.08 |
| 75 | MP4A | Mx | -.008 | 2.08 |
| 76 | MP4B | X | 25.204 | 2.08 |
| 77 | MP4B | Z | 14.551 | 2.08 |
| 78 | MP4B | Mx | .004 | 2.08 |
| 79 | MP4C | X | 10.256 | 2.08 |
| 80 | MP4C | Z | 5.922 | 2.08 |
| 81 | MP4C | Mx | .008 | 2.08 |

## Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 82 | MP3A | X | 9.911 | 2.08 |
| 83 | MP3A | Z | 5.722 | 2.08 |
| 84 | MP3A | Mx | .008 | 2.08 |
| 85 | MP3B | X | 9.911 | 2.08 |
| 86 | MP3B | Z | 5.722 | 2.08 |
| 87 | MP3B | Mx | .008 | 2.08 |
| 88 | MP3C | X | 9.911 | 2.08 |
| 89 | MP3C | Z | 5.722 | 2.08 |
| 90 | MP3C | Mx | .008 | 2.08 |
| 91 | OVP | X | 66.196 | 1 |
| 92 | OVP | Z | 38.218 | 1 |
| 93 | OVP | Mx | -.019 | 1 |
| 94 | MP3A | X | 49.773 | 2.08 |
| 95 | MP3A | Z | 28.736 | 2.08 |
| 96 | MP3A | Mx | -.011 | 2.08 |
| 97 | MP3B | X | 49.773 | 2.08 |
| 98 | MP3B | Z | 28.736 | 2.08 |
| 99 | MP3B | Mx | -.011 | 2.08 |
| 100 | MP3C | X | 49.773 | 2.08 |
| 101 | MP3C | Z | 28.736 | 2.08 |
| 102 | MP3C | Mx | -.011 | 2.08 |
| 103 | MP1A | X | 48.05 | 2.08 |
| 104 | MP1A | Z | 27.742 | 2.08 |
| 105 | MP1A | Mx | -.01 | 2.08 |
| 106 | MP1B | X | 48.05 | 2.08 |
| 107 | MP1B | Z | 27.742 | 2.08 |
| 108 | MP1B | Mx | -.01 | 2.08 |
| 109 | MP1C | X | 48.05 | 2.08 |
| 110 | MP1C | Z | 27.742 | 2.08 |
| 111 | MP1C | Mx | -.01 | 2.08 |
| 112 | MP4C | X | 26.12 | 1 |
| 113 | MP4C | Z | 15.08 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 66.196 | 1 |
| 116 | OVP | Z | 38.218 | 1 |
| 117 | OVP | Mx | .019 | 1 |

## Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 33.386 | 1 |
| 2 | MP1A | Z | 57.827 | 1 |
| 3 | MP1A | Mx | -.025 | 1 |
| 4 | MP1A | X | 33.386 | 3 |
| 5 | MP1A | Z | 57.827 | 3 |
| 6 | MP1A | Mx | -.025 | 3 |
| 7 | MP1B | X | 36.574 | 1 |
| 8 | MP1B | Z | 63.347 | 1 |
| 9 | MP1B | Mx | -.019 | 1 |
| 10 | MP1B | X | 36.574 | 3 |
| 11 | MP1B | Z | 63.347 | 3 |
| 12 | MP1B | Mx | -.019 | 3 |
| 13 | MP1C | X | 15.416 | 1 |
| 14 | MP1C | Z | 26.701 | 1 |
| 15 | MP1C | Mx | .023 | 1 |
| 16 | MP1C | X | 15.416 | 3 |
| 17 | MP1C | Z | 26.701 | 3 |

## Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 18 | MP1C | Mx | .023 | 3 |
| 19 | MP3A | X | 69.775 | .71 |
| 20 | MP3A | Z | 120.853 | .71 |
| 21 | MP3A | Mx | .028 | .71 |
| 22 | MP3A | X | 69.775 | 4.71 |
| 23 | MP3A | Z | 120.853 | 4.71 |
| 24 | MP3A | Mx | .028 | 4.71 |
| 25 | MP3B | X | 73.259 | .71 |
| 26 | MP3B | Z | 126.889 | .71 |
| 27 | MP3B | Mx | -.129 | .71 |
| 28 | MP3B | X | 73.259 | 4.71 |
| 29 | MP3B | Z | 126.889 | 4.71 |
| 30 | MP3B | Mx | -.129 | 4.71 |
| 31 | MP3C | X | 50.128 | .71 |
| 32 | MP3C | Z | 86.825 | .71 |
| 33 | MP3C | Mx | .075 | .71 |
| 34 | MP3C | X | 50.128 | 4.71 |
| 35 | MP3C | Z | 86.825 | 4.71 |
| 36 | MP3C | Mx | .075 | 4.71 |
| 37 | MP3A | X | 69.775 | .71 |
| 38 | MP3A | Z | 120.853 | .71 |
| 39 | MP3A | Mx | -.133 | .71 |
| 40 | MP3A | X | 69.775 | 4.71 |
| 41 | MP3A | Z | 120.853 | 4.71 |
| 42 | MP3A | Mx | -.133 | 4.71 |
| 43 | MP3B | X | 73.259 | .71 |
| 44 | MP3B | Z | 126.889 | .71 |
| 45 | MP3B | Mx | .054 | .71 |
| 46 | MP3B | X | 73.259 | 4.71 |
| 47 | MP3B | Z | 126.889 | 4.71 |
| 48 | MP3B | Mx | .054 | 4.71 |
| 49 | MP3C | X | 50.128 | .71 |
| 50 | MP3C | Z | 86.825 | .71 |
| 51 | MP3C | Mx | .075 | .71 |
| 52 | MP3C | X | 50.128 | 4.71 |
| 53 | MP3C | Z | 86.825 | 4.71 |
| 54 | MP3C | Mx | .075 | 4.71 |
| 55 | MP2A | X | 62.576 | .8 |
| 56 | MP2A | Z | 108.384 | .8 |
| 57 | MP2A | Mx | -.047 | .8 |
| 58 | MP2A | X | 62.576 | 4.8 |
| 59 | MP2A | Z | 108.384 | 4.8 |
| 60 | MP2A | Mx | -.047 | 4.8 |
| 61 | MP2B | X | 65.656 | .8 |
| 62 | MP2B | Z | 113.719 | .8 |
| 63 | MP2B | Mx | -.034 | .8 |
| 64 | MP2B | X | 65.656 | 4.8 |
| 65 | MP2B | Z | 113.719 | 4.8 |
| 66 | MP2B | Mx | -.034 | 4.8 |
| 67 | MP2C | X | 45.21 | .8 |
| 68 | MP2C | Z | 78.306 | .8 |
| 69 | MP2C | Mx | .068 | .8 |
| 70 | MP2C | X | 45.21 | 4.8 |
| 71 | MP2C | Z | 78.306 | 4.8 |
| 72 | MP2C | Mx | .068 | 4.8 |
| 73 | MP4A | X | 11.916 | 2.08 |
| 74 | MP4A | Z | 20.639 | 2.08 |

## Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 75 | MP4A | Mx | -.009 | 2.08 |
| 76 | MP4B | X | 13.51 | 2.08 |
| 77 | MP4B | Z | 23.401 | 2.08 |
| 78 | MP4B | Mx | -.007 | 2.08 |
| 79 | MP4C | X | 2.924 | 2.08 |
| 80 | MP4C | Z | 5.065 | 2.08 |
| 81 | MP4C | Mx | .004 | 2.08 |
| 82 | MP3A | X | 6.2 | 2.08 |
| 83 | MP3A | Z | 10.738 | 2.08 |
| 84 | MP3A | Mx | .006 | 2.08 |
| 85 | MP3B | X | 6.2 | 2.08 |
| 86 | MP3B | Z | 10.738 | 2.08 |
| 87 | MP3B | Mx | .006 | 2.08 |
| 88 | MP3C | X | 6.2 | 2.08 |
| 89 | MP3C | Z | 10.738 | 2.08 |
| 90 | MP3C | Mx | .006 | 2.08 |
| 91 | OVP | X | 41.89 | 1 |
| 92 | OVP | Z | 72.555 | 1 |
| 93 | OVP | Mx | 0 | 1 |
| 94 | MP3A | X | 31.334 | 2.08 |
| 95 | MP3A | Z | 54.272 | 2.08 |
| 96 | MP3A | Mx | -.031 | 2.08 |
| 97 | MP3B | X | 31.334 | 2.08 |
| 98 | MP3B | Z | 54.272 | 2.08 |
| 99 | MP3B | Mx | -.031 | 2.08 |
| 100 | MP3C | X | 31.334 | 2.08 |
| 101 | MP3C | Z | 54.272 | 2.08 |
| 102 | MP3C | Mx | -.031 | 2.08 |
| 103 | MP1A | X | 31.334 | 2.08 |
| 104 | MP1A | Z | 54.272 | 2.08 |
| 105 | MP1A | Mx | -.031 | 2.08 |
| 106 | MP1B | X | 31.334 | 2.08 |
| 107 | MP1B | Z | 54.272 | 2.08 |
| 108 | MP1B | Mx | -.031 | 2.08 |
| 109 | MP1C | X | 31.334 | 2.08 |
| 110 | MP1C | Z | 54.272 | 2.08 |
| 111 | MP1C | Mx | -.031 | 2.08 |
| 112 | MP4C | X | 16.756 | 1 |
| 113 | MP4C | Z | 29.022 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 41.89 | 1 |
| 116 | OVP | Z | 72.555 | 1 |
| 117 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 0 | 1 |
| 2 | MP1A | Z | 78.753 | 1 |
| 3 | MP1A | Mx | 0 | 1 |
| 4 | MP1A | X | 0 | 3 |
| 5 | MP1A | Z | 78.753 | 3 |
| 6 | MP1A | Mx | 0 | 3 |
| 7 | MP1B | X | 0 | 1 |
| 8 | MP1B | Z | 50.632 | 1 |
| 9 | MP1B | Mx | -.029 | 1 |
| 10 | MP1B | X | 0 | 3 |

## Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 11 | MP1B | Z | 50.632 | 3 |
| 12 | MP1B | Mx | -.029 | 3 |
| 13 | MP1C | X | 0 | 1 |
| 14 | MP1C | Z | 42.812 | 1 |
| 15 | MP1C | Mx | .028 | 1 |
| 16 | MP1C | X | 0 | 3 |
| 17 | MP1C | Z | 42.812 | 3 |
| 18 | MP1C | Mx | .028 | 3 |
| 19 | MP3A | X | 0 | .71 |
| 20 | MP3A | Z | 152.647 | .71 |
| 21 | MP3A | Mx | .102 | .71 |
| 22 | MP3A | X | 0 | 4.71 |
| 23 | MP3A | Z | 152.647 | 4.71 |
| 24 | MP3A | Mx | .102 | 4.71 |
| 25 | MP3B | X | 0 | .71 |
| 26 | MP3B | Z | 121.903 | .71 |
| 27 | MP3B | Mx | -.122 | .71 |
| 28 | MP3B | X | 0 | 4.71 |
| 29 | MP3B | Z | 121.903 | 4.71 |
| 30 | MP3B | Mx | -.122 | 4.71 |
| 31 | MP3C | X | 0 | .71 |
| 32 | MP3C | Z | 113.354 | .71 |
| 33 | MP3C | Mx | .036 | .71 |
| 34 | MP3C | X | 0 | 4.71 |
| 35 | MP3C | Z | 113.354 | 4.71 |
| 36 | MP3C | Mx | .036 | 4.71 |
| 37 | MP3A | X | 0 | .71 |
| 38 | MP3A | Z | 152.647 | .71 |
| 39 | MP3A | Mx | -.102 | .71 |
| 40 | MP3A | X | 0 | 4.71 |
| 41 | MP3A | Z | 152.647 | 4.71 |
| 42 | MP3A | Mx | -.102 | 4.71 |
| 43 | MP3B | X | 0 | .71 |
| 44 | MP3B | Z | 121.903 | .71 |
| 45 | MP3B | Mx | -.018 | .71 |
| 46 | MP3B | X | 0 | 4.71 |
| 47 | MP3B | Z | 121.903 | 4.71 |
| 48 | MP3B | Mx | -.018 | 4.71 |
| 49 | MP3C | X | 0 | .71 |
| 50 | MP3C | Z | 113.354 | .71 |
| 51 | MP3C | Mx | .111 | .71 |
| 52 | MP3C | X | 0 | 4.71 |
| 53 | MP3C | Z | 113.354 | 4.71 |
| 54 | MP3C | Mx | .111 | 4.71 |
| 55 | MP2A | X | 0 | .8 |
| 56 | MP2A | Z | 136.729 | .8 |
| 57 | MP2A | Mx | 0 | .8 |
| 58 | MP2A | X | 0 | 4.8 |
| 59 | MP2A | Z | 136.729 | 4.8 |
| 60 | MP2A | Mx | 0 | 4.8 |
| 61 | MP2B | X | 0 | .8 |
| 62 | MP2B | Z | 109.553 | .8 |
| 63 | MP2B | Mx | -.063 | .8 |
| 64 | MP2B | X | 0 | 4.8 |
| 65 | MP2B | Z | 109.553 | 4.8 |
| 66 | MP2B | Mx | -.063 | 4.8 |
| 67 | MP2C | X | 0 | .8 |

## Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 68 | MP2C | Z | 101.997 | .8 |
| 69 | MP2C | Mx | .066 | .8 |
| 70 | MP2C | X | 0 | 4.8 |
| 71 | MP2C | Z | 101.997 | 4.8 |
| 72 | MP2C | Mx | .066 | 4.8 |
| 73 | MP4A | X | 0 | 2.08 |
| 74 | MP4A | Z | 29.826 | 2.08 |
| 75 | MP4A | Mx | 0 | 2.08 |
| 76 | MP4B | X | 0 | 2.08 |
| 77 | MP4B | Z | 15.756 | 2.08 |
| 78 | MP4B | Mx | -.009 | 2.08 |
| 79 | MP4C | X | 0 | 2.08 |
| 80 | MP4C | Z | 11.843 | 2.08 |
| 81 | MP4C | Mx | .008 | 2.08 |
| 82 | MP3A | X | 0 | 2.08 |
| 83 | MP3A | Z | 11.444 | 2.08 |
| 84 | MP3A | Mx | .002 | 2.08 |
| 85 | MP3B | X | 0 | 2.08 |
| 86 | MP3B | Z | 11.444 | 2.08 |
| 87 | MP3B | Mx | .002 | 2.08 |
| 88 | MP3C | X | 0 | 2.08 |
| 89 | MP3C | Z | 11.444 | 2.08 |
| 90 | MP3C | Mx | .002 | 2.08 |
| 91 | OVP | X | 0 | 1 |
| 92 | OVP | Z | 76.437 | 1 |
| 93 | OVP | Mx | .019 | 1 |
| 94 | MP3A | X | 0 | 2.08 |
| 95 | MP3A | Z | 57.473 | 2.08 |
| 96 | MP3A | Mx | -.039 | 2.08 |
| 97 | MP3B | X | 0 | 2.08 |
| 98 | MP3B | Z | 57.473 | 2.08 |
| 99 | MP3B | Mx | -.039 | 2.08 |
| 100 | MP3C | X | 0 | 2.08 |
| 101 | MP3C | Z | 57.473 | 2.08 |
| 102 | MP3C | Mx | -.039 | 2.08 |
| 103 | MP1A | X | 0 | 2.08 |
| 104 | MP1A | Z | 55.483 | 2.08 |
| 105 | MP1A | Mx | -.038 | 2.08 |
| 106 | MP1B | X | 0 | 2.08 |
| 107 | MP1B | Z | 55.483 | 2.08 |
| 108 | MP1B | Mx | -.038 | 2.08 |
| 109 | MP1C | X | 0 | 2.08 |
| 110 | MP1C | Z | 55.483 | 2.08 |
| 111 | MP1C | Mx | -.038 | 2.08 |
| 112 | MP4C | X | 0 | 1 |
| 113 | MP4C | Z | 30.161 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 0 | 1 |
| 116 | OVP | Z | 76.437 | 1 |
| 117 | OVP | Mx | -.019 | 1 |

## Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -33.386 | 1 |
| 2 | MP1A | Z | 57.827 | 1 |
| 3 | MP1A | Mx | .025 | 1 |

## Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 4 | MP1A | X | -33.386 | 3 |
| 5 | MP1A | Z | 57.827 | 3 |
| 6 | MP1A | Mx | .025 | 3 |
| 7 | MP1B | X | -16.138 | 1 |
| 8 | MP1B | Z | 27.952 | 1 |
| 9 | MP1B | Mx | -.024 | 1 |
| 10 | MP1B | X | -16.138 | 3 |
| 11 | MP1B | Z | 27.952 | 3 |
| 12 | MP1B | Mx | -.024 | 3 |
| 13 | MP1C | X | -33.386 | 1 |
| 14 | MP1C | Z | 57.827 | 1 |
| 15 | MP1C | Mx | .025 | 1 |
| 16 | MP1C | X | -33.386 | 3 |
| 17 | MP1C | Z | 57.827 | 3 |
| 18 | MP1C | Mx | .025 | 3 |
| 19 | MP3A | X | -69.775 | .71 |
| 20 | MP3A | Z | 120.853 | .71 |
| 21 | MP3A | Mx | .133 | .71 |
| 22 | MP3A | X | -69.775 | 4.71 |
| 23 | MP3A | Z | 120.853 | 4.71 |
| 24 | MP3A | Mx | .133 | 4.71 |
| 25 | MP3B | X | -50.918 | .71 |
| 26 | MP3B | Z | 88.193 | .71 |
| 27 | MP3B | Mx | -.087 | .71 |
| 28 | MP3B | X | -50.918 | 4.71 |
| 29 | MP3B | Z | 88.193 | 4.71 |
| 30 | MP3B | Mx | -.087 | 4.71 |
| 31 | MP3C | X | -69.775 | .71 |
| 32 | MP3C | Z | 120.853 | .71 |
| 33 | MP3C | Mx | -.028 | .71 |
| 34 | MP3C | X | -69.775 | 4.71 |
| 35 | MP3C | Z | 120.853 | 4.71 |
| 36 | MP3C | Mx | -.028 | 4.71 |
| 37 | MP3A | X | -69.775 | .71 |
| 38 | MP3A | Z | 120.853 | .71 |
| 39 | MP3A | Mx | -.028 | .71 |
| 40 | MP3A | X | -69.775 | 4.71 |
| 41 | MP3A | Z | 120.853 | 4.71 |
| 42 | MP3A | Mx | -.028 | 4.71 |
| 43 | MP3B | X | -50.918 | .71 |
| 44 | MP3B | Z | 88.193 | .71 |
| 45 | MP3B | Mx | -.063 | .71 |
| 46 | MP3B | X | -50.918 | 4.71 |
| 47 | MP3B | Z | 88.193 | 4.71 |
| 48 | MP3B | Mx | -.063 | 4.71 |
| 49 | MP3C | X | -69.775 | .71 |
| 50 | MP3C | Z | 120.853 | .71 |
| 51 | MP3C | Mx | .133 | .71 |
| 52 | MP3C | X | -69.775 | 4.71 |
| 53 | MP3C | Z | 120.853 | 4.71 |
| 54 | MP3C | Mx | .133 | 4.71 |
| 55 | MP2A | X | -62.576 | .8 |
| 56 | MP2A | Z | 108.384 | .8 |
| 57 | MP2A | Mx | .047 | .8 |
| 58 | MP2A | X | -62.576 | 4.8 |
| 59 | MP2A | Z | 108.384 | 4.8 |
| 60 | MP2A | Mx | .047 | 4.8 |

## Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 61 | MP2B | X | -45.908 | .8 |
| 62 | MP2B | Z | 79.515 | .8 |
| 63 | MP2B | Mx | -.068 | .8 |
| 64 | MP2B | X | -45.908 | 4.8 |
| 65 | MP2B | Z | 79.515 | 4.8 |
| 66 | MP2B | Mx | -.068 | 4.8 |
| 67 | MP2C | X | -62.576 | .8 |
| 68 | MP2C | Z | 108.384 | .8 |
| 69 | MP2C | Mx | .047 | .8 |
| 70 | MP2C | X | -62.576 | 4.8 |
| 71 | MP2C | Z | 108.384 | 4.8 |
| 72 | MP2C | Mx | .047 | 4.8 |
| 73 | MP4A | X | -11.916 | 2.08 |
| 74 | MP4A | Z | 20.639 | 2.08 |
| 75 | MP4A | Mx | .009 | 2.08 |
| 76 | MP4B | X | -3.286 | 2.08 |
| 77 | MP4B | Z | 5.692 | 2.08 |
| 78 | MP4B | Mx | -.005 | 2.08 |
| 79 | MP4C | X | -11.916 | 2.08 |
| 80 | MP4C | Z | 20.639 | 2.08 |
| 81 | MP4C | Mx | .009 | 2.08 |
| 82 | MP3A | X | -4.767 | 2.08 |
| 83 | MP3A | Z | 8.257 | 2.08 |
| 84 | MP3A | Mx | -.002 | 2.08 |
| 85 | MP3B | X | -4.767 | 2.08 |
| 86 | MP3B | Z | 8.257 | 2.08 |
| 87 | MP3B | Mx | -.002 | 2.08 |
| 88 | MP3C | X | -4.767 | 2.08 |
| 89 | MP3C | Z | 8.257 | 2.08 |
| 90 | MP3C | Mx | -.002 | 2.08 |
| 91 | OVP | X | -30.875 | 1 |
| 92 | OVP | Z | 53.477 | 1 |
| 93 | OVP | Mx | .027 | 1 |
| 94 | MP3A | X | -23.542 | 2.08 |
| 95 | MP3A | Z | 40.776 | 2.08 |
| 96 | MP3A | Mx | -.032 | 2.08 |
| 97 | MP3B | X | -23.542 | 2.08 |
| 98 | MP3B | Z | 40.776 | 2.08 |
| 99 | MP3B | Mx | -.032 | 2.08 |
| 100 | MP3C | X | -23.542 | 2.08 |
| 101 | MP3C | Z | 40.776 | 2.08 |
| 102 | MP3C | Mx | -.032 | 2.08 |
| 103 | MP1A | X | -20.557 | 2.08 |
| 104 | MP1A | Z | 35.607 | 2.08 |
| 105 | MP1A | Mx | -.028 | 2.08 |
| 106 | MP1B | X | -20.557 | 2.08 |
| 107 | MP1B | Z | 35.607 | 2.08 |
| 108 | MP1B | Mx | -.028 | 2.08 |
| 109 | MP1C | X | -20.557 | 2.08 |
| 110 | MP1C | Z | 35.607 | 2.08 |
| 111 | MP1C | Mx | -.028 | 2.08 |
| 112 | MP4C | X | -11.729 | 1 |
| 113 | MP4C | Z | 20.316 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -30.875 | 1 |
| 116 | OVP | Z | 53.477 | 1 |
| 117 | OVP | Mx | -.027 | 1 |

## Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -37.076 | 1 |
| 2 | MP1A | Z | 21.406 | 1 |
| 3 | MP1A | Mx | .028 | 1 |
| 4 | MP1A | X | -37.076 | 3 |
| 5 | MP1A | Z | 21.406 | 3 |
| 6 | MP1A | Mx | .028 | 3 |
| 7 | MP1B | X | -31.556 | 1 |
| 8 | MP1B | Z | 18.219 | 1 |
| 9 | MP1B | Mx | -.026 | 1 |
| 10 | MP1B | X | -31.556 | 3 |
| 11 | MP1B | Z | 18.219 | 3 |
| 12 | MP1B | Mx | -.026 | 3 |
| 13 | MP1C | X | -68.202 | 1 |
| 14 | MP1C | Z | 39.377 | 1 |
| 15 | MP1C | Mx | 0 | 1 |
| 16 | MP1C | X | -68.202 | 3 |
| 17 | MP1C | Z | 39.377 | 3 |
| 18 | MP1C | Mx | 0 | 3 |
| 19 | MP3A | X | -98.168 | .71 |
| 20 | MP3A | Z | 56.677 | .71 |
| 21 | MP3A | Mx | .111 | .71 |
| 22 | MP3A | X | -98.168 | 4.71 |
| 23 | MP3A | Z | 56.677 | 4.71 |
| 24 | MP3A | Mx | .111 | 4.71 |
| 25 | MP3B | X | -92.132 | .71 |
| 26 | MP3B | Z | 53.193 | .71 |
| 27 | MP3B | Mx | -.051 | .71 |
| 28 | MP3B | X | -92.132 | 4.71 |
| 29 | MP3B | Z | 53.193 | 4.71 |
| 30 | MP3B | Mx | -.051 | 4.71 |
| 31 | MP3C | X | -132.196 | .71 |
| 32 | MP3C | Z | 76.323 | .71 |
| 33 | MP3C | Mx | -.102 | .71 |
| 34 | MP3C | X | -132.196 | 4.71 |
| 35 | MP3C | Z | 76.323 | 4.71 |
| 36 | MP3C | Mx | -.102 | 4.71 |
| 37 | MP3A | X | -98.168 | .71 |
| 38 | MP3A | Z | 56.677 | .71 |
| 39 | MP3A | Mx | .036 | .71 |
| 40 | MP3A | X | -98.168 | 4.71 |
| 41 | MP3A | Z | 56.677 | 4.71 |
| 42 | MP3A | Mx | .036 | 4.71 |
| 43 | MP3B | X | -92.132 | .71 |
| 44 | MP3B | Z | 53.193 | .71 |
| 45 | MP3B | Mx | -.099 | .71 |
| 46 | MP3B | X | -92.132 | 4.71 |
| 47 | MP3B | Z | 53.193 | 4.71 |
| 48 | MP3B | Mx | -.099 | 4.71 |
| 49 | MP3C | X | -132.196 | .71 |
| 50 | MP3C | Z | 76.323 | .71 |
| 51 | MP3C | Mx | .102 | .71 |
| 52 | MP3C | X | -132.196 | 4.71 |
| 53 | MP3C | Z | 76.323 | 4.71 |
| 54 | MP3C | Mx | .102 | 4.71 |
| 55 | MP2A | X | -88.332 | .8 |
| 56 | MP2A | Z | 50.998 | .8 |
| 57 | MP2A | Mx | .066 | .8 |

## Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 58 | MP2A | X | -88.332 | 4.8 |
| 59 | MP2A | Z | 50.998 | 4.8 |
| 60 | MP2A | Mx | .066 | 4.8 |
| 61 | MP2B | X | -82.997 | .8 |
| 62 | MP2B | Z | 47.918 | .8 |
| 63 | MP2B | Mx | -.068 | .8 |
| 64 | MP2B | X | -82.997 | 4.8 |
| 65 | MP2B | Z | 47.918 | 4.8 |
| 66 | MP2B | Mx | -.068 | 4.8 |
| 67 | MP2C | X | -118.411 | .8 |
| 68 | MP2C | Z | 68.364 | .8 |
| 69 | MP2C | Mx | 0 | .8 |
| 70 | MP2C | X | -118.411 | 4.8 |
| 71 | MP2C | Z | 68.364 | 4.8 |
| 72 | MP2C | Mx | 0 | 4.8 |
| 73 | MP4A | X | -10.256 | 2.08 |
| 74 | MP4A | Z | 5.922 | 2.08 |
| 75 | MP4A | Mx | .008 | 2.08 |
| 76 | MP4B | X | -7.494 | 2.08 |
| 77 | MP4B | Z | 4.327 | 2.08 |
| 78 | MP4B | Mx | -.006 | 2.08 |
| 79 | MP4C | X | -25.83 | 2.08 |
| 80 | MP4C | Z | 14.913 | 2.08 |
| 81 | MP4C | Mx | 0 | 2.08 |
| 82 | MP3A | X | -7.43 | 2.08 |
| 83 | MP3A | Z | 4.29 | 2.08 |
| 84 | MP3A | Mx | -.004 | 2.08 |
| 85 | MP3B | X | -7.43 | 2.08 |
| 86 | MP3B | Z | 4.29 | 2.08 |
| 87 | MP3B | Mx | -.004 | 2.08 |
| 88 | MP3C | X | -7.43 | 2.08 |
| 89 | MP3C | Z | 4.29 | 2.08 |
| 90 | MP3C | Mx | -.004 | 2.08 |
| 91 | OVP | X | -47.118 | 1 |
| 92 | OVP | Z | 27.203 | 1 |
| 93 | OVP | Mx | .027 | 1 |
| 94 | MP3A | X | -36.278 | 2.08 |
| 95 | MP3A | Z | 20.945 | 2.08 |
| 96 | MP3A | Mx | -.021 | 2.08 |
| 97 | MP3B | X | -36.278 | 2.08 |
| 98 | MP3B | Z | 20.945 | 2.08 |
| 99 | MP3B | Mx | -.021 | 2.08 |
| 100 | MP3C | X | -36.278 | 2.08 |
| 101 | MP3C | Z | 20.945 | 2.08 |
| 102 | MP3C | Mx | -.021 | 2.08 |
| 103 | MP1A | X | -29.385 | 2.08 |
| 104 | MP1A | Z | 16.965 | 2.08 |
| 105 | MP1A | Mx | -.017 | 2.08 |
| 106 | MP1B | X | -29.385 | 2.08 |
| 107 | MP1B | Z | 16.965 | 2.08 |
| 108 | MP1B | Mx | -.017 | 2.08 |
| 109 | MP1C | X | -29.385 | 2.08 |
| 110 | MP1C | Z | 16.965 | 2.08 |
| 111 | MP1C | Mx | -.017 | 2.08 |
| 112 | MP4C | X | -17.413 | 1 |
| 113 | MP4C | Z | 10.054 | 1 |
| 114 | MP4C | Mx | 0 | 1 |

## Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 115 | OVP | X | -47.118 | 1 |
| 116 | OVP | Z | 27.203 | 1 |
| 117 | OVP | Mx | -.027 | 1 |

## Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -30.832 | 1 |
| 2 | MP1A | Z | 0 | 1 |
| 3 | MP1A | Mx | .023 | 1 |
| 4 | MP1A | X | -30.832 | 3 |
| 5 | MP1A | Z | 0 | 3 |
| 6 | MP1A | Mx | .023 | 3 |
| 7 | MP1B | X | -58.953 | 1 |
| 8 | MP1B | Z | 0 | 1 |
| 9 | MP1B | Mx | -.028 | 1 |
| 10 | MP1B | X | -58.953 | 3 |
| 11 | MP1B | Z | 0 | 3 |
| 12 | MP1B | Mx | -.028 | 3 |
| 13 | MP1C | X | -66.773 | 1 |
| 14 | MP1C | Z | 0 | 1 |
| 15 | MP1C | Mx | -.025 | 1 |
| 16 | MP1C | X | -66.773 | 3 |
| 17 | MP1C | Z | 0 | 3 |
| 18 | MP1C | Mx | -.025 | 3 |
| 19 | MP3A | X | -100.257 | .71 |
| 20 | MP3A | Z | 0 | .71 |
| 21 | MP3A | Mx | .075 | .71 |
| 22 | MP3A | X | -100.257 | 4.71 |
| 23 | MP3A | Z | 0 | 4.71 |
| 24 | MP3A | Mx | .075 | 4.71 |
| 25 | MP3B | X | -131 | .71 |
| 26 | MP3B | Z | 0 | .71 |
| 27 | MP3B | Mx | .004 | .71 |
| 28 | MP3B | X | -131 | 4.71 |
| 29 | MP3B | Z | 0 | 4.71 |
| 30 | MP3B | Mx | .004 | 4.71 |
| 31 | MP3C | X | -139.549 | .71 |
| 32 | MP3C | Z | 0 | .71 |
| 33 | MP3C | Mx | -.133 | .71 |
| 34 | MP3C | X | -139.549 | 4.71 |
| 35 | MP3C | Z | 0 | 4.71 |
| 36 | MP3C | Mx | -.133 | 4.71 |
| 37 | MP3A | X | -100.257 | .71 |
| 38 | MP3A | Z | 0 | .71 |
| 39 | MP3A | Mx | .075 | .71 |
| 40 | MP3A | X | -100.257 | 4.71 |
| 41 | MP3A | Z | 0 | 4.71 |
| 42 | MP3A | Mx | .075 | 4.71 |
| 43 | MP3B | X | -131 | .71 |
| 44 | MP3B | Z | 0 | .71 |
| 45 | MP3B | Mx | -.13 | .71 |
| 46 | MP3B | X | -131 | 4.71 |
| 47 | MP3B | Z | 0 | 4.71 |
| 48 | MP3B | Mx | -.13 | 4.71 |
| 49 | MP3C | X | -139.549 | .71 |
| 50 | MP3C | Z | 0 | .71 |

## Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 51 | MP3C | Mx | .028 | .71 |
| 52 | MP3C | X | -139.549 | 4.71 |
| 53 | MP3C | Z | 0 | 4.71 |
| 54 | MP3C | Mx | .028 | 4.71 |
| 55 | MP2A | X | -90.42 | .8 |
| 56 | MP2A | Z | 0 | .8 |
| 57 | MP2A | Mx | .068 | .8 |
| 58 | MP2A | X | -90.42 | 4.8 |
| 59 | MP2A | Z | 0 | 4.8 |
| 60 | MP2A | Mx | .068 | 4.8 |
| 61 | MP2B | X | -117.595 | .8 |
| 62 | MP2B | Z | 0 | .8 |
| 63 | MP2B | Mx | -.057 | .8 |
| 64 | MP2B | X | -117.595 | 4.8 |
| 65 | MP2B | Z | 0 | 4.8 |
| 66 | MP2B | Mx | -.057 | 4.8 |
| 67 | MP2C | X | -125.151 | .8 |
| 68 | MP2C | Z | 0 | .8 |
| 69 | MP2C | Mx | -.047 | .8 |
| 70 | MP2C | X | -125.151 | 4.8 |
| 71 | MP2C | Z | 0 | 4.8 |
| 72 | MP2C | Mx | -.047 | 4.8 |
| 73 | MP4A | X | -5.849 | 2.08 |
| 74 | MP4A | Z | 0 | 2.08 |
| 75 | MP4A | Mx | .004 | 2.08 |
| 76 | MP4B | X | -19.919 | 2.08 |
| 77 | MP4B | Z | 0 | 2.08 |
| 78 | MP4B | Mx | -.01 | 2.08 |
| 79 | MP4C | X | -23.831 | 2.08 |
| 80 | MP4C | Z | 0 | 2.08 |
| 81 | MP4C | Mx | -.009 | 2.08 |
| 82 | MP3A | X | -9.534 | 2.08 |
| 83 | MP3A | Z | 0 | 2.08 |
| 84 | MP3A | Mx | -.007 | 2.08 |
| 85 | MP3B | X | -9.534 | 2.08 |
| 86 | MP3B | Z | 0 | 2.08 |
| 87 | MP3B | Mx | -.007 | 2.08 |
| 88 | MP3C | X | -9.534 | 2.08 |
| 89 | MP3C | Z | 0 | 2.08 |
| 90 | MP3C | Mx | -.007 | 2.08 |
| 91 | OVP | X | -61.75 | 1 |
| 92 | OVP | Z | 0 | 1 |
| 93 | OVP | Mx | .027 | 1 |
| 94 | MP3A | X | -47.084 | 2.08 |
| 95 | MP3A | Z | 0 | 2.08 |
| 96 | MP3A | Mx | -.009 | 2.08 |
| 97 | MP3B | X | -47.084 | 2.08 |
| 98 | MP3B | Z | 0 | 2.08 |
| 99 | MP3B | Mx | -.009 | 2.08 |
| 100 | MP3C | X | -47.084 | 2.08 |
| 101 | MP3C | Z | 0 | 2.08 |
| 102 | MP3C | Mx | -.009 | 2.08 |
| 103 | MP1A | X | -41.115 | 2.08 |
| 104 | MP1A | Z | 0 | 2.08 |
| 105 | MP1A | Mx | -.008 | 2.08 |
| 106 | MP1B | X | -41.115 | 2.08 |
| 107 | MP1B | Z | 0 | 2.08 |

## Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 108 | MP1B | Mx | -.008 | 2.08 |
| 109 | MP1C | X | -41.115 | 2.08 |
| 110 | MP1C | Z | 0 | 2.08 |
| 111 | MP1C | Mx | -.008 | 2.08 |
| 112 | MP4C | X | -23.458 | 1 |
| 113 | MP4C | Z | 0 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -61.75 | 1 |
| 116 | OVP | Z | 0 | 1 |
| 117 | OVP | Mx | -.027 | 1 |

## Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -37.076 | 1 |
| 2 | MP1A | Z | -21.406 | 1 |
| 3 | MP1A | Mx | .028 | 1 |
| 4 | MP1A | X | -37.076 | 3 |
| 5 | MP1A | Z | -21.406 | 3 |
| 6 | MP1A | Mx | .028 | 3 |
| 7 | MP1B | X | -66.951 | 1 |
| 8 | MP1B | Z | -38.654 | 1 |
| 9 | MP1B | Mx | -.01 | 1 |
| 10 | MP1B | X | -66.951 | 3 |
| 11 | MP1B | Z | -38.654 | 3 |
| 12 | MP1B | Mx | -.01 | 3 |
| 13 | MP1C | X | -37.076 | 1 |
| 14 | MP1C | Z | -21.406 | 1 |
| 15 | MP1C | Mx | -.028 | 1 |
| 16 | MP1C | X | -37.076 | 3 |
| 17 | MP1C | Z | -21.406 | 3 |
| 18 | MP1C | Mx | -.028 | 3 |
| 19 | MP3A | X | -98.168 | .71 |
| 20 | MP3A | Z | -56.677 | .71 |
| 21 | MP3A | Mx | .036 | .71 |
| 22 | MP3A | X | -98.168 | 4.71 |
| 23 | MP3A | Z | -56.677 | 4.71 |
| 24 | MP3A | Mx | .036 | 4.71 |
| 25 | MP3B | X | -130.828 | .71 |
| 26 | MP3B | Z | -75.534 | .71 |
| 27 | MP3B | Mx | .08 | .71 |
| 28 | MP3B | X | -130.828 | 4.71 |
| 29 | MP3B | Z | -75.534 | 4.71 |
| 30 | MP3B | Mx | .08 | 4.71 |
| 31 | MP3C | X | -98.168 | .71 |
| 32 | MP3C | Z | -56.677 | .71 |
| 33 | MP3C | Mx | -.111 | .71 |
| 34 | MP3C | X | -98.168 | 4.71 |
| 35 | MP3C | Z | -56.677 | 4.71 |
| 36 | MP3C | Mx | -.111 | 4.71 |
| 37 | MP3A | X | -98.168 | .71 |
| 38 | MP3A | Z | -56.677 | .71 |
| 39 | MP3A | Mx | .111 | .71 |
| 40 | MP3A | X | -98.168 | 4.71 |
| 41 | MP3A | Z | -56.677 | 4.71 |
| 42 | MP3A | Mx | .111 | 4.71 |
| 43 | MP3B | X | -130.828 | .71 |

## Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 44 | MP3B | Z | -75.534 | .71 |
| 45 | MP3B | Mx | -.119 | .71 |
| 46 | MP3B | X | -130.828 | 4.71 |
| 47 | MP3B | Z | -75.534 | 4.71 |
| 48 | MP3B | Mx | -.119 | 4.71 |
| 49 | MP3C | X | -98.168 | .71 |
| 50 | MP3C | Z | -56.677 | .71 |
| 51 | MP3C | Mx | -.036 | .71 |
| 52 | MP3C | X | -98.168 | 4.71 |
| 53 | MP3C | Z | -56.677 | 4.71 |
| 54 | MP3C | Mx | -.036 | 4.71 |
| 55 | MP2A | X | -88.332 | .8 |
| 56 | MP2A | Z | -50.998 | .8 |
| 57 | MP2A | Mx | .066 | .8 |
| 58 | MP2A | X | -88.332 | 4.8 |
| 59 | MP2A | Z | -50.998 | 4.8 |
| 60 | MP2A | Mx | .066 | 4.8 |
| 61 | MP2B | X | -117.201 | .8 |
| 62 | MP2B | Z | -67.666 | .8 |
| 63 | MP2B | Mx | -.018 | .8 |
| 64 | MP2B | X | -117.201 | 4.8 |
| 65 | MP2B | Z | -67.666 | 4.8 |
| 66 | MP2B | Mx | -.018 | 4.8 |
| 67 | MP2C | X | -88.332 | .8 |
| 68 | MP2C | Z | -50.998 | .8 |
| 69 | MP2C | Mx | -.066 | .8 |
| 70 | MP2C | X | -88.332 | 4.8 |
| 71 | MP2C | Z | -50.998 | 4.8 |
| 72 | MP2C | Mx | -.066 | 4.8 |
| 73 | MP4A | X | -10.256 | 2.08 |
| 74 | MP4A | Z | -5.922 | 2.08 |
| 75 | MP4A | Mx | .008 | 2.08 |
| 76 | MP4B | X | -25.204 | 2.08 |
| 77 | MP4B | Z | -14.551 | 2.08 |
| 78 | MP4B | Mx | -.004 | 2.08 |
| 79 | MP4C | X | -10.256 | 2.08 |
| 80 | MP4C | Z | -5.922 | 2.08 |
| 81 | MP4C | Mx | -.008 | 2.08 |
| 82 | MP3A | X | -9.911 | 2.08 |
| 83 | MP3A | Z | -5.722 | 2.08 |
| 84 | MP3A | Mx | -.008 | 2.08 |
| 85 | MP3B | X | -9.911 | 2.08 |
| 86 | MP3B | Z | -5.722 | 2.08 |
| 87 | MP3B | Mx | -.008 | 2.08 |
| 88 | MP3C | X | -9.911 | 2.08 |
| 89 | MP3C | Z | -5.722 | 2.08 |
| 90 | MP3C | Mx | -.008 | 2.08 |
| 91 | OVP | X | -66.196 | 1 |
| 92 | OVP | Z | -38.218 | 1 |
| 93 | OVP | Mx | .019 | 1 |
| 94 | MP3A | X | -49.773 | 2.08 |
| 95 | MP3A | Z | -28.736 | 2.08 |
| 96 | MP3A | Mx | .011 | 2.08 |
| 97 | MP3B | X | -49.773 | 2.08 |
| 98 | MP3B | Z | -28.736 | 2.08 |
| 99 | MP3B | Mx | .011 | 2.08 |
| 100 | MP3C | X | -49.773 | 2.08 |

## Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 101 | MP3C | Z | -28.736 | 2.08 |
| 102 | MP3C | Mx | .011 | 2.08 |
| 103 | MP1A | X | -48.05 | 2.08 |
| 104 | MP1A | Z | -27.742 | 2.08 |
| 105 | MP1A | Mx | .01 | 2.08 |
| 106 | MP1B | X | -48.05 | 2.08 |
| 107 | MP1B | Z | -27.742 | 2.08 |
| 108 | MP1B | Mx | .01 | 2.08 |
| 109 | MP1C | X | -48.05 | 2.08 |
| 110 | MP1C | Z | -27.742 | 2.08 |
| 111 | MP1C | Mx | .01 | 2.08 |
| 112 | MP4C | X | -26.12 | 1 |
| 113 | MP4C | Z | -15.08 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -66.196 | 1 |
| 116 | OVP | Z | -38.218 | 1 |
| 117 | OVP | Mx | -.019 | 1 |

## Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -33.386 | 1 |
| 2 | MP1A | Z | -57.827 | 1 |
| 3 | MP1A | Mx | .025 | 1 |
| 4 | MP1A | X | -33.386 | 3 |
| 5 | MP1A | Z | -57.827 | 3 |
| 6 | MP1A | Mx | .025 | 3 |
| 7 | MP1B | X | -36.574 | 1 |
| 8 | MP1B | Z | -63.347 | 1 |
| 9 | MP1B | Mx | .019 | 1 |
| 10 | MP1B | X | -36.574 | 3 |
| 11 | MP1B | Z | -63.347 | 3 |
| 12 | MP1B | Mx | .019 | 3 |
| 13 | MP1C | X | -15.416 | 1 |
| 14 | MP1C | Z | -26.701 | 1 |
| 15 | MP1C | Mx | -.023 | 1 |
| 16 | MP1C | X | -15.416 | 3 |
| 17 | MP1C | Z | -26.701 | 3 |
| 18 | MP1C | Mx | -.023 | 3 |
| 19 | MP3A | X | -69.775 | .71 |
| 20 | MP3A | Z | -120.853 | .71 |
| 21 | MP3A | Mx | -.028 | .71 |
| 22 | MP3A | X | -69.775 | 4.71 |
| 23 | MP3A | Z | -120.853 | 4.71 |
| 24 | MP3A | Mx | -.028 | 4.71 |
| 25 | MP3B | X | -73.259 | .71 |
| 26 | MP3B | Z | -126.889 | .71 |
| 27 | MP3B | Mx | .129 | .71 |
| 28 | MP3B | X | -73.259 | 4.71 |
| 29 | MP3B | Z | -126.889 | 4.71 |
| 30 | MP3B | Mx | .129 | 4.71 |
| 31 | MP3C | X | -50.128 | .71 |
| 32 | MP3C | Z | -86.825 | .71 |
| 33 | MP3C | Mx | -.075 | .71 |
| 34 | MP3C | X | -50.128 | 4.71 |
| 35 | MP3C | Z | -86.825 | 4.71 |
| 36 | MP3C | Mx | -.075 | 4.71 |

## Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 37 | MP3A | X | -69.775 | .71 |
| 38 | MP3A | Z | -120.853 | .71 |
| 39 | MP3A | Mx | .133 | .71 |
| 40 | MP3A | X | -69.775 | 4.71 |
| 41 | MP3A | Z | -120.853 | 4.71 |
| 42 | MP3A | Mx | .133 | 4.71 |
| 43 | MP3B | X | -73.259 | .71 |
| 44 | MP3B | Z | -126.889 | .71 |
| 45 | MP3B | Mx | -.054 | .71 |
| 46 | MP3B | X | -73.259 | 4.71 |
| 47 | MP3B | Z | -126.889 | 4.71 |
| 48 | MP3B | Mx | -.054 | 4.71 |
| 49 | MP3C | X | -50.128 | .71 |
| 50 | MP3C | Z | -86.825 | .71 |
| 51 | MP3C | Mx | -.075 | .71 |
| 52 | MP3C | X | -50.128 | 4.71 |
| 53 | MP3C | Z | -86.825 | 4.71 |
| 54 | MP3C | Mx | -.075 | 4.71 |
| 55 | MP2A | X | -62.576 | .8 |
| 56 | MP2A | Z | -108.384 | .8 |
| 57 | MP2A | Mx | .047 | .8 |
| 58 | MP2A | X | -62.576 | 4.8 |
| 59 | MP2A | Z | -108.384 | 4.8 |
| 60 | MP2A | Mx | .047 | 4.8 |
| 61 | MP2B | X | -65.656 | .8 |
| 62 | MP2B | Z | -113.719 | .8 |
| 63 | MP2B | Mx | .034 | .8 |
| 64 | MP2B | X | -65.656 | 4.8 |
| 65 | MP2B | Z | -113.719 | 4.8 |
| 66 | MP2B | Mx | .034 | 4.8 |
| 67 | MP2C | X | -45.21 | .8 |
| 68 | MP2C | Z | -78.306 | .8 |
| 69 | MP2C | Mx | -.068 | .8 |
| 70 | MP2C | X | -45.21 | 4.8 |
| 71 | MP2C | Z | -78.306 | 4.8 |
| 72 | MP2C | Mx | -.068 | 4.8 |
| 73 | MP4A | X | -11.916 | 2.08 |
| 74 | MP4A | Z | -20.639 | 2.08 |
| 75 | MP4A | Mx | .009 | 2.08 |
| 76 | MP4B | X | -13.51 | 2.08 |
| 77 | MP4B | Z | -23.401 | 2.08 |
| 78 | MP4B | Mx | .007 | 2.08 |
| 79 | MP4C | X | -2.924 | 2.08 |
| 80 | MP4C | Z | -5.065 | 2.08 |
| 81 | MP4C | Mx | -.004 | 2.08 |
| 82 | MP3A | X | -6.2 | 2.08 |
| 83 | MP3A | Z | -10.738 | 2.08 |
| 84 | MP3A | Mx | -.006 | 2.08 |
| 85 | MP3B | X | -6.2 | 2.08 |
| 86 | MP3B | Z | -10.738 | 2.08 |
| 87 | MP3B | Mx | -.006 | 2.08 |
| 88 | MP3C | X | -6.2 | 2.08 |
| 89 | MP3C | Z | -10.738 | 2.08 |
| 90 | MP3C | Mx | -.006 | 2.08 |
| 91 | OVP | X | -41.89 | 1 |
| 92 | OVP | Z | -72.555 | 1 |
| 93 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 94 | MP3A | X | -31.334 | 2.08 |
| 95 | MP3A | Z | -54.272 | 2.08 |
| 96 | MP3A | Mx | .031 | 2.08 |
| 97 | MP3B | X | -31.334 | 2.08 |
| 98 | MP3B | Z | -54.272 | 2.08 |
| 99 | MP3B | Mx | .031 | 2.08 |
| 100 | MP3C | X | -31.334 | 2.08 |
| 101 | MP3C | Z | -54.272 | 2.08 |
| 102 | MP3C | Mx | .031 | 2.08 |
| 103 | MP1A | X | -31.334 | 2.08 |
| 104 | MP1A | Z | -54.272 | 2.08 |
| 105 | MP1A | Mx | .031 | 2.08 |
| 106 | MP1B | X | -31.334 | 2.08 |
| 107 | MP1B | Z | -54.272 | 2.08 |
| 108 | MP1B | Mx | .031 | 2.08 |
| 109 | MP1C | X | -31.334 | 2.08 |
| 110 | MP1C | Z | -54.272 | 2.08 |
| 111 | MP1C | Mx | .031 | 2.08 |
| 112 | MP4C | X | -16.756 | 1 |
| 113 | MP4C | Z | -29.022 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -41.89 | 1 |
| 116 | OVP | Z | -72.555 | 1 |
| 117 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 0 | 1 |
| 2 | MP1A | Z | -15.706 | 1 |
| 3 | MP1A | Mx | 0 | 1 |
| 4 | MP1A | X | 0 | 3 |
| 5 | MP1A | Z | -15.706 | 3 |
| 6 | MP1A | Mx | 0 | 3 |
| 7 | MP1B | X | 0 | 1 |
| 8 | MP1B | Z | -10.415 | 1 |
| 9 | MP1B | Mx | .006 | 1 |
| 10 | MP1B | X | 0 | 3 |
| 11 | MP1B | Z | -10.415 | 3 |
| 12 | MP1B | Mx | .006 | 3 |
| 13 | MP1C | X | 0 | 1 |
| 14 | MP1C | Z | -8.944 | 1 |
| 15 | MP1C | Mx | -.006 | 1 |
| 16 | MP1C | X | 0 | 3 |
| 17 | MP1C | Z | -8.944 | 3 |
| 18 | MP1C | Mx | -.006 | 3 |
| 19 | MP3A | X | 0 | .71 |
| 20 | MP3A | Z | -29.53 | .71 |
| 21 | MP3A | Mx | -.02 | .71 |
| 22 | MP3A | X | 0 | 4.71 |
| 23 | MP3A | Z | -29.53 | 4.71 |
| 24 | MP3A | Mx | -.02 | 4.71 |
| 25 | MP3B | X | 0 | .71 |
| 26 | MP3B | Z | -24.022 | .71 |
| 27 | MP3B | Mx | .024 | .71 |
| 28 | MP3B | X | 0 | 4.71 |
| 29 | MP3B | Z | -24.022 | 4.71 |

## Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 30 | MP3B | Mx | .024 | 4.71 |
| 31 | MP3C | X | 0 | .71 |
| 32 | MP3C | Z | -22.49 | .71 |
| 33 | MP3C | Mx | -.007 | .71 |
| 34 | MP3C | X | 0 | 4.71 |
| 35 | MP3C | Z | -22.49 | 4.71 |
| 36 | MP3C | Mx | -.007 | 4.71 |
| 37 | MP3A | X | 0 | .71 |
| 38 | MP3A | Z | -29.53 | .71 |
| 39 | MP3A | Mx | .02 | .71 |
| 40 | MP3A | X | 0 | 4.71 |
| 41 | MP3A | Z | -29.53 | 4.71 |
| 42 | MP3A | Mx | .02 | 4.71 |
| 43 | MP3B | X | 0 | .71 |
| 44 | MP3B | Z | -24.022 | .71 |
| 45 | MP3B | Mx | .004 | .71 |
| 46 | MP3B | X | 0 | 4.71 |
| 47 | MP3B | Z | -24.022 | 4.71 |
| 48 | MP3B | Mx | .004 | 4.71 |
| 49 | MP3C | X | 0 | .71 |
| 50 | MP3C | Z | -22.49 | .71 |
| 51 | MP3C | Mx | -.022 | .71 |
| 52 | MP3C | X | 0 | 4.71 |
| 53 | MP3C | Z | -22.49 | 4.71 |
| 54 | MP3C | Mx | -.022 | 4.71 |
| 55 | MP2A | X | 0 | .8 |
| 56 | MP2A | Z | -26.618 | .8 |
| 57 | MP2A | Mx | 0 | .8 |
| 58 | MP2A | X | 0 | 4.8 |
| 59 | MP2A | Z | -26.618 | 4.8 |
| 60 | MP2A | Mx | 0 | 4.8 |
| 61 | MP2B | X | 0 | .8 |
| 62 | MP2B | Z | -21.77 | .8 |
| 63 | MP2B | Mx | .013 | .8 |
| 64 | MP2B | X | 0 | 4.8 |
| 65 | MP2B | Z | -21.77 | 4.8 |
| 66 | MP2B | Mx | .013 | 4.8 |
| 67 | MP2C | X | 0 | .8 |
| 68 | MP2C | Z | -20.422 | .8 |
| 69 | MP2C | Mx | -.013 | .8 |
| 70 | MP2C | X | 0 | 4.8 |
| 71 | MP2C | Z | -20.422 | 4.8 |
| 72 | MP2C | Mx | -.013 | 4.8 |
| 73 | MP4A | X | 0 | 2.08 |
| 74 | MP4A | Z | -6.823 | 2.08 |
| 75 | MP4A | Mx | 0 | 2.08 |
| 76 | MP4B | X | 0 | 2.08 |
| 77 | MP4B | Z | -3.996 | 2.08 |
| 78 | MP4B | Mx | .002 | 2.08 |
| 79 | MP4C | X | 0 | 2.08 |
| 80 | MP4C | Z | -3.21 | 2.08 |
| 81 | MP4C | Mx | -.002 | 2.08 |
| 82 | MP3A | X | 0 | 2.08 |
| 83 | MP3A | Z | -3.013 | 2.08 |
| 84 | MP3A | Mx | -.000551 | 2.08 |
| 85 | MP3B | X | 0 | 2.08 |
| 86 | MP3B | Z | -3.013 | 2.08 |

## Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 87 | MP3B | Mx | -.000551 | 2.08 |
| 88 | MP3C | X | 0 | 2.08 |
| 89 | MP3C | Z | -3.013 | 2.08 |
| 90 | MP3C | Mx | -.000551 | 2.08 |
| 91 | OVP | X | 0 | 1 |
| 92 | OVP | Z | -15.861 | 1 |
| 93 | OVP | Mx | -.004 | 1 |
| 94 | MP3A | X | 0 | 2.08 |
| 95 | MP3A | Z | -12.23 | 2.08 |
| 96 | MP3A | Mx | .008 | 2.08 |
| 97 | MP3B | X | 0 | 2.08 |
| 98 | MP3B | Z | -12.23 | 2.08 |
| 99 | MP3B | Mx | .008 | 2.08 |
| 100 | MP3C | X | 0 | 2.08 |
| 101 | MP3C | Z | -12.23 | 2.08 |
| 102 | MP3C | Mx | .008 | 2.08 |
| 103 | MP1A | X | 0 | 2.08 |
| 104 | MP1A | Z | -11.847 | 2.08 |
| 105 | MP1A | Mx | .008 | 2.08 |
| 106 | MP1B | X | 0 | 2.08 |
| 107 | MP1B | Z | -11.847 | 2.08 |
| 108 | MP1B | Mx | .008 | 2.08 |
| 109 | MP1C | X | 0 | 2.08 |
| 110 | MP1C | Z | -11.847 | 2.08 |
| 111 | MP1C | Mx | .008 | 2.08 |
| 112 | MP4C | X | 0 | 1 |
| 113 | MP4C | Z | -6.378 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 0 | 1 |
| 116 | OVP | Z | -15.861 | 1 |
| 117 | OVP | Mx | .004 | 1 |

## Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 6.726 | 1 |
| 2 | MP1A | Z | -11.65 | 1 |
| 3 | MP1A | Mx | -.005 | 1 |
| 4 | MP1A | X | 6.726 | 3 |
| 5 | MP1A | Z | -11.65 | 3 |
| 6 | MP1A | Mx | -.005 | 3 |
| 7 | MP1B | X | 3.481 | 1 |
| 8 | MP1B | Z | -6.029 | 1 |
| 9 | MP1B | Mx | .005 | 1 |
| 10 | MP1B | X | 3.481 | 3 |
| 11 | MP1B | Z | -6.029 | 3 |
| 12 | MP1B | Mx | .005 | 3 |
| 13 | MP1C | X | 6.726 | 1 |
| 14 | MP1C | Z | -11.65 | 1 |
| 15 | MP1C | Mx | -.005 | 1 |
| 16 | MP1C | X | 6.726 | 3 |
| 17 | MP1C | Z | -11.65 | 3 |
| 18 | MP1C | Mx | -.005 | 3 |
| 19 | MP3A | X | 13.592 | .71 |
| 20 | MP3A | Z | -23.542 | .71 |
| 21 | MP3A | Mx | -.026 | .71 |
| 22 | MP3A | X | 13.592 | 4.71 |

## Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 23 | MP3A | Z | -23.542 | 4.71 |
| 24 | MP3A | Mx | -.026 | 4.71 |
| 25 | MP3B | X | 10.213 | .71 |
| 26 | MP3B | Z | -17.69 | .71 |
| 27 | MP3B | Mx | .017 | .71 |
| 28 | MP3B | X | 10.213 | 4.71 |
| 29 | MP3B | Z | -17.69 | 4.71 |
| 30 | MP3B | Mx | .017 | 4.71 |
| 31 | MP3C | X | 13.592 | .71 |
| 32 | MP3C | Z | -23.542 | .71 |
| 33 | MP3C | Mx | .006 | .71 |
| 34 | MP3C | X | 13.592 | 4.71 |
| 35 | MP3C | Z | -23.542 | 4.71 |
| 36 | MP3C | Mx | .006 | 4.71 |
| 37 | MP3A | X | 13.592 | .71 |
| 38 | MP3A | Z | -23.542 | .71 |
| 39 | MP3A | Mx | .006 | .71 |
| 40 | MP3A | X | 13.592 | 4.71 |
| 41 | MP3A | Z | -23.542 | 4.71 |
| 42 | MP3A | Mx | .006 | 4.71 |
| 43 | MP3B | X | 10.213 | .71 |
| 44 | MP3B | Z | -17.69 | .71 |
| 45 | MP3B | Mx | .013 | .71 |
| 46 | MP3B | X | 10.213 | 4.71 |
| 47 | MP3B | Z | -17.69 | 4.71 |
| 48 | MP3B | Mx | .013 | 4.71 |
| 49 | MP3C | X | 13.592 | .71 |
| 50 | MP3C | Z | -23.542 | .71 |
| 51 | MP3C | Mx | -.026 | .71 |
| 52 | MP3C | X | 13.592 | 4.71 |
| 53 | MP3C | Z | -23.542 | 4.71 |
| 54 | MP3C | Mx | -.026 | 4.71 |
| 55 | MP2A | X | 12.276 | .8 |
| 56 | MP2A | Z | -21.263 | .8 |
| 57 | MP2A | Mx | -.009 | .8 |
| 58 | MP2A | X | 12.276 | 4.8 |
| 59 | MP2A | Z | -21.263 | 4.8 |
| 60 | MP2A | Mx | -.009 | 4.8 |
| 61 | MP2B | X | 9.303 | .8 |
| 62 | MP2B | Z | -16.114 | .8 |
| 63 | MP2B | Mx | .014 | .8 |
| 64 | MP2B | X | 9.303 | 4.8 |
| 65 | MP2B | Z | -16.114 | 4.8 |
| 66 | MP2B | Mx | .014 | 4.8 |
| 67 | MP2C | X | 12.276 | .8 |
| 68 | MP2C | Z | -21.263 | .8 |
| 69 | MP2C | Mx | -.009 | .8 |
| 70 | MP2C | X | 12.276 | 4.8 |
| 71 | MP2C | Z | -21.263 | 4.8 |
| 72 | MP2C | Mx | -.009 | 4.8 |
| 73 | MP4A | X | 2.809 | 2.08 |
| 74 | MP4A | Z | -4.866 | 2.08 |
| 75 | MP4A | Mx | -.002 | 2.08 |
| 76 | MP4B | X | 1.075 | 2.08 |
| 77 | MP4B | Z | -1.862 | 2.08 |
| 78 | MP4B | Mx | .002 | 2.08 |
| 79 | MP4C | X | 2.809 | 2.08 |

## Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 80 | MP4C | Z | -4.866 | 2.08 |
| 81 | MP4C | Mx | -.002 | 2.08 |
| 82 | MP3A | X | 1.306 | 2.08 |
| 83 | MP3A | Z | -2.262 | 2.08 |
| 84 | MP3A | Mx | .000478 | 2.08 |
| 85 | MP3B | X | 1.306 | 2.08 |
| 86 | MP3B | Z | -2.262 | 2.08 |
| 87 | MP3B | Mx | .000478 | 2.08 |
| 88 | MP3C | X | 1.306 | 2.08 |
| 89 | MP3C | Z | -2.262 | 2.08 |
| 90 | MP3C | Mx | .000478 | 2.08 |
| 91 | OVP | X | 6.544 | 1 |
| 92 | OVP | Z | -11.335 | 1 |
| 93 | OVP | Mx | -.006 | 1 |
| 94 | MP3A | X | 5.107 | 2.08 |
| 95 | MP3A | Z | -8.846 | 2.08 |
| 96 | MP3A | Mx | .007 | 2.08 |
| 97 | MP3B | X | 5.107 | 2.08 |
| 98 | MP3B | Z | -8.846 | 2.08 |
| 99 | MP3B | Mx | .007 | 2.08 |
| 100 | MP3C | X | 5.107 | 2.08 |
| 101 | MP3C | Z | -8.846 | 2.08 |
| 102 | MP3C | Mx | .007 | 2.08 |
| 103 | MP1A | X | 4.533 | 2.08 |
| 104 | MP1A | Z | -7.852 | 2.08 |
| 105 | MP1A | Mx | .006 | 2.08 |
| 106 | MP1B | X | 4.533 | 2.08 |
| 107 | MP1B | Z | -7.852 | 2.08 |
| 108 | MP1B | Mx | .006 | 2.08 |
| 109 | MP1C | X | 4.533 | 2.08 |
| 110 | MP1C | Z | -7.852 | 2.08 |
| 111 | MP1C | Mx | .006 | 2.08 |
| 112 | MP4C | X | 2.695 | 1 |
| 113 | MP4C | Z | -4.669 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 6.544 | 1 |
| 116 | OVP | Z | -11.335 | 1 |
| 117 | OVP | Mx | .006 | 1 |

## Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 7.746 | 1 |
| 2 | MP1A | Z | -4.472 | 1 |
| 3 | MP1A | Mx | -.006 | 1 |
| 4 | MP1A | X | 7.746 | 3 |
| 5 | MP1A | Z | -4.472 | 3 |
| 6 | MP1A | Mx | -.006 | 3 |
| 7 | MP1B | X | 6.707 | 1 |
| 8 | MP1B | Z | -3.872 | 1 |
| 9 | MP1B | Mx | .005 | 1 |
| 10 | MP1B | X | 6.707 | 3 |
| 11 | MP1B | Z | -3.872 | 3 |
| 12 | MP1B | Mx | .005 | 3 |
| 13 | MP1C | X | 13.602 | 1 |
| 14 | MP1C | Z | -7.853 | 1 |
| 15 | MP1C | Mx | 0 | 1 |

## Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 16 | MP1C | X | 13.602 | 3 |
| 17 | MP1C | Z | -7.853 | 3 |
| 18 | MP1C | Mx | 0 | 3 |
| 19 | MP3A | X | 19.477 | .71 |
| 20 | MP3A | Z | -11.245 | .71 |
| 21 | MP3A | Mx | -.022 | .71 |
| 22 | MP3A | X | 19.477 | 4.71 |
| 23 | MP3A | Z | -11.245 | 4.71 |
| 24 | MP3A | Mx | -.022 | 4.71 |
| 25 | MP3B | X | 18.396 | .71 |
| 26 | MP3B | Z | -10.621 | .71 |
| 27 | MP3B | Mx | .01 | .71 |
| 28 | MP3B | X | 18.396 | 4.71 |
| 29 | MP3B | Z | -10.621 | 4.71 |
| 30 | MP3B | Mx | .01 | 4.71 |
| 31 | MP3C | X | 25.574 | .71 |
| 32 | MP3C | Z | -14.765 | .71 |
| 33 | MP3C | Mx | .02 | .71 |
| 34 | MP3C | X | 25.574 | 4.71 |
| 35 | MP3C | Z | -14.765 | 4.71 |
| 36 | MP3C | Mx | .02 | 4.71 |
| 37 | MP3A | X | 19.477 | .71 |
| 38 | MP3A | Z | -11.245 | .71 |
| 39 | MP3A | Mx | -.007 | .71 |
| 40 | MP3A | X | 19.477 | 4.71 |
| 41 | MP3A | Z | -11.245 | 4.71 |
| 42 | MP3A | Mx | -.007 | 4.71 |
| 43 | MP3B | X | 18.396 | .71 |
| 44 | MP3B | Z | -10.621 | .71 |
| 45 | MP3B | Mx | .02 | .71 |
| 46 | MP3B | X | 18.396 | 4.71 |
| 47 | MP3B | Z | -10.621 | 4.71 |
| 48 | MP3B | Mx | .02 | 4.71 |
| 49 | MP3C | X | 25.574 | .71 |
| 50 | MP3C | Z | -14.765 | .71 |
| 51 | MP3C | Mx | -.02 | .71 |
| 52 | MP3C | X | 25.574 | 4.71 |
| 53 | MP3C | Z | -14.765 | 4.71 |
| 54 | MP3C | Mx | -.02 | 4.71 |
| 55 | MP2A | X | 17.686 | .8 |
| 56 | MP2A | Z | -10.211 | .8 |
| 57 | MP2A | Mx | -.013 | .8 |
| 58 | MP2A | X | 17.686 | 4.8 |
| 59 | MP2A | Z | -10.211 | 4.8 |
| 60 | MP2A | Mx | -.013 | 4.8 |
| 61 | MP2B | X | 16.735 | .8 |
| 62 | MP2B | Z | -9.662 | .8 |
| 63 | MP2B | Mx | .014 | .8 |
| 64 | MP2B | X | 16.735 | 4.8 |
| 65 | MP2B | Z | -9.662 | 4.8 |
| 66 | MP2B | Mx | .014 | 4.8 |
| 67 | MP2C | X | 23.052 | .8 |
| 68 | MP2C | Z | -13.309 | .8 |
| 69 | MP2C | Mx | 0 | .8 |
| 70 | MP2C | X | 23.052 | 4.8 |
| 71 | MP2C | Z | -13.309 | 4.8 |
| 72 | MP2C | Mx | 0 | 4.8 |

## Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 73 | MP4A | X | 2.78 | 2.08 |
| 74 | MP4A | Z | -1.605 | 2.08 |
| 75 | MP4A | Mx | -.002 | 2.08 |
| 76 | MP4B | X | 2.225 | 2.08 |
| 77 | MP4B | Z | -1.284 | 2.08 |
| 78 | MP4B | Mx | .002 | 2.08 |
| 79 | MP4C | X | 5.909 | 2.08 |
| 80 | MP4C | Z | -3.411 | 2.08 |
| 81 | MP4C | Mx | 0 | 2.08 |
| 82 | MP3A | X | 2.088 | 2.08 |
| 83 | MP3A | Z | -1.206 | 2.08 |
| 84 | MP3A | Mx | .001 | 2.08 |
| 85 | MP3B | X | 2.088 | 2.08 |
| 86 | MP3B | Z | -1.206 | 2.08 |
| 87 | MP3B | Mx | .001 | 2.08 |
| 88 | MP3C | X | 2.088 | 2.08 |
| 89 | MP3C | Z | -1.206 | 2.08 |
| 90 | MP3C | Mx | .001 | 2.08 |
| 91 | OVP | X | 10.135 | 1 |
| 92 | OVP | Z | -5.851 | 1 |
| 93 | OVP | Mx | -.006 | 1 |
| 94 | MP3A | X | 7.974 | 2.08 |
| 95 | MP3A | Z | -4.604 | 2.08 |
| 96 | MP3A | Mx | .005 | 2.08 |
| 97 | MP3B | X | 7.974 | 2.08 |
| 98 | MP3B | Z | -4.604 | 2.08 |
| 99 | MP3B | Mx | .005 | 2.08 |
| 100 | MP3C | X | 7.974 | 2.08 |
| 101 | MP3C | Z | -4.604 | 2.08 |
| 102 | MP3C | Mx | .005 | 2.08 |
| 103 | MP1A | X | 6.648 | 2.08 |
| 104 | MP1A | Z | -3.838 | 2.08 |
| 105 | MP1A | Mx | .004 | 2.08 |
| 106 | MP1B | X | 6.648 | 2.08 |
| 107 | MP1B | Z | -3.838 | 2.08 |
| 108 | MP1B | Mx | .004 | 2.08 |
| 109 | MP1C | X | 6.648 | 2.08 |
| 110 | MP1C | Z | -3.838 | 2.08 |
| 111 | MP1C | Mx | .004 | 2.08 |
| 112 | MP4C | X | 4.241 | 1 |
| 113 | MP4C | Z | -2.449 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 10.135 | 1 |
| 116 | OVP | Z | -5.851 | 1 |
| 117 | OVP | Mx | .006 | 1 |

## Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 6.69 | 1 |
| 2 | MP1A | Z | 0 | 1 |
| 3 | MP1A | Mx | -.005 | 1 |
| 4 | MP1A | X | 6.69 | 3 |
| 5 | MP1A | Z | 0 | 3 |
| 6 | MP1A | Mx | -.005 | 3 |
| 7 | MP1B | X | 11.981 | 1 |
| 8 | MP1B | Z | 0 | 1 |

## Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 9 | MP1B | Mx | .006 | 1 |
| 10 | MP1B | X | 11.981 | 3 |
| 11 | MP1B | Z | 0 | 3 |
| 12 | MP1B | Mx | .006 | 3 |
| 13 | MP1C | X | 13.452 | 1 |
| 14 | MP1C | Z | 0 | 1 |
| 15 | MP1C | Mx | .005 | 1 |
| 16 | MP1C | X | 13.452 | 3 |
| 17 | MP1C | Z | 0 | 3 |
| 18 | MP1C | Mx | .005 | 3 |
| 19 | MP3A | X | 20.144 | .71 |
| 20 | MP3A | Z | 0 | .71 |
| 21 | MP3A | Mx | -.015 | .71 |
| 22 | MP3A | X | 20.144 | 4.71 |
| 23 | MP3A | Z | 0 | 4.71 |
| 24 | MP3A | Mx | -.015 | 4.71 |
| 25 | MP3B | X | 25.652 | .71 |
| 26 | MP3B | Z | 0 | .71 |
| 27 | MP3B | Mx | -.000734 | .71 |
| 28 | MP3B | X | 25.652 | 4.71 |
| 29 | MP3B | Z | 0 | 4.71 |
| 30 | MP3B | Mx | -.000734 | 4.71 |
| 31 | MP3C | X | 27.184 | .71 |
| 32 | MP3C | Z | 0 | .71 |
| 33 | MP3C | Mx | .026 | .71 |
| 34 | MP3C | X | 27.184 | 4.71 |
| 35 | MP3C | Z | 0 | 4.71 |
| 36 | MP3C | Mx | .026 | 4.71 |
| 37 | MP3A | X | 20.144 | .71 |
| 38 | MP3A | Z | 0 | .71 |
| 39 | MP3A | Mx | -.015 | .71 |
| 40 | MP3A | X | 20.144 | 4.71 |
| 41 | MP3A | Z | 0 | 4.71 |
| 42 | MP3A | Mx | -.015 | 4.71 |
| 43 | MP3B | X | 25.652 | .71 |
| 44 | MP3B | Z | 0 | .71 |
| 45 | MP3B | Mx | .025 | .71 |
| 46 | MP3B | X | 25.652 | 4.71 |
| 47 | MP3B | Z | 0 | 4.71 |
| 48 | MP3B | Mx | .025 | 4.71 |
| 49 | MP3C | X | 27.184 | .71 |
| 50 | MP3C | Z | 0 | .71 |
| 51 | MP3C | Mx | -.006 | .71 |
| 52 | MP3C | X | 27.184 | 4.71 |
| 53 | MP3C | Z | 0 | 4.71 |
| 54 | MP3C | Mx | -.006 | 4.71 |
| 55 | MP2A | X | 18.357 | .8 |
| 56 | MP2A | Z | 0 | .8 |
| 57 | MP2A | Mx | -.014 | .8 |
| 58 | MP2A | X | 18.357 | 4.8 |
| 59 | MP2A | Z | 0 | 4.8 |
| 60 | MP2A | Mx | -.014 | 4.8 |
| 61 | MP2B | X | 23.205 | .8 |
| 62 | MP2B | Z | 0 | .8 |
| 63 | MP2B | Mx | .011 | .8 |
| 64 | MP2B | X | 23.205 | 4.8 |
| 65 | MP2B | Z | 0 | 4.8 |

## Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 66 | MP2B | Mx | .011 | 4.8 |
| 67 | MP2C | X | 24.553 | .8 |
| 68 | MP2C | Z | 0 | .8 |
| 69 | MP2C | Mx | .009 | .8 |
| 70 | MP2C | X | 24.553 | 4.8 |
| 71 | MP2C | Z | 0 | 4.8 |
| 72 | MP2C | Mx | .009 | 4.8 |
| 73 | MP4A | X | 2.005 | 2.08 |
| 74 | MP4A | Z | 0 | 2.08 |
| 75 | MP4A | Mx | -.002 | 2.08 |
| 76 | MP4B | X | 4.832 | 2.08 |
| 77 | MP4B | Z | 0 | 2.08 |
| 78 | MP4B | Mx | .002 | 2.08 |
| 79 | MP4C | X | 5.618 | 2.08 |
| 80 | MP4C | Z | 0 | 2.08 |
| 81 | MP4C | Mx | .002 | 2.08 |
| 82 | MP3A | X | 2.612 | 2.08 |
| 83 | MP3A | Z | 0 | 2.08 |
| 84 | MP3A | Mx | .002 | 2.08 |
| 85 | MP3B | X | 2.612 | 2.08 |
| 86 | MP3B | Z | 0 | 2.08 |
| 87 | MP3B | Mx | .002 | 2.08 |
| 88 | MP3C | X | 2.612 | 2.08 |
| 89 | MP3C | Z | 0 | 2.08 |
| 90 | MP3C | Mx | .002 | 2.08 |
| 91 | OVP | X | 13.089 | 1 |
| 92 | OVP | Z | 0 | 1 |
| 93 | OVP | Mx | -.006 | 1 |
| 94 | MP3A | X | 10.215 | 2.08 |
| 95 | MP3A | Z | 0 | 2.08 |
| 96 | MP3A | Mx | .002 | 2.08 |
| 97 | MP3B | X | 10.215 | 2.08 |
| 98 | MP3B | Z | 0 | 2.08 |
| 99 | MP3B | Mx | .002 | 2.08 |
| 100 | MP3C | X | 10.215 | 2.08 |
| 101 | MP3C | Z | 0 | 2.08 |
| 102 | MP3C | Mx | .002 | 2.08 |
| 103 | MP1A | X | 9.067 | 2.08 |
| 104 | MP1A | Z | 0 | 2.08 |
| 105 | MP1A | Mx | .002 | 2.08 |
| 106 | MP1B | X | 9.067 | 2.08 |
| 107 | MP1B | Z | 0 | 2.08 |
| 108 | MP1B | Mx | .002 | 2.08 |
| 109 | MP1C | X | 9.067 | 2.08 |
| 110 | MP1C | Z | 0 | 2.08 |
| 111 | MP1C | Mx | .002 | 2.08 |
| 112 | MP4C | X | 5.391 | 1 |
| 113 | MP4C | Z | 0 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 13.089 | 1 |
| 116 | OVP | Z | 0 | 1 |
| 117 | OVP | Mx | .006 | 1 |

## Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 7.746 | 1 |

## Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 2 | MP1A | Z | 4.472 | 1 |
| 3 | MP1A | Mx | -.006 | 1 |
| 4 | MP1A | X | 7.746 | 3 |
| 5 | MP1A | Z | 4.472 | 3 |
| 6 | MP1A | Mx | -.006 | 3 |
| 7 | MP1B | X | 13.366 | 1 |
| 8 | MP1B | Z | 7.717 | 1 |
| 9 | MP1B | Mx | .002 | 1 |
| 10 | MP1B | X | 13.366 | 3 |
| 11 | MP1B | Z | 7.717 | 3 |
| 12 | MP1B | Mx | .002 | 3 |
| 13 | MP1C | X | 7.746 | 1 |
| 14 | MP1C | Z | 4.472 | 1 |
| 15 | MP1C | Mx | .006 | 1 |
| 16 | MP1C | X | 7.746 | 3 |
| 17 | MP1C | Z | 4.472 | 3 |
| 18 | MP1C | Mx | .006 | 3 |
| 19 | MP3A | X | 19.477 | .71 |
| 20 | MP3A | Z | 11.245 | .71 |
| 21 | MP3A | Mx | -.007 | .71 |
| 22 | MP3A | X | 19.477 | 4.71 |
| 23 | MP3A | Z | 11.245 | 4.71 |
| 24 | MP3A | Mx | -.007 | 4.71 |
| 25 | MP3B | X | 25.329 | .71 |
| 26 | MP3B | Z | 14.624 | .71 |
| 27 | MP3B | Mx | -.015 | .71 |
| 28 | MP3B | X | 25.329 | 4.71 |
| 29 | MP3B | Z | 14.624 | 4.71 |
| 30 | MP3B | Mx | -.015 | 4.71 |
| 31 | MP3C | X | 19.477 | .71 |
| 32 | MP3C | Z | 11.245 | .71 |
| 33 | MP3C | Mx | .022 | .71 |
| 34 | MP3C | X | 19.477 | 4.71 |
| 35 | MP3C | Z | 11.245 | 4.71 |
| 36 | MP3C | Mx | .022 | 4.71 |
| 37 | MP3A | X | 19.477 | .71 |
| 38 | MP3A | Z | 11.245 | .71 |
| 39 | MP3A | Mx | -.022 | .71 |
| 40 | MP3A | X | 19.477 | 4.71 |
| 41 | MP3A | Z | 11.245 | 4.71 |
| 42 | MP3A | Mx | -.022 | 4.71 |
| 43 | MP3B | X | 25.329 | .71 |
| 44 | MP3B | Z | 14.624 | .71 |
| 45 | MP3B | Mx | .023 | .71 |
| 46 | MP3B | X | 25.329 | 4.71 |
| 47 | MP3B | Z | 14.624 | 4.71 |
| 48 | MP3B | Mx | .023 | 4.71 |
| 49 | MP3C | X | 19.477 | .71 |
| 50 | MP3C | Z | 11.245 | .71 |
| 51 | MP3C | Mx | .007 | .71 |
| 52 | MP3C | X | 19.477 | 4.71 |
| 53 | MP3C | Z | 11.245 | 4.71 |
| 54 | MP3C | Mx | .007 | 4.71 |
| 55 | MP2A | X | 17.686 | .8 |
| 56 | MP2A | Z | 10.211 | .8 |
| 57 | MP2A | Mx | -.013 | .8 |
| 58 | MP2A | X | 17.686 | 4.8 |

## Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 59 | MP2A | Z | 10.211 | 4.8 |
| 60 | MP2A | Mx | -.013 | 4.8 |
| 61 | MP2B | X | 22.836 | .8 |
| 62 | MP2B | Z | 13.184 | .8 |
| 63 | MP2B | Mx | .003 | .8 |
| 64 | MP2B | X | 22.836 | 4.8 |
| 65 | MP2B | Z | 13.184 | 4.8 |
| 66 | MP2B | Mx | .003 | 4.8 |
| 67 | MP2C | X | 17.686 | .8 |
| 68 | MP2C | Z | 10.211 | .8 |
| 69 | MP2C | Mx | .013 | .8 |
| 70 | MP2C | X | 17.686 | 4.8 |
| 71 | MP2C | Z | 10.211 | 4.8 |
| 72 | MP2C | Mx | .013 | 4.8 |
| 73 | MP4A | X | 2.78 | 2.08 |
| 74 | MP4A | Z | 1.605 | 2.08 |
| 75 | MP4A | Mx | -.002 | 2.08 |
| 76 | MP4B | X | 5.783 | 2.08 |
| 77 | MP4B | Z | 3.339 | 2.08 |
| 78 | MP4B | Mx | .00087 | 2.08 |
| 79 | MP4C | X | 2.78 | 2.08 |
| 80 | MP4C | Z | 1.605 | 2.08 |
| 81 | MP4C | Mx | .002 | 2.08 |
| 82 | MP3A | X | 2.609 | 2.08 |
| 83 | MP3A | Z | 1.506 | 2.08 |
| 84 | MP3A | Mx | .002 | 2.08 |
| 85 | MP3B | X | 2.609 | 2.08 |
| 86 | MP3B | Z | 1.506 | 2.08 |
| 87 | MP3B | Mx | .002 | 2.08 |
| 88 | MP3C | X | 2.609 | 2.08 |
| 89 | MP3C | Z | 1.506 | 2.08 |
| 90 | MP3C | Mx | .002 | 2.08 |
| 91 | OVP | X | 13.736 | 1 |
| 92 | OVP | Z | 7.93 | 1 |
| 93 | OVP | Mx | -.004 | 1 |
| 94 | MP3A | X | 10.591 | 2.08 |
| 95 | MP3A | Z | 6.115 | 2.08 |
| 96 | MP3A | Mx | -.002 | 2.08 |
| 97 | MP3B | X | 10.591 | 2.08 |
| 98 | MP3B | Z | 6.115 | 2.08 |
| 99 | MP3B | Mx | -.002 | 2.08 |
| 100 | MP3C | X | 10.591 | 2.08 |
| 101 | MP3C | Z | 6.115 | 2.08 |
| 102 | MP3C | Mx | -.002 | 2.08 |
| 103 | MP1A | X | 10.26 | 2.08 |
| 104 | MP1A | Z | 5.923 | 2.08 |
| 105 | MP1A | Mx | -.002 | 2.08 |
| 106 | MP1B | X | 10.26 | 2.08 |
| 107 | MP1B | Z | 5.923 | 2.08 |
| 108 | MP1B | Mx | -.002 | 2.08 |
| 109 | MP1C | X | 10.26 | 2.08 |
| 110 | MP1C | Z | 5.923 | 2.08 |
| 111 | MP1C | Mx | -.002 | 2.08 |
| 112 | MP4C | X | 5.523 | 1 |
| 113 | MP4C | Z | 3.189 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 13.736 | 1 |

## Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 116 | OVP | Z | 7.93 | 1 |
| 117 | OVP | Mx | .004 | 1 |

## Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 6.726 | 1 |
| 2 | MP1A | Z | 11.65 | 1 |
| 3 | MP1A | Mx | -.005 | 1 |
| 4 | MP1A | X | 6.726 | 3 |
| 5 | MP1A | Z | 11.65 | 3 |
| 6 | MP1A | Mx | -.005 | 3 |
| 7 | MP1B | X | 7.326 | 1 |
| 8 | MP1B | Z | 12.688 | 1 |
| 9 | MP1B | Mx | -.004 | 1 |
| 10 | MP1B | X | 7.326 | 3 |
| 11 | MP1B | Z | 12.688 | 3 |
| 12 | MP1B | Mx | -.004 | 3 |
| 13 | MP1C | X | 3.345 | 1 |
| 14 | MP1C | Z | 5.794 | 1 |
| 15 | MP1C | Mx | .005 | 1 |
| 16 | MP1C | X | 3.345 | 3 |
| 17 | MP1C | Z | 5.794 | 3 |
| 18 | MP1C | Mx | .005 | 3 |
| 19 | MP3A | X | 13.592 | .71 |
| 20 | MP3A | Z | 23.542 | .71 |
| 21 | MP3A | Mx | .006 | .71 |
| 22 | MP3A | X | 13.592 | 4.71 |
| 23 | MP3A | Z | 23.542 | 4.71 |
| 24 | MP3A | Mx | .006 | 4.71 |
| 25 | MP3B | X | 14.216 | .71 |
| 26 | MP3B | Z | 24.623 | .71 |
| 27 | MP3B | Mx | -.025 | .71 |
| 28 | MP3B | X | 14.216 | 4.71 |
| 29 | MP3B | Z | 24.623 | 4.71 |
| 30 | MP3B | Mx | -.025 | 4.71 |
| 31 | MP3C | X | 10.072 | .71 |
| 32 | MP3C | Z | 17.445 | .71 |
| 33 | MP3C | Mx | .015 | .71 |
| 34 | MP3C | X | 10.072 | 4.71 |
| 35 | MP3C | Z | 17.445 | 4.71 |
| 36 | MP3C | Mx | .015 | 4.71 |
| 37 | MP3A | X | 13.592 | .71 |
| 38 | MP3A | Z | 23.542 | .71 |
| 39 | MP3A | Mx | -.026 | .71 |
| 40 | MP3A | X | 13.592 | 4.71 |
| 41 | MP3A | Z | 23.542 | 4.71 |
| 42 | MP3A | Mx | -.026 | 4.71 |
| 43 | MP3B | X | 14.216 | .71 |
| 44 | MP3B | Z | 24.623 | .71 |
| 45 | MP3B | Mx | .011 | .71 |
| 46 | MP3B | X | 14.216 | 4.71 |
| 47 | MP3B | Z | 24.623 | 4.71 |
| 48 | MP3B | Mx | .011 | 4.71 |
| 49 | MP3C | X | 10.072 | .71 |
| 50 | MP3C | Z | 17.445 | .71 |
| 51 | MP3C | Mx | .015 | .71 |

## Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 52 | MP3C | X | 10.072 | 4.71 |
| 53 | MP3C | Z | 17.445 | 4.71 |
| 54 | MP3C | Mx | .015 | 4.71 |
| 55 | MP2A | X | 12.276 | .8 |
| 56 | MP2A | Z | 21.263 | .8 |
| 57 | MP2A | Mx | -.009 | .8 |
| 58 | MP2A | X | 12.276 | 4.8 |
| 59 | MP2A | Z | 21.263 | 4.8 |
| 60 | MP2A | Mx | -.009 | 4.8 |
| 61 | MP2B | X | 12.826 | .8 |
| 62 | MP2B | Z | 22.215 | .8 |
| 63 | MP2B | Mx | -.007 | .8 |
| 64 | MP2B | X | 12.826 | 4.8 |
| 65 | MP2B | Z | 22.215 | 4.8 |
| 66 | MP2B | Mx | -.007 | 4.8 |
| 67 | MP2C | X | 9.179 | .8 |
| 68 | MP2C | Z | 15.898 | .8 |
| 69 | MP2C | Mx | .014 | .8 |
| 70 | MP2C | X | 9.179 | 4.8 |
| 71 | MP2C | Z | 15.898 | 4.8 |
| 72 | MP2C | Mx | .014 | 4.8 |
| 73 | MP4A | X | 2.809 | 2.08 |
| 74 | MP4A | Z | 4.866 | 2.08 |
| 75 | MP4A | Mx | -.002 | 2.08 |
| 76 | MP4B | X | 3.13 | 2.08 |
| 77 | MP4B | Z | 5.421 | 2.08 |
| 78 | MP4B | Mx | -.002 | 2.08 |
| 79 | MP4C | X | 1.003 | 2.08 |
| 80 | MP4C | Z | 1.737 | 2.08 |
| 81 | MP4C | Mx | .002 | 2.08 |
| 82 | MP3A | X | 1.606 | 2.08 |
| 83 | MP3A | Z | 2.783 | 2.08 |
| 84 | MP3A | Mx | .002 | 2.08 |
| 85 | MP3B | X | 1.606 | 2.08 |
| 86 | MP3B | Z | 2.783 | 2.08 |
| 87 | MP3B | Mx | .002 | 2.08 |
| 88 | MP3C | X | 1.606 | 2.08 |
| 89 | MP3C | Z | 2.783 | 2.08 |
| 90 | MP3C | Mx | .002 | 2.08 |
| 91 | OVP | X | 8.623 | 1 |
| 92 | OVP | Z | 14.936 | 1 |
| 93 | OVP | Mx | 0 | 1 |
| 94 | MP3A | X | 6.619 | 2.08 |
| 95 | MP3A | Z | 11.464 | 2.08 |
| 96 | MP3A | Mx | -.007 | 2.08 |
| 97 | MP3B | X | 6.619 | 2.08 |
| 98 | MP3B | Z | 11.464 | 2.08 |
| 99 | MP3B | Mx | -.007 | 2.08 |
| 100 | MP3C | X | 6.619 | 2.08 |
| 101 | MP3C | Z | 11.464 | 2.08 |
| 102 | MP3C | Mx | -.007 | 2.08 |
| 103 | MP1A | X | 6.619 | 2.08 |
| 104 | MP1A | Z | 11.464 | 2.08 |
| 105 | MP1A | Mx | -.007 | 2.08 |
| 106 | MP1B | X | 6.619 | 2.08 |
| 107 | MP1B | Z | 11.464 | 2.08 |
| 108 | MP1B | Mx | -.007 | 2.08 |

## Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 109 | MP1C | X | 6.619 | 2.08 |
| 110 | MP1C | Z | 11.464 | 2.08 |
| 111 | MP1C | Mx | -.007 | 2.08 |
| 112 | MP4C | X | 3.436 | 1 |
| 113 | MP4C | Z | 5.951 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 8.623 | 1 |
| 116 | OVP | Z | 14.936 | 1 |
| 117 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 0 | 1 |
| 2 | MP1A | Z | 15.706 | 1 |
| 3 | MP1A | Mx | 0 | 1 |
| 4 | MP1A | X | 0 | 3 |
| 5 | MP1A | Z | 15.706 | 3 |
| 6 | MP1A | Mx | 0 | 3 |
| 7 | MP1B | X | 0 | 1 |
| 8 | MP1B | Z | 10.415 | 1 |
| 9 | MP1B | Mx | -.006 | 1 |
| 10 | MP1B | X | 0 | 3 |
| 11 | MP1B | Z | 10.415 | 3 |
| 12 | MP1B | Mx | -.006 | 3 |
| 13 | MP1C | X | 0 | 1 |
| 14 | MP1C | Z | 8.944 | 1 |
| 15 | MP1C | Mx | .006 | 1 |
| 16 | MP1C | X | 0 | 3 |
| 17 | MP1C | Z | 8.944 | 3 |
| 18 | MP1C | Mx | .006 | 3 |
| 19 | MP3A | X | 0 | .71 |
| 20 | MP3A | Z | 29.53 | .71 |
| 21 | MP3A | Mx | .02 | .71 |
| 22 | MP3A | X | 0 | 4.71 |
| 23 | MP3A | Z | 29.53 | 4.71 |
| 24 | MP3A | Mx | .02 | 4.71 |
| 25 | MP3B | X | 0 | .71 |
| 26 | MP3B | Z | 24.022 | .71 |
| 27 | MP3B | Mx | -.024 | .71 |
| 28 | MP3B | X | 0 | 4.71 |
| 29 | MP3B | Z | 24.022 | 4.71 |
| 30 | MP3B | Mx | -.024 | 4.71 |
| 31 | MP3C | X | 0 | .71 |
| 32 | MP3C | Z | 22.49 | .71 |
| 33 | MP3C | Mx | .007 | .71 |
| 34 | MP3C | X | 0 | 4.71 |
| 35 | MP3C | Z | 22.49 | 4.71 |
| 36 | MP3C | Mx | .007 | 4.71 |
| 37 | MP3A | X | 0 | .71 |
| 38 | MP3A | Z | 29.53 | .71 |
| 39 | MP3A | Mx | -.02 | .71 |
| 40 | MP3A | X | 0 | 4.71 |
| 41 | MP3A | Z | 29.53 | 4.71 |
| 42 | MP3A | Mx | -.02 | 4.71 |
| 43 | MP3B | X | 0 | .71 |
| 44 | MP3B | Z | 24.022 | .71 |

## Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 45 | MP3B | Mx | -.004 | .71 |
| 46 | MP3B | X | 0 | 4.71 |
| 47 | MP3B | Z | 24.022 | 4.71 |
| 48 | MP3B | Mx | -.004 | 4.71 |
| 49 | MP3C | X | 0 | .71 |
| 50 | MP3C | Z | 22.49 | .71 |
| 51 | MP3C | Mx | .022 | .71 |
| 52 | MP3C | X | 0 | 4.71 |
| 53 | MP3C | Z | 22.49 | 4.71 |
| 54 | MP3C | Mx | .022 | 4.71 |
| 55 | MP2A | X | 0 | .8 |
| 56 | MP2A | Z | 26.618 | .8 |
| 57 | MP2A | Mx | 0 | .8 |
| 58 | MP2A | X | 0 | 4.8 |
| 59 | MP2A | Z | 26.618 | 4.8 |
| 60 | MP2A | Mx | 0 | 4.8 |
| 61 | MP2B | X | 0 | .8 |
| 62 | MP2B | Z | 21.77 | .8 |
| 63 | MP2B | Mx | -.013 | .8 |
| 64 | MP2B | X | 0 | 4.8 |
| 65 | MP2B | Z | 21.77 | 4.8 |
| 66 | MP2B | Mx | -.013 | 4.8 |
| 67 | MP2C | X | 0 | .8 |
| 68 | MP2C | Z | 20.422 | .8 |
| 69 | MP2C | Mx | .013 | .8 |
| 70 | MP2C | X | 0 | 4.8 |
| 71 | MP2C | Z | 20.422 | 4.8 |
| 72 | MP2C | Mx | .013 | 4.8 |
| 73 | MP4A | X | 0 | 2.08 |
| 74 | MP4A | Z | 6.823 | 2.08 |
| 75 | MP4A | Mx | 0 | 2.08 |
| 76 | MP4B | X | 0 | 2.08 |
| 77 | MP4B | Z | 3.996 | 2.08 |
| 78 | MP4B | Mx | -.002 | 2.08 |
| 79 | MP4C | X | 0 | 2.08 |
| 80 | MP4C | Z | 3.21 | 2.08 |
| 81 | MP4C | Mx | .002 | 2.08 |
| 82 | MP3A | X | 0 | 2.08 |
| 83 | MP3A | Z | 3.013 | 2.08 |
| 84 | MP3A | Mx | .000551 | 2.08 |
| 85 | MP3B | X | 0 | 2.08 |
| 86 | MP3B | Z | 3.013 | 2.08 |
| 87 | MP3B | Mx | .000551 | 2.08 |
| 88 | MP3C | X | 0 | 2.08 |
| 89 | MP3C | Z | 3.013 | 2.08 |
| 90 | MP3C | Mx | .000551 | 2.08 |
| 91 | OVP | X | 0 | 1 |
| 92 | OVP | Z | 15.861 | 1 |
| 93 | OVP | Mx | .004 | 1 |
| 94 | MP3A | X | 0 | 2.08 |
| 95 | MP3A | Z | 12.23 | 2.08 |
| 96 | MP3A | Mx | -.008 | 2.08 |
| 97 | MP3B | X | 0 | 2.08 |
| 98 | MP3B | Z | 12.23 | 2.08 |
| 99 | MP3B | Mx | -.008 | 2.08 |
| 100 | MP3C | X | 0 | 2.08 |
| 101 | MP3C | Z | 12.23 | 2.08 |

## Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 102 | MP3C | Mx | -.008 | 2.08 |
| 103 | MP1A | X | 0 | 2.08 |
| 104 | MP1A | Z | 11.847 | 2.08 |
| 105 | MP1A | Mx | -.008 | 2.08 |
| 106 | MP1B | X | 0 | 2.08 |
| 107 | MP1B | Z | 11.847 | 2.08 |
| 108 | MP1B | Mx | -.008 | 2.08 |
| 109 | MP1C | X | 0 | 2.08 |
| 110 | MP1C | Z | 11.847 | 2.08 |
| 111 | MP1C | Mx | -.008 | 2.08 |
| 112 | MP4C | X | 0 | 1 |
| 113 | MP4C | Z | 6.378 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 0 | 1 |
| 116 | OVP | Z | 15.861 | 1 |
| 117 | OVP | Mx | -.004 | 1 |

## Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -6.726 | 1 |
| 2 | MP1A | Z | 11.65 | 1 |
| 3 | MP1A | Mx | .005 | 1 |
| 4 | MP1A | X | -6.726 | 3 |
| 5 | MP1A | Z | 11.65 | 3 |
| 6 | MP1A | Mx | .005 | 3 |
| 7 | MP1B | X | -3.481 | 1 |
| 8 | MP1B | Z | 6.029 | 1 |
| 9 | MP1B | Mx | -.005 | 1 |
| 10 | MP1B | X | -3.481 | 3 |
| 11 | MP1B | Z | 6.029 | 3 |
| 12 | MP1B | Mx | -.005 | 3 |
| 13 | MP1C | X | -6.726 | 1 |
| 14 | MP1C | Z | 11.65 | 1 |
| 15 | MP1C | Mx | .005 | 1 |
| 16 | MP1C | X | -6.726 | 3 |
| 17 | MP1C | Z | 11.65 | 3 |
| 18 | MP1C | Mx | .005 | 3 |
| 19 | MP3A | X | -13.592 | .71 |
| 20 | MP3A | Z | 23.542 | .71 |
| 21 | MP3A | Mx | .026 | .71 |
| 22 | MP3A | X | -13.592 | 4.71 |
| 23 | MP3A | Z | 23.542 | 4.71 |
| 24 | MP3A | Mx | .026 | 4.71 |
| 25 | MP3B | X | -10.213 | .71 |
| 26 | MP3B | Z | 17.69 | .71 |
| 27 | MP3B | Mx | -.017 | .71 |
| 28 | MP3B | X | -10.213 | 4.71 |
| 29 | MP3B | Z | 17.69 | 4.71 |
| 30 | MP3B | Mx | -.017 | 4.71 |
| 31 | MP3C | X | -13.592 | .71 |
| 32 | MP3C | Z | 23.542 | .71 |
| 33 | MP3C | Mx | -.006 | .71 |
| 34 | MP3C | X | -13.592 | 4.71 |
| 35 | MP3C | Z | 23.542 | 4.71 |
| 36 | MP3C | Mx | -.006 | 4.71 |
| 37 | MP3A | X | -13.592 | .71 |

## Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 38 | MP3A | Z | 23.542 | .71 |
| 39 | MP3A | Mx | -.006 | .71 |
| 40 | MP3A | X | -13.592 | 4.71 |
| 41 | MP3A | Z | 23.542 | 4.71 |
| 42 | MP3A | Mx | -.006 | 4.71 |
| 43 | MP3B | X | -10.213 | .71 |
| 44 | MP3B | Z | 17.69 | .71 |
| 45 | MP3B | Mx | -.013 | .71 |
| 46 | MP3B | X | -10.213 | 4.71 |
| 47 | MP3B | Z | 17.69 | 4.71 |
| 48 | MP3B | Mx | -.013 | 4.71 |
| 49 | MP3C | X | -13.592 | .71 |
| 50 | MP3C | Z | 23.542 | .71 |
| 51 | MP3C | Mx | .026 | .71 |
| 52 | MP3C | X | -13.592 | 4.71 |
| 53 | MP3C | Z | 23.542 | 4.71 |
| 54 | MP3C | Mx | .026 | 4.71 |
| 55 | MP2A | X | -12.276 | .8 |
| 56 | MP2A | Z | 21.263 | .8 |
| 57 | MP2A | Mx | .009 | .8 |
| 58 | MP2A | X | -12.276 | 4.8 |
| 59 | MP2A | Z | 21.263 | 4.8 |
| 60 | MP2A | Mx | .009 | 4.8 |
| 61 | MP2B | X | -9.303 | .8 |
| 62 | MP2B | Z | 16.114 | .8 |
| 63 | MP2B | Mx | -.014 | .8 |
| 64 | MP2B | X | -9.303 | 4.8 |
| 65 | MP2B | Z | 16.114 | 4.8 |
| 66 | MP2B | Mx | -.014 | 4.8 |
| 67 | MP2C | X | -12.276 | .8 |
| 68 | MP2C | Z | 21.263 | .8 |
| 69 | MP2C | Mx | .009 | .8 |
| 70 | MP2C | X | -12.276 | 4.8 |
| 71 | MP2C | Z | 21.263 | 4.8 |
| 72 | MP2C | Mx | .009 | 4.8 |
| 73 | MP4A | X | -2.809 | 2.08 |
| 74 | MP4A | Z | 4.866 | 2.08 |
| 75 | MP4A | Mx | .002 | 2.08 |
| 76 | MP4B | X | -1.075 | 2.08 |
| 77 | MP4B | Z | 1.862 | 2.08 |
| 78 | MP4B | Mx | -.002 | 2.08 |
| 79 | MP4C | X | -2.809 | 2.08 |
| 80 | MP4C | Z | 4.866 | 2.08 |
| 81 | MP4C | Mx | .002 | 2.08 |
| 82 | MP3A | X | -1.306 | 2.08 |
| 83 | MP3A | Z | 2.262 | 2.08 |
| 84 | MP3A | Mx | -.000478 | 2.08 |
| 85 | MP3B | X | -1.306 | 2.08 |
| 86 | MP3B | Z | 2.262 | 2.08 |
| 87 | MP3B | Mx | -.000478 | 2.08 |
| 88 | MP3C | X | -1.306 | 2.08 |
| 89 | MP3C | Z | 2.262 | 2.08 |
| 90 | MP3C | Mx | -.000478 | 2.08 |
| 91 | OVP | X | -6.544 | 1 |
| 92 | OVP | Z | 11.335 | 1 |
| 93 | OVP | Mx | .006 | 1 |
| 94 | MP3A | X | -5.107 | 2.08 |

## Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 95 | MP3A | Z | 8.846 | 2.08 |
| 96 | MP3A | Mx | -.007 | 2.08 |
| 97 | MP3B | X | -5.107 | 2.08 |
| 98 | MP3B | Z | 8.846 | 2.08 |
| 99 | MP3B | Mx | -.007 | 2.08 |
| 100 | MP3C | X | -5.107 | 2.08 |
| 101 | MP3C | Z | 8.846 | 2.08 |
| 102 | MP3C | Mx | -.007 | 2.08 |
| 103 | MP1A | X | -4.533 | 2.08 |
| 104 | MP1A | Z | 7.852 | 2.08 |
| 105 | MP1A | Mx | -.006 | 2.08 |
| 106 | MP1B | X | -4.533 | 2.08 |
| 107 | MP1B | Z | 7.852 | 2.08 |
| 108 | MP1B | Mx | -.006 | 2.08 |
| 109 | MP1C | X | -4.533 | 2.08 |
| 110 | MP1C | Z | 7.852 | 2.08 |
| 111 | MP1C | Mx | -.006 | 2.08 |
| 112 | MP4C | X | -2.695 | 1 |
| 113 | MP4C | Z | 4.669 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -6.544 | 1 |
| 116 | OVP | Z | 11.335 | 1 |
| 117 | OVP | Mx | -.006 | 1 |

## Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -7.746 | 1 |
| 2 | MP1A | Z | 4.472 | 1 |
| 3 | MP1A | Mx | .006 | 1 |
| 4 | MP1A | X | -7.746 | 3 |
| 5 | MP1A | Z | 4.472 | 3 |
| 6 | MP1A | Mx | .006 | 3 |
| 7 | MP1B | X | -6.707 | 1 |
| 8 | MP1B | Z | 3.872 | 1 |
| 9 | MP1B | Mx | -.005 | 1 |
| 10 | MP1B | X | -6.707 | 3 |
| 11 | MP1B | Z | 3.872 | 3 |
| 12 | MP1B | Mx | -.005 | 3 |
| 13 | MP1C | X | -13.602 | 1 |
| 14 | MP1C | Z | 7.853 | 1 |
| 15 | MP1C | Mx | 0 | 1 |
| 16 | MP1C | X | -13.602 | 3 |
| 17 | MP1C | Z | 7.853 | 3 |
| 18 | MP1C | Mx | 0 | 3 |
| 19 | MP3A | X | -19.477 | .71 |
| 20 | MP3A | Z | 11.245 | .71 |
| 21 | MP3A | Mx | .022 | .71 |
| 22 | MP3A | X | -19.477 | 4.71 |
| 23 | MP3A | Z | 11.245 | 4.71 |
| 24 | MP3A | Mx | .022 | 4.71 |
| 25 | MP3B | X | -18.396 | .71 |
| 26 | MP3B | Z | 10.621 | .71 |
| 27 | MP3B | Mx | -.01 | .71 |
| 28 | MP3B | X | -18.396 | 4.71 |
| 29 | MP3B | Z | 10.621 | 4.71 |
| 30 | MP3B | Mx | -.01 | 4.71 |

## Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 31 | MP3C | X | -25.574 | .71 |
| 32 | MP3C | Z | 14.765 | .71 |
| 33 | MP3C | Mx | -.02 | .71 |
| 34 | MP3C | X | -25.574 | 4.71 |
| 35 | MP3C | Z | 14.765 | 4.71 |
| 36 | MP3C | Mx | -.02 | 4.71 |
| 37 | MP3A | X | -19.477 | .71 |
| 38 | MP3A | Z | 11.245 | .71 |
| 39 | MP3A | Mx | .007 | .71 |
| 40 | MP3A | X | -19.477 | 4.71 |
| 41 | MP3A | Z | 11.245 | 4.71 |
| 42 | MP3A | Mx | .007 | 4.71 |
| 43 | MP3B | X | -18.396 | .71 |
| 44 | MP3B | Z | 10.621 | .71 |
| 45 | MP3B | Mx | -.02 | .71 |
| 46 | MP3B | X | -18.396 | 4.71 |
| 47 | MP3B | Z | 10.621 | 4.71 |
| 48 | MP3B | Mx | -.02 | 4.71 |
| 49 | MP3C | X | -25.574 | .71 |
| 50 | MP3C | Z | 14.765 | .71 |
| 51 | MP3C | Mx | .02 | .71 |
| 52 | MP3C | X | -25.574 | 4.71 |
| 53 | MP3C | Z | 14.765 | 4.71 |
| 54 | MP3C | Mx | .02 | 4.71 |
| 55 | MP2A | X | -17.686 | .8 |
| 56 | MP2A | Z | 10.211 | .8 |
| 57 | MP2A | Mx | .013 | .8 |
| 58 | MP2A | X | -17.686 | 4.8 |
| 59 | MP2A | Z | 10.211 | 4.8 |
| 60 | MP2A | Mx | .013 | 4.8 |
| 61 | MP2B | X | -16.735 | .8 |
| 62 | MP2B | Z | 9.662 | .8 |
| 63 | MP2B | Mx | -.014 | .8 |
| 64 | MP2B | X | -16.735 | 4.8 |
| 65 | MP2B | Z | 9.662 | 4.8 |
| 66 | MP2B | Mx | -.014 | 4.8 |
| 67 | MP2C | X | -23.052 | .8 |
| 68 | MP2C | Z | 13.309 | .8 |
| 69 | MP2C | Mx | 0 | .8 |
| 70 | MP2C | X | -23.052 | 4.8 |
| 71 | MP2C | Z | 13.309 | 4.8 |
| 72 | MP2C | Mx | 0 | 4.8 |
| 73 | MP4A | X | -2.78 | 2.08 |
| 74 | MP4A | Z | 1.605 | 2.08 |
| 75 | MP4A | Mx | .002 | 2.08 |
| 76 | MP4B | X | -2.225 | 2.08 |
| 77 | MP4B | Z | 1.284 | 2.08 |
| 78 | MP4B | Mx | -.002 | 2.08 |
| 79 | MP4C | X | -5.909 | 2.08 |
| 80 | MP4C | Z | 3.411 | 2.08 |
| 81 | MP4C | Mx | 0 | 2.08 |
| 82 | MP3A | X | -2.088 | 2.08 |
| 83 | MP3A | Z | 1.206 | 2.08 |
| 84 | MP3A | Mx | -.001 | 2.08 |
| 85 | MP3B | X | -2.088 | 2.08 |
| 86 | MP3B | Z | 1.206 | 2.08 |
| 87 | MP3B | Mx | -.001 | 2.08 |

## Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 88 | MP3C | X | -2.088 | 2.08 |
| 89 | MP3C | Z | 1.206 | 2.08 |
| 90 | MP3C | Mx | -.001 | 2.08 |
| 91 | OVP | X | -10.135 | 1 |
| 92 | OVP | Z | 5.851 | 1 |
| 93 | OVP | Mx | .006 | 1 |
| 94 | MP3A | X | -7.974 | 2.08 |
| 95 | MP3A | Z | 4.604 | 2.08 |
| 96 | MP3A | Mx | -.005 | 2.08 |
| 97 | MP3B | X | -7.974 | 2.08 |
| 98 | MP3B | Z | 4.604 | 2.08 |
| 99 | MP3B | Mx | -.005 | 2.08 |
| 100 | MP3C | X | -7.974 | 2.08 |
| 101 | MP3C | Z | 4.604 | 2.08 |
| 102 | MP3C | Mx | -.005 | 2.08 |
| 103 | MP1A | X | -6.648 | 2.08 |
| 104 | MP1A | Z | 3.838 | 2.08 |
| 105 | MP1A | Mx | -.004 | 2.08 |
| 106 | MP1B | X | -6.648 | 2.08 |
| 107 | MP1B | Z | 3.838 | 2.08 |
| 108 | MP1B | Mx | -.004 | 2.08 |
| 109 | MP1C | X | -6.648 | 2.08 |
| 110 | MP1C | Z | 3.838 | 2.08 |
| 111 | MP1C | Mx | -.004 | 2.08 |
| 112 | MP4C | X | -4.241 | 1 |
| 113 | MP4C | Z | 2.449 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -10.135 | 1 |
| 116 | OVP | Z | 5.851 | 1 |
| 117 | OVP | Mx | -.006 | 1 |

## Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -6.69 | 1 |
| 2 | MP1A | Z | 0 | 1 |
| 3 | MP1A | Mx | .005 | 1 |
| 4 | MP1A | X | -6.69 | 3 |
| 5 | MP1A | Z | 0 | 3 |
| 6 | MP1A | Mx | .005 | 3 |
| 7 | MP1B | X | -11.981 | 1 |
| 8 | MP1B | Z | 0 | 1 |
| 9 | MP1B | Mx | -.006 | 1 |
| 10 | MP1B | X | -11.981 | 3 |
| 11 | MP1B | Z | 0 | 3 |
| 12 | MP1B | Mx | -.006 | 3 |
| 13 | MP1C | X | -13.452 | 1 |
| 14 | MP1C | Z | 0 | 1 |
| 15 | MP1C | Mx | -.005 | 1 |
| 16 | MP1C | X | -13.452 | 3 |
| 17 | MP1C | Z | 0 | 3 |
| 18 | MP1C | Mx | -.005 | 3 |
| 19 | MP3A | X | -20.144 | .71 |
| 20 | MP3A | Z | 0 | .71 |
| 21 | MP3A | Mx | .015 | .71 |
| 22 | MP3A | X | -20.144 | 4.71 |
| 23 | MP3A | Z | 0 | 4.71 |

## Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 24 | MP3A | Mx | .015 | 4.71 |
| 25 | MP3B | X | -25.652 | .71 |
| 26 | MP3B | Z | 0 | .71 |
| 27 | MP3B | Mx | .000734 | .71 |
| 28 | MP3B | X | -25.652 | 4.71 |
| 29 | MP3B | Z | 0 | 4.71 |
| 30 | MP3B | Mx | .000734 | 4.71 |
| 31 | MP3C | X | -27.184 | .71 |
| 32 | MP3C | Z | 0 | .71 |
| 33 | MP3C | Mx | -.026 | .71 |
| 34 | MP3C | X | -27.184 | 4.71 |
| 35 | MP3C | Z | 0 | 4.71 |
| 36 | MP3C | Mx | -.026 | 4.71 |
| 37 | MP3A | X | -20.144 | .71 |
| 38 | MP3A | Z | 0 | .71 |
| 39 | MP3A | Mx | .015 | .71 |
| 40 | MP3A | X | -20.144 | 4.71 |
| 41 | MP3A | Z | 0 | 4.71 |
| 42 | MP3A | Mx | .015 | 4.71 |
| 43 | MP3B | X | -25.652 | .71 |
| 44 | MP3B | Z | 0 | .71 |
| 45 | MP3B | Mx | -.025 | .71 |
| 46 | MP3B | X | -25.652 | 4.71 |
| 47 | MP3B | Z | 0 | 4.71 |
| 48 | MP3B | Mx | -.025 | 4.71 |
| 49 | MP3C | X | -27.184 | .71 |
| 50 | MP3C | Z | 0 | .71 |
| 51 | MP3C | Mx | .006 | .71 |
| 52 | MP3C | X | -27.184 | 4.71 |
| 53 | MP3C | Z | 0 | 4.71 |
| 54 | MP3C | Mx | .006 | 4.71 |
| 55 | MP2A | X | -18.357 | .8 |
| 56 | MP2A | Z | 0 | .8 |
| 57 | MP2A | Mx | .014 | .8 |
| 58 | MP2A | X | -18.357 | 4.8 |
| 59 | MP2A | Z | 0 | 4.8 |
| 60 | MP2A | Mx | .014 | 4.8 |
| 61 | MP2B | X | -23.205 | .8 |
| 62 | MP2B | Z | 0 | .8 |
| 63 | MP2B | Mx | -.011 | .8 |
| 64 | MP2B | X | -23.205 | 4.8 |
| 65 | MP2B | Z | 0 | 4.8 |
| 66 | MP2B | Mx | -.011 | 4.8 |
| 67 | MP2C | X | -24.553 | .8 |
| 68 | MP2C | Z | 0 | .8 |
| 69 | MP2C | Mx | -.009 | .8 |
| 70 | MP2C | X | -24.553 | 4.8 |
| 71 | MP2C | Z | 0 | 4.8 |
| 72 | MP2C | Mx | -.009 | 4.8 |
| 73 | MP4A | X | -2.005 | 2.08 |
| 74 | MP4A | Z | 0 | 2.08 |
| 75 | MP4A | Mx | .002 | 2.08 |
| 76 | MP4B | X | -4.832 | 2.08 |
| 77 | MP4B | Z | 0 | 2.08 |
| 78 | MP4B | Mx | -.002 | 2.08 |
| 79 | MP4C | X | -5.618 | 2.08 |
| 80 | MP4C | Z | 0 | 2.08 |

## Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 81 | MP4C | Mx | -.002 | 2.08 |
| 82 | MP3A | X | -2.612 | 2.08 |
| 83 | MP3A | Z | 0 | 2.08 |
| 84 | MP3A | Mx | -.002 | 2.08 |
| 85 | MP3B | X | -2.612 | 2.08 |
| 86 | MP3B | Z | 0 | 2.08 |
| 87 | MP3B | Mx | -.002 | 2.08 |
| 88 | MP3C | X | -2.612 | 2.08 |
| 89 | MP3C | Z | 0 | 2.08 |
| 90 | MP3C | Mx | -.002 | 2.08 |
| 91 | OVP | X | -13.089 | 1 |
| 92 | OVP | Z | 0 | 1 |
| 93 | OVP | Mx | .006 | 1 |
| 94 | MP3A | X | -10.215 | 2.08 |
| 95 | MP3A | Z | 0 | 2.08 |
| 96 | MP3A | Mx | -.002 | 2.08 |
| 97 | MP3B | X | -10.215 | 2.08 |
| 98 | MP3B | Z | 0 | 2.08 |
| 99 | MP3B | Mx | -.002 | 2.08 |
| 100 | MP3C | X | -10.215 | 2.08 |
| 101 | MP3C | Z | 0 | 2.08 |
| 102 | MP3C | Mx | -.002 | 2.08 |
| 103 | MP1A | X | -9.067 | 2.08 |
| 104 | MP1A | Z | 0 | 2.08 |
| 105 | MP1A | Mx | -.002 | 2.08 |
| 106 | MP1B | X | -9.067 | 2.08 |
| 107 | MP1B | Z | 0 | 2.08 |
| 108 | MP1B | Mx | -.002 | 2.08 |
| 109 | MP1C | X | -9.067 | 2.08 |
| 110 | MP1C | Z | 0 | 2.08 |
| 111 | MP1C | Mx | -.002 | 2.08 |
| 112 | MP4C | X | -5.391 | 1 |
| 113 | MP4C | Z | 0 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -13.089 | 1 |
| 116 | OVP | Z | 0 | 1 |
| 117 | OVP | Mx | -.006 | 1 |

## Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -7.746 | 1 |
| 2 | MP1A | Z | -4.472 | 1 |
| 3 | MP1A | Mx | .006 | 1 |
| 4 | MP1A | X | -7.746 | 3 |
| 5 | MP1A | Z | -4.472 | 3 |
| 6 | MP1A | Mx | .006 | 3 |
| 7 | MP1B | X | -13.366 | 1 |
| 8 | MP1B | Z | -7.717 | 1 |
| 9 | MP1B | Mx | -.002 | 1 |
| 10 | MP1B | X | -13.366 | 3 |
| 11 | MP1B | Z | -7.717 | 3 |
| 12 | MP1B | Mx | -.002 | 3 |
| 13 | MP1C | X | -7.746 | 1 |
| 14 | MP1C | Z | -4.472 | 1 |
| 15 | MP1C | Mx | -.006 | 1 |
| 16 | MP1C | X | -7.746 | 3 |

## Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 17 | MP1C | Z | -4.472 | 3 |
| 18 | MP1C | Mx | -.006 | 3 |
| 19 | MP3A | X | -19.477 | .71 |
| 20 | MP3A | Z | -11.245 | .71 |
| 21 | MP3A | Mx | .007 | .71 |
| 22 | MP3A | X | -19.477 | 4.71 |
| 23 | MP3A | Z | -11.245 | 4.71 |
| 24 | MP3A | Mx | .007 | 4.71 |
| 25 | MP3B | X | -25.329 | .71 |
| 26 | MP3B | Z | -14.624 | .71 |
| 27 | MP3B | Mx | .015 | .71 |
| 28 | MP3B | X | -25.329 | 4.71 |
| 29 | MP3B | Z | -14.624 | 4.71 |
| 30 | MP3B | Mx | .015 | 4.71 |
| 31 | MP3C | X | -19.477 | .71 |
| 32 | MP3C | Z | -11.245 | .71 |
| 33 | MP3C | Mx | -.022 | .71 |
| 34 | MP3C | X | -19.477 | 4.71 |
| 35 | MP3C | Z | -11.245 | 4.71 |
| 36 | MP3C | Mx | -.022 | 4.71 |
| 37 | MP3A | X | -19.477 | .71 |
| 38 | MP3A | Z | -11.245 | .71 |
| 39 | MP3A | Mx | .022 | .71 |
| 40 | MP3A | X | -19.477 | 4.71 |
| 41 | MP3A | Z | -11.245 | 4.71 |
| 42 | MP3A | Mx | .022 | 4.71 |
| 43 | MP3B | X | -25.329 | .71 |
| 44 | MP3B | Z | -14.624 | .71 |
| 45 | MP3B | Mx | -.023 | .71 |
| 46 | MP3B | X | -25.329 | 4.71 |
| 47 | MP3B | Z | -14.624 | 4.71 |
| 48 | MP3B | Mx | -.023 | 4.71 |
| 49 | MP3C | X | -19.477 | .71 |
| 50 | MP3C | Z | -11.245 | .71 |
| 51 | MP3C | Mx | -.007 | .71 |
| 52 | MP3C | X | -19.477 | 4.71 |
| 53 | MP3C | Z | -11.245 | 4.71 |
| 54 | MP3C | Mx | -.007 | 4.71 |
| 55 | MP2A | X | -17.686 | .8 |
| 56 | MP2A | Z | -10.211 | .8 |
| 57 | MP2A | Mx | .013 | .8 |
| 58 | MP2A | X | -17.686 | 4.8 |
| 59 | MP2A | Z | -10.211 | 4.8 |
| 60 | MP2A | Mx | .013 | 4.8 |
| 61 | MP2B | X | -22.836 | .8 |
| 62 | MP2B | Z | -13.184 | .8 |
| 63 | MP2B | Mx | -.003 | .8 |
| 64 | MP2B | X | -22.836 | 4.8 |
| 65 | MP2B | Z | -13.184 | 4.8 |
| 66 | MP2B | Mx | -.003 | 4.8 |
| 67 | MP2C | X | -17.686 | .8 |
| 68 | MP2C | Z | -10.211 | .8 |
| 69 | MP2C | Mx | -.013 | .8 |
| 70 | MP2C | X | -17.686 | 4.8 |
| 71 | MP2C | Z | -10.211 | 4.8 |
| 72 | MP2C | Mx | -.013 | 4.8 |
| 73 | MP4A | X | -2.78 | 2.08 |

## Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 74 | MP4A | Z | -1.605 | 2.08 |
| 75 | MP4A | Mx | .002 | 2.08 |
| 76 | MP4B | X | -5.783 | 2.08 |
| 77 | MP4B | Z | -3.339 | 2.08 |
| 78 | MP4B | Mx | -.00087 | 2.08 |
| 79 | MP4C | X | -2.78 | 2.08 |
| 80 | MP4C | Z | -1.605 | 2.08 |
| 81 | MP4C | Mx | -.002 | 2.08 |
| 82 | MP3A | X | -2.609 | 2.08 |
| 83 | MP3A | Z | -1.506 | 2.08 |
| 84 | MP3A | Mx | -.002 | 2.08 |
| 85 | MP3B | X | -2.609 | 2.08 |
| 86 | MP3B | Z | -1.506 | 2.08 |
| 87 | MP3B | Mx | -.002 | 2.08 |
| 88 | MP3C | X | -2.609 | 2.08 |
| 89 | MP3C | Z | -1.506 | 2.08 |
| 90 | MP3C | Mx | -.002 | 2.08 |
| 91 | OVP | X | -13.736 | 1 |
| 92 | OVP | Z | -7.93 | 1 |
| 93 | OVP | Mx | .004 | 1 |
| 94 | MP3A | X | -10.591 | 2.08 |
| 95 | MP3A | Z | -6.115 | 2.08 |
| 96 | MP3A | Mx | .002 | 2.08 |
| 97 | MP3B | X | -10.591 | 2.08 |
| 98 | MP3B | Z | -6.115 | 2.08 |
| 99 | MP3B | Mx | .002 | 2.08 |
| 100 | MP3C | X | -10.591 | 2.08 |
| 101 | MP3C | Z | -6.115 | 2.08 |
| 102 | MP3C | Mx | .002 | 2.08 |
| 103 | MP1A | X | -10.26 | 2.08 |
| 104 | MP1A | Z | -5.923 | 2.08 |
| 105 | MP1A | Mx | .002 | 2.08 |
| 106 | MP1B | X | -10.26 | 2.08 |
| 107 | MP1B | Z | -5.923 | 2.08 |
| 108 | MP1B | Mx | .002 | 2.08 |
| 109 | MP1C | X | -10.26 | 2.08 |
| 110 | MP1C | Z | -5.923 | 2.08 |
| 111 | MP1C | Mx | .002 | 2.08 |
| 112 | MP4C | X | -5.523 | 1 |
| 113 | MP4C | Z | -3.189 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -13.736 | 1 |
| 116 | OVP | Z | -7.93 | 1 |
| 117 | OVP | Mx | -.004 | 1 |

## Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -6.726 | 1 |
| 2 | MP1A | Z | -11.65 | 1 |
| 3 | MP1A | Mx | .005 | 1 |
| 4 | MP1A | X | -6.726 | 3 |
| 5 | MP1A | Z | -11.65 | 3 |
| 6 | MP1A | Mx | .005 | 3 |
| 7 | MP1B | X | -7.326 | 1 |
| 8 | MP1B | Z | -12.688 | 1 |
| 9 | MP1B | Mx | .004 | 1 |

## Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 10 | MP1B | X | -7.326 | 3 |
| 11 | MP1B | Z | -12.688 | 3 |
| 12 | MP1B | Mx | .004 | 3 |
| 13 | MP1C | X | -3.345 | 1 |
| 14 | MP1C | Z | -5.794 | 1 |
| 15 | MP1C | Mx | -.005 | 1 |
| 16 | MP1C | X | -3.345 | 3 |
| 17 | MP1C | Z | -5.794 | 3 |
| 18 | MP1C | Mx | -.005 | 3 |
| 19 | MP3A | X | -13.592 | .71 |
| 20 | MP3A | Z | -23.542 | .71 |
| 21 | MP3A | Mx | -.006 | .71 |
| 22 | MP3A | X | -13.592 | 4.71 |
| 23 | MP3A | Z | -23.542 | 4.71 |
| 24 | MP3A | Mx | -.006 | 4.71 |
| 25 | MP3B | X | -14.216 | .71 |
| 26 | MP3B | Z | -24.623 | .71 |
| 27 | MP3B | Mx | .025 | .71 |
| 28 | MP3B | X | -14.216 | 4.71 |
| 29 | MP3B | Z | -24.623 | 4.71 |
| 30 | MP3B | Mx | .025 | 4.71 |
| 31 | MP3C | X | -10.072 | .71 |
| 32 | MP3C | Z | -17.445 | .71 |
| 33 | MP3C | Mx | -.015 | .71 |
| 34 | MP3C | X | -10.072 | 4.71 |
| 35 | MP3C | Z | -17.445 | 4.71 |
| 36 | MP3C | Mx | -.015 | 4.71 |
| 37 | MP3A | X | -13.592 | .71 |
| 38 | MP3A | Z | -23.542 | .71 |
| 39 | MP3A | Mx | .026 | .71 |
| 40 | MP3A | X | -13.592 | 4.71 |
| 41 | MP3A | Z | -23.542 | 4.71 |
| 42 | MP3A | Mx | .026 | 4.71 |
| 43 | MP3B | X | -14.216 | .71 |
| 44 | MP3B | Z | -24.623 | .71 |
| 45 | MP3B | Mx | -.011 | .71 |
| 46 | MP3B | X | -14.216 | 4.71 |
| 47 | MP3B | Z | -24.623 | 4.71 |
| 48 | MP3B | Mx | -.011 | 4.71 |
| 49 | MP3C | X | -10.072 | .71 |
| 50 | MP3C | Z | -17.445 | .71 |
| 51 | MP3C | Mx | -.015 | .71 |
| 52 | MP3C | X | -10.072 | 4.71 |
| 53 | MP3C | Z | -17.445 | 4.71 |
| 54 | MP3C | Mx | -.015 | 4.71 |
| 55 | MP2A | X | -12.276 | .8 |
| 56 | MP2A | Z | -21.263 | .8 |
| 57 | MP2A | Mx | .009 | .8 |
| 58 | MP2A | X | -12.276 | 4.8 |
| 59 | MP2A | Z | -21.263 | 4.8 |
| 60 | MP2A | Mx | .009 | 4.8 |
| 61 | MP2B | X | -12.826 | .8 |
| 62 | MP2B | Z | -22.215 | .8 |
| 63 | MP2B | Mx | .007 | .8 |
| 64 | MP2B | X | -12.826 | 4.8 |
| 65 | MP2B | Z | -22.215 | 4.8 |
| 66 | MP2B | Mx | .007 | 4.8 |

## Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 67 | MP2C | X | -9.179 | .8 |
| 68 | MP2C | Z | -15.898 | .8 |
| 69 | MP2C | Mx | -.014 | .8 |
| 70 | MP2C | X | -9.179 | 4.8 |
| 71 | MP2C | Z | -15.898 | 4.8 |
| 72 | MP2C | Mx | -.014 | 4.8 |
| 73 | MP4A | X | -2.809 | 2.08 |
| 74 | MP4A | Z | -4.866 | 2.08 |
| 75 | MP4A | Mx | .002 | 2.08 |
| 76 | MP4B | X | -3.13 | 2.08 |
| 77 | MP4B | Z | -5.421 | 2.08 |
| 78 | MP4B | Mx | .002 | 2.08 |
| 79 | MP4C | X | -1.003 | 2.08 |
| 80 | MP4C | Z | -1.737 | 2.08 |
| 81 | MP4C | Mx | -.002 | 2.08 |
| 82 | MP3A | X | -1.606 | 2.08 |
| 83 | MP3A | Z | -2.783 | 2.08 |
| 84 | MP3A | Mx | -.002 | 2.08 |
| 85 | MP3B | X | -1.606 | 2.08 |
| 86 | MP3B | Z | -2.783 | 2.08 |
| 87 | MP3B | Mx | -.002 | 2.08 |
| 88 | MP3C | X | -1.606 | 2.08 |
| 89 | MP3C | Z | -2.783 | 2.08 |
| 90 | MP3C | Mx | -.002 | 2.08 |
| 91 | OVP | X | -8.623 | 1 |
| 92 | OVP | Z | -14.936 | 1 |
| 93 | OVP | Mx | 0 | 1 |
| 94 | MP3A | X | -6.619 | 2.08 |
| 95 | MP3A | Z | -11.464 | 2.08 |
| 96 | MP3A | Mx | .007 | 2.08 |
| 97 | MP3B | X | -6.619 | 2.08 |
| 98 | MP3B | Z | -11.464 | 2.08 |
| 99 | MP3B | Mx | .007 | 2.08 |
| 100 | MP3C | X | -6.619 | 2.08 |
| 101 | MP3C | Z | -11.464 | 2.08 |
| 102 | MP3C | Mx | .007 | 2.08 |
| 103 | MP1A | X | -6.619 | 2.08 |
| 104 | MP1A | Z | -11.464 | 2.08 |
| 105 | MP1A | Mx | .007 | 2.08 |
| 106 | MP1B | X | -6.619 | 2.08 |
| 107 | MP1B | Z | -11.464 | 2.08 |
| 108 | MP1B | Mx | .007 | 2.08 |
| 109 | MP1C | X | -6.619 | 2.08 |
| 110 | MP1C | Z | -11.464 | 2.08 |
| 111 | MP1C | Mx | .007 | 2.08 |
| 112 | MP4C | X | -3.436 | 1 |
| 113 | MP4C | Z | -5.951 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -8.623 | 1 |
| 116 | OVP | Z | -14.936 | 1 |
| 117 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 0 | 1 |
| 2 | MP1A | Z | -5.005 | 1 |

## Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 3 | MP1A | Mx | 0 | 1 |
| 4 | MP1A | X | 0 | 3 |
| 5 | MP1A | Z | -5.005 | 3 |
| 6 | MP1A | Mx | 0 | 3 |
| 7 | MP1B | X | 0 | 1 |
| 8 | MP1B | Z | -3.218 | 1 |
| 9 | MP1B | Mx | .002 | 1 |
| 10 | MP1B | X | 0 | 3 |
| 11 | MP1B | Z | -3.218 | 3 |
| 12 | MP1B | Mx | .002 | 3 |
| 13 | MP1C | X | 0 | 1 |
| 14 | MP1C | Z | -2.721 | 1 |
| 15 | MP1C | Mx | -.002 | 1 |
| 16 | MP1C | X | 0 | 3 |
| 17 | MP1C | Z | -2.721 | 3 |
| 18 | MP1C | Mx | -.002 | 3 |
| 19 | MP3A | X | 0 | .71 |
| 20 | MP3A | Z | -9.701 | .71 |
| 21 | MP3A | Mx | -.006 | .71 |
| 22 | MP3A | X | 0 | 4.71 |
| 23 | MP3A | Z | -9.701 | 4.71 |
| 24 | MP3A | Mx | -.006 | 4.71 |
| 25 | MP3B | X | 0 | .71 |
| 26 | MP3B | Z | -7.748 | .71 |
| 27 | MP3B | Mx | .008 | .71 |
| 28 | MP3B | X | 0 | 4.71 |
| 29 | MP3B | Z | -7.748 | 4.71 |
| 30 | MP3B | Mx | .008 | 4.71 |
| 31 | MP3C | X | 0 | .71 |
| 32 | MP3C | Z | -7.204 | .71 |
| 33 | MP3C | Mx | -.002 | .71 |
| 34 | MP3C | X | 0 | 4.71 |
| 35 | MP3C | Z | -7.204 | 4.71 |
| 36 | MP3C | Mx | -.002 | 4.71 |
| 37 | MP3A | X | 0 | .71 |
| 38 | MP3A | Z | -9.701 | .71 |
| 39 | MP3A | Mx | .006 | .71 |
| 40 | MP3A | X | 0 | 4.71 |
| 41 | MP3A | Z | -9.701 | 4.71 |
| 42 | MP3A | Mx | .006 | 4.71 |
| 43 | MP3B | X | 0 | .71 |
| 44 | MP3B | Z | -7.748 | .71 |
| 45 | MP3B | Mx | .001 | .71 |
| 46 | MP3B | X | 0 | 4.71 |
| 47 | MP3B | Z | -7.748 | 4.71 |
| 48 | MP3B | Mx | .001 | 4.71 |
| 49 | MP3C | X | 0 | .71 |
| 50 | MP3C | Z | -7.204 | .71 |
| 51 | MP3C | Mx | -.007 | .71 |
| 52 | MP3C | X | 0 | 4.71 |
| 53 | MP3C | Z | -7.204 | 4.71 |
| 54 | MP3C | Mx | -.007 | 4.71 |
| 55 | MP2A | X | 0 | .8 |
| 56 | MP2A | Z | -8.69 | .8 |
| 57 | MP2A | Mx | 0 | .8 |
| 58 | MP2A | X | 0 | 4.8 |
| 59 | MP2A | Z | -8.69 | 4.8 |

## Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 60 | MP2A | Mx | 0 | 4.8 |
| 61 | MP2B | X | 0 | .8 |
| 62 | MP2B | Z | -6.963 | .8 |
| 63 | MP2B | Mx | .004 | .8 |
| 64 | MP2B | X | 0 | 4.8 |
| 65 | MP2B | Z | -6.963 | 4.8 |
| 66 | MP2B | Mx | .004 | 4.8 |
| 67 | MP2C | X | 0 | .8 |
| 68 | MP2C | Z | -6.482 | .8 |
| 69 | MP2C | Mx | -.004 | .8 |
| 70 | MP2C | X | 0 | 4.8 |
| 71 | MP2C | Z | -6.482 | 4.8 |
| 72 | MP2C | Mx | -.004 | 4.8 |
| 73 | MP4A | X | 0 | 2.08 |
| 74 | MP4A | Z | -1.896 | 2.08 |
| 75 | MP4A | Mx | 0 | 2.08 |
| 76 | MP4B | X | 0 | 2.08 |
| 77 | MP4B | Z | -1.001 | 2.08 |
| 78 | MP4B | Mx | .000575 | 2.08 |
| 79 | MP4C | X | 0 | 2.08 |
| 80 | MP4C | Z | -.753 | 2.08 |
| 81 | MP4C | Mx | -.000489 | 2.08 |
| 82 | MP3A | X | 0 | 2.08 |
| 83 | MP3A | Z | -.727 | 2.08 |
| 84 | MP3A | Mx | -.000133 | 2.08 |
| 85 | MP3B | X | 0 | 2.08 |
| 86 | MP3B | Z | -.727 | 2.08 |
| 87 | MP3B | Mx | -.000133 | 2.08 |
| 88 | MP3C | X | 0 | 2.08 |
| 89 | MP3C | Z | -.727 | 2.08 |
| 90 | MP3C | Mx | -.000133 | 2.08 |
| 91 | OVP | X | 0 | 1 |
| 92 | OVP | Z | -4.858 | 1 |
| 93 | OVP | Mx | -.001 | 1 |
| 94 | MP3A | X | 0 | 2.08 |
| 95 | MP3A | Z | -3.653 | 2.08 |
| 96 | MP3A | Mx | .002 | 2.08 |
| 97 | MP3B | X | 0 | 2.08 |
| 98 | MP3B | Z | -3.653 | 2.08 |
| 99 | MP3B | Mx | .002 | 2.08 |
| 100 | MP3C | X | 0 | 2.08 |
| 101 | MP3C | Z | -3.653 | 2.08 |
| 102 | MP3C | Mx | .002 | 2.08 |
| 103 | MP1A | X | 0 | 2.08 |
| 104 | MP1A | Z | -3.526 | 2.08 |
| 105 | MP1A | Mx | .002 | 2.08 |
| 106 | MP1B | X | 0 | 2.08 |
| 107 | MP1B | Z | -3.526 | 2.08 |
| 108 | MP1B | Mx | .002 | 2.08 |
| 109 | MP1C | X | 0 | 2.08 |
| 110 | MP1C | Z | -3.526 | 2.08 |
| 111 | MP1C | Mx | .002 | 2.08 |
| 112 | MP4C | X | 0 | 1 |
| 113 | MP4C | Z | -1.917 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 0 | 1 |
| 116 | OVP | Z | -4.858 | 1 |

## Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 117 | OVP | Mx | .001 | 1 |

## Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 2.122 | 1 |
| 2 | MP1A | Z | -3.675 | 1 |
| 3 | MP1A | Mx | -.002 | 1 |
| 4 | MP1A | X | 2.122 | 3 |
| 5 | MP1A | Z | -3.675 | 3 |
| 6 | MP1A | Mx | -.002 | 3 |
| 7 | MP1B | X | 1.026 | 1 |
| 8 | MP1B | Z | -1.777 | 1 |
| 9 | MP1B | Mx | .002 | 1 |
| 10 | MP1B | X | 1.026 | 3 |
| 11 | MP1B | Z | -1.777 | 3 |
| 12 | MP1B | Mx | .002 | 3 |
| 13 | MP1C | X | 2.122 | 1 |
| 14 | MP1C | Z | -3.675 | 1 |
| 15 | MP1C | Mx | -.002 | 1 |
| 16 | MP1C | X | 2.122 | 3 |
| 17 | MP1C | Z | -3.675 | 3 |
| 18 | MP1C | Mx | -.002 | 3 |
| 19 | MP3A | X | 4.435 | .71 |
| 20 | MP3A | Z | -7.681 | .71 |
| 21 | MP3A | Mx | -.008 | .71 |
| 22 | MP3A | X | 4.435 | 4.71 |
| 23 | MP3A | Z | -7.681 | 4.71 |
| 24 | MP3A | Mx | -.008 | 4.71 |
| 25 | MP3B | X | 3.236 | .71 |
| 26 | MP3B | Z | -5.605 | .71 |
| 27 | MP3B | Mx | .006 | .71 |
| 28 | MP3B | X | 3.236 | 4.71 |
| 29 | MP3B | Z | -5.605 | 4.71 |
| 30 | MP3B | Mx | .006 | 4.71 |
| 31 | MP3C | X | 4.435 | .71 |
| 32 | MP3C | Z | -7.681 | .71 |
| 33 | MP3C | Mx | .002 | .71 |
| 34 | MP3C | X | 4.435 | 4.71 |
| 35 | MP3C | Z | -7.681 | 4.71 |
| 36 | MP3C | Mx | .002 | 4.71 |
| 37 | MP3A | X | 4.435 | .71 |
| 38 | MP3A | Z | -7.681 | .71 |
| 39 | MP3A | Mx | .002 | .71 |
| 40 | MP3A | X | 4.435 | 4.71 |
| 41 | MP3A | Z | -7.681 | 4.71 |
| 42 | MP3A | Mx | .002 | 4.71 |
| 43 | MP3B | X | 3.236 | .71 |
| 44 | MP3B | Z | -5.605 | .71 |
| 45 | MP3B | Mx | .004 | .71 |
| 46 | MP3B | X | 3.236 | 4.71 |
| 47 | MP3B | Z | -5.605 | 4.71 |
| 48 | MP3B | Mx | .004 | 4.71 |
| 49 | MP3C | X | 4.435 | .71 |
| 50 | MP3C | Z | -7.681 | .71 |
| 51 | MP3C | Mx | -.008 | .71 |
| 52 | MP3C | X | 4.435 | 4.71 |

## Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 53 | MP3C | Z | -7.681 | 4.71 |
| 54 | MP3C | Mx | -.008 | 4.71 |
| 55 | MP2A | X | 3.977 | .8 |
| 56 | MP2A | Z | -6.888 | .8 |
| 57 | MP2A | Mx | -.003 | .8 |
| 58 | MP2A | X | 3.977 | 4.8 |
| 59 | MP2A | Z | -6.888 | 4.8 |
| 60 | MP2A | Mx | -.003 | 4.8 |
| 61 | MP2B | X | 2.918 | .8 |
| 62 | MP2B | Z | -5.054 | .8 |
| 63 | MP2B | Mx | .004 | .8 |
| 64 | MP2B | X | 2.918 | 4.8 |
| 65 | MP2B | Z | -5.054 | 4.8 |
| 66 | MP2B | Mx | .004 | 4.8 |
| 67 | MP2C | X | 3.977 | .8 |
| 68 | MP2C | Z | -6.888 | .8 |
| 69 | MP2C | Mx | -.003 | .8 |
| 70 | MP2C | X | 3.977 | 4.8 |
| 71 | MP2C | Z | -6.888 | 4.8 |
| 72 | MP2C | Mx | -.003 | 4.8 |
| 73 | MP4A | X | .757 | 2.08 |
| 74 | MP4A | Z | -1.312 | 2.08 |
| 75 | MP4A | Mx | -.000568 | 2.08 |
| 76 | MP4B | X | .209 | 2.08 |
| 77 | MP4B | Z | -.362 | 2.08 |
| 78 | MP4B | Mx | .000309 | 2.08 |
| 79 | MP4C | X | .757 | 2.08 |
| 80 | MP4C | Z | -1.312 | 2.08 |
| 81 | MP4C | Mx | -.000568 | 2.08 |
| 82 | MP3A | X | .303 | 2.08 |
| 83 | MP3A | Z | -.525 | 2.08 |
| 84 | MP3A | Mx | .000111 | 2.08 |
| 85 | MP3B | X | .303 | 2.08 |
| 86 | MP3B | Z | -.525 | 2.08 |
| 87 | MP3B | Mx | .000111 | 2.08 |
| 88 | MP3C | X | .303 | 2.08 |
| 89 | MP3C | Z | -.525 | 2.08 |
| 90 | MP3C | Mx | .000111 | 2.08 |
| 91 | OVP | X | 1.962 | 1 |
| 92 | OVP | Z | -3.399 | 1 |
| 93 | OVP | Mx | -.002 | 1 |
| 94 | MP3A | X | 1.496 | 2.08 |
| 95 | MP3A | Z | -2.592 | 2.08 |
| 96 | MP3A | Mx | .002 | 2.08 |
| 97 | MP3B | X | 1.496 | 2.08 |
| 98 | MP3B | Z | -2.592 | 2.08 |
| 99 | MP3B | Mx | .002 | 2.08 |
| 100 | MP3C | X | 1.496 | 2.08 |
| 101 | MP3C | Z | -2.592 | 2.08 |
| 102 | MP3C | Mx | .002 | 2.08 |
| 103 | MP1A | X | 1.307 | 2.08 |
| 104 | MP1A | Z | -2.263 | 2.08 |
| 105 | MP1A | Mx | .002 | 2.08 |
| 106 | MP1B | X | 1.307 | 2.08 |
| 107 | MP1B | Z | -2.263 | 2.08 |
| 108 | MP1B | Mx | .002 | 2.08 |
| 109 | MP1C | X | 1.307 | 2.08 |

## Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 110 | MP1C | Z | -2.263 | 2.08 |
| 111 | MP1C | Mx | .002 | 2.08 |
| 112 | MP4C | X | .745 | 1 |
| 113 | MP4C | Z | -1.291 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 1.962 | 1 |
| 116 | OVP | Z | -3.399 | 1 |
| 117 | OVP | Mx | .002 | 1 |

## Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 2.356 | 1 |
| 2 | MP1A | Z | -1.36 | 1 |
| 3 | MP1A | Mx | -.002 | 1 |
| 4 | MP1A | X | 2.356 | 3 |
| 5 | MP1A | Z | -1.36 | 3 |
| 6 | MP1A | Mx | -.002 | 3 |
| 7 | MP1B | X | 2.006 | 1 |
| 8 | MP1B | Z | -1.158 | 1 |
| 9 | MP1B | Mx | .002 | 1 |
| 10 | MP1B | X | 2.006 | 3 |
| 11 | MP1B | Z | -1.158 | 3 |
| 12 | MP1B | Mx | .002 | 3 |
| 13 | MP1C | X | 4.335 | 1 |
| 14 | MP1C | Z | -2.503 | 1 |
| 15 | MP1C | Mx | 0 | 1 |
| 16 | MP1C | X | 4.335 | 3 |
| 17 | MP1C | Z | -2.503 | 3 |
| 18 | MP1C | Mx | 0 | 3 |
| 19 | MP3A | X | 6.239 | .71 |
| 20 | MP3A | Z | -3.602 | .71 |
| 21 | MP3A | Mx | -.007 | .71 |
| 22 | MP3A | X | 6.239 | 4.71 |
| 23 | MP3A | Z | -3.602 | 4.71 |
| 24 | MP3A | Mx | -.007 | 4.71 |
| 25 | MP3B | X | 5.855 | .71 |
| 26 | MP3B | Z | -3.381 | .71 |
| 27 | MP3B | Mx | .003 | .71 |
| 28 | MP3B | X | 5.855 | 4.71 |
| 29 | MP3B | Z | -3.381 | 4.71 |
| 30 | MP3B | Mx | .003 | 4.71 |
| 31 | MP3C | X | 8.402 | .71 |
| 32 | MP3C | Z | -4.851 | .71 |
| 33 | MP3C | Mx | .006 | .71 |
| 34 | MP3C | X | 8.402 | 4.71 |
| 35 | MP3C | Z | -4.851 | 4.71 |
| 36 | MP3C | Mx | .006 | 4.71 |
| 37 | MP3A | X | 6.239 | .71 |
| 38 | MP3A | Z | -3.602 | .71 |
| 39 | MP3A | Mx | -.002 | .71 |
| 40 | MP3A | X | 6.239 | 4.71 |
| 41 | MP3A | Z | -3.602 | 4.71 |
| 42 | MP3A | Mx | -.002 | 4.71 |
| 43 | MP3B | X | 5.855 | .71 |
| 44 | MP3B | Z | -3.381 | .71 |
| 45 | MP3B | Mx | .006 | .71 |

## Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 46 | MP3B | X | 5.855 | 4.71 |
| 47 | MP3B | Z | -3.381 | 4.71 |
| 48 | MP3B | Mx | .006 | 4.71 |
| 49 | MP3C | X | 8.402 | .71 |
| 50 | MP3C | Z | -4.851 | .71 |
| 51 | MP3C | Mx | -.006 | .71 |
| 52 | MP3C | X | 8.402 | 4.71 |
| 53 | MP3C | Z | -4.851 | 4.71 |
| 54 | MP3C | Mx | -.006 | 4.71 |
| 55 | MP2A | X | 5.614 | .8 |
| 56 | MP2A | Z | -3.241 | .8 |
| 57 | MP2A | Mx | -.004 | .8 |
| 58 | MP2A | X | 5.614 | 4.8 |
| 59 | MP2A | Z | -3.241 | 4.8 |
| 60 | MP2A | Mx | -.004 | 4.8 |
| 61 | MP2B | X | 5.275 | .8 |
| 62 | MP2B | Z | -3.045 | .8 |
| 63 | MP2B | Mx | .004 | .8 |
| 64 | MP2B | X | 5.275 | 4.8 |
| 65 | MP2B | Z | -3.045 | 4.8 |
| 66 | MP2B | Mx | .004 | 4.8 |
| 67 | MP2C | X | 7.526 | .8 |
| 68 | MP2C | Z | -4.345 | .8 |
| 69 | MP2C | Mx | 0 | .8 |
| 70 | MP2C | X | 7.526 | 4.8 |
| 71 | MP2C | Z | -4.345 | 4.8 |
| 72 | MP2C | Mx | 0 | 4.8 |
| 73 | MP4A | X | .652 | 2.08 |
| 74 | MP4A | Z | -.376 | 2.08 |
| 75 | MP4A | Mx | -.000489 | 2.08 |
| 76 | MP4B | X | .476 | 2.08 |
| 77 | MP4B | Z | -.275 | 2.08 |
| 78 | MP4B | Mx | .000387 | 2.08 |
| 79 | MP4C | X | 1.642 | 2.08 |
| 80 | MP4C | Z | -.948 | 2.08 |
| 81 | MP4C | Mx | 0 | 2.08 |
| 82 | MP3A | X | .472 | 2.08 |
| 83 | MP3A | Z | -.273 | 2.08 |
| 84 | MP3A | Mx | .000272 | 2.08 |
| 85 | MP3B | X | .472 | 2.08 |
| 86 | MP3B | Z | -.273 | 2.08 |
| 87 | MP3B | Mx | .000272 | 2.08 |
| 88 | MP3C | X | .472 | 2.08 |
| 89 | MP3C | Z | -.273 | 2.08 |
| 90 | MP3C | Mx | .000272 | 2.08 |
| 91 | OVP | X | 2.995 | 1 |
| 92 | OVP | Z | -1.729 | 1 |
| 93 | OVP | Mx | -.002 | 1 |
| 94 | MP3A | X | 2.306 | 2.08 |
| 95 | MP3A | Z | -1.331 | 2.08 |
| 96 | MP3A | Mx | .001 | 2.08 |
| 97 | MP3B | X | 2.306 | 2.08 |
| 98 | MP3B | Z | -1.331 | 2.08 |
| 99 | MP3B | Mx | .001 | 2.08 |
| 100 | MP3C | X | 2.306 | 2.08 |
| 101 | MP3C | Z | -1.331 | 2.08 |
| 102 | MP3C | Mx | .001 | 2.08 |

## Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 103 | MP1A | X | 1.868 | 2.08 |
| 104 | MP1A | Z | -1.078 | 2.08 |
| 105 | MP1A | Mx | .001 | 2.08 |
| 106 | MP1B | X | 1.868 | 2.08 |
| 107 | MP1B | Z | -1.078 | 2.08 |
| 108 | MP1B | Mx | .001 | 2.08 |
| 109 | MP1C | X | 1.868 | 2.08 |
| 110 | MP1C | Z | -1.078 | 2.08 |
| 111 | MP1C | Mx | .001 | 2.08 |
| 112 | MP4C | X | 1.107 | 1 |
| 113 | MP4C | Z | -.639 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 2.995 | 1 |
| 116 | OVP | Z | -1.729 | 1 |
| 117 | OVP | Mx | .002 | 1 |

## Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 1.96 | 1 |
| 2 | MP1A | Z | 0 | 1 |
| 3 | MP1A | Mx | -.001 | 1 |
| 4 | MP1A | X | 1.96 | 3 |
| 5 | MP1A | Z | 0 | 3 |
| 6 | MP1A | Mx | -.001 | 3 |
| 7 | MP1B | X | 3.747 | 1 |
| 8 | MP1B | Z | 0 | 1 |
| 9 | MP1B | Mx | .002 | 1 |
| 10 | MP1B | X | 3.747 | 3 |
| 11 | MP1B | Z | 0 | 3 |
| 12 | MP1B | Mx | .002 | 3 |
| 13 | MP1C | X | 4.244 | 1 |
| 14 | MP1C | Z | 0 | 1 |
| 15 | MP1C | Mx | .002 | 1 |
| 16 | MP1C | X | 4.244 | 3 |
| 17 | MP1C | Z | 0 | 3 |
| 18 | MP1C | Mx | .002 | 3 |
| 19 | MP3A | X | 6.372 | .71 |
| 20 | MP3A | Z | 0 | .71 |
| 21 | MP3A | Mx | -.005 | .71 |
| 22 | MP3A | X | 6.372 | 4.71 |
| 23 | MP3A | Z | 0 | 4.71 |
| 24 | MP3A | Mx | -.005 | 4.71 |
| 25 | MP3B | X | 8.326 | .71 |
| 26 | MP3B | Z | 0 | .71 |
| 27 | MP3B | Mx | -.000238 | .71 |
| 28 | MP3B | X | 8.326 | 4.71 |
| 29 | MP3B | Z | 0 | 4.71 |
| 30 | MP3B | Mx | -.000238 | 4.71 |
| 31 | MP3C | X | 8.869 | .71 |
| 32 | MP3C | Z | 0 | .71 |
| 33 | MP3C | Mx | .008 | .71 |
| 34 | MP3C | X | 8.869 | 4.71 |
| 35 | MP3C | Z | 0 | 4.71 |
| 36 | MP3C | Mx | .008 | 4.71 |
| 37 | MP3A | X | 6.372 | .71 |
| 38 | MP3A | Z | 0 | .71 |

## Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 39 | MP3A | Mx | -.005 | .71 |
| 40 | MP3A | X | 6.372 | 4.71 |
| 41 | MP3A | Z | 0 | 4.71 |
| 42 | MP3A | Mx | -.005 | 4.71 |
| 43 | MP3B | X | 8.326 | .71 |
| 44 | MP3B | Z | 0 | .71 |
| 45 | MP3B | Mx | .008 | .71 |
| 46 | MP3B | X | 8.326 | 4.71 |
| 47 | MP3B | Z | 0 | 4.71 |
| 48 | MP3B | Mx | .008 | 4.71 |
| 49 | MP3C | X | 8.869 | .71 |
| 50 | MP3C | Z | 0 | .71 |
| 51 | MP3C | Mx | -.002 | .71 |
| 52 | MP3C | X | 8.869 | 4.71 |
| 53 | MP3C | Z | 0 | 4.71 |
| 54 | MP3C | Mx | -.002 | 4.71 |
| 55 | MP2A | X | 5.747 | .8 |
| 56 | MP2A | Z | 0 | .8 |
| 57 | MP2A | Mx | -.004 | .8 |
| 58 | MP2A | X | 5.747 | 4.8 |
| 59 | MP2A | Z | 0 | 4.8 |
| 60 | MP2A | Mx | -.004 | 4.8 |
| 61 | MP2B | X | 7.474 | .8 |
| 62 | MP2B | Z | 0 | .8 |
| 63 | MP2B | Mx | .004 | .8 |
| 64 | MP2B | X | 7.474 | 4.8 |
| 65 | MP2B | Z | 0 | 4.8 |
| 66 | MP2B | Mx | .004 | 4.8 |
| 67 | MP2C | X | 7.954 | .8 |
| 68 | MP2C | Z | 0 | .8 |
| 69 | MP2C | Mx | .003 | .8 |
| 70 | MP2C | X | 7.954 | 4.8 |
| 71 | MP2C | Z | 0 | 4.8 |
| 72 | MP2C | Mx | .003 | 4.8 |
| 73 | MP4A | X | .372 | 2.08 |
| 74 | MP4A | Z | 0 | 2.08 |
| 75 | MP4A | Mx | -.000279 | 2.08 |
| 76 | MP4B | X | 1.266 | 2.08 |
| 77 | MP4B | Z | 0 | 2.08 |
| 78 | MP4B | Mx | .00061 | 2.08 |
| 79 | MP4C | X | 1.515 | 2.08 |
| 80 | MP4C | Z | 0 | 2.08 |
| 81 | MP4C | Mx | .000568 | 2.08 |
| 82 | MP3A | X | .606 | 2.08 |
| 83 | MP3A | Z | 0 | 2.08 |
| 84 | MP3A | Mx | .000414 | 2.08 |
| 85 | MP3B | X | .606 | 2.08 |
| 86 | MP3B | Z | 0 | 2.08 |
| 87 | MP3B | Mx | .000414 | 2.08 |
| 88 | MP3C | X | .606 | 2.08 |
| 89 | MP3C | Z | 0 | 2.08 |
| 90 | MP3C | Mx | .000414 | 2.08 |
| 91 | OVP | X | 3.925 | 1 |
| 92 | OVP | Z | 0 | 1 |
| 93 | OVP | Mx | -.002 | 1 |
| 94 | MP3A | X | 2.992 | 2.08 |
| 95 | MP3A | Z | 0 | 2.08 |

## Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 96 | MP3A | Mx | .000548 | 2.08 |
| 97 | MP3B | X | 2.992 | 2.08 |
| 98 | MP3B | Z | 0 | 2.08 |
| 99 | MP3B | Mx | .000548 | 2.08 |
| 100 | MP3C | X | 2.992 | 2.08 |
| 101 | MP3C | Z | 0 | 2.08 |
| 102 | MP3C | Mx | .000548 | 2.08 |
| 103 | MP1A | X | 2.613 | 2.08 |
| 104 | MP1A | Z | 0 | 2.08 |
| 105 | MP1A | Mx | .000478 | 2.08 |
| 106 | MP1B | X | 2.613 | 2.08 |
| 107 | MP1B | Z | 0 | 2.08 |
| 108 | MP1B | Mx | .000478 | 2.08 |
| 109 | MP1C | X | 2.613 | 2.08 |
| 110 | MP1C | Z | 0 | 2.08 |
| 111 | MP1C | Mx | .000478 | 2.08 |
| 112 | MP4C | X | 1.491 | 1 |
| 113 | MP4C | Z | 0 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 3.925 | 1 |
| 116 | OVP | Z | 0 | 1 |
| 117 | OVP | Mx | .002 | 1 |

## Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 2.356 | 1 |
| 2 | MP1A | Z | 1.36 | 1 |
| 3 | MP1A | Mx | -.002 | 1 |
| 4 | MP1A | X | 2.356 | 3 |
| 5 | MP1A | Z | 1.36 | 3 |
| 6 | MP1A | Mx | -.002 | 3 |
| 7 | MP1B | X | 4.255 | 1 |
| 8 | MP1B | Z | 2.457 | 1 |
| 9 | MP1B | Mx | .00064 | 1 |
| 10 | MP1B | X | 4.255 | 3 |
| 11 | MP1B | Z | 2.457 | 3 |
| 12 | MP1B | Mx | .00064 | 3 |
| 13 | MP1C | X | 2.356 | 1 |
| 14 | MP1C | Z | 1.36 | 1 |
| 15 | MP1C | Mx | .002 | 1 |
| 16 | MP1C | X | 2.356 | 3 |
| 17 | MP1C | Z | 1.36 | 3 |
| 18 | MP1C | Mx | .002 | 3 |
| 19 | MP3A | X | 6.239 | .71 |
| 20 | MP3A | Z | 3.602 | .71 |
| 21 | MP3A | Mx | -.002 | .71 |
| 22 | MP3A | X | 6.239 | 4.71 |
| 23 | MP3A | Z | 3.602 | 4.71 |
| 24 | MP3A | Mx | -.002 | 4.71 |
| 25 | MP3B | X | 8.315 | .71 |
| 26 | MP3B | Z | 4.801 | .71 |
| 27 | MP3B | Mx | -.005 | .71 |
| 28 | MP3B | X | 8.315 | 4.71 |
| 29 | MP3B | Z | 4.801 | 4.71 |
| 30 | MP3B | Mx | -.005 | 4.71 |
| 31 | MP3C | X | 6.239 | .71 |

## Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 32 | MP3C | Z | 3.602 | .71 |
| 33 | MP3C | Mx | .007 | .71 |
| 34 | MP3C | X | 6.239 | 4.71 |
| 35 | MP3C | Z | 3.602 | 4.71 |
| 36 | MP3C | Mx | .007 | 4.71 |
| 37 | MP3A | X | 6.239 | .71 |
| 38 | MP3A | Z | 3.602 | .71 |
| 39 | MP3A | Mx | -.007 | .71 |
| 40 | MP3A | X | 6.239 | 4.71 |
| 41 | MP3A | Z | 3.602 | 4.71 |
| 42 | MP3A | Mx | -.007 | 4.71 |
| 43 | MP3B | X | 8.315 | .71 |
| 44 | MP3B | Z | 4.801 | .71 |
| 45 | MP3B | Mx | .008 | .71 |
| 46 | MP3B | X | 8.315 | 4.71 |
| 47 | MP3B | Z | 4.801 | 4.71 |
| 48 | MP3B | Mx | .008 | 4.71 |
| 49 | MP3C | X | 6.239 | .71 |
| 50 | MP3C | Z | 3.602 | .71 |
| 51 | MP3C | Mx | .002 | .71 |
| 52 | MP3C | X | 6.239 | 4.71 |
| 53 | MP3C | Z | 3.602 | 4.71 |
| 54 | MP3C | Mx | .002 | 4.71 |
| 55 | MP2A | X | 5.614 | .8 |
| 56 | MP2A | Z | 3.241 | .8 |
| 57 | MP2A | Mx | -.004 | .8 |
| 58 | MP2A | X | 5.614 | 4.8 |
| 59 | MP2A | Z | 3.241 | 4.8 |
| 60 | MP2A | Mx | -.004 | 4.8 |
| 61 | MP2B | X | 7.449 | .8 |
| 62 | MP2B | Z | 4.301 | .8 |
| 63 | MP2B | Mx | .001 | .8 |
| 64 | MP2B | X | 7.449 | 4.8 |
| 65 | MP2B | Z | 4.301 | 4.8 |
| 66 | MP2B | Mx | .001 | 4.8 |
| 67 | MP2C | X | 5.614 | .8 |
| 68 | MP2C | Z | 3.241 | .8 |
| 69 | MP2C | Mx | .004 | .8 |
| 70 | MP2C | X | 5.614 | 4.8 |
| 71 | MP2C | Z | 3.241 | 4.8 |
| 72 | MP2C | Mx | .004 | 4.8 |
| 73 | MP4A | X | .652 | 2.08 |
| 74 | MP4A | Z | .376 | 2.08 |
| 75 | MP4A | Mx | -.000489 | 2.08 |
| 76 | MP4B | X | 1.602 | 2.08 |
| 77 | MP4B | Z | .925 | 2.08 |
| 78 | MP4B | Mx | .000241 | 2.08 |
| 79 | MP4C | X | .652 | 2.08 |
| 80 | MP4C | Z | .376 | 2.08 |
| 81 | MP4C | Mx | .000489 | 2.08 |
| 82 | MP3A | X | .63 | 2.08 |
| 83 | MP3A | Z | .364 | 2.08 |
| 84 | MP3A | Mx | .000497 | 2.08 |
| 85 | MP3B | X | .63 | 2.08 |
| 86 | MP3B | Z | .364 | 2.08 |
| 87 | MP3B | Mx | .000497 | 2.08 |
| 88 | MP3C | X | .63 | 2.08 |

## Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 89 | MP3C | Z | .364 | 2.08 |
| 90 | MP3C | Mx | .000497 | 2.08 |
| 91 | OVP | X | 4.207 | 1 |
| 92 | OVP | Z | 2.429 | 1 |
| 93 | OVP | Mx | -.001 | 1 |
| 94 | MP3A | X | 3.163 | 2.08 |
| 95 | MP3A | Z | 1.826 | 2.08 |
| 96 | MP3A | Mx | -.000668 | 2.08 |
| 97 | MP3B | X | 3.163 | 2.08 |
| 98 | MP3B | Z | 1.826 | 2.08 |
| 99 | MP3B | Mx | -.000668 | 2.08 |
| 100 | MP3C | X | 3.163 | 2.08 |
| 101 | MP3C | Z | 1.826 | 2.08 |
| 102 | MP3C | Mx | -.000668 | 2.08 |
| 103 | MP1A | X | 3.054 | 2.08 |
| 104 | MP1A | Z | 1.763 | 2.08 |
| 105 | MP1A | Mx | -.000645 | 2.08 |
| 106 | MP1B | X | 3.054 | 2.08 |
| 107 | MP1B | Z | 1.763 | 2.08 |
| 108 | MP1B | Mx | -.000645 | 2.08 |
| 109 | MP1C | X | 3.054 | 2.08 |
| 110 | MP1C | Z | 1.763 | 2.08 |
| 111 | MP1C | Mx | -.000645 | 2.08 |
| 112 | MP4C | X | 1.66 | 1 |
| 113 | MP4C | Z | .958 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 4.207 | 1 |
| 116 | OVP | Z | 2.429 | 1 |
| 117 | OVP | Mx | .001 | 1 |

## Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 2.122 | 1 |
| 2 | MP1A | Z | 3.675 | 1 |
| 3 | MP1A | Mx | -.002 | 1 |
| 4 | MP1A | X | 2.122 | 3 |
| 5 | MP1A | Z | 3.675 | 3 |
| 6 | MP1A | Mx | -.002 | 3 |
| 7 | MP1B | X | 2.324 | 1 |
| 8 | MP1B | Z | 4.026 | 1 |
| 9 | MP1B | Mx | -.001 | 1 |
| 10 | MP1B | X | 2.324 | 3 |
| 11 | MP1B | Z | 4.026 | 3 |
| 12 | MP1B | Mx | -.001 | 3 |
| 13 | MP1C | X | .98 | 1 |
| 14 | MP1C | Z | 1.697 | 1 |
| 15 | MP1C | Mx | .001 | 1 |
| 16 | MP1C | X | .98 | 3 |
| 17 | MP1C | Z | 1.697 | 3 |
| 18 | MP1C | Mx | .001 | 3 |
| 19 | MP3A | X | 4.435 | .71 |
| 20 | MP3A | Z | 7.681 | .71 |
| 21 | MP3A | Mx | .002 | .71 |
| 22 | MP3A | X | 4.435 | 4.71 |
| 23 | MP3A | Z | 7.681 | 4.71 |
| 24 | MP3A | Mx | .002 | 4.71 |

## Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 25 | MP3B | X | 4.656 | .71 |
| 26 | MP3B | Z | 8.064 | .71 |
| 27 | MP3B | Mx | -.008 | .71 |
| 28 | MP3B | X | 4.656 | 4.71 |
| 29 | MP3B | Z | 8.064 | 4.71 |
| 30 | MP3B | Mx | -.008 | 4.71 |
| 31 | MP3C | X | 3.186 | .71 |
| 32 | MP3C | Z | 5.518 | .71 |
| 33 | MP3C | Mx | .005 | .71 |
| 34 | MP3C | X | 3.186 | 4.71 |
| 35 | MP3C | Z | 5.518 | 4.71 |
| 36 | MP3C | Mx | .005 | 4.71 |
| 37 | MP3A | X | 4.435 | .71 |
| 38 | MP3A | Z | 7.681 | .71 |
| 39 | MP3A | Mx | -.008 | .71 |
| 40 | MP3A | X | 4.435 | 4.71 |
| 41 | MP3A | Z | 7.681 | 4.71 |
| 42 | MP3A | Mx | -.008 | 4.71 |
| 43 | MP3B | X | 4.656 | .71 |
| 44 | MP3B | Z | 8.064 | .71 |
| 45 | MP3B | Mx | .003 | .71 |
| 46 | MP3B | X | 4.656 | 4.71 |
| 47 | MP3B | Z | 8.064 | 4.71 |
| 48 | MP3B | Mx | .003 | 4.71 |
| 49 | MP3C | X | 3.186 | .71 |
| 50 | MP3C | Z | 5.518 | .71 |
| 51 | MP3C | Mx | .005 | .71 |
| 52 | MP3C | X | 3.186 | 4.71 |
| 53 | MP3C | Z | 5.518 | 4.71 |
| 54 | MP3C | Mx | .005 | 4.71 |
| 55 | MP2A | X | 3.977 | .8 |
| 56 | MP2A | Z | 6.888 | .8 |
| 57 | MP2A | Mx | -.003 | .8 |
| 58 | MP2A | X | 3.977 | 4.8 |
| 59 | MP2A | Z | 6.888 | 4.8 |
| 60 | MP2A | Mx | -.003 | 4.8 |
| 61 | MP2B | X | 4.173 | .8 |
| 62 | MP2B | Z | 7.227 | .8 |
| 63 | MP2B | Mx | -.002 | .8 |
| 64 | MP2B | X | 4.173 | 4.8 |
| 65 | MP2B | Z | 7.227 | 4.8 |
| 66 | MP2B | Mx | -.002 | 4.8 |
| 67 | MP2C | X | 2.873 | .8 |
| 68 | MP2C | Z | 4.977 | .8 |
| 69 | MP2C | Mx | .004 | .8 |
| 70 | MP2C | X | 2.873 | 4.8 |
| 71 | MP2C | Z | 4.977 | 4.8 |
| 72 | MP2C | Mx | .004 | 4.8 |
| 73 | MP4A | X | .757 | 2.08 |
| 74 | MP4A | Z | 1.312 | 2.08 |
| 75 | MP4A | Mx | -.000568 | 2.08 |
| 76 | MP4B | X | .859 | 2.08 |
| 77 | MP4B | Z | 1.487 | 2.08 |
| 78 | MP4B | Mx | -.00044 | 2.08 |
| 79 | MP4C | X | .186 | 2.08 |
| 80 | MP4C | Z | .322 | 2.08 |
| 81 | MP4C | Mx | .000279 | 2.08 |

## Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 82 | MP3A | X | .394 | 2.08 |
| 83 | MP3A | Z | .682 | 2.08 |
| 84 | MP3A | Mx | .000394 | 2.08 |
| 85 | MP3B | X | .394 | 2.08 |
| 86 | MP3B | Z | .682 | 2.08 |
| 87 | MP3B | Mx | .000394 | 2.08 |
| 88 | MP3C | X | .394 | 2.08 |
| 89 | MP3C | Z | .682 | 2.08 |
| 90 | MP3C | Mx | .000394 | 2.08 |
| 91 | OVP | X | 2.662 | 1 |
| 92 | OVP | Z | 4.611 | 1 |
| 93 | OVP | Mx | 0 | 1 |
| 94 | MP3A | X | 1.991 | 2.08 |
| 95 | MP3A | Z | 3.449 | 2.08 |
| 96 | MP3A | Mx | -.002 | 2.08 |
| 97 | MP3B | X | 1.991 | 2.08 |
| 98 | MP3B | Z | 3.449 | 2.08 |
| 99 | MP3B | Mx | -.002 | 2.08 |
| 100 | MP3C | X | 1.991 | 2.08 |
| 101 | MP3C | Z | 3.449 | 2.08 |
| 102 | MP3C | Mx | -.002 | 2.08 |
| 103 | MP1A | X | 1.991 | 2.08 |
| 104 | MP1A | Z | 3.449 | 2.08 |
| 105 | MP1A | Mx | -.002 | 2.08 |
| 106 | MP1B | X | 1.991 | 2.08 |
| 107 | MP1B | Z | 3.449 | 2.08 |
| 108 | MP1B | Mx | -.002 | 2.08 |
| 109 | MP1C | X | 1.991 | 2.08 |
| 110 | MP1C | Z | 3.449 | 2.08 |
| 111 | MP1C | Mx | -.002 | 2.08 |
| 112 | MP4C | X | 1.065 | 1 |
| 113 | MP4C | Z | 1.845 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 2.662 | 1 |
| 116 | OVP | Z | 4.611 | 1 |
| 117 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | 0 | 1 |
| 2 | MP1A | Z | 5.005 | 1 |
| 3 | MP1A | Mx | 0 | 1 |
| 4 | MP1A | X | 0 | 3 |
| 5 | MP1A | Z | 5.005 | 3 |
| 6 | MP1A | Mx | 0 | 3 |
| 7 | MP1B | X | 0 | 1 |
| 8 | MP1B | Z | 3.218 | 1 |
| 9 | MP1B | Mx | -.002 | 1 |
| 10 | MP1B | X | 0 | 3 |
| 11 | MP1B | Z | 3.218 | 3 |
| 12 | MP1B | Mx | -.002 | 3 |
| 13 | MP1C | X | 0 | 1 |
| 14 | MP1C | Z | 2.721 | 1 |
| 15 | MP1C | Mx | .002 | 1 |
| 16 | MP1C | X | 0 | 3 |
| 17 | MP1C | Z | 2.721 | 3 |

## Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 18 | MP1C | Mx | .002 | 3 |
| 19 | MP3A | X | 0 | .71 |
| 20 | MP3A | Z | 9.701 | .71 |
| 21 | MP3A | Mx | .006 | .71 |
| 22 | MP3A | X | 0 | 4.71 |
| 23 | MP3A | Z | 9.701 | 4.71 |
| 24 | MP3A | Mx | .006 | 4.71 |
| 25 | MP3B | X | 0 | .71 |
| 26 | MP3B | Z | 7.748 | .71 |
| 27 | MP3B | Mx | -.008 | .71 |
| 28 | MP3B | X | 0 | 4.71 |
| 29 | MP3B | Z | 7.748 | 4.71 |
| 30 | MP3B | Mx | -.008 | 4.71 |
| 31 | MP3C | X | 0 | .71 |
| 32 | MP3C | Z | 7.204 | .71 |
| 33 | MP3C | Mx | .002 | .71 |
| 34 | MP3C | X | 0 | 4.71 |
| 35 | MP3C | Z | 7.204 | 4.71 |
| 36 | MP3C | Mx | .002 | 4.71 |
| 37 | MP3A | X | 0 | .71 |
| 38 | MP3A | Z | 9.701 | .71 |
| 39 | MP3A | Mx | -.006 | .71 |
| 40 | MP3A | X | 0 | 4.71 |
| 41 | MP3A | Z | 9.701 | 4.71 |
| 42 | MP3A | Mx | -.006 | 4.71 |
| 43 | MP3B | X | 0 | .71 |
| 44 | MP3B | Z | 7.748 | .71 |
| 45 | MP3B | Mx | -.001 | .71 |
| 46 | MP3B | X | 0 | 4.71 |
| 47 | MP3B | Z | 7.748 | 4.71 |
| 48 | MP3B | Mx | -.001 | 4.71 |
| 49 | MP3C | X | 0 | .71 |
| 50 | MP3C | Z | 7.204 | .71 |
| 51 | MP3C | Mx | .007 | .71 |
| 52 | MP3C | X | 0 | 4.71 |
| 53 | MP3C | Z | 7.204 | 4.71 |
| 54 | MP3C | Mx | .007 | 4.71 |
| 55 | MP2A | X | 0 | .8 |
| 56 | MP2A | Z | 8.69 | .8 |
| 57 | MP2A | Mx | 0 | .8 |
| 58 | MP2A | X | 0 | 4.8 |
| 59 | MP2A | Z | 8.69 | 4.8 |
| 60 | MP2A | Mx | 0 | 4.8 |
| 61 | MP2B | X | 0 | .8 |
| 62 | MP2B | Z | 6.963 | .8 |
| 63 | MP2B | Mx | -.004 | .8 |
| 64 | MP2B | X | 0 | 4.8 |
| 65 | MP2B | Z | 6.963 | 4.8 |
| 66 | MP2B | Mx | -.004 | 4.8 |
| 67 | MP2C | X | 0 | .8 |
| 68 | MP2C | Z | 6.482 | .8 |
| 69 | MP2C | Mx | .004 | .8 |
| 70 | MP2C | X | 0 | 4.8 |
| 71 | MP2C | Z | 6.482 | 4.8 |
| 72 | MP2C | Mx | .004 | 4.8 |
| 73 | MP4A | X | 0 | 2.08 |
| 74 | MP4A | Z | 1.896 | 2.08 |

## Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 75 | MP4A | Mx | 0 | 2.08 |
| 76 | MP4B | X | 0 | 2.08 |
| 77 | MP4B | Z | 1.001 | 2.08 |
| 78 | MP4B | Mx | -.000575 | 2.08 |
| 79 | MP4C | X | 0 | 2.08 |
| 80 | MP4C | Z | .753 | 2.08 |
| 81 | MP4C | Mx | .000489 | 2.08 |
| 82 | MP3A | X | 0 | 2.08 |
| 83 | MP3A | Z | .727 | 2.08 |
| 84 | MP3A | Mx | .000133 | 2.08 |
| 85 | MP3B | X | 0 | 2.08 |
| 86 | MP3B | Z | .727 | 2.08 |
| 87 | MP3B | Mx | .000133 | 2.08 |
| 88 | MP3C | X | 0 | 2.08 |
| 89 | MP3C | Z | .727 | 2.08 |
| 90 | MP3C | Mx | .000133 | 2.08 |
| 91 | OVP | X | 0 | 1 |
| 92 | OVP | Z | 4.858 | 1 |
| 93 | OVP | Mx | .001 | 1 |
| 94 | MP3A | X | 0 | 2.08 |
| 95 | MP3A | Z | 3.653 | 2.08 |
| 96 | MP3A | Mx | -.002 | 2.08 |
| 97 | MP3B | X | 0 | 2.08 |
| 98 | MP3B | Z | 3.653 | 2.08 |
| 99 | MP3B | Mx | -.002 | 2.08 |
| 100 | MP3C | X | 0 | 2.08 |
| 101 | MP3C | Z | 3.653 | 2.08 |
| 102 | MP3C | Mx | -.002 | 2.08 |
| 103 | MP1A | X | 0 | 2.08 |
| 104 | MP1A | Z | 3.526 | 2.08 |
| 105 | MP1A | Mx | -.002 | 2.08 |
| 106 | MP1B | X | 0 | 2.08 |
| 107 | MP1B | Z | 3.526 | 2.08 |
| 108 | MP1B | Mx | -.002 | 2.08 |
| 109 | MP1C | X | 0 | 2.08 |
| 110 | MP1C | Z | 3.526 | 2.08 |
| 111 | MP1C | Mx | -.002 | 2.08 |
| 112 | MP4C | X | 0 | 1 |
| 113 | MP4C | Z | 1.917 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | 0 | 1 |
| 116 | OVP | Z | 4.858 | 1 |
| 117 | OVP | Mx | -.001 | 1 |

## Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -2.122 | 1 |
| 2 | MP1A | Z | 3.675 | 1 |
| 3 | MP1A | Mx | .002 | 1 |
| 4 | MP1A | X | -2.122 | 3 |
| 5 | MP1A | Z | 3.675 | 3 |
| 6 | MP1A | Mx | .002 | 3 |
| 7 | MP1B | X | -1.026 | 1 |
| 8 | MP1B | Z | 1.777 | 1 |
| 9 | MP1B | Mx | -.002 | 1 |
| 10 | MP1B | X | -1.026 | 3 |

## Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 11 | MP1B | Z | 1.777 | 3 |
| 12 | MP1B | Mx | -.002 | 3 |
| 13 | MP1C | X | -2.122 | 1 |
| 14 | MP1C | Z | 3.675 | 1 |
| 15 | MP1C | Mx | .002 | 1 |
| 16 | MP1C | X | -2.122 | 3 |
| 17 | MP1C | Z | 3.675 | 3 |
| 18 | MP1C | Mx | .002 | 3 |
| 19 | MP3A | X | -4.435 | .71 |
| 20 | MP3A | Z | 7.681 | .71 |
| 21 | MP3A | Mx | .008 | .71 |
| 22 | MP3A | X | -4.435 | 4.71 |
| 23 | MP3A | Z | 7.681 | 4.71 |
| 24 | MP3A | Mx | .008 | 4.71 |
| 25 | MP3B | X | -3.236 | .71 |
| 26 | MP3B | Z | 5.605 | .71 |
| 27 | MP3B | Mx | -.006 | .71 |
| 28 | MP3B | X | -3.236 | 4.71 |
| 29 | MP3B | Z | 5.605 | 4.71 |
| 30 | MP3B | Mx | -.006 | 4.71 |
| 31 | MP3C | X | -4.435 | .71 |
| 32 | MP3C | Z | 7.681 | .71 |
| 33 | MP3C | Mx | -.002 | .71 |
| 34 | MP3C | X | -4.435 | 4.71 |
| 35 | MP3C | Z | 7.681 | 4.71 |
| 36 | MP3C | Mx | -.002 | 4.71 |
| 37 | MP3A | X | -4.435 | .71 |
| 38 | MP3A | Z | 7.681 | .71 |
| 39 | MP3A | Mx | -.002 | .71 |
| 40 | MP3A | X | -4.435 | 4.71 |
| 41 | MP3A | Z | 7.681 | 4.71 |
| 42 | MP3A | Mx | -.002 | 4.71 |
| 43 | MP3B | X | -3.236 | .71 |
| 44 | MP3B | Z | 5.605 | .71 |
| 45 | MP3B | Mx | -.004 | .71 |
| 46 | MP3B | X | -3.236 | 4.71 |
| 47 | MP3B | Z | 5.605 | 4.71 |
| 48 | MP3B | Mx | -.004 | 4.71 |
| 49 | MP3C | X | -4.435 | .71 |
| 50 | MP3C | Z | 7.681 | .71 |
| 51 | MP3C | Mx | .008 | .71 |
| 52 | MP3C | X | -4.435 | 4.71 |
| 53 | MP3C | Z | 7.681 | 4.71 |
| 54 | MP3C | Mx | .008 | 4.71 |
| 55 | MP2A | X | -3.977 | .8 |
| 56 | MP2A | Z | 6.888 | .8 |
| 57 | MP2A | Mx | .003 | .8 |
| 58 | MP2A | X | -3.977 | 4.8 |
| 59 | MP2A | Z | 6.888 | 4.8 |
| 60 | MP2A | Mx | .003 | 4.8 |
| 61 | MP2B | X | -2.918 | .8 |
| 62 | MP2B | Z | 5.054 | .8 |
| 63 | MP2B | Mx | -.004 | .8 |
| 64 | MP2B | X | -2.918 | 4.8 |
| 65 | MP2B | Z | 5.054 | 4.8 |
| 66 | MP2B | Mx | -.004 | 4.8 |
| 67 | MP2C | X | -3.977 | .8 |

## Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 68 | MP2C | Z | 6.888 | .8 |
| 69 | MP2C | Mx | .003 | .8 |
| 70 | MP2C | X | -3.977 | 4.8 |
| 71 | MP2C | Z | 6.888 | 4.8 |
| 72 | MP2C | Mx | .003 | 4.8 |
| 73 | MP4A | X | -.757 | 2.08 |
| 74 | MP4A | Z | 1.312 | 2.08 |
| 75 | MP4A | Mx | .000568 | 2.08 |
| 76 | MP4B | X | -.209 | 2.08 |
| 77 | MP4B | Z | .362 | 2.08 |
| 78 | MP4B | Mx | -.000309 | 2.08 |
| 79 | MP4C | X | -.757 | 2.08 |
| 80 | MP4C | Z | 1.312 | 2.08 |
| 81 | MP4C | Mx | .000568 | 2.08 |
| 82 | MP3A | X | -.303 | 2.08 |
| 83 | MP3A | Z | .525 | 2.08 |
| 84 | MP3A | Mx | -.000111 | 2.08 |
| 85 | MP3B | X | -.303 | 2.08 |
| 86 | MP3B | Z | .525 | 2.08 |
| 87 | MP3B | Mx | -.000111 | 2.08 |
| 88 | MP3C | X | -.303 | 2.08 |
| 89 | MP3C | Z | .525 | 2.08 |
| 90 | MP3C | Mx | -.000111 | 2.08 |
| 91 | OVP | X | -1.962 | 1 |
| 92 | OVP | Z | 3.399 | 1 |
| 93 | OVP | Mx | .002 | 1 |
| 94 | MP3A | X | -1.496 | 2.08 |
| 95 | MP3A | Z | 2.592 | 2.08 |
| 96 | MP3A | Mx | -.002 | 2.08 |
| 97 | MP3B | X | -1.496 | 2.08 |
| 98 | MP3B | Z | 2.592 | 2.08 |
| 99 | MP3B | Mx | -.002 | 2.08 |
| 100 | MP3C | X | -1.496 | 2.08 |
| 101 | MP3C | Z | 2.592 | 2.08 |
| 102 | MP3C | Mx | -.002 | 2.08 |
| 103 | MP1A | X | -1.307 | 2.08 |
| 104 | MP1A | Z | 2.263 | 2.08 |
| 105 | MP1A | Mx | -.002 | 2.08 |
| 106 | MP1B | X | -1.307 | 2.08 |
| 107 | MP1B | Z | 2.263 | 2.08 |
| 108 | MP1B | Mx | -.002 | 2.08 |
| 109 | MP1C | X | -1.307 | 2.08 |
| 110 | MP1C | Z | 2.263 | 2.08 |
| 111 | MP1C | Mx | -.002 | 2.08 |
| 112 | MP4C | X | -.745 | 1 |
| 113 | MP4C | Z | 1.291 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -1.962 | 1 |
| 116 | OVP | Z | 3.399 | 1 |
| 117 | OVP | Mx | -.002 | 1 |

## Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -2.356 | 1 |
| 2 | MP1A | Z | 1.36 | 1 |
| 3 | MP1A | Mx | .002 | 1 |

## Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 4 | MP1A | X | -2.356 | 3 |
| 5 | MP1A | Z | 1.36 | 3 |
| 6 | MP1A | Mx | .002 | 3 |
| 7 | MP1B | X | -2.006 | 1 |
| 8 | MP1B | Z | 1.158 | 1 |
| 9 | MP1B | Mx | -.002 | 1 |
| 10 | MP1B | X | -2.006 | 3 |
| 11 | MP1B | Z | 1.158 | 3 |
| 12 | MP1B | Mx | -.002 | 3 |
| 13 | MP1C | X | -4.335 | 1 |
| 14 | MP1C | Z | 2.503 | 1 |
| 15 | MP1C | Mx | 0 | 1 |
| 16 | MP1C | X | -4.335 | 3 |
| 17 | MP1C | Z | 2.503 | 3 |
| 18 | MP1C | Mx | 0 | 3 |
| 19 | MP3A | X | -6.239 | .71 |
| 20 | MP3A | Z | 3.602 | .71 |
| 21 | MP3A | Mx | .007 | .71 |
| 22 | MP3A | X | -6.239 | 4.71 |
| 23 | MP3A | Z | 3.602 | 4.71 |
| 24 | MP3A | Mx | .007 | 4.71 |
| 25 | MP3B | X | -5.855 | .71 |
| 26 | MP3B | Z | 3.381 | .71 |
| 27 | MP3B | Mx | -.003 | .71 |
| 28 | MP3B | X | -5.855 | 4.71 |
| 29 | MP3B | Z | 3.381 | 4.71 |
| 30 | MP3B | Mx | -.003 | 4.71 |
| 31 | MP3C | X | -8.402 | .71 |
| 32 | MP3C | Z | 4.851 | .71 |
| 33 | MP3C | Mx | -.006 | .71 |
| 34 | MP3C | X | -8.402 | 4.71 |
| 35 | MP3C | Z | 4.851 | 4.71 |
| 36 | MP3C | Mx | -.006 | 4.71 |
| 37 | MP3A | X | -6.239 | .71 |
| 38 | MP3A | Z | 3.602 | .71 |
| 39 | MP3A | Mx | .002 | .71 |
| 40 | MP3A | X | -6.239 | 4.71 |
| 41 | MP3A | Z | 3.602 | 4.71 |
| 42 | MP3A | Mx | .002 | 4.71 |
| 43 | MP3B | X | -5.855 | .71 |
| 44 | MP3B | Z | 3.381 | .71 |
| 45 | MP3B | Mx | -.006 | .71 |
| 46 | MP3B | X | -5.855 | 4.71 |
| 47 | MP3B | Z | 3.381 | 4.71 |
| 48 | MP3B | Mx | -.006 | 4.71 |
| 49 | MP3C | X | -8.402 | .71 |
| 50 | MP3C | Z | 4.851 | .71 |
| 51 | MP3C | Mx | .006 | .71 |
| 52 | MP3C | X | -8.402 | 4.71 |
| 53 | MP3C | Z | 4.851 | 4.71 |
| 54 | MP3C | Mx | .006 | 4.71 |
| 55 | MP2A | X | -5.614 | .8 |
| 56 | MP2A | Z | 3.241 | .8 |
| 57 | MP2A | Mx | .004 | .8 |
| 58 | MP2A | X | -5.614 | 4.8 |
| 59 | MP2A | Z | 3.241 | 4.8 |
| 60 | MP2A | Mx | .004 | 4.8 |

## Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 61 | MP2B | X | -5.275 | .8 |
| 62 | MP2B | Z | 3.045 | .8 |
| 63 | MP2B | Mx | -.004 | .8 |
| 64 | MP2B | X | -5.275 | 4.8 |
| 65 | MP2B | Z | 3.045 | 4.8 |
| 66 | MP2B | Mx | -.004 | 4.8 |
| 67 | MP2C | X | -7.526 | .8 |
| 68 | MP2C | Z | 4.345 | .8 |
| 69 | MP2C | Mx | 0 | .8 |
| 70 | MP2C | X | -7.526 | 4.8 |
| 71 | MP2C | Z | 4.345 | 4.8 |
| 72 | MP2C | Mx | 0 | 4.8 |
| 73 | MP4A | X | -.652 | 2.08 |
| 74 | MP4A | Z | .376 | 2.08 |
| 75 | MP4A | Mx | .000489 | 2.08 |
| 76 | MP4B | X | -.476 | 2.08 |
| 77 | MP4B | Z | .275 | 2.08 |
| 78 | MP4B | Mx | -.000387 | 2.08 |
| 79 | MP4C | X | -1.642 | 2.08 |
| 80 | MP4C | Z | .948 | 2.08 |
| 81 | MP4C | Mx | 0 | 2.08 |
| 82 | MP3A | X | -.472 | 2.08 |
| 83 | MP3A | Z | .273 | 2.08 |
| 84 | MP3A | Mx | -.000272 | 2.08 |
| 85 | MP3B | X | -.472 | 2.08 |
| 86 | MP3B | Z | .273 | 2.08 |
| 87 | MP3B | Mx | -.000272 | 2.08 |
| 88 | MP3C | X | -.472 | 2.08 |
| 89 | MP3C | Z | .273 | 2.08 |
| 90 | MP3C | Mx | -.000272 | 2.08 |
| 91 | OVP | X | -2.995 | 1 |
| 92 | OVP | Z | 1.729 | 1 |
| 93 | OVP | Mx | .002 | 1 |
| 94 | MP3A | X | -2.306 | 2.08 |
| 95 | MP3A | Z | 1.331 | 2.08 |
| 96 | MP3A | Mx | -.001 | 2.08 |
| 97 | MP3B | X | -2.306 | 2.08 |
| 98 | MP3B | Z | 1.331 | 2.08 |
| 99 | MP3B | Mx | -.001 | 2.08 |
| 100 | MP3C | X | -2.306 | 2.08 |
| 101 | MP3C | Z | 1.331 | 2.08 |
| 102 | MP3C | Mx | -.001 | 2.08 |
| 103 | MP1A | X | -1.868 | 2.08 |
| 104 | MP1A | Z | 1.078 | 2.08 |
| 105 | MP1A | Mx | -.001 | 2.08 |
| 106 | MP1B | X | -1.868 | 2.08 |
| 107 | MP1B | Z | 1.078 | 2.08 |
| 108 | MP1B | Mx | -.001 | 2.08 |
| 109 | MP1C | X | -1.868 | 2.08 |
| 110 | MP1C | Z | 1.078 | 2.08 |
| 111 | MP1C | Mx | -.001 | 2.08 |
| 112 | MP4C | X | -1.107 | 1 |
| 113 | MP4C | Z | .639 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -2.995 | 1 |
| 116 | OVP | Z | 1.729 | 1 |
| 117 | OVP | Mx | -.002 | 1 |

## Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -1.96 | 1 |
| 2 | MP1A | Z | 0 | 1 |
| 3 | MP1A | Mx | .001 | 1 |
| 4 | MP1A | X | -1.96 | 3 |
| 5 | MP1A | Z | 0 | 3 |
| 6 | MP1A | Mx | .001 | 3 |
| 7 | MP1B | X | -3.747 | 1 |
| 8 | MP1B | Z | 0 | 1 |
| 9 | MP1B | Mx | -.002 | 1 |
| 10 | MP1B | X | -3.747 | 3 |
| 11 | MP1B | Z | 0 | 3 |
| 12 | MP1B | Mx | -.002 | 3 |
| 13 | MP1C | X | -4.244 | 1 |
| 14 | MP1C | Z | 0 | 1 |
| 15 | MP1C | Mx | -.002 | 1 |
| 16 | MP1C | X | -4.244 | 3 |
| 17 | MP1C | Z | 0 | 3 |
| 18 | MP1C | Mx | -.002 | 3 |
| 19 | MP3A | X | -6.372 | .71 |
| 20 | MP3A | Z | 0 | .71 |
| 21 | MP3A | Mx | .005 | .71 |
| 22 | MP3A | X | -6.372 | 4.71 |
| 23 | MP3A | Z | 0 | 4.71 |
| 24 | MP3A | Mx | .005 | 4.71 |
| 25 | MP3B | X | -8.326 | .71 |
| 26 | MP3B | Z | 0 | .71 |
| 27 | MP3B | Mx | .000238 | .71 |
| 28 | MP3B | X | -8.326 | 4.71 |
| 29 | MP3B | Z | 0 | 4.71 |
| 30 | MP3B | Mx | .000238 | 4.71 |
| 31 | MP3C | X | -8.869 | .71 |
| 32 | MP3C | Z | 0 | .71 |
| 33 | MP3C | Mx | -.008 | .71 |
| 34 | MP3C | X | -8.869 | 4.71 |
| 35 | MP3C | Z | 0 | 4.71 |
| 36 | MP3C | Mx | -.008 | 4.71 |
| 37 | MP3A | X | -6.372 | .71 |
| 38 | MP3A | Z | 0 | .71 |
| 39 | MP3A | Mx | .005 | .71 |
| 40 | MP3A | X | -6.372 | 4.71 |
| 41 | MP3A | Z | 0 | 4.71 |
| 42 | MP3A | Mx | .005 | 4.71 |
| 43 | MP3B | X | -8.326 | .71 |
| 44 | MP3B | Z | 0 | .71 |
| 45 | MP3B | Mx | -.008 | .71 |
| 46 | MP3B | X | -8.326 | 4.71 |
| 47 | MP3B | Z | 0 | 4.71 |
| 48 | MP3B | Mx | -.008 | 4.71 |
| 49 | MP3C | X | -8.869 | .71 |
| 50 | MP3C | Z | 0 | .71 |
| 51 | MP3C | Mx | .002 | .71 |
| 52 | MP3C | X | -8.869 | 4.71 |
| 53 | MP3C | Z | 0 | 4.71 |
| 54 | MP3C | Mx | .002 | 4.71 |
| 55 | MP2A | X | -5.747 | .8 |
| 56 | MP2A | Z | 0 | .8 |
| 57 | MP2A | Mx | .004 | .8 |

## Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 58 | MP2A | X | -5.747 | 4.8 |
| 59 | MP2A | Z | 0 | 4.8 |
| 60 | MP2A | Mx | .004 | 4.8 |
| 61 | MP2B | X | -7.474 | .8 |
| 62 | MP2B | Z | 0 | .8 |
| 63 | MP2B | Mx | -.004 | .8 |
| 64 | MP2B | X | -7.474 | 4.8 |
| 65 | MP2B | Z | 0 | 4.8 |
| 66 | MP2B | Mx | -.004 | 4.8 |
| 67 | MP2C | X | -7.954 | .8 |
| 68 | MP2C | Z | 0 | .8 |
| 69 | MP2C | Mx | -.003 | .8 |
| 70 | MP2C | X | -7.954 | 4.8 |
| 71 | MP2C | Z | 0 | 4.8 |
| 72 | MP2C | Mx | -.003 | 4.8 |
| 73 | MP4A | X | -.372 | 2.08 |
| 74 | MP4A | Z | 0 | 2.08 |
| 75 | MP4A | Mx | .000279 | 2.08 |
| 76 | MP4B | X | -1.266 | 2.08 |
| 77 | MP4B | Z | 0 | 2.08 |
| 78 | MP4B | Mx | -.00061 | 2.08 |
| 79 | MP4C | X | -1.515 | 2.08 |
| 80 | MP4C | Z | 0 | 2.08 |
| 81 | MP4C | Mx | -.000568 | 2.08 |
| 82 | MP3A | X | -.606 | 2.08 |
| 83 | MP3A | Z | 0 | 2.08 |
| 84 | MP3A | Mx | -.000414 | 2.08 |
| 85 | MP3B | X | -.606 | 2.08 |
| 86 | MP3B | Z | 0 | 2.08 |
| 87 | MP3B | Mx | -.000414 | 2.08 |
| 88 | MP3C | X | -.606 | 2.08 |
| 89 | MP3C | Z | 0 | 2.08 |
| 90 | MP3C | Mx | -.000414 | 2.08 |
| 91 | OVP | X | -3.925 | 1 |
| 92 | OVP | Z | 0 | 1 |
| 93 | OVP | Mx | .002 | 1 |
| 94 | MP3A | X | -2.992 | 2.08 |
| 95 | MP3A | Z | 0 | 2.08 |
| 96 | MP3A | Mx | -.000548 | 2.08 |
| 97 | MP3B | X | -2.992 | 2.08 |
| 98 | MP3B | Z | 0 | 2.08 |
| 99 | MP3B | Mx | -.000548 | 2.08 |
| 100 | MP3C | X | -2.992 | 2.08 |
| 101 | MP3C | Z | 0 | 2.08 |
| 102 | MP3C | Mx | -.000548 | 2.08 |
| 103 | MP1A | X | -2.613 | 2.08 |
| 104 | MP1A | Z | 0 | 2.08 |
| 105 | MP1A | Mx | -.000478 | 2.08 |
| 106 | MP1B | X | -2.613 | 2.08 |
| 107 | MP1B | Z | 0 | 2.08 |
| 108 | MP1B | Mx | -.000478 | 2.08 |
| 109 | MP1C | X | -2.613 | 2.08 |
| 110 | MP1C | Z | 0 | 2.08 |
| 111 | MP1C | Mx | -.000478 | 2.08 |
| 112 | MP4C | X | -1.491 | 1 |
| 113 | MP4C | Z | 0 | 1 |
| 114 | MP4C | Mx | 0 | 1 |

## Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 115 | OVP | X | -3.925 | 1 |
| 116 | OVP | Z | 0 | 1 |
| 117 | OVP | Mx | -.002 | 1 |

## Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -2.356 | 1 |
| 2 | MP1A | Z | -1.36 | 1 |
| 3 | MP1A | Mx | .002 | 1 |
| 4 | MP1A | X | -2.356 | 3 |
| 5 | MP1A | Z | -1.36 | 3 |
| 6 | MP1A | Mx | .002 | 3 |
| 7 | MP1B | X | -4.255 | 1 |
| 8 | MP1B | Z | -2.457 | 1 |
| 9 | MP1B | Mx | -.00064 | 1 |
| 10 | MP1B | X | -4.255 | 3 |
| 11 | MP1B | Z | -2.457 | 3 |
| 12 | MP1B | Mx | -.00064 | 3 |
| 13 | MP1C | X | -2.356 | 1 |
| 14 | MP1C | Z | -1.36 | 1 |
| 15 | MP1C | Mx | -.002 | 1 |
| 16 | MP1C | X | -2.356 | 3 |
| 17 | MP1C | Z | -1.36 | 3 |
| 18 | MP1C | Mx | -.002 | 3 |
| 19 | MP3A | X | -6.239 | .71 |
| 20 | MP3A | Z | -3.602 | .71 |
| 21 | MP3A | Mx | .002 | .71 |
| 22 | MP3A | X | -6.239 | 4.71 |
| 23 | MP3A | Z | -3.602 | 4.71 |
| 24 | MP3A | Mx | .002 | 4.71 |
| 25 | MP3B | X | -8.315 | .71 |
| 26 | MP3B | Z | -4.801 | .71 |
| 27 | MP3B | Mx | .005 | .71 |
| 28 | MP3B | X | -8.315 | 4.71 |
| 29 | MP3B | Z | -4.801 | 4.71 |
| 30 | MP3B | Mx | .005 | 4.71 |
| 31 | MP3C | X | -6.239 | .71 |
| 32 | MP3C | Z | -3.602 | .71 |
| 33 | MP3C | Mx | -.007 | .71 |
| 34 | MP3C | X | -6.239 | 4.71 |
| 35 | MP3C | Z | -3.602 | 4.71 |
| 36 | MP3C | Mx | -.007 | 4.71 |
| 37 | MP3A | X | -6.239 | .71 |
| 38 | MP3A | Z | -3.602 | .71 |
| 39 | MP3A | Mx | .007 | .71 |
| 40 | MP3A | X | -6.239 | 4.71 |
| 41 | MP3A | Z | -3.602 | 4.71 |
| 42 | MP3A | Mx | .007 | 4.71 |
| 43 | MP3B | X | -8.315 | .71 |
| 44 | MP3B | Z | -4.801 | .71 |
| 45 | MP3B | Mx | -.008 | .71 |
| 46 | MP3B | X | -8.315 | 4.71 |
| 47 | MP3B | Z | -4.801 | 4.71 |
| 48 | MP3B | Mx | -.008 | 4.71 |
| 49 | MP3C | X | -6.239 | .71 |
| 50 | MP3C | Z | -3.602 | .71 |

## Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 51 | MP3C | Mx | -.002 | .71 |
| 52 | MP3C | X | -6.239 | 4.71 |
| 53 | MP3C | Z | -3.602 | 4.71 |
| 54 | MP3C | Mx | -.002 | 4.71 |
| 55 | MP2A | X | -5.614 | .8 |
| 56 | MP2A | Z | -3.241 | .8 |
| 57 | MP2A | Mx | .004 | .8 |
| 58 | MP2A | X | -5.614 | 4.8 |
| 59 | MP2A | Z | -3.241 | 4.8 |
| 60 | MP2A | Mx | .004 | 4.8 |
| 61 | MP2B | X | -7.449 | .8 |
| 62 | MP2B | Z | -4.301 | .8 |
| 63 | MP2B | Mx | -.001 | .8 |
| 64 | MP2B | X | -7.449 | 4.8 |
| 65 | MP2B | Z | -4.301 | 4.8 |
| 66 | MP2B | Mx | -.001 | 4.8 |
| 67 | MP2C | X | -5.614 | .8 |
| 68 | MP2C | Z | -3.241 | .8 |
| 69 | MP2C | Mx | -.004 | .8 |
| 70 | MP2C | X | -5.614 | 4.8 |
| 71 | MP2C | Z | -3.241 | 4.8 |
| 72 | MP2C | Mx | -.004 | 4.8 |
| 73 | MP4A | X | -.652 | 2.08 |
| 74 | MP4A | Z | -.376 | 2.08 |
| 75 | MP4A | Mx | .000489 | 2.08 |
| 76 | MP4B | X | -1.602 | 2.08 |
| 77 | MP4B | Z | -.925 | 2.08 |
| 78 | MP4B | Mx | -.000241 | 2.08 |
| 79 | MP4C | X | -.652 | 2.08 |
| 80 | MP4C | Z | -.376 | 2.08 |
| 81 | MP4C | Mx | -.000489 | 2.08 |
| 82 | MP3A | X | -.63 | 2.08 |
| 83 | MP3A | Z | -.364 | 2.08 |
| 84 | MP3A | Mx | -.000497 | 2.08 |
| 85 | MP3B | X | -.63 | 2.08 |
| 86 | MP3B | Z | -.364 | 2.08 |
| 87 | MP3B | Mx | -.000497 | 2.08 |
| 88 | MP3C | X | -.63 | 2.08 |
| 89 | MP3C | Z | -.364 | 2.08 |
| 90 | MP3C | Mx | -.000497 | 2.08 |
| 91 | OVP | X | -4.207 | 1 |
| 92 | OVP | Z | -2.429 | 1 |
| 93 | OVP | Mx | .001 | 1 |
| 94 | MP3A | X | -3.163 | 2.08 |
| 95 | MP3A | Z | -1.826 | 2.08 |
| 96 | MP3A | Mx | .000668 | 2.08 |
| 97 | MP3B | X | -3.163 | 2.08 |
| 98 | MP3B | Z | -1.826 | 2.08 |
| 99 | MP3B | Mx | .000668 | 2.08 |
| 100 | MP3C | X | -3.163 | 2.08 |
| 101 | MP3C | Z | -1.826 | 2.08 |
| 102 | MP3C | Mx | .000668 | 2.08 |
| 103 | MP1A | X | -3.054 | 2.08 |
| 104 | MP1A | Z | -1.763 | 2.08 |
| 105 | MP1A | Mx | .000645 | 2.08 |
| 106 | MP1B | X | -3.054 | 2.08 |
| 107 | MP1B | Z | -1.763 | 2.08 |

## Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 108 | MP1B | Mx | .000645 | 2.08 |
| 109 | MP1C | X | -3.054 | 2.08 |
| 110 | MP1C | Z | -1.763 | 2.08 |
| 111 | MP1C | Mx | .000645 | 2.08 |
| 112 | MP4C | X | -1.66 | 1 |
| 113 | MP4C | Z | -.958 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -4.207 | 1 |
| 116 | OVP | Z | -2.429 | 1 |
| 117 | OVP | Mx | -.001 | 1 |

## Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | MP1A | X | -2.122 | 1 |
| 2 | MP1A | Z | -3.675 | 1 |
| 3 | MP1A | Mx | .002 | 1 |
| 4 | MP1A | X | -2.122 | 3 |
| 5 | MP1A | Z | -3.675 | 3 |
| 6 | MP1A | Mx | .002 | 3 |
| 7 | MP1B | X | -2.324 | 1 |
| 8 | MP1B | Z | -4.026 | 1 |
| 9 | MP1B | Mx | .001 | 1 |
| 10 | MP1B | X | -2.324 | 3 |
| 11 | MP1B | Z | -4.026 | 3 |
| 12 | MP1B | Mx | .001 | 3 |
| 13 | MP1C | X | -.98 | 1 |
| 14 | MP1C | Z | -1.697 | 1 |
| 15 | MP1C | Mx | -.001 | 1 |
| 16 | MP1C | X | -.98 | 3 |
| 17 | MP1C | Z | -1.697 | 3 |
| 18 | MP1C | Mx | -.001 | 3 |
| 19 | MP3A | X | -4.435 | .71 |
| 20 | MP3A | Z | -7.681 | .71 |
| 21 | MP3A | Mx | -.002 | .71 |
| 22 | MP3A | X | -4.435 | 4.71 |
| 23 | MP3A | Z | -7.681 | 4.71 |
| 24 | MP3A | Mx | -.002 | 4.71 |
| 25 | MP3B | X | -4.656 | .71 |
| 26 | MP3B | Z | -8.064 | .71 |
| 27 | MP3B | Mx | .008 | .71 |
| 28 | MP3B | X | -4.656 | 4.71 |
| 29 | MP3B | Z | -8.064 | 4.71 |
| 30 | MP3B | Mx | .008 | 4.71 |
| 31 | MP3C | X | -3.186 | .71 |
| 32 | MP3C | Z | -5.518 | .71 |
| 33 | MP3C | Mx | -.005 | .71 |
| 34 | MP3C | X | -3.186 | 4.71 |
| 35 | MP3C | Z | -5.518 | 4.71 |
| 36 | MP3C | Mx | -.005 | 4.71 |
| 37 | MP3A | X | -4.435 | .71 |
| 38 | MP3A | Z | -7.681 | .71 |
| 39 | MP3A | Mx | .008 | .71 |
| 40 | MP3A | X | -4.435 | 4.71 |
| 41 | MP3A | Z | -7.681 | 4.71 |
| 42 | MP3A | Mx | .008 | 4.71 |
| 43 | MP3B | X | -4.656 | .71 |

## Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 44 | MP3B | Z | -8.064 | .71 |
| 45 | MP3B | Mx | -.003 | .71 |
| 46 | MP3B | X | -4.656 | 4.71 |
| 47 | MP3B | Z | -8.064 | 4.71 |
| 48 | MP3B | Mx | -.003 | 4.71 |
| 49 | MP3C | X | -3.186 | .71 |
| 50 | MP3C | Z | -5.518 | .71 |
| 51 | MP3C | Mx | -.005 | .71 |
| 52 | MP3C | X | -3.186 | 4.71 |
| 53 | MP3C | Z | -5.518 | 4.71 |
| 54 | MP3C | Mx | -.005 | 4.71 |
| 55 | MP2A | X | -3.977 | .8 |
| 56 | MP2A | Z | -6.888 | .8 |
| 57 | MP2A | Mx | .003 | .8 |
| 58 | MP2A | X | -3.977 | 4.8 |
| 59 | MP2A | Z | -6.888 | 4.8 |
| 60 | MP2A | Mx | .003 | 4.8 |
| 61 | MP2B | X | -4.173 | .8 |
| 62 | MP2B | Z | -7.227 | .8 |
| 63 | MP2B | Mx | .002 | .8 |
| 64 | MP2B | X | -4.173 | 4.8 |
| 65 | MP2B | Z | -7.227 | 4.8 |
| 66 | MP2B | Mx | .002 | 4.8 |
| 67 | MP2C | X | -2.873 | .8 |
| 68 | MP2C | Z | -4.977 | .8 |
| 69 | MP2C | Mx | -.004 | .8 |
| 70 | MP2C | X | -2.873 | 4.8 |
| 71 | MP2C | Z | -4.977 | 4.8 |
| 72 | MP2C | Mx | -.004 | 4.8 |
| 73 | MP4A | X | -.757 | 2.08 |
| 74 | MP4A | Z | -1.312 | 2.08 |
| 75 | MP4A | Mx | .000568 | 2.08 |
| 76 | MP4B | X | -.859 | 2.08 |
| 77 | MP4B | Z | -1.487 | 2.08 |
| 78 | MP4B | Mx | .00044 | 2.08 |
| 79 | MP4C | X | -.186 | 2.08 |
| 80 | MP4C | Z | -.322 | 2.08 |
| 81 | MP4C | Mx | -.000279 | 2.08 |
| 82 | MP3A | X | -.394 | 2.08 |
| 83 | MP3A | Z | -.682 | 2.08 |
| 84 | MP3A | Mx | -.000394 | 2.08 |
| 85 | MP3B | X | -.394 | 2.08 |
| 86 | MP3B | Z | -.682 | 2.08 |
| 87 | MP3B | Mx | -.000394 | 2.08 |
| 88 | MP3C | X | -.394 | 2.08 |
| 89 | MP3C | Z | -.682 | 2.08 |
| 90 | MP3C | Mx | -.000394 | 2.08 |
| 91 | OVP | X | -2.662 | 1 |
| 92 | OVP | Z | -4.611 | 1 |
| 93 | OVP | Mx | 0 | 1 |
| 94 | MP3A | X | -1.991 | 2.08 |
| 95 | MP3A | Z | -3.449 | 2.08 |
| 96 | MP3A | Mx | .002 | 2.08 |
| 97 | MP3B | X | -1.991 | 2.08 |
| 98 | MP3B | Z | -3.449 | 2.08 |
| 99 | MP3B | Mx | .002 | 2.08 |
| 100 | MP3C | X | -1.991 | 2.08 |

## Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 101 | MP3C | Z | -3.449 | 2.08 |
| 102 | MP3C | Mx | .002 | 2.08 |
| 103 | MP1A | X | -1.991 | 2.08 |
| 104 | MP1A | Z | -3.449 | 2.08 |
| 105 | MP1A | Mx | .002 | 2.08 |
| 106 | MP1B | X | -1.991 | 2.08 |
| 107 | MP1B | Z | -3.449 | 2.08 |
| 108 | MP1B | Mx | .002 | 2.08 |
| 109 | MP1C | X | -1.991 | 2.08 |
| 110 | MP1C | Z | -3.449 | 2.08 |
| 111 | MP1C | Mx | .002 | 2.08 |
| 112 | MP4C | X | -1.065 | 1 |
| 113 | MP4C | Z | -1.845 | 1 |
| 114 | MP4C | Mx | 0 | 1 |
| 115 | OVP | X | -2.662 | 1 |
| 116 | OVP | Z | -4.611 | 1 |
| 117 | OVP | Mx | 0 | 1 |

## Member Point Loads (BLC 77 : Lm1)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M3 | Y | -500 | %38 |

## Member Point Loads (BLC 78 : Lm2)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M1 | Y | -500 | %82 |

## Member Point Loads (BLC 79 : Lv1)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M1 | Y | -250 | 0 |

## Member Point Loads (BLC 80 : Lv2)

| | Member Label | Direction | Magnitude[lb,lb-ft] | Location[ft,%] |
|---|---|---|---|---|
| 1 | M5 | Y | -250 | %50 |

## Member Distributed Loads (BLC 40 : Structure Di)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | Y | -6.56 | -6.56 | 0 | %100 |
| 2 | M3 | Y | -6.56 | -6.56 | 0 | %100 |
| 3 | M5 | Y | -6.56 | -6.56 | 0 | %100 |
| 4 | M13 | Y | -6.56 | -6.56 | 0 | %100 |
| 5 | M15 | Y | -6.56 | -6.56 | 0 | %100 |
| 6 | M17 | Y | -6.56 | -6.56 | 0 | %100 |
| 7 | M25 | Y | -6.56 | -6.56 | 0 | %100 |
| 8 | M27 | Y | -6.56 | -6.56 | 0 | %100 |
| 9 | M29 | Y | -6.56 | -6.56 | 0 | %100 |
| 10 | M37 | Y | -10.13 | -10.13 | 0 | %100 |
| 11 | M38 | Y | -10.13 | -10.13 | 0 | %100 |
| 12 | M39 | Y | -10.13 | -10.13 | 0 | %100 |
| 13 | M40 | Y | -7.607 | -7.607 | 0 | %100 |
| 14 | M41 | Y | -7.607 | -7.607 | 0 | %100 |
| 15 | M42 | Y | -7.607 | -7.607 | 0 | %100 |
| 16 | M43 | Y | -7.607 | -7.607 | 0 | %100 |
| 17 | M47 | Y | -7.607 | -7.607 | 0 | %100 |

## Member Distributed Loads (BLC 40 : Structure Di) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 18 | M51 | Y | -7.607 | -7.607 | 0 | %100 |
| 19 | M70 | Y | -8.675 | -8.675 | 0 | %100 |
| 20 | M109A | Y | -5.736 | -5.736 | 0 | %100 |
| 21 | M110A | Y | -5.736 | -5.736 | 0 | %100 |
| 22 | M111 | Y | -5.736 | -5.736 | 0 | %100 |
| 23 | M112A | Y | -5.736 | -5.736 | 0 | %100 |
| 24 | M113A | Y | -5.736 | -5.736 | 0 | %100 |
| 25 | M114 | Y | -5.736 | -5.736 | 0 | %100 |
| 26 | M37A | Y | -4.974 | -4.974 | 0 | %100 |
| 27 | M38A | Y | -4.974 | -4.974 | 0 | %100 |
| 28 | M39A | Y | -4.974 | -4.974 | 0 | %100 |
| 29 | MP4A | Y | -4.974 | -4.974 | 0 | %100 |
| 30 | MP2A | Y | -4.974 | -4.974 | 0 | %100 |
| 31 | MP1A | Y | -4.974 | -4.974 | 0 | %100 |
| 32 | MP3A | Y | -5.679 | -5.679 | 0 | %100 |
| 33 | MP4C | Y | -4.974 | -4.974 | 0 | %100 |
| 34 | MP2C | Y | -4.974 | -4.974 | 0 | %100 |
| 35 | MP1C | Y | -4.974 | -4.974 | 0 | %100 |
| 36 | MP3C | Y | -5.679 | -5.679 | 0 | %100 |
| 37 | MP4B | Y | -4.974 | -4.974 | 0 | %100 |
| 38 | MP2B | Y | -4.974 | -4.974 | 0 | %100 |
| 39 | MP1B | Y | -4.974 | -4.974 | 0 | %100 |
| 40 | MP3B | Y | -5.679 | -5.679 | 0 | %100 |
| 41 | M82 | Y | -6.61 | -6.61 | 0 | %100 |
| 42 | M83 | Y | -6.61 | -6.61 | 0 | %100 |
| 43 | M84 | Y | -6.61 | -6.61 | 0 | %100 |
| 44 | OVP | Y | -4.974 | -4.974 | 0 | %100 |
| 45 | M86 | Y | -8.675 | -8.675 | 0 | %100 |
| 46 | M88 | Y | -8.675 | -8.675 | 0 | %100 |

## Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | -9.743 | -9.743 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | -9.743 | -9.743 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | -9.588 | -9.588 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | -2.436 | -2.436 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | -2.436 | -2.436 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | -2.397 | -2.397 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | -2.436 | -2.436 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | -2.436 | -2.436 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | -2.397 | -2.397 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | -5.027 | -5.027 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | -5.027 | -5.027 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | -20.107 | -20.107 | 0 | %100 |

## Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 25 | M40 | X | 0 | 0 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | -7.345 | -7.345 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | -7.345 | -7.345 | 0 | %100 |
| 31 | M43 | X | 0 | 0 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | -6.694 | -6.694 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | -6.694 | -6.694 | 0 | %100 |
| 37 | M70 | X | 0 | 0 | 0 | %100 |
| 38 | M70 | Z | -13.228 | -13.228 | 0 | %100 |
| 39 | M109A | X | 0 | 0 | 0 | %100 |
| 40 | M109A | Z | -.195 | -.195 | 0 | %100 |
| 41 | M110A | X | 0 | 0 | 0 | %100 |
| 42 | M110A | Z | -.326 | -.326 | 0 | %100 |
| 43 | M111 | X | 0 | 0 | 0 | %100 |
| 44 | M111 | Z | -6.017 | -6.017 | 0 | %100 |
| 45 | M112A | X | 0 | 0 | 0 | %100 |
| 46 | M112A | Z | -6.741 | -6.741 | 0 | %100 |
| 47 | M113A | X | 0 | 0 | 0 | %100 |
| 48 | M113A | Z | -4.045 | -4.045 | 0 | %100 |
| 49 | M114 | X | 0 | 0 | 0 | %100 |
| 50 | M114 | Z | -10.029 | -10.029 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | -7.959 | -7.959 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | -1.99 | -1.99 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | -1.99 | -1.99 | 0 | %100 |
| 57 | MP4A | X | 0 | 0 | 0 | %100 |
| 58 | MP4A | Z | -7.959 | -7.959 | 0 | %100 |
| 59 | MP2A | X | 0 | 0 | 0 | %100 |
| 60 | MP2A | Z | -7.959 | -7.959 | 0 | %100 |
| 61 | MP1A | X | 0 | 0 | 0 | %100 |
| 62 | MP1A | Z | -7.959 | -7.959 | 0 | %100 |
| 63 | MP3A | X | 0 | 0 | 0 | %100 |
| 64 | MP3A | Z | -9.635 | -9.635 | 0 | %100 |
| 65 | MP4C | X | 0 | 0 | 0 | %100 |
| 66 | MP4C | Z | -7.959 | -7.959 | 0 | %100 |
| 67 | MP2C | X | 0 | 0 | 0 | %100 |
| 68 | MP2C | Z | -7.959 | -7.959 | 0 | %100 |
| 69 | MP1C | X | 0 | 0 | 0 | %100 |
| 70 | MP1C | Z | -7.959 | -7.959 | 0 | %100 |
| 71 | MP3C | X | 0 | 0 | 0 | %100 |
| 72 | MP3C | Z | -9.635 | -9.635 | 0 | %100 |
| 73 | MP4B | X | 0 | 0 | 0 | %100 |
| 74 | MP4B | Z | -7.959 | -7.959 | 0 | %100 |
| 75 | MP2B | X | 0 | 0 | 0 | %100 |
| 76 | MP2B | Z | -7.959 | -7.959 | 0 | %100 |
| 77 | MP1B | X | 0 | 0 | 0 | %100 |
| 78 | MP1B | Z | -7.959 | -7.959 | 0 | %100 |
| 79 | MP3B | X | 0 | 0 | 0 | %100 |
| 80 | MP3B | Z | -9.635 | -9.635 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 82 | M82 | Z | -2.402 | -2.402 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | -2.402 | -2.402 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | -9.607 | -9.607 | 0 | %100 |
| 87 | OVP | X | 0 | 0 | 0 | %100 |
| 88 | OVP | Z | -7.501 | -7.501 | 0 | %100 |
| 89 | M86 | X | 0 | 0 | 0 | %100 |
| 90 | M86 | Z | -13.228 | -13.228 | 0 | %100 |
| 91 | M88 | X | 0 | 0 | 0 | %100 |
| 92 | M88 | Z | -13.228 | -13.228 | 0 | %100 |

## Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 3.654 | 3.654 | 0 | %100 |
| 2 | M1 | Z | -6.328 | -6.328 | 0 | %100 |
| 3 | M3 | X | 3.654 | 3.654 | 0 | %100 |
| 4 | M3 | Z | -6.328 | -6.328 | 0 | %100 |
| 5 | M5 | X | 3.596 | 3.596 | 0 | %100 |
| 6 | M5 | Z | -6.228 | -6.228 | 0 | %100 |
| 7 | M13 | X | 3.654 | 3.654 | 0 | %100 |
| 8 | M13 | Z | -6.328 | -6.328 | 0 | %100 |
| 9 | M15 | X | 3.654 | 3.654 | 0 | %100 |
| 10 | M15 | Z | -6.328 | -6.328 | 0 | %100 |
| 11 | M17 | X | 3.596 | 3.596 | 0 | %100 |
| 12 | M17 | Z | -6.228 | -6.228 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | 7.54 | 7.54 | 0 | %100 |
| 20 | M37 | Z | -13.06 | -13.06 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 7.54 | 7.54 | 0 | %100 |
| 24 | M39 | Z | -13.06 | -13.06 | 0 | %100 |
| 25 | M40 | X | 1.224 | 1.224 | 0 | %100 |
| 26 | M40 | Z | -2.12 | -2.12 | 0 | %100 |
| 27 | M41 | X | 1.224 | 1.224 | 0 | %100 |
| 28 | M41 | Z | -2.12 | -2.12 | 0 | %100 |
| 29 | M42 | X | 4.897 | 4.897 | 0 | %100 |
| 30 | M42 | Z | -8.482 | -8.482 | 0 | %100 |
| 31 | M43 | X | 1.116 | 1.116 | 0 | %100 |
| 32 | M43 | Z | -1.932 | -1.932 | 0 | %100 |
| 33 | M47 | X | 1.116 | 1.116 | 0 | %100 |
| 34 | M47 | Z | -1.932 | -1.932 | 0 | %100 |
| 35 | M51 | X | 4.462 | 4.462 | 0 | %100 |
| 36 | M51 | Z | -7.729 | -7.729 | 0 | %100 |
| 37 | M70 | X | 6.666 | 6.666 | 0 | %100 |
| 38 | M70 | Z | -11.545 | -11.545 | 0 | %100 |
| 39 | M109A | X | .41 | .41 | 0 | %100 |
| 40 | M109A | Z | -.711 | -.711 | 0 | %100 |
| 41 | M110A | X | 2.328 | 2.328 | 0 | %100 |
| 42 | M110A | Z | -4.032 | -4.032 | 0 | %100 |

## Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 43 | M111 | X | 1.397 | 1.397 | 0 | %100 |
| 44 | M111 | Z | -2.419 | -2.419 | 0 | %100 |
| 45 | M112A | X | .684 | .684 | 0 | %100 |
| 46 | M112A | Z | -1.185 | -1.185 | 0 | %100 |
| 47 | M113A | X | 3.321 | 3.321 | 0 | %100 |
| 48 | M113A | Z | -5.753 | -5.753 | 0 | %100 |
| 49 | M114 | X | 5.536 | 5.536 | 0 | %100 |
| 50 | M114 | Z | -9.588 | -9.588 | 0 | %100 |
| 51 | M37A | X | 2.985 | 2.985 | 0 | %100 |
| 52 | M37A | Z | -5.17 | -5.17 | 0 | %100 |
| 53 | M38A | X | 2.985 | 2.985 | 0 | %100 |
| 54 | M38A | Z | -5.17 | -5.17 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | 3.98 | 3.98 | 0 | %100 |
| 58 | MP4A | Z | -6.893 | -6.893 | 0 | %100 |
| 59 | MP2A | X | 3.98 | 3.98 | 0 | %100 |
| 60 | MP2A | Z | -6.893 | -6.893 | 0 | %100 |
| 61 | MP1A | X | 3.98 | 3.98 | 0 | %100 |
| 62 | MP1A | Z | -6.893 | -6.893 | 0 | %100 |
| 63 | MP3A | X | 4.817 | 4.817 | 0 | %100 |
| 64 | MP3A | Z | -8.344 | -8.344 | 0 | %100 |
| 65 | MP4C | X | 3.98 | 3.98 | 0 | %100 |
| 66 | MP4C | Z | -6.893 | -6.893 | 0 | %100 |
| 67 | MP2C | X | 3.98 | 3.98 | 0 | %100 |
| 68 | MP2C | Z | -6.893 | -6.893 | 0 | %100 |
| 69 | MP1C | X | 3.98 | 3.98 | 0 | %100 |
| 70 | MP1C | Z | -6.893 | -6.893 | 0 | %100 |
| 71 | MP3C | X | 4.817 | 4.817 | 0 | %100 |
| 72 | MP3C | Z | -8.344 | -8.344 | 0 | %100 |
| 73 | MP4B | X | 3.98 | 3.98 | 0 | %100 |
| 74 | MP4B | Z | -6.893 | -6.893 | 0 | %100 |
| 75 | MP2B | X | 3.98 | 3.98 | 0 | %100 |
| 76 | MP2B | Z | -6.893 | -6.893 | 0 | %100 |
| 77 | MP1B | X | 3.98 | 3.98 | 0 | %100 |
| 78 | MP1B | Z | -6.893 | -6.893 | 0 | %100 |
| 79 | MP3B | X | 4.817 | 4.817 | 0 | %100 |
| 80 | MP3B | Z | -8.344 | -8.344 | 0 | %100 |
| 81 | M82 | X | 3.603 | 3.603 | 0 | %100 |
| 82 | M82 | Z | -6.24 | -6.24 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 3.603 | 3.603 | 0 | %100 |
| 86 | M84 | Z | -6.24 | -6.24 | 0 | %100 |
| 87 | OVP | X | 3.751 | 3.751 | 0 | %100 |
| 88 | OVP | Z | -6.496 | -6.496 | 0 | %100 |
| 89 | M86 | X | 6.666 | 6.666 | 0 | %100 |
| 90 | M86 | Z | -11.545 | -11.545 | 0 | %100 |
| 91 | M88 | X | 6.666 | 6.666 | 0 | %100 |
| 92 | M88 | Z | -11.545 | -11.545 | 0 | %100 |

## Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 2.109 | 2.109 | 0 | %100 |
| 2 | M1 | Z | -1.218 | -1.218 | 0 | %100 |
| 3 | M3 | X | 2.109 | 2.109 | 0 | %100 |

## Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 4 | M3 | Z | -1.218 | -1.218 | 0 | %100 |
| 5 | M5 | X | 2.076 | 2.076 | 0 | %100 |
| 6 | M5 | Z | -1.199 | -1.199 | 0 | %100 |
| 7 | M13 | X | 8.438 | 8.438 | 0 | %100 |
| 8 | M13 | Z | -4.872 | -4.872 | 0 | %100 |
| 9 | M15 | X | 8.438 | 8.438 | 0 | %100 |
| 10 | M15 | Z | -4.872 | -4.872 | 0 | %100 |
| 11 | M17 | X | 8.304 | 8.304 | 0 | %100 |
| 12 | M17 | Z | -4.794 | -4.794 | 0 | %100 |
| 13 | M25 | X | 2.109 | 2.109 | 0 | %100 |
| 14 | M25 | Z | -1.218 | -1.218 | 0 | %100 |
| 15 | M27 | X | 2.109 | 2.109 | 0 | %100 |
| 16 | M27 | Z | -1.218 | -1.218 | 0 | %100 |
| 17 | M29 | X | 2.076 | 2.076 | 0 | %100 |
| 18 | M29 | Z | -1.199 | -1.199 | 0 | %100 |
| 19 | M37 | X | 17.413 | 17.413 | 0 | %100 |
| 20 | M37 | Z | -10.054 | -10.054 | 0 | %100 |
| 21 | M38 | X | 4.353 | 4.353 | 0 | %100 |
| 22 | M38 | Z | -2.513 | -2.513 | 0 | %100 |
| 23 | M39 | X | 4.353 | 4.353 | 0 | %100 |
| 24 | M39 | Z | -2.513 | -2.513 | 0 | %100 |
| 25 | M40 | X | 6.361 | 6.361 | 0 | %100 |
| 26 | M40 | Z | -3.673 | -3.673 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | 6.361 | 6.361 | 0 | %100 |
| 30 | M42 | Z | -3.673 | -3.673 | 0 | %100 |
| 31 | M43 | X | 5.797 | 5.797 | 0 | %100 |
| 32 | M43 | Z | -3.347 | -3.347 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | 5.797 | 5.797 | 0 | %100 |
| 36 | M51 | Z | -3.347 | -3.347 | 0 | %100 |
| 37 | M70 | X | 11.724 | 11.724 | 0 | %100 |
| 38 | M70 | Z | -6.769 | -6.769 | 0 | %100 |
| 39 | M109A | X | 3.503 | 3.503 | 0 | %100 |
| 40 | M109A | Z | -2.022 | -2.022 | 0 | %100 |
| 41 | M110A | X | 8.685 | 8.685 | 0 | %100 |
| 42 | M110A | Z | -5.015 | -5.015 | 0 | %100 |
| 43 | M111 | X | .169 | .169 | 0 | %100 |
| 44 | M111 | Z | -.098 | -.098 | 0 | %100 |
| 45 | M112A | X | .282 | .282 | 0 | %100 |
| 46 | M112A | Z | -.163 | -.163 | 0 | %100 |
| 47 | M113A | X | 5.211 | 5.211 | 0 | %100 |
| 48 | M113A | Z | -3.009 | -3.009 | 0 | %100 |
| 49 | M114 | X | 5.838 | 5.838 | 0 | %100 |
| 50 | M114 | Z | -3.371 | -3.371 | 0 | %100 |
| 51 | M37A | X | 1.723 | 1.723 | 0 | %100 |
| 52 | M37A | Z | -.995 | -.995 | 0 | %100 |
| 53 | M38A | X | 6.893 | 6.893 | 0 | %100 |
| 54 | M38A | Z | -3.98 | -3.98 | 0 | %100 |
| 55 | M39A | X | 1.723 | 1.723 | 0 | %100 |
| 56 | M39A | Z | -.995 | -.995 | 0 | %100 |
| 57 | MP4A | X | 6.893 | 6.893 | 0 | %100 |
| 58 | MP4A | Z | -3.98 | -3.98 | 0 | %100 |
| 59 | MP2A | X | 6.893 | 6.893 | 0 | %100 |
| 60 | MP2A | Z | -3.98 | -3.98 | 0 | %100 |

## Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 61 | MP1A | X | 6.893 | 6.893 | 0 | %100 |
| 62 | MP1A | Z | -3.98 | -3.98 | 0 | %100 |
| 63 | MP3A | X | 8.344 | 8.344 | 0 | %100 |
| 64 | MP3A | Z | -4.817 | -4.817 | 0 | %100 |
| 65 | MP4C | X | 6.893 | 6.893 | 0 | %100 |
| 66 | MP4C | Z | -3.98 | -3.98 | 0 | %100 |
| 67 | MP2C | X | 6.893 | 6.893 | 0 | %100 |
| 68 | MP2C | Z | -3.98 | -3.98 | 0 | %100 |
| 69 | MP1C | X | 6.893 | 6.893 | 0 | %100 |
| 70 | MP1C | Z | -3.98 | -3.98 | 0 | %100 |
| 71 | MP3C | X | 8.344 | 8.344 | 0 | %100 |
| 72 | MP3C | Z | -4.817 | -4.817 | 0 | %100 |
| 73 | MP4B | X | 6.893 | 6.893 | 0 | %100 |
| 74 | MP4B | Z | -3.98 | -3.98 | 0 | %100 |
| 75 | MP2B | X | 6.893 | 6.893 | 0 | %100 |
| 76 | MP2B | Z | -3.98 | -3.98 | 0 | %100 |
| 77 | MP1B | X | 6.893 | 6.893 | 0 | %100 |
| 78 | MP1B | Z | -3.98 | -3.98 | 0 | %100 |
| 79 | MP3B | X | 8.344 | 8.344 | 0 | %100 |
| 80 | MP3B | Z | -4.817 | -4.817 | 0 | %100 |
| 81 | M82 | X | 8.32 | 8.32 | 0 | %100 |
| 82 | M82 | Z | -4.804 | -4.804 | 0 | %100 |
| 83 | M83 | X | 2.08 | 2.08 | 0 | %100 |
| 84 | M83 | Z | -1.201 | -1.201 | 0 | %100 |
| 85 | M84 | X | 2.08 | 2.08 | 0 | %100 |
| 86 | M84 | Z | -1.201 | -1.201 | 0 | %100 |
| 87 | OVP | X | 6.496 | 6.496 | 0 | %100 |
| 88 | OVP | Z | -3.751 | -3.751 | 0 | %100 |
| 89 | M86 | X | 11.724 | 11.724 | 0 | %100 |
| 90 | M86 | Z | -6.769 | -6.769 | 0 | %100 |
| 91 | M88 | X | 11.724 | 11.724 | 0 | %100 |
| 92 | M88 | Z | -6.769 | -6.769 | 0 | %100 |

## Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M13 | X | 7.307 | 7.307 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 7.307 | 7.307 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 7.191 | 7.191 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | 7.307 | 7.307 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 7.307 | 7.307 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 7.191 | 7.191 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | 15.08 | 15.08 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | 15.08 | 15.08 | 0 | %100 |

## Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 0 | 0 | 0 | %100 |
| 25 | M40 | X | 9.794 | 9.794 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 2.448 | 2.448 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | 2.448 | 2.448 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | 8.925 | 8.925 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 2.231 | 2.231 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | 2.231 | 2.231 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | 13.641 | 13.641 | 0 | %100 |
| 38 | M70 | Z | 0 | 0 | 0 | %100 |
| 39 | M109A | X | 6.643 | 6.643 | 0 | %100 |
| 40 | M109A | Z | 0 | 0 | 0 | %100 |
| 41 | M110A | X | 11.072 | 11.072 | 0 | %100 |
| 42 | M110A | Z | 0 | 0 | 0 | %100 |
| 43 | M111 | X | .821 | .821 | 0 | %100 |
| 44 | M111 | Z | 0 | 0 | 0 | %100 |
| 45 | M112A | X | 4.656 | 4.656 | 0 | %100 |
| 46 | M112A | Z | 0 | 0 | 0 | %100 |
| 47 | M113A | X | 2.794 | 2.794 | 0 | %100 |
| 48 | M113A | Z | 0 | 0 | 0 | %100 |
| 49 | M114 | X | 1.368 | 1.368 | 0 | %100 |
| 50 | M114 | Z | 0 | 0 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 0 | 0 | 0 | %100 |
| 53 | M38A | X | 5.969 | 5.969 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | 5.969 | 5.969 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | 7.959 | 7.959 | 0 | %100 |
| 58 | MP4A | Z | 0 | 0 | 0 | %100 |
| 59 | MP2A | X | 7.959 | 7.959 | 0 | %100 |
| 60 | MP2A | Z | 0 | 0 | 0 | %100 |
| 61 | MP1A | X | 7.959 | 7.959 | 0 | %100 |
| 62 | MP1A | Z | 0 | 0 | 0 | %100 |
| 63 | MP3A | X | 9.635 | 9.635 | 0 | %100 |
| 64 | MP3A | Z | 0 | 0 | 0 | %100 |
| 65 | MP4C | X | 7.959 | 7.959 | 0 | %100 |
| 66 | MP4C | Z | 0 | 0 | 0 | %100 |
| 67 | MP2C | X | 7.959 | 7.959 | 0 | %100 |
| 68 | MP2C | Z | 0 | 0 | 0 | %100 |
| 69 | MP1C | X | 7.959 | 7.959 | 0 | %100 |
| 70 | MP1C | Z | 0 | 0 | 0 | %100 |
| 71 | MP3C | X | 9.635 | 9.635 | 0 | %100 |
| 72 | MP3C | Z | 0 | 0 | 0 | %100 |
| 73 | MP4B | X | 7.959 | 7.959 | 0 | %100 |
| 74 | MP4B | Z | 0 | 0 | 0 | %100 |
| 75 | MP2B | X | 7.959 | 7.959 | 0 | %100 |
| 76 | MP2B | Z | 0 | 0 | 0 | %100 |
| 77 | MP1B | X | 7.959 | 7.959 | 0 | %100 |
| 78 | MP1B | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 79 | MP3B | X | 9.635 | 9.635 | 0 | %100 |
| 80 | MP3B | Z | 0 | 0 | 0 | %100 |
| 81 | M82 | X | 7.205 | 7.205 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | 7.205 | 7.205 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 0 | 0 | 0 | %100 |
| 87 | OVP | X | 7.501 | 7.501 | 0 | %100 |
| 88 | OVP | Z | 0 | 0 | 0 | %100 |
| 89 | M86 | X | 13.641 | 13.641 | 0 | %100 |
| 90 | M86 | Z | 0 | 0 | 0 | %100 |
| 91 | M88 | X | 13.641 | 13.641 | 0 | %100 |
| 92 | M88 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 2.109 | 2.109 | 0 | %100 |
| 2 | M1 | Z | 1.218 | 1.218 | 0 | %100 |
| 3 | M3 | X | 2.109 | 2.109 | 0 | %100 |
| 4 | M3 | Z | 1.218 | 1.218 | 0 | %100 |
| 5 | M5 | X | 2.076 | 2.076 | 0 | %100 |
| 6 | M5 | Z | 1.199 | 1.199 | 0 | %100 |
| 7 | M13 | X | 2.109 | 2.109 | 0 | %100 |
| 8 | M13 | Z | 1.218 | 1.218 | 0 | %100 |
| 9 | M15 | X | 2.109 | 2.109 | 0 | %100 |
| 10 | M15 | Z | 1.218 | 1.218 | 0 | %100 |
| 11 | M17 | X | 2.076 | 2.076 | 0 | %100 |
| 12 | M17 | Z | 1.199 | 1.199 | 0 | %100 |
| 13 | M25 | X | 8.438 | 8.438 | 0 | %100 |
| 14 | M25 | Z | 4.872 | 4.872 | 0 | %100 |
| 15 | M27 | X | 8.438 | 8.438 | 0 | %100 |
| 16 | M27 | Z | 4.872 | 4.872 | 0 | %100 |
| 17 | M29 | X | 8.304 | 8.304 | 0 | %100 |
| 18 | M29 | Z | 4.794 | 4.794 | 0 | %100 |
| 19 | M37 | X | 4.353 | 4.353 | 0 | %100 |
| 20 | M37 | Z | 2.513 | 2.513 | 0 | %100 |
| 21 | M38 | X | 17.413 | 17.413 | 0 | %100 |
| 22 | M38 | Z | 10.054 | 10.054 | 0 | %100 |
| 23 | M39 | X | 4.353 | 4.353 | 0 | %100 |
| 24 | M39 | Z | 2.513 | 2.513 | 0 | %100 |
| 25 | M40 | X | 6.361 | 6.361 | 0 | %100 |
| 26 | M40 | Z | 3.673 | 3.673 | 0 | %100 |
| 27 | M41 | X | 6.361 | 6.361 | 0 | %100 |
| 28 | M41 | Z | 3.673 | 3.673 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | 5.797 | 5.797 | 0 | %100 |
| 32 | M43 | Z | 3.347 | 3.347 | 0 | %100 |
| 33 | M47 | X | 5.797 | 5.797 | 0 | %100 |
| 34 | M47 | Z | 3.347 | 3.347 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | 11.724 | 11.724 | 0 | %100 |
| 38 | M70 | Z | 6.769 | 6.769 | 0 | %100 |
| 39 | M109A | X | 5.211 | 5.211 | 0 | %100 |

## Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 40 | M109A | Z | 3.009 | 3.009 | 0 | %100 |
| 41 | M110A | X | 5.838 | 5.838 | 0 | %100 |
| 42 | M110A | Z | 3.371 | 3.371 | 0 | %100 |
| 43 | M111 | X | 3.503 | 3.503 | 0 | %100 |
| 44 | M111 | Z | 2.022 | 2.022 | 0 | %100 |
| 45 | M112A | X | 8.685 | 8.685 | 0 | %100 |
| 46 | M112A | Z | 5.015 | 5.015 | 0 | %100 |
| 47 | M113A | X | .169 | .169 | 0 | %100 |
| 48 | M113A | Z | .098 | .098 | 0 | %100 |
| 49 | M114 | X | .282 | .282 | 0 | %100 |
| 50 | M114 | Z | .163 | .163 | 0 | %100 |
| 51 | M37A | X | 1.723 | 1.723 | 0 | %100 |
| 52 | M37A | Z | .995 | .995 | 0 | %100 |
| 53 | M38A | X | 1.723 | 1.723 | 0 | %100 |
| 54 | M38A | Z | .995 | .995 | 0 | %100 |
| 55 | M39A | X | 6.893 | 6.893 | 0 | %100 |
| 56 | M39A | Z | 3.98 | 3.98 | 0 | %100 |
| 57 | MP4A | X | 6.893 | 6.893 | 0 | %100 |
| 58 | MP4A | Z | 3.98 | 3.98 | 0 | %100 |
| 59 | MP2A | X | 6.893 | 6.893 | 0 | %100 |
| 60 | MP2A | Z | 3.98 | 3.98 | 0 | %100 |
| 61 | MP1A | X | 6.893 | 6.893 | 0 | %100 |
| 62 | MP1A | Z | 3.98 | 3.98 | 0 | %100 |
| 63 | MP3A | X | 8.344 | 8.344 | 0 | %100 |
| 64 | MP3A | Z | 4.817 | 4.817 | 0 | %100 |
| 65 | MP4C | X | 6.893 | 6.893 | 0 | %100 |
| 66 | MP4C | Z | 3.98 | 3.98 | 0 | %100 |
| 67 | MP2C | X | 6.893 | 6.893 | 0 | %100 |
| 68 | MP2C | Z | 3.98 | 3.98 | 0 | %100 |
| 69 | MP1C | X | 6.893 | 6.893 | 0 | %100 |
| 70 | MP1C | Z | 3.98 | 3.98 | 0 | %100 |
| 71 | MP3C | X | 8.344 | 8.344 | 0 | %100 |
| 72 | MP3C | Z | 4.817 | 4.817 | 0 | %100 |
| 73 | MP4B | X | 6.893 | 6.893 | 0 | %100 |
| 74 | MP4B | Z | 3.98 | 3.98 | 0 | %100 |
| 75 | MP2B | X | 6.893 | 6.893 | 0 | %100 |
| 76 | MP2B | Z | 3.98 | 3.98 | 0 | %100 |
| 77 | MP1B | X | 6.893 | 6.893 | 0 | %100 |
| 78 | MP1B | Z | 3.98 | 3.98 | 0 | %100 |
| 79 | MP3B | X | 8.344 | 8.344 | 0 | %100 |
| 80 | MP3B | Z | 4.817 | 4.817 | 0 | %100 |
| 81 | M82 | X | 2.08 | 2.08 | 0 | %100 |
| 82 | M82 | Z | 1.201 | 1.201 | 0 | %100 |
| 83 | M83 | X | 8.32 | 8.32 | 0 | %100 |
| 84 | M83 | Z | 4.804 | 4.804 | 0 | %100 |
| 85 | M84 | X | 2.08 | 2.08 | 0 | %100 |
| 86 | M84 | Z | 1.201 | 1.201 | 0 | %100 |
| 87 | OVP | X | 6.496 | 6.496 | 0 | %100 |
| 88 | OVP | Z | 3.751 | 3.751 | 0 | %100 |
| 89 | M86 | X | 11.724 | 11.724 | 0 | %100 |
| 90 | M86 | Z | 6.769 | 6.769 | 0 | %100 |
| 91 | M88 | X | 11.724 | 11.724 | 0 | %100 |
| 92 | M88 | Z | 6.769 | 6.769 | 0 | %100 |

## Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

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

## Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 3.654 | 3.654 | 0 | %100 |
| 2 | M1 | Z | 6.328 | 6.328 | 0 | %100 |
| 3 | M3 | X | 3.654 | 3.654 | 0 | %100 |
| 4 | M3 | Z | 6.328 | 6.328 | 0 | %100 |
| 5 | M5 | X | 3.596 | 3.596 | 0 | %100 |
| 6 | M5 | Z | 6.228 | 6.228 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | 3.654 | 3.654 | 0 | %100 |
| 14 | M25 | Z | 6.328 | 6.328 | 0 | %100 |
| 15 | M27 | X | 3.654 | 3.654 | 0 | %100 |
| 16 | M27 | Z | 6.328 | 6.328 | 0 | %100 |
| 17 | M29 | X | 3.596 | 3.596 | 0 | %100 |
| 18 | M29 | Z | 6.228 | 6.228 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | 7.54 | 7.54 | 0 | %100 |
| 22 | M38 | Z | 13.06 | 13.06 | 0 | %100 |
| 23 | M39 | X | 7.54 | 7.54 | 0 | %100 |
| 24 | M39 | Z | 13.06 | 13.06 | 0 | %100 |
| 25 | M40 | X | 1.224 | 1.224 | 0 | %100 |
| 26 | M40 | Z | 2.12 | 2.12 | 0 | %100 |
| 27 | M41 | X | 4.897 | 4.897 | 0 | %100 |
| 28 | M41 | Z | 8.482 | 8.482 | 0 | %100 |
| 29 | M42 | X | 1.224 | 1.224 | 0 | %100 |
| 30 | M42 | Z | 2.12 | 2.12 | 0 | %100 |
| 31 | M43 | X | 1.116 | 1.116 | 0 | %100 |
| 32 | M43 | Z | 1.932 | 1.932 | 0 | %100 |
| 33 | M47 | X | 4.462 | 4.462 | 0 | %100 |
| 34 | M47 | Z | 7.729 | 7.729 | 0 | %100 |
| 35 | M51 | X | 1.116 | 1.116 | 0 | %100 |
| 36 | M51 | Z | 1.932 | 1.932 | 0 | %100 |
| 37 | M70 | X | 6.666 | 6.666 | 0 | %100 |
| 38 | M70 | Z | 11.545 | 11.545 | 0 | %100 |
| 39 | M109A | X | 1.397 | 1.397 | 0 | %100 |
| 40 | M109A | Z | 2.419 | 2.419 | 0 | %100 |
| 41 | M110A | X | .684 | .684 | 0 | %100 |
| 42 | M110A | Z | 1.185 | 1.185 | 0 | %100 |
| 43 | M111 | X | 3.321 | 3.321 | 0 | %100 |
| 44 | M111 | Z | 5.753 | 5.753 | 0 | %100 |
| 45 | M112A | X | 5.536 | 5.536 | 0 | %100 |
| 46 | M112A | Z | 9.588 | 9.588 | 0 | %100 |
| 47 | M113A | X | .41 | .41 | 0 | %100 |
| 48 | M113A | Z | .711 | .711 | 0 | %100 |
| 49 | M114 | X | 2.328 | 2.328 | 0 | %100 |
| 50 | M114 | Z | 4.032 | 4.032 | 0 | %100 |
| 51 | M37A | X | 2.985 | 2.985 | 0 | %100 |
| 52 | M37A | Z | 5.17 | 5.17 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | 2.985 | 2.985 | 0 | %100 |
| 56 | M39A | Z | 5.17 | 5.17 | 0 | %100 |
| 57 | MP4A | X | 3.98 | 3.98 | 0 | %100 |

## Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | 6.893 | 6.893 | 0 | %100 |
| 59 | MP2A | X | 3.98 | 3.98 | 0 | %100 |
| 60 | MP2A | Z | 6.893 | 6.893 | 0 | %100 |
| 61 | MP1A | X | 3.98 | 3.98 | 0 | %100 |
| 62 | MP1A | Z | 6.893 | 6.893 | 0 | %100 |
| 63 | MP3A | X | 4.817 | 4.817 | 0 | %100 |
| 64 | MP3A | Z | 8.344 | 8.344 | 0 | %100 |
| 65 | MP4C | X | 3.98 | 3.98 | 0 | %100 |
| 66 | MP4C | Z | 6.893 | 6.893 | 0 | %100 |
| 67 | MP2C | X | 3.98 | 3.98 | 0 | %100 |
| 68 | MP2C | Z | 6.893 | 6.893 | 0 | %100 |
| 69 | MP1C | X | 3.98 | 3.98 | 0 | %100 |
| 70 | MP1C | Z | 6.893 | 6.893 | 0 | %100 |
| 71 | MP3C | X | 4.817 | 4.817 | 0 | %100 |
| 72 | MP3C | Z | 8.344 | 8.344 | 0 | %100 |
| 73 | MP4B | X | 3.98 | 3.98 | 0 | %100 |
| 74 | MP4B | Z | 6.893 | 6.893 | 0 | %100 |
| 75 | MP2B | X | 3.98 | 3.98 | 0 | %100 |
| 76 | MP2B | Z | 6.893 | 6.893 | 0 | %100 |
| 77 | MP1B | X | 3.98 | 3.98 | 0 | %100 |
| 78 | MP1B | Z | 6.893 | 6.893 | 0 | %100 |
| 79 | MP3B | X | 4.817 | 4.817 | 0 | %100 |
| 80 | MP3B | Z | 8.344 | 8.344 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | 3.603 | 3.603 | 0 | %100 |
| 84 | M83 | Z | 6.24 | 6.24 | 0 | %100 |
| 85 | M84 | X | 3.603 | 3.603 | 0 | %100 |
| 86 | M84 | Z | 6.24 | 6.24 | 0 | %100 |
| 87 | OVP | X | 3.751 | 3.751 | 0 | %100 |
| 88 | OVP | Z | 6.496 | 6.496 | 0 | %100 |
| 89 | M86 | X | 6.666 | 6.666 | 0 | %100 |
| 90 | M86 | Z | 11.545 | 11.545 | 0 | %100 |
| 91 | M88 | X | 6.666 | 6.666 | 0 | %100 |
| 92 | M88 | Z | 11.545 | 11.545 | 0 | %100 |

## Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 9.743 | 9.743 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 9.743 | 9.743 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 9.588 | 9.588 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 2.436 | 2.436 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 2.436 | 2.436 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 2.397 | 2.397 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 2.436 | 2.436 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 2.436 | 2.436 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 2.397 | 2.397 | 0 | %100 |

## Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 5.027 | 5.027 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 5.027 | 5.027 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 20.107 | 20.107 | 0 | %100 |
| 25 | M40 | X | 0 | 0 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 7.345 | 7.345 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 7.345 | 7.345 | 0 | %100 |
| 31 | M43 | X | 0 | 0 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 6.694 | 6.694 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 6.694 | 6.694 | 0 | %100 |
| 37 | M70 | X | 0 | 0 | 0 | %100 |
| 38 | M70 | Z | 13.228 | 13.228 | 0 | %100 |
| 39 | M109A | X | 0 | 0 | 0 | %100 |
| 40 | M109A | Z | .195 | .195 | 0 | %100 |
| 41 | M110A | X | 0 | 0 | 0 | %100 |
| 42 | M110A | Z | .326 | .326 | 0 | %100 |
| 43 | M111 | X | 0 | 0 | 0 | %100 |
| 44 | M111 | Z | 6.017 | 6.017 | 0 | %100 |
| 45 | M112A | X | 0 | 0 | 0 | %100 |
| 46 | M112A | Z | 6.741 | 6.741 | 0 | %100 |
| 47 | M113A | X | 0 | 0 | 0 | %100 |
| 48 | M113A | Z | 4.045 | 4.045 | 0 | %100 |
| 49 | M114 | X | 0 | 0 | 0 | %100 |
| 50 | M114 | Z | 10.029 | 10.029 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 7.959 | 7.959 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 1.99 | 1.99 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 1.99 | 1.99 | 0 | %100 |
| 57 | MP4A | X | 0 | 0 | 0 | %100 |
| 58 | MP4A | Z | 7.959 | 7.959 | 0 | %100 |
| 59 | MP2A | X | 0 | 0 | 0 | %100 |
| 60 | MP2A | Z | 7.959 | 7.959 | 0 | %100 |
| 61 | MP1A | X | 0 | 0 | 0 | %100 |
| 62 | MP1A | Z | 7.959 | 7.959 | 0 | %100 |
| 63 | MP3A | X | 0 | 0 | 0 | %100 |
| 64 | MP3A | Z | 9.635 | 9.635 | 0 | %100 |
| 65 | MP4C | X | 0 | 0 | 0 | %100 |
| 66 | MP4C | Z | 7.959 | 7.959 | 0 | %100 |
| 67 | MP2C | X | 0 | 0 | 0 | %100 |
| 68 | MP2C | Z | 7.959 | 7.959 | 0 | %100 |
| 69 | MP1C | X | 0 | 0 | 0 | %100 |
| 70 | MP1C | Z | 7.959 | 7.959 | 0 | %100 |
| 71 | MP3C | X | 0 | 0 | 0 | %100 |
| 72 | MP3C | Z | 9.635 | 9.635 | 0 | %100 |
| 73 | MP4B | X | 0 | 0 | 0 | %100 |
| 74 | MP4B | Z | 7.959 | 7.959 | 0 | %100 |
| 75 | MP2B | X | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 7.959 | 7.959 | 0 | %100 |
| 77 | MP1B | X | 0 | 0 | 0 | %100 |
| 78 | MP1B | Z | 7.959 | 7.959 | 0 | %100 |
| 79 | MP3B | X | 0 | 0 | 0 | %100 |
| 80 | MP3B | Z | 9.635 | 9.635 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 2.402 | 2.402 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 2.402 | 2.402 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 9.607 | 9.607 | 0 | %100 |
| 87 | OVP | X | 0 | 0 | 0 | %100 |
| 88 | OVP | Z | 7.501 | 7.501 | 0 | %100 |
| 89 | M86 | X | 0 | 0 | 0 | %100 |
| 90 | M86 | Z | 13.228 | 13.228 | 0 | %100 |
| 91 | M88 | X | 0 | 0 | 0 | %100 |
| 92 | M88 | Z | 13.228 | 13.228 | 0 | %100 |

## Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -3.654 | -3.654 | 0 | %100 |
| 2 | M1 | Z | 6.328 | 6.328 | 0 | %100 |
| 3 | M3 | X | -3.654 | -3.654 | 0 | %100 |
| 4 | M3 | Z | 6.328 | 6.328 | 0 | %100 |
| 5 | M5 | X | -3.596 | -3.596 | 0 | %100 |
| 6 | M5 | Z | 6.228 | 6.228 | 0 | %100 |
| 7 | M13 | X | -3.654 | -3.654 | 0 | %100 |
| 8 | M13 | Z | 6.328 | 6.328 | 0 | %100 |
| 9 | M15 | X | -3.654 | -3.654 | 0 | %100 |
| 10 | M15 | Z | 6.328 | 6.328 | 0 | %100 |
| 11 | M17 | X | -3.596 | -3.596 | 0 | %100 |
| 12 | M17 | Z | 6.228 | 6.228 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | -7.54 | -7.54 | 0 | %100 |
| 20 | M37 | Z | 13.06 | 13.06 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | -7.54 | -7.54 | 0 | %100 |
| 24 | M39 | Z | 13.06 | 13.06 | 0 | %100 |
| 25 | M40 | X | -1.224 | -1.224 | 0 | %100 |
| 26 | M40 | Z | 2.12 | 2.12 | 0 | %100 |
| 27 | M41 | X | -1.224 | -1.224 | 0 | %100 |
| 28 | M41 | Z | 2.12 | 2.12 | 0 | %100 |
| 29 | M42 | X | -4.897 | -4.897 | 0 | %100 |
| 30 | M42 | Z | 8.482 | 8.482 | 0 | %100 |
| 31 | M43 | X | -1.116 | -1.116 | 0 | %100 |
| 32 | M43 | Z | 1.932 | 1.932 | 0 | %100 |
| 33 | M47 | X | -1.116 | -1.116 | 0 | %100 |
| 34 | M47 | Z | 1.932 | 1.932 | 0 | %100 |
| 35 | M51 | X | -4.462 | -4.462 | 0 | %100 |
| 36 | M51 | Z | 7.729 | 7.729 | 0 | %100 |

## Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | -6.666 | -6.666 | 0 | %100 |
| 38 | M70 | Z | 11.545 | 11.545 | 0 | %100 |
| 39 | M109A | X | -.41 | -.41 | 0 | %100 |
| 40 | M109A | Z | .711 | .711 | 0 | %100 |
| 41 | M110A | X | -2.328 | -2.328 | 0 | %100 |
| 42 | M110A | Z | 4.032 | 4.032 | 0 | %100 |
| 43 | M111 | X | -1.397 | -1.397 | 0 | %100 |
| 44 | M111 | Z | 2.419 | 2.419 | 0 | %100 |
| 45 | M112A | X | -.684 | -.684 | 0 | %100 |
| 46 | M112A | Z | 1.185 | 1.185 | 0 | %100 |
| 47 | M113A | X | -3.321 | -3.321 | 0 | %100 |
| 48 | M113A | Z | 5.753 | 5.753 | 0 | %100 |
| 49 | M114 | X | -5.536 | -5.536 | 0 | %100 |
| 50 | M114 | Z | 9.588 | 9.588 | 0 | %100 |
| 51 | M37A | X | -2.985 | -2.985 | 0 | %100 |
| 52 | M37A | Z | 5.17 | 5.17 | 0 | %100 |
| 53 | M38A | X | -2.985 | -2.985 | 0 | %100 |
| 54 | M38A | Z | 5.17 | 5.17 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | -3.98 | -3.98 | 0 | %100 |
| 58 | MP4A | Z | 6.893 | 6.893 | 0 | %100 |
| 59 | MP2A | X | -3.98 | -3.98 | 0 | %100 |
| 60 | MP2A | Z | 6.893 | 6.893 | 0 | %100 |
| 61 | MP1A | X | -3.98 | -3.98 | 0 | %100 |
| 62 | MP1A | Z | 6.893 | 6.893 | 0 | %100 |
| 63 | MP3A | X | -4.817 | -4.817 | 0 | %100 |
| 64 | MP3A | Z | 8.344 | 8.344 | 0 | %100 |
| 65 | MP4C | X | -3.98 | -3.98 | 0 | %100 |
| 66 | MP4C | Z | 6.893 | 6.893 | 0 | %100 |
| 67 | MP2C | X | -3.98 | -3.98 | 0 | %100 |
| 68 | MP2C | Z | 6.893 | 6.893 | 0 | %100 |
| 69 | MP1C | X | -3.98 | -3.98 | 0 | %100 |
| 70 | MP1C | Z | 6.893 | 6.893 | 0 | %100 |
| 71 | MP3C | X | -4.817 | -4.817 | 0 | %100 |
| 72 | MP3C | Z | 8.344 | 8.344 | 0 | %100 |
| 73 | MP4B | X | -3.98 | -3.98 | 0 | %100 |
| 74 | MP4B | Z | 6.893 | 6.893 | 0 | %100 |
| 75 | MP2B | X | -3.98 | -3.98 | 0 | %100 |
| 76 | MP2B | Z | 6.893 | 6.893 | 0 | %100 |
| 77 | MP1B | X | -3.98 | -3.98 | 0 | %100 |
| 78 | MP1B | Z | 6.893 | 6.893 | 0 | %100 |
| 79 | MP3B | X | -4.817 | -4.817 | 0 | %100 |
| 80 | MP3B | Z | 8.344 | 8.344 | 0 | %100 |
| 81 | M82 | X | -3.603 | -3.603 | 0 | %100 |
| 82 | M82 | Z | 6.24 | 6.24 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | -3.603 | -3.603 | 0 | %100 |
| 86 | M84 | Z | 6.24 | 6.24 | 0 | %100 |
| 87 | OVP | X | -3.751 | -3.751 | 0 | %100 |
| 88 | OVP | Z | 6.496 | 6.496 | 0 | %100 |
| 89 | M86 | X | -6.666 | -6.666 | 0 | %100 |
| 90 | M86 | Z | 11.545 | 11.545 | 0 | %100 |
| 91 | M88 | X | -6.666 | -6.666 | 0 | %100 |
| 92 | M88 | Z | 11.545 | 11.545 | 0 | %100 |

## Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -2.109 | -2.109 | 0 | %100 |
| 2 | M1 | Z | 1.218 | 1.218 | 0 | %100 |
| 3 | M3 | X | -2.109 | -2.109 | 0 | %100 |
| 4 | M3 | Z | 1.218 | 1.218 | 0 | %100 |
| 5 | M5 | X | -2.076 | -2.076 | 0 | %100 |
| 6 | M5 | Z | 1.199 | 1.199 | 0 | %100 |
| 7 | M13 | X | -8.438 | -8.438 | 0 | %100 |
| 8 | M13 | Z | 4.872 | 4.872 | 0 | %100 |
| 9 | M15 | X | -8.438 | -8.438 | 0 | %100 |
| 10 | M15 | Z | 4.872 | 4.872 | 0 | %100 |
| 11 | M17 | X | -8.304 | -8.304 | 0 | %100 |
| 12 | M17 | Z | 4.794 | 4.794 | 0 | %100 |
| 13 | M25 | X | -2.109 | -2.109 | 0 | %100 |
| 14 | M25 | Z | 1.218 | 1.218 | 0 | %100 |
| 15 | M27 | X | -2.109 | -2.109 | 0 | %100 |
| 16 | M27 | Z | 1.218 | 1.218 | 0 | %100 |
| 17 | M29 | X | -2.076 | -2.076 | 0 | %100 |
| 18 | M29 | Z | 1.199 | 1.199 | 0 | %100 |
| 19 | M37 | X | -17.413 | -17.413 | 0 | %100 |
| 20 | M37 | Z | 10.054 | 10.054 | 0 | %100 |
| 21 | M38 | X | -4.353 | -4.353 | 0 | %100 |
| 22 | M38 | Z | 2.513 | 2.513 | 0 | %100 |
| 23 | M39 | X | -4.353 | -4.353 | 0 | %100 |
| 24 | M39 | Z | 2.513 | 2.513 | 0 | %100 |
| 25 | M40 | X | -6.361 | -6.361 | 0 | %100 |
| 26 | M40 | Z | 3.673 | 3.673 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | -6.361 | -6.361 | 0 | %100 |
| 30 | M42 | Z | 3.673 | 3.673 | 0 | %100 |
| 31 | M43 | X | -5.797 | -5.797 | 0 | %100 |
| 32 | M43 | Z | 3.347 | 3.347 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | -5.797 | -5.797 | 0 | %100 |
| 36 | M51 | Z | 3.347 | 3.347 | 0 | %100 |
| 37 | M70 | X | -11.724 | -11.724 | 0 | %100 |
| 38 | M70 | Z | 6.769 | 6.769 | 0 | %100 |
| 39 | M109A | X | -3.503 | -3.503 | 0 | %100 |
| 40 | M109A | Z | 2.022 | 2.022 | 0 | %100 |
| 41 | M110A | X | -8.685 | -8.685 | 0 | %100 |
| 42 | M110A | Z | 5.015 | 5.015 | 0 | %100 |
| 43 | M111 | X | -.169 | -.169 | 0 | %100 |
| 44 | M111 | Z | .098 | .098 | 0 | %100 |
| 45 | M112A | X | -.282 | -.282 | 0 | %100 |
| 46 | M112A | Z | .163 | .163 | 0 | %100 |
| 47 | M113A | X | -5.211 | -5.211 | 0 | %100 |
| 48 | M113A | Z | 3.009 | 3.009 | 0 | %100 |
| 49 | M114 | X | -5.838 | -5.838 | 0 | %100 |
| 50 | M114 | Z | 3.371 | 3.371 | 0 | %100 |
| 51 | M37A | X | -1.723 | -1.723 | 0 | %100 |
| 52 | M37A | Z | .995 | .995 | 0 | %100 |
| 53 | M38A | X | -6.893 | -6.893 | 0 | %100 |
| 54 | M38A | Z | 3.98 | 3.98 | 0 | %100 |
| 55 | M39A | X | -1.723 | -1.723 | 0 | %100 |
| 56 | M39A | Z | .995 | .995 | 0 | %100 |
| 57 | MP4A | X | -6.893 | -6.893 | 0 | %100 |

## Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | 3.98 | 3.98 | 0 | %100 |
| 59 | MP2A | X | -6.893 | -6.893 | 0 | %100 |
| 60 | MP2A | Z | 3.98 | 3.98 | 0 | %100 |
| 61 | MP1A | X | -6.893 | -6.893 | 0 | %100 |
| 62 | MP1A | Z | 3.98 | 3.98 | 0 | %100 |
| 63 | MP3A | X | -8.344 | -8.344 | 0 | %100 |
| 64 | MP3A | Z | 4.817 | 4.817 | 0 | %100 |
| 65 | MP4C | X | -6.893 | -6.893 | 0 | %100 |
| 66 | MP4C | Z | 3.98 | 3.98 | 0 | %100 |
| 67 | MP2C | X | -6.893 | -6.893 | 0 | %100 |
| 68 | MP2C | Z | 3.98 | 3.98 | 0 | %100 |
| 69 | MP1C | X | -6.893 | -6.893 | 0 | %100 |
| 70 | MP1C | Z | 3.98 | 3.98 | 0 | %100 |
| 71 | MP3C | X | -8.344 | -8.344 | 0 | %100 |
| 72 | MP3C | Z | 4.817 | 4.817 | 0 | %100 |
| 73 | MP4B | X | -6.893 | -6.893 | 0 | %100 |
| 74 | MP4B | Z | 3.98 | 3.98 | 0 | %100 |
| 75 | MP2B | X | -6.893 | -6.893 | 0 | %100 |
| 76 | MP2B | Z | 3.98 | 3.98 | 0 | %100 |
| 77 | MP1B | X | -6.893 | -6.893 | 0 | %100 |
| 78 | MP1B | Z | 3.98 | 3.98 | 0 | %100 |
| 79 | MP3B | X | -8.344 | -8.344 | 0 | %100 |
| 80 | MP3B | Z | 4.817 | 4.817 | 0 | %100 |
| 81 | M82 | X | -8.32 | -8.32 | 0 | %100 |
| 82 | M82 | Z | 4.804 | 4.804 | 0 | %100 |
| 83 | M83 | X | -2.08 | -2.08 | 0 | %100 |
| 84 | M83 | Z | 1.201 | 1.201 | 0 | %100 |
| 85 | M84 | X | -2.08 | -2.08 | 0 | %100 |
| 86 | M84 | Z | 1.201 | 1.201 | 0 | %100 |
| 87 | OVP | X | -6.496 | -6.496 | 0 | %100 |
| 88 | OVP | Z | 3.751 | 3.751 | 0 | %100 |
| 89 | M86 | X | -11.724 | -11.724 | 0 | %100 |
| 90 | M86 | Z | 6.769 | 6.769 | 0 | %100 |
| 91 | M88 | X | -11.724 | -11.724 | 0 | %100 |
| 92 | M88 | Z | 6.769 | 6.769 | 0 | %100 |

## Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M13 | X | -7.307 | -7.307 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | -7.307 | -7.307 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | -7.191 | -7.191 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | -7.307 | -7.307 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | -7.307 | -7.307 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | -7.191 | -7.191 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | -15.08 | -15.08 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | -15.08 | -15.08 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 0 | 0 | 0 | %100 |
| 25 | M40 | X | -9.794 | -9.794 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | -2.448 | -2.448 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | -2.448 | -2.448 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | -8.925 | -8.925 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | -2.231 | -2.231 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | -2.231 | -2.231 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | -13.641 | -13.641 | 0 | %100 |
| 38 | M70 | Z | 0 | 0 | 0 | %100 |
| 39 | M109A | X | -6.643 | -6.643 | 0 | %100 |
| 40 | M109A | Z | 0 | 0 | 0 | %100 |
| 41 | M110A | X | -11.072 | -11.072 | 0 | %100 |
| 42 | M110A | Z | 0 | 0 | 0 | %100 |
| 43 | M111 | X | -.821 | -.821 | 0 | %100 |
| 44 | M111 | Z | 0 | 0 | 0 | %100 |
| 45 | M112A | X | -4.656 | -4.656 | 0 | %100 |
| 46 | M112A | Z | 0 | 0 | 0 | %100 |
| 47 | M113A | X | -2.794 | -2.794 | 0 | %100 |
| 48 | M113A | Z | 0 | 0 | 0 | %100 |
| 49 | M114 | X | -1.368 | -1.368 | 0 | %100 |
| 50 | M114 | Z | 0 | 0 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 0 | 0 | 0 | %100 |
| 53 | M38A | X | -5.969 | -5.969 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | -5.969 | -5.969 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | -7.959 | -7.959 | 0 | %100 |
| 58 | MP4A | Z | 0 | 0 | 0 | %100 |
| 59 | MP2A | X | -7.959 | -7.959 | 0 | %100 |
| 60 | MP2A | Z | 0 | 0 | 0 | %100 |
| 61 | MP1A | X | -7.959 | -7.959 | 0 | %100 |
| 62 | MP1A | Z | 0 | 0 | 0 | %100 |
| 63 | MP3A | X | -9.635 | -9.635 | 0 | %100 |
| 64 | MP3A | Z | 0 | 0 | 0 | %100 |
| 65 | MP4C | X | -7.959 | -7.959 | 0 | %100 |
| 66 | MP4C | Z | 0 | 0 | 0 | %100 |
| 67 | MP2C | X | -7.959 | -7.959 | 0 | %100 |
| 68 | MP2C | Z | 0 | 0 | 0 | %100 |
| 69 | MP1C | X | -7.959 | -7.959 | 0 | %100 |
| 70 | MP1C | Z | 0 | 0 | 0 | %100 |
| 71 | MP3C | X | -9.635 | -9.635 | 0 | %100 |
| 72 | MP3C | Z | 0 | 0 | 0 | %100 |
| 73 | MP4B | X | -7.959 | -7.959 | 0 | %100 |
| 74 | MP4B | Z | 0 | 0 | 0 | %100 |
| 75 | MP2B | X | -7.959 | -7.959 | 0 | %100 |

## Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 0 | 0 | 0 | %100 |
| 77 | MP1B | X | -7.959 | -7.959 | 0 | %100 |
| 78 | MP1B | Z | 0 | 0 | 0 | %100 |
| 79 | MP3B | X | -9.635 | -9.635 | 0 | %100 |
| 80 | MP3B | Z | 0 | 0 | 0 | %100 |
| 81 | M82 | X | -7.205 | -7.205 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | -7.205 | -7.205 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 0 | 0 | 0 | %100 |
| 87 | OVP | X | -7.501 | -7.501 | 0 | %100 |
| 88 | OVP | Z | 0 | 0 | 0 | %100 |
| 89 | M86 | X | -13.641 | -13.641 | 0 | %100 |
| 90 | M86 | Z | 0 | 0 | 0 | %100 |
| 91 | M88 | X | -13.641 | -13.641 | 0 | %100 |
| 92 | M88 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -2.109 | -2.109 | 0 | %100 |
| 2 | M1 | Z | -1.218 | -1.218 | 0 | %100 |
| 3 | M3 | X | -2.109 | -2.109 | 0 | %100 |
| 4 | M3 | Z | -1.218 | -1.218 | 0 | %100 |
| 5 | M5 | X | -2.076 | -2.076 | 0 | %100 |
| 6 | M5 | Z | -1.199 | -1.199 | 0 | %100 |
| 7 | M13 | X | -2.109 | -2.109 | 0 | %100 |
| 8 | M13 | Z | -1.218 | -1.218 | 0 | %100 |
| 9 | M15 | X | -2.109 | -2.109 | 0 | %100 |
| 10 | M15 | Z | -1.218 | -1.218 | 0 | %100 |
| 11 | M17 | X | -2.076 | -2.076 | 0 | %100 |
| 12 | M17 | Z | -1.199 | -1.199 | 0 | %100 |
| 13 | M25 | X | -8.438 | -8.438 | 0 | %100 |
| 14 | M25 | Z | -4.872 | -4.872 | 0 | %100 |
| 15 | M27 | X | -8.438 | -8.438 | 0 | %100 |
| 16 | M27 | Z | -4.872 | -4.872 | 0 | %100 |
| 17 | M29 | X | -8.304 | -8.304 | 0 | %100 |
| 18 | M29 | Z | -4.794 | -4.794 | 0 | %100 |
| 19 | M37 | X | -4.353 | -4.353 | 0 | %100 |
| 20 | M37 | Z | -2.513 | -2.513 | 0 | %100 |
| 21 | M38 | X | -17.413 | -17.413 | 0 | %100 |
| 22 | M38 | Z | -10.054 | -10.054 | 0 | %100 |
| 23 | M39 | X | -4.353 | -4.353 | 0 | %100 |
| 24 | M39 | Z | -2.513 | -2.513 | 0 | %100 |
| 25 | M40 | X | -6.361 | -6.361 | 0 | %100 |
| 26 | M40 | Z | -3.673 | -3.673 | 0 | %100 |
| 27 | M41 | X | -6.361 | -6.361 | 0 | %100 |
| 28 | M41 | Z | -3.673 | -3.673 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | -5.797 | -5.797 | 0 | %100 |
| 32 | M43 | Z | -3.347 | -3.347 | 0 | %100 |
| 33 | M47 | X | -5.797 | -5.797 | 0 | %100 |
| 34 | M47 | Z | -3.347 | -3.347 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | -11.724 | -11.724 | 0 | %100 |
| 38 | M70 | Z | -6.769 | -6.769 | 0 | %100 |
| 39 | M109A | X | -5.211 | -5.211 | 0 | %100 |
| 40 | M109A | Z | -3.009 | -3.009 | 0 | %100 |
| 41 | M110A | X | -5.838 | -5.838 | 0 | %100 |
| 42 | M110A | Z | -3.371 | -3.371 | 0 | %100 |
| 43 | M111 | X | -3.503 | -3.503 | 0 | %100 |
| 44 | M111 | Z | -2.022 | -2.022 | 0 | %100 |
| 45 | M112A | X | -8.685 | -8.685 | 0 | %100 |
| 46 | M112A | Z | -5.015 | -5.015 | 0 | %100 |
| 47 | M113A | X | -.169 | -.169 | 0 | %100 |
| 48 | M113A | Z | -.098 | -.098 | 0 | %100 |
| 49 | M114 | X | -.282 | -.282 | 0 | %100 |
| 50 | M114 | Z | -.163 | -.163 | 0 | %100 |
| 51 | M37A | X | -1.723 | -1.723 | 0 | %100 |
| 52 | M37A | Z | -.995 | -.995 | 0 | %100 |
| 53 | M38A | X | -1.723 | -1.723 | 0 | %100 |
| 54 | M38A | Z | -.995 | -.995 | 0 | %100 |
| 55 | M39A | X | -6.893 | -6.893 | 0 | %100 |
| 56 | M39A | Z | -3.98 | -3.98 | 0 | %100 |
| 57 | MP4A | X | -6.893 | -6.893 | 0 | %100 |
| 58 | MP4A | Z | -3.98 | -3.98 | 0 | %100 |
| 59 | MP2A | X | -6.893 | -6.893 | 0 | %100 |
| 60 | MP2A | Z | -3.98 | -3.98 | 0 | %100 |
| 61 | MP1A | X | -6.893 | -6.893 | 0 | %100 |
| 62 | MP1A | Z | -3.98 | -3.98 | 0 | %100 |
| 63 | MP3A | X | -8.344 | -8.344 | 0 | %100 |
| 64 | MP3A | Z | -4.817 | -4.817 | 0 | %100 |
| 65 | MP4C | X | -6.893 | -6.893 | 0 | %100 |
| 66 | MP4C | Z | -3.98 | -3.98 | 0 | %100 |
| 67 | MP2C | X | -6.893 | -6.893 | 0 | %100 |
| 68 | MP2C | Z | -3.98 | -3.98 | 0 | %100 |
| 69 | MP1C | X | -6.893 | -6.893 | 0 | %100 |
| 70 | MP1C | Z | -3.98 | -3.98 | 0 | %100 |
| 71 | MP3C | X | -8.344 | -8.344 | 0 | %100 |
| 72 | MP3C | Z | -4.817 | -4.817 | 0 | %100 |
| 73 | MP4B | X | -6.893 | -6.893 | 0 | %100 |
| 74 | MP4B | Z | -3.98 | -3.98 | 0 | %100 |
| 75 | MP2B | X | -6.893 | -6.893 | 0 | %100 |
| 76 | MP2B | Z | -3.98 | -3.98 | 0 | %100 |
| 77 | MP1B | X | -6.893 | -6.893 | 0 | %100 |
| 78 | MP1B | Z | -3.98 | -3.98 | 0 | %100 |
| 79 | MP3B | X | -8.344 | -8.344 | 0 | %100 |
| 80 | MP3B | Z | -4.817 | -4.817 | 0 | %100 |
| 81 | M82 | X | -2.08 | -2.08 | 0 | %100 |
| 82 | M82 | Z | -1.201 | -1.201 | 0 | %100 |
| 83 | M83 | X | -8.32 | -8.32 | 0 | %100 |
| 84 | M83 | Z | -4.804 | -4.804 | 0 | %100 |
| 85 | M84 | X | -2.08 | -2.08 | 0 | %100 |
| 86 | M84 | Z | -1.201 | -1.201 | 0 | %100 |
| 87 | OVP | X | -6.496 | -6.496 | 0 | %100 |
| 88 | OVP | Z | -3.751 | -3.751 | 0 | %100 |
| 89 | M86 | X | -11.724 | -11.724 | 0 | %100 |
| 90 | M86 | Z | -6.769 | -6.769 | 0 | %100 |
| 91 | M88 | X | -11.724 | -11.724 | 0 | %100 |
| 92 | M88 | Z | -6.769 | -6.769 | 0 | %100 |

## Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -3.654 | -3.654 | 0 | %100 |
| 2 | M1 | Z | -6.328 | -6.328 | 0 | %100 |
| 3 | M3 | X | -3.654 | -3.654 | 0 | %100 |
| 4 | M3 | Z | -6.328 | -6.328 | 0 | %100 |
| 5 | M5 | X | -3.596 | -3.596 | 0 | %100 |
| 6 | M5 | Z | -6.228 | -6.228 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | -3.654 | -3.654 | 0 | %100 |
| 14 | M25 | Z | -6.328 | -6.328 | 0 | %100 |
| 15 | M27 | X | -3.654 | -3.654 | 0 | %100 |
| 16 | M27 | Z | -6.328 | -6.328 | 0 | %100 |
| 17 | M29 | X | -3.596 | -3.596 | 0 | %100 |
| 18 | M29 | Z | -6.228 | -6.228 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | -7.54 | -7.54 | 0 | %100 |
| 22 | M38 | Z | -13.06 | -13.06 | 0 | %100 |
| 23 | M39 | X | -7.54 | -7.54 | 0 | %100 |
| 24 | M39 | Z | -13.06 | -13.06 | 0 | %100 |
| 25 | M40 | X | -1.224 | -1.224 | 0 | %100 |
| 26 | M40 | Z | -2.12 | -2.12 | 0 | %100 |
| 27 | M41 | X | -4.897 | -4.897 | 0 | %100 |
| 28 | M41 | Z | -8.482 | -8.482 | 0 | %100 |
| 29 | M42 | X | -1.224 | -1.224 | 0 | %100 |
| 30 | M42 | Z | -2.12 | -2.12 | 0 | %100 |
| 31 | M43 | X | -1.116 | -1.116 | 0 | %100 |
| 32 | M43 | Z | -1.932 | -1.932 | 0 | %100 |
| 33 | M47 | X | -4.462 | -4.462 | 0 | %100 |
| 34 | M47 | Z | -7.729 | -7.729 | 0 | %100 |
| 35 | M51 | X | -1.116 | -1.116 | 0 | %100 |
| 36 | M51 | Z | -1.932 | -1.932 | 0 | %100 |
| 37 | M70 | X | -6.666 | -6.666 | 0 | %100 |
| 38 | M70 | Z | -11.545 | -11.545 | 0 | %100 |
| 39 | M109A | X | -1.397 | -1.397 | 0 | %100 |
| 40 | M109A | Z | -2.419 | -2.419 | 0 | %100 |
| 41 | M110A | X | -.684 | -.684 | 0 | %100 |
| 42 | M110A | Z | -1.185 | -1.185 | 0 | %100 |
| 43 | M111 | X | -3.321 | -3.321 | 0 | %100 |
| 44 | M111 | Z | -5.753 | -5.753 | 0 | %100 |
| 45 | M112A | X | -5.536 | -5.536 | 0 | %100 |
| 46 | M112A | Z | -9.588 | -9.588 | 0 | %100 |
| 47 | M113A | X | -.41 | -.41 | 0 | %100 |
| 48 | M113A | Z | -.711 | -.711 | 0 | %100 |
| 49 | M114 | X | -2.328 | -2.328 | 0 | %100 |
| 50 | M114 | Z | -4.032 | -4.032 | 0 | %100 |
| 51 | M37A | X | -2.985 | -2.985 | 0 | %100 |
| 52 | M37A | Z | -5.17 | -5.17 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | -2.985 | -2.985 | 0 | %100 |
| 56 | M39A | Z | -5.17 | -5.17 | 0 | %100 |
| 57 | MP4A | X | -3.98 | -3.98 | 0 | %100 |

## Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | -6.893 | -6.893 | 0 | %100 |
| 59 | MP2A | X | -3.98 | -3.98 | 0 | %100 |
| 60 | MP2A | Z | -6.893 | -6.893 | 0 | %100 |
| 61 | MP1A | X | -3.98 | -3.98 | 0 | %100 |
| 62 | MP1A | Z | -6.893 | -6.893 | 0 | %100 |
| 63 | MP3A | X | -4.817 | -4.817 | 0 | %100 |
| 64 | MP3A | Z | -8.344 | -8.344 | 0 | %100 |
| 65 | MP4C | X | -3.98 | -3.98 | 0 | %100 |
| 66 | MP4C | Z | -6.893 | -6.893 | 0 | %100 |
| 67 | MP2C | X | -3.98 | -3.98 | 0 | %100 |
| 68 | MP2C | Z | -6.893 | -6.893 | 0 | %100 |
| 69 | MP1C | X | -3.98 | -3.98 | 0 | %100 |
| 70 | MP1C | Z | -6.893 | -6.893 | 0 | %100 |
| 71 | MP3C | X | -4.817 | -4.817 | 0 | %100 |
| 72 | MP3C | Z | -8.344 | -8.344 | 0 | %100 |
| 73 | MP4B | X | -3.98 | -3.98 | 0 | %100 |
| 74 | MP4B | Z | -6.893 | -6.893 | 0 | %100 |
| 75 | MP2B | X | -3.98 | -3.98 | 0 | %100 |
| 76 | MP2B | Z | -6.893 | -6.893 | 0 | %100 |
| 77 | MP1B | X | -3.98 | -3.98 | 0 | %100 |
| 78 | MP1B | Z | -6.893 | -6.893 | 0 | %100 |
| 79 | MP3B | X | -4.817 | -4.817 | 0 | %100 |
| 80 | MP3B | Z | -8.344 | -8.344 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | -3.603 | -3.603 | 0 | %100 |
| 84 | M83 | Z | -6.24 | -6.24 | 0 | %100 |
| 85 | M84 | X | -3.603 | -3.603 | 0 | %100 |
| 86 | M84 | Z | -6.24 | -6.24 | 0 | %100 |
| 87 | OVP | X | -3.751 | -3.751 | 0 | %100 |
| 88 | OVP | Z | -6.496 | -6.496 | 0 | %100 |
| 89 | M86 | X | -6.666 | -6.666 | 0 | %100 |
| 90 | M86 | Z | -11.545 | -11.545 | 0 | %100 |
| 91 | M88 | X | -6.666 | -6.666 | 0 | %100 |
| 92 | M88 | Z | -11.545 | -11.545 | 0 | %100 |

## Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | -3.061 | -3.061 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | -3.061 | -3.061 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | -3.007 | -3.007 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | -.765 | -.765 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | -.765 | -.765 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | -.752 | -.752 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | -.765 | -.765 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | -.765 | -.765 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | -.752 | -.752 | 0 | %100 |

## Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | -1.099 | -1.099 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | -1.099 | -1.099 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | -4.395 | -4.395 | 0 | %100 |
| 25 | M40 | X | 0 | 0 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | -2.321 | -2.321 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | -2.321 | -2.321 | 0 | %100 |
| 31 | M43 | X | 0 | 0 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | -2.114 | -2.114 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | -2.114 | -2.114 | 0 | %100 |
| 37 | M70 | X | 0 | 0 | 0 | %100 |
| 38 | M70 | Z | -3.164 | -3.164 | 0 | %100 |
| 39 | M109A | X | 0 | 0 | 0 | %100 |
| 40 | M109A | Z | -.066 | -.066 | 0 | %100 |
| 41 | M110A | X | 0 | 0 | 0 | %100 |
| 42 | M110A | Z | -.089 | -.089 | 0 | %100 |
| 43 | M111 | X | 0 | 0 | 0 | %100 |
| 44 | M111 | Z | -2.044 | -2.044 | 0 | %100 |
| 45 | M112A | X | 0 | 0 | 0 | %100 |
| 46 | M112A | Z | -1.85 | -1.85 | 0 | %100 |
| 47 | M113A | X | 0 | 0 | 0 | %100 |
| 48 | M113A | Z | -1.374 | -1.374 | 0 | %100 |
| 49 | M114 | X | 0 | 0 | 0 | %100 |
| 50 | M114 | Z | -2.753 | -2.753 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | -2.77 | -2.77 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | -.693 | -.693 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | -.693 | -.693 | 0 | %100 |
| 57 | MP4A | X | 0 | 0 | 0 | %100 |
| 58 | MP4A | Z | -2.77 | -2.77 | 0 | %100 |
| 59 | MP2A | X | 0 | 0 | 0 | %100 |
| 60 | MP2A | Z | -2.77 | -2.77 | 0 | %100 |
| 61 | MP1A | X | 0 | 0 | 0 | %100 |
| 62 | MP1A | Z | -2.77 | -2.77 | 0 | %100 |
| 63 | MP3A | X | 0 | 0 | 0 | %100 |
| 64 | MP3A | Z | -3.066 | -3.066 | 0 | %100 |
| 65 | MP4C | X | 0 | 0 | 0 | %100 |
| 66 | MP4C | Z | -2.77 | -2.77 | 0 | %100 |
| 67 | MP2C | X | 0 | 0 | 0 | %100 |
| 68 | MP2C | Z | -2.77 | -2.77 | 0 | %100 |
| 69 | MP1C | X | 0 | 0 | 0 | %100 |
| 70 | MP1C | Z | -2.77 | -2.77 | 0 | %100 |
| 71 | MP3C | X | 0 | 0 | 0 | %100 |
| 72 | MP3C | Z | -3.066 | -3.066 | 0 | %100 |
| 73 | MP4B | X | 0 | 0 | 0 | %100 |
| 74 | MP4B | Z | -2.77 | -2.77 | 0 | %100 |
| 75 | MP2B | X | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | -2.77 | -2.77 | 0 | %100 |
| 77 | MP1B | X | 0 | 0 | 0 | %100 |
| 78 | MP1B | Z | -2.77 | -2.77 | 0 | %100 |
| 79 | MP3B | X | 0 | 0 | 0 | %100 |
| 80 | MP3B | Z | -3.066 | -3.066 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | -.652 | -.652 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | -.652 | -.652 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | -2.606 | -2.606 | 0 | %100 |
| 87 | OVP | X | 0 | 0 | 0 | %100 |
| 88 | OVP | Z | -2.627 | -2.627 | 0 | %100 |
| 89 | M86 | X | 0 | 0 | 0 | %100 |
| 90 | M86 | Z | -3.164 | -3.164 | 0 | %100 |
| 91 | M88 | X | 0 | 0 | 0 | %100 |
| 92 | M88 | Z | -3.164 | -3.164 | 0 | %100 |

## Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 1.148 | 1.148 | 0 | %100 |
| 2 | M1 | Z | -1.988 | -1.988 | 0 | %100 |
| 3 | M3 | X | 1.148 | 1.148 | 0 | %100 |
| 4 | M3 | Z | -1.988 | -1.988 | 0 | %100 |
| 5 | M5 | X | 1.127 | 1.127 | 0 | %100 |
| 6 | M5 | Z | -1.953 | -1.953 | 0 | %100 |
| 7 | M13 | X | 1.148 | 1.148 | 0 | %100 |
| 8 | M13 | Z | -1.988 | -1.988 | 0 | %100 |
| 9 | M15 | X | 1.148 | 1.148 | 0 | %100 |
| 10 | M15 | Z | -1.988 | -1.988 | 0 | %100 |
| 11 | M17 | X | 1.127 | 1.127 | 0 | %100 |
| 12 | M17 | Z | -1.953 | -1.953 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | 1.648 | 1.648 | 0 | %100 |
| 20 | M37 | Z | -2.855 | -2.855 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 1.648 | 1.648 | 0 | %100 |
| 24 | M39 | Z | -2.855 | -2.855 | 0 | %100 |
| 25 | M40 | X | .387 | .387 | 0 | %100 |
| 26 | M40 | Z | -.67 | -.67 | 0 | %100 |
| 27 | M41 | X | .387 | .387 | 0 | %100 |
| 28 | M41 | Z | -.67 | -.67 | 0 | %100 |
| 29 | M42 | X | 1.547 | 1.547 | 0 | %100 |
| 30 | M42 | Z | -2.68 | -2.68 | 0 | %100 |
| 31 | M43 | X | .352 | .352 | 0 | %100 |
| 32 | M43 | Z | -.61 | -.61 | 0 | %100 |
| 33 | M47 | X | .352 | .352 | 0 | %100 |
| 34 | M47 | Z | -.61 | -.61 | 0 | %100 |
| 35 | M51 | X | 1.409 | 1.409 | 0 | %100 |
| 36 | M51 | Z | -2.441 | -2.441 | 0 | %100 |

## Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | 1.658 | 1.658 | 0 | %100 |
| 38 | M70 | Z | -2.872 | -2.872 | 0 | %100 |
| 39 | M109A | X | .139 | .139 | 0 | %100 |
| 40 | M109A | Z | -.241 | -.241 | 0 | %100 |
| 41 | M110A | X | .639 | .639 | 0 | %100 |
| 42 | M110A | Z | -1.107 | -1.107 | 0 | %100 |
| 43 | M111 | X | .475 | .475 | 0 | %100 |
| 44 | M111 | Z | -.822 | -.822 | 0 | %100 |
| 45 | M112A | X | .188 | .188 | 0 | %100 |
| 46 | M112A | Z | -.325 | -.325 | 0 | %100 |
| 47 | M113A | X | 1.128 | 1.128 | 0 | %100 |
| 48 | M113A | Z | -1.954 | -1.954 | 0 | %100 |
| 49 | M114 | X | 1.519 | 1.519 | 0 | %100 |
| 50 | M114 | Z | -2.632 | -2.632 | 0 | %100 |
| 51 | M37A | X | 1.039 | 1.039 | 0 | %100 |
| 52 | M37A | Z | -1.799 | -1.799 | 0 | %100 |
| 53 | M38A | X | 1.039 | 1.039 | 0 | %100 |
| 54 | M38A | Z | -1.799 | -1.799 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | 1.385 | 1.385 | 0 | %100 |
| 58 | MP4A | Z | -2.399 | -2.399 | 0 | %100 |
| 59 | MP2A | X | 1.385 | 1.385 | 0 | %100 |
| 60 | MP2A | Z | -2.399 | -2.399 | 0 | %100 |
| 61 | MP1A | X | 1.385 | 1.385 | 0 | %100 |
| 62 | MP1A | Z | -2.399 | -2.399 | 0 | %100 |
| 63 | MP3A | X | 1.533 | 1.533 | 0 | %100 |
| 64 | MP3A | Z | -2.655 | -2.655 | 0 | %100 |
| 65 | MP4C | X | 1.385 | 1.385 | 0 | %100 |
| 66 | MP4C | Z | -2.399 | -2.399 | 0 | %100 |
| 67 | MP2C | X | 1.385 | 1.385 | 0 | %100 |
| 68 | MP2C | Z | -2.399 | -2.399 | 0 | %100 |
| 69 | MP1C | X | 1.385 | 1.385 | 0 | %100 |
| 70 | MP1C | Z | -2.399 | -2.399 | 0 | %100 |
| 71 | MP3C | X | 1.533 | 1.533 | 0 | %100 |
| 72 | MP3C | Z | -2.655 | -2.655 | 0 | %100 |
| 73 | MP4B | X | 1.385 | 1.385 | 0 | %100 |
| 74 | MP4B | Z | -2.399 | -2.399 | 0 | %100 |
| 75 | MP2B | X | 1.385 | 1.385 | 0 | %100 |
| 76 | MP2B | Z | -2.399 | -2.399 | 0 | %100 |
| 77 | MP1B | X | 1.385 | 1.385 | 0 | %100 |
| 78 | MP1B | Z | -2.399 | -2.399 | 0 | %100 |
| 79 | MP3B | X | 1.533 | 1.533 | 0 | %100 |
| 80 | MP3B | Z | -2.655 | -2.655 | 0 | %100 |
| 81 | M82 | X | .977 | .977 | 0 | %100 |
| 82 | M82 | Z | -1.693 | -1.693 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | .977 | .977 | 0 | %100 |
| 86 | M84 | Z | -1.693 | -1.693 | 0 | %100 |
| 87 | OVP | X | 1.314 | 1.314 | 0 | %100 |
| 88 | OVP | Z | -2.275 | -2.275 | 0 | %100 |
| 89 | M86 | X | 1.658 | 1.658 | 0 | %100 |
| 90 | M86 | Z | -2.872 | -2.872 | 0 | %100 |
| 91 | M88 | X | 1.658 | 1.658 | 0 | %100 |
| 92 | M88 | Z | -2.872 | -2.872 | 0 | %100 |

## Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | .663 | .663 | 0 | %100 |
| 2 | M1 | Z | -.383 | -.383 | 0 | %100 |
| 3 | M3 | X | .663 | .663 | 0 | %100 |
| 4 | M3 | Z | -.383 | -.383 | 0 | %100 |
| 5 | M5 | X | .651 | .651 | 0 | %100 |
| 6 | M5 | Z | -.376 | -.376 | 0 | %100 |
| 7 | M13 | X | 2.651 | 2.651 | 0 | %100 |
| 8 | M13 | Z | -1.531 | -1.531 | 0 | %100 |
| 9 | M15 | X | 2.651 | 2.651 | 0 | %100 |
| 10 | M15 | Z | -1.531 | -1.531 | 0 | %100 |
| 11 | M17 | X | 2.604 | 2.604 | 0 | %100 |
| 12 | M17 | Z | -1.503 | -1.503 | 0 | %100 |
| 13 | M25 | X | .663 | .663 | 0 | %100 |
| 14 | M25 | Z | -.383 | -.383 | 0 | %100 |
| 15 | M27 | X | .663 | .663 | 0 | %100 |
| 16 | M27 | Z | -.383 | -.383 | 0 | %100 |
| 17 | M29 | X | .651 | .651 | 0 | %100 |
| 18 | M29 | Z | -.376 | -.376 | 0 | %100 |
| 19 | M37 | X | 3.806 | 3.806 | 0 | %100 |
| 20 | M37 | Z | -2.198 | -2.198 | 0 | %100 |
| 21 | M38 | X | .952 | .952 | 0 | %100 |
| 22 | M38 | Z | -.549 | -.549 | 0 | %100 |
| 23 | M39 | X | .952 | .952 | 0 | %100 |
| 24 | M39 | Z | -.549 | -.549 | 0 | %100 |
| 25 | M40 | X | 2.01 | 2.01 | 0 | %100 |
| 26 | M40 | Z | -1.16 | -1.16 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | 2.01 | 2.01 | 0 | %100 |
| 30 | M42 | Z | -1.16 | -1.16 | 0 | %100 |
| 31 | M43 | X | 1.831 | 1.831 | 0 | %100 |
| 32 | M43 | Z | -1.057 | -1.057 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | 1.831 | 1.831 | 0 | %100 |
| 36 | M51 | Z | -1.057 | -1.057 | 0 | %100 |
| 37 | M70 | X | 3.136 | 3.136 | 0 | %100 |
| 38 | M70 | Z | -1.811 | -1.811 | 0 | %100 |
| 39 | M109A | X | 1.19 | 1.19 | 0 | %100 |
| 40 | M109A | Z | -.687 | -.687 | 0 | %100 |
| 41 | M110A | X | 2.384 | 2.384 | 0 | %100 |
| 42 | M110A | Z | -1.376 | -1.376 | 0 | %100 |
| 43 | M111 | X | .057 | .057 | 0 | %100 |
| 44 | M111 | Z | -.033 | -.033 | 0 | %100 |
| 45 | M112A | X | .077 | .077 | 0 | %100 |
| 46 | M112A | Z | -.045 | -.045 | 0 | %100 |
| 47 | M113A | X | 1.77 | 1.77 | 0 | %100 |
| 48 | M113A | Z | -1.022 | -1.022 | 0 | %100 |
| 49 | M114 | X | 1.602 | 1.602 | 0 | %100 |
| 50 | M114 | Z | -.925 | -.925 | 0 | %100 |
| 51 | M37A | X | .6 | .6 | 0 | %100 |
| 52 | M37A | Z | -.346 | -.346 | 0 | %100 |
| 53 | M38A | X | 2.399 | 2.399 | 0 | %100 |
| 54 | M38A | Z | -1.385 | -1.385 | 0 | %100 |
| 55 | M39A | X | .6 | .6 | 0 | %100 |
| 56 | M39A | Z | -.346 | -.346 | 0 | %100 |
| 57 | MP4A | X | 2.399 | 2.399 | 0 | %100 |

## Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | -1.385 | -1.385 | 0 | %100 |
| 59 | MP2A | X | 2.399 | 2.399 | 0 | %100 |
| 60 | MP2A | Z | -1.385 | -1.385 | 0 | %100 |
| 61 | MP1A | X | 2.399 | 2.399 | 0 | %100 |
| 62 | MP1A | Z | -1.385 | -1.385 | 0 | %100 |
| 63 | MP3A | X | 2.655 | 2.655 | 0 | %100 |
| 64 | MP3A | Z | -1.533 | -1.533 | 0 | %100 |
| 65 | MP4C | X | 2.399 | 2.399 | 0 | %100 |
| 66 | MP4C | Z | -1.385 | -1.385 | 0 | %100 |
| 67 | MP2C | X | 2.399 | 2.399 | 0 | %100 |
| 68 | MP2C | Z | -1.385 | -1.385 | 0 | %100 |
| 69 | MP1C | X | 2.399 | 2.399 | 0 | %100 |
| 70 | MP1C | Z | -1.385 | -1.385 | 0 | %100 |
| 71 | MP3C | X | 2.655 | 2.655 | 0 | %100 |
| 72 | MP3C | Z | -1.533 | -1.533 | 0 | %100 |
| 73 | MP4B | X | 2.399 | 2.399 | 0 | %100 |
| 74 | MP4B | Z | -1.385 | -1.385 | 0 | %100 |
| 75 | MP2B | X | 2.399 | 2.399 | 0 | %100 |
| 76 | MP2B | Z | -1.385 | -1.385 | 0 | %100 |
| 77 | MP1B | X | 2.399 | 2.399 | 0 | %100 |
| 78 | MP1B | Z | -1.385 | -1.385 | 0 | %100 |
| 79 | MP3B | X | 2.655 | 2.655 | 0 | %100 |
| 80 | MP3B | Z | -1.533 | -1.533 | 0 | %100 |
| 81 | M82 | X | 2.257 | 2.257 | 0 | %100 |
| 82 | M82 | Z | -1.303 | -1.303 | 0 | %100 |
| 83 | M83 | X | .564 | .564 | 0 | %100 |
| 84 | M83 | Z | -.326 | -.326 | 0 | %100 |
| 85 | M84 | X | .564 | .564 | 0 | %100 |
| 86 | M84 | Z | -.326 | -.326 | 0 | %100 |
| 87 | OVP | X | 2.275 | 2.275 | 0 | %100 |
| 88 | OVP | Z | -1.314 | -1.314 | 0 | %100 |
| 89 | M86 | X | 3.136 | 3.136 | 0 | %100 |
| 90 | M86 | Z | -1.811 | -1.811 | 0 | %100 |
| 91 | M88 | X | 3.136 | 3.136 | 0 | %100 |
| 92 | M88 | Z | -1.811 | -1.811 | 0 | %100 |

## Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M13 | X | 2.296 | 2.296 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 2.296 | 2.296 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 2.255 | 2.255 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | 2.296 | 2.296 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 2.296 | 2.296 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 2.255 | 2.255 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | 3.296 | 3.296 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | 3.296 | 3.296 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 0 | 0 | 0 | %100 |
| 25 | M40 | X | 3.094 | 3.094 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | .774 | .774 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | .774 | .774 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | 2.818 | 2.818 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | .705 | .705 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | .705 | .705 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | 3.773 | 3.773 | 0 | %100 |
| 38 | M70 | Z | 0 | 0 | 0 | %100 |
| 39 | M109A | X | 2.257 | 2.257 | 0 | %100 |
| 40 | M109A | Z | 0 | 0 | 0 | %100 |
| 41 | M110A | X | 3.039 | 3.039 | 0 | %100 |
| 42 | M110A | Z | 0 | 0 | 0 | %100 |
| 43 | M111 | X | .279 | .279 | 0 | %100 |
| 44 | M111 | Z | 0 | 0 | 0 | %100 |
| 45 | M112A | X | 1.278 | 1.278 | 0 | %100 |
| 46 | M112A | Z | 0 | 0 | 0 | %100 |
| 47 | M113A | X | .949 | .949 | 0 | %100 |
| 48 | M113A | Z | 0 | 0 | 0 | %100 |
| 49 | M114 | X | .375 | .375 | 0 | %100 |
| 50 | M114 | Z | 0 | 0 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 0 | 0 | 0 | %100 |
| 53 | M38A | X | 2.078 | 2.078 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | 2.078 | 2.078 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | 2.77 | 2.77 | 0 | %100 |
| 58 | MP4A | Z | 0 | 0 | 0 | %100 |
| 59 | MP2A | X | 2.77 | 2.77 | 0 | %100 |
| 60 | MP2A | Z | 0 | 0 | 0 | %100 |
| 61 | MP1A | X | 2.77 | 2.77 | 0 | %100 |
| 62 | MP1A | Z | 0 | 0 | 0 | %100 |
| 63 | MP3A | X | 3.066 | 3.066 | 0 | %100 |
| 64 | MP3A | Z | 0 | 0 | 0 | %100 |
| 65 | MP4C | X | 2.77 | 2.77 | 0 | %100 |
| 66 | MP4C | Z | 0 | 0 | 0 | %100 |
| 67 | MP2C | X | 2.77 | 2.77 | 0 | %100 |
| 68 | MP2C | Z | 0 | 0 | 0 | %100 |
| 69 | MP1C | X | 2.77 | 2.77 | 0 | %100 |
| 70 | MP1C | Z | 0 | 0 | 0 | %100 |
| 71 | MP3C | X | 3.066 | 3.066 | 0 | %100 |
| 72 | MP3C | Z | 0 | 0 | 0 | %100 |
| 73 | MP4B | X | 2.77 | 2.77 | 0 | %100 |
| 74 | MP4B | Z | 0 | 0 | 0 | %100 |
| 75 | MP2B | X | 2.77 | 2.77 | 0 | %100 |

## Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 0 | 0 | 0 | %100 |
| 77 | MP1B | X | 2.77 | 2.77 | 0 | %100 |
| 78 | MP1B | Z | 0 | 0 | 0 | %100 |
| 79 | MP3B | X | 3.066 | 3.066 | 0 | %100 |
| 80 | MP3B | Z | 0 | 0 | 0 | %100 |
| 81 | M82 | X | 1.955 | 1.955 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | 1.955 | 1.955 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 0 | 0 | 0 | %100 |
| 87 | OVP | X | 2.627 | 2.627 | 0 | %100 |
| 88 | OVP | Z | 0 | 0 | 0 | %100 |
| 89 | M86 | X | 3.773 | 3.773 | 0 | %100 |
| 90 | M86 | Z | 0 | 0 | 0 | %100 |
| 91 | M88 | X | 3.773 | 3.773 | 0 | %100 |
| 92 | M88 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | .663 | .663 | 0 | %100 |
| 2 | M1 | Z | .383 | .383 | 0 | %100 |
| 3 | M3 | X | .663 | .663 | 0 | %100 |
| 4 | M3 | Z | .383 | .383 | 0 | %100 |
| 5 | M5 | X | .651 | .651 | 0 | %100 |
| 6 | M5 | Z | .376 | .376 | 0 | %100 |
| 7 | M13 | X | .663 | .663 | 0 | %100 |
| 8 | M13 | Z | .383 | .383 | 0 | %100 |
| 9 | M15 | X | .663 | .663 | 0 | %100 |
| 10 | M15 | Z | .383 | .383 | 0 | %100 |
| 11 | M17 | X | .651 | .651 | 0 | %100 |
| 12 | M17 | Z | .376 | .376 | 0 | %100 |
| 13 | M25 | X | 2.651 | 2.651 | 0 | %100 |
| 14 | M25 | Z | 1.531 | 1.531 | 0 | %100 |
| 15 | M27 | X | 2.651 | 2.651 | 0 | %100 |
| 16 | M27 | Z | 1.531 | 1.531 | 0 | %100 |
| 17 | M29 | X | 2.604 | 2.604 | 0 | %100 |
| 18 | M29 | Z | 1.503 | 1.503 | 0 | %100 |
| 19 | M37 | X | .952 | .952 | 0 | %100 |
| 20 | M37 | Z | .549 | .549 | 0 | %100 |
| 21 | M38 | X | 3.806 | 3.806 | 0 | %100 |
| 22 | M38 | Z | 2.198 | 2.198 | 0 | %100 |
| 23 | M39 | X | .952 | .952 | 0 | %100 |
| 24 | M39 | Z | .549 | .549 | 0 | %100 |
| 25 | M40 | X | 2.01 | 2.01 | 0 | %100 |
| 26 | M40 | Z | 1.16 | 1.16 | 0 | %100 |
| 27 | M41 | X | 2.01 | 2.01 | 0 | %100 |
| 28 | M41 | Z | 1.16 | 1.16 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | 1.831 | 1.831 | 0 | %100 |
| 32 | M43 | Z | 1.057 | 1.057 | 0 | %100 |
| 33 | M47 | X | 1.831 | 1.831 | 0 | %100 |
| 34 | M47 | Z | 1.057 | 1.057 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | 3.136 | 3.136 | 0 | %100 |
| 38 | M70 | Z | 1.811 | 1.811 | 0 | %100 |
| 39 | M109A | X | 1.77 | 1.77 | 0 | %100 |
| 40 | M109A | Z | 1.022 | 1.022 | 0 | %100 |
| 41 | M110A | X | 1.602 | 1.602 | 0 | %100 |
| 42 | M110A | Z | .925 | .925 | 0 | %100 |
| 43 | M111 | X | 1.19 | 1.19 | 0 | %100 |
| 44 | M111 | Z | .687 | .687 | 0 | %100 |
| 45 | M112A | X | 2.384 | 2.384 | 0 | %100 |
| 46 | M112A | Z | 1.376 | 1.376 | 0 | %100 |
| 47 | M113A | X | .057 | .057 | 0 | %100 |
| 48 | M113A | Z | .033 | .033 | 0 | %100 |
| 49 | M114 | X | .077 | .077 | 0 | %100 |
| 50 | M114 | Z | .045 | .045 | 0 | %100 |
| 51 | M37A | X | .6 | .6 | 0 | %100 |
| 52 | M37A | Z | .346 | .346 | 0 | %100 |
| 53 | M38A | X | .6 | .6 | 0 | %100 |
| 54 | M38A | Z | .346 | .346 | 0 | %100 |
| 55 | M39A | X | 2.399 | 2.399 | 0 | %100 |
| 56 | M39A | Z | 1.385 | 1.385 | 0 | %100 |
| 57 | MP4A | X | 2.399 | 2.399 | 0 | %100 |
| 58 | MP4A | Z | 1.385 | 1.385 | 0 | %100 |
| 59 | MP2A | X | 2.399 | 2.399 | 0 | %100 |
| 60 | MP2A | Z | 1.385 | 1.385 | 0 | %100 |
| 61 | MP1A | X | 2.399 | 2.399 | 0 | %100 |
| 62 | MP1A | Z | 1.385 | 1.385 | 0 | %100 |
| 63 | MP3A | X | 2.655 | 2.655 | 0 | %100 |
| 64 | MP3A | Z | 1.533 | 1.533 | 0 | %100 |
| 65 | MP4C | X | 2.399 | 2.399 | 0 | %100 |
| 66 | MP4C | Z | 1.385 | 1.385 | 0 | %100 |
| 67 | MP2C | X | 2.399 | 2.399 | 0 | %100 |
| 68 | MP2C | Z | 1.385 | 1.385 | 0 | %100 |
| 69 | MP1C | X | 2.399 | 2.399 | 0 | %100 |
| 70 | MP1C | Z | 1.385 | 1.385 | 0 | %100 |
| 71 | MP3C | X | 2.655 | 2.655 | 0 | %100 |
| 72 | MP3C | Z | 1.533 | 1.533 | 0 | %100 |
| 73 | MP4B | X | 2.399 | 2.399 | 0 | %100 |
| 74 | MP4B | Z | 1.385 | 1.385 | 0 | %100 |
| 75 | MP2B | X | 2.399 | 2.399 | 0 | %100 |
| 76 | MP2B | Z | 1.385 | 1.385 | 0 | %100 |
| 77 | MP1B | X | 2.399 | 2.399 | 0 | %100 |
| 78 | MP1B | Z | 1.385 | 1.385 | 0 | %100 |
| 79 | MP3B | X | 2.655 | 2.655 | 0 | %100 |
| 80 | MP3B | Z | 1.533 | 1.533 | 0 | %100 |
| 81 | M82 | X | .564 | .564 | 0 | %100 |
| 82 | M82 | Z | .326 | .326 | 0 | %100 |
| 83 | M83 | X | 2.257 | 2.257 | 0 | %100 |
| 84 | M83 | Z | 1.303 | 1.303 | 0 | %100 |
| 85 | M84 | X | .564 | .564 | 0 | %100 |
| 86 | M84 | Z | .326 | .326 | 0 | %100 |
| 87 | OVP | X | 2.275 | 2.275 | 0 | %100 |
| 88 | OVP | Z | 1.314 | 1.314 | 0 | %100 |
| 89 | M86 | X | 3.136 | 3.136 | 0 | %100 |
| 90 | M86 | Z | 1.811 | 1.811 | 0 | %100 |
| 91 | M88 | X | 3.136 | 3.136 | 0 | %100 |
| 92 | M88 | Z | 1.811 | 1.811 | 0 | %100 |

## Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 1.148 | 1.148 | 0 | %100 |
| 2 | M1 | Z | 1.988 | 1.988 | 0 | %100 |
| 3 | M3 | X | 1.148 | 1.148 | 0 | %100 |
| 4 | M3 | Z | 1.988 | 1.988 | 0 | %100 |
| 5 | M5 | X | 1.127 | 1.127 | 0 | %100 |
| 6 | M5 | Z | 1.953 | 1.953 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | 1.148 | 1.148 | 0 | %100 |
| 14 | M25 | Z | 1.988 | 1.988 | 0 | %100 |
| 15 | M27 | X | 1.148 | 1.148 | 0 | %100 |
| 16 | M27 | Z | 1.988 | 1.988 | 0 | %100 |
| 17 | M29 | X | 1.127 | 1.127 | 0 | %100 |
| 18 | M29 | Z | 1.953 | 1.953 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | 1.648 | 1.648 | 0 | %100 |
| 22 | M38 | Z | 2.855 | 2.855 | 0 | %100 |
| 23 | M39 | X | 1.648 | 1.648 | 0 | %100 |
| 24 | M39 | Z | 2.855 | 2.855 | 0 | %100 |
| 25 | M40 | X | .387 | .387 | 0 | %100 |
| 26 | M40 | Z | .67 | .67 | 0 | %100 |
| 27 | M41 | X | 1.547 | 1.547 | 0 | %100 |
| 28 | M41 | Z | 2.68 | 2.68 | 0 | %100 |
| 29 | M42 | X | .387 | .387 | 0 | %100 |
| 30 | M42 | Z | .67 | .67 | 0 | %100 |
| 31 | M43 | X | .352 | .352 | 0 | %100 |
| 32 | M43 | Z | .61 | .61 | 0 | %100 |
| 33 | M47 | X | 1.409 | 1.409 | 0 | %100 |
| 34 | M47 | Z | 2.441 | 2.441 | 0 | %100 |
| 35 | M51 | X | .352 | .352 | 0 | %100 |
| 36 | M51 | Z | .61 | .61 | 0 | %100 |
| 37 | M70 | X | 1.658 | 1.658 | 0 | %100 |
| 38 | M70 | Z | 2.872 | 2.872 | 0 | %100 |
| 39 | M109A | X | .475 | .475 | 0 | %100 |
| 40 | M109A | Z | .822 | .822 | 0 | %100 |
| 41 | M110A | X | .188 | .188 | 0 | %100 |
| 42 | M110A | Z | .325 | .325 | 0 | %100 |
| 43 | M111 | X | 1.128 | 1.128 | 0 | %100 |
| 44 | M111 | Z | 1.954 | 1.954 | 0 | %100 |
| 45 | M112A | X | 1.519 | 1.519 | 0 | %100 |
| 46 | M112A | Z | 2.632 | 2.632 | 0 | %100 |
| 47 | M113A | X | .139 | .139 | 0 | %100 |
| 48 | M113A | Z | .241 | .241 | 0 | %100 |
| 49 | M114 | X | .639 | .639 | 0 | %100 |
| 50 | M114 | Z | 1.107 | 1.107 | 0 | %100 |
| 51 | M37A | X | 1.039 | 1.039 | 0 | %100 |
| 52 | M37A | Z | 1.799 | 1.799 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | 1.039 | 1.039 | 0 | %100 |
| 56 | M39A | Z | 1.799 | 1.799 | 0 | %100 |
| 57 | MP4A | X | 1.385 | 1.385 | 0 | %100 |

## Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | 2.399 | 2.399 | 0 | %100 |
| 59 | MP2A | X | 1.385 | 1.385 | 0 | %100 |
| 60 | MP2A | Z | 2.399 | 2.399 | 0 | %100 |
| 61 | MP1A | X | 1.385 | 1.385 | 0 | %100 |
| 62 | MP1A | Z | 2.399 | 2.399 | 0 | %100 |
| 63 | MP3A | X | 1.533 | 1.533 | 0 | %100 |
| 64 | MP3A | Z | 2.655 | 2.655 | 0 | %100 |
| 65 | MP4C | X | 1.385 | 1.385 | 0 | %100 |
| 66 | MP4C | Z | 2.399 | 2.399 | 0 | %100 |
| 67 | MP2C | X | 1.385 | 1.385 | 0 | %100 |
| 68 | MP2C | Z | 2.399 | 2.399 | 0 | %100 |
| 69 | MP1C | X | 1.385 | 1.385 | 0 | %100 |
| 70 | MP1C | Z | 2.399 | 2.399 | 0 | %100 |
| 71 | MP3C | X | 1.533 | 1.533 | 0 | %100 |
| 72 | MP3C | Z | 2.655 | 2.655 | 0 | %100 |
| 73 | MP4B | X | 1.385 | 1.385 | 0 | %100 |
| 74 | MP4B | Z | 2.399 | 2.399 | 0 | %100 |
| 75 | MP2B | X | 1.385 | 1.385 | 0 | %100 |
| 76 | MP2B | Z | 2.399 | 2.399 | 0 | %100 |
| 77 | MP1B | X | 1.385 | 1.385 | 0 | %100 |
| 78 | MP1B | Z | 2.399 | 2.399 | 0 | %100 |
| 79 | MP3B | X | 1.533 | 1.533 | 0 | %100 |
| 80 | MP3B | Z | 2.655 | 2.655 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | .977 | .977 | 0 | %100 |
| 84 | M83 | Z | 1.693 | 1.693 | 0 | %100 |
| 85 | M84 | X | .977 | .977 | 0 | %100 |
| 86 | M84 | Z | 1.693 | 1.693 | 0 | %100 |
| 87 | OVP | X | 1.314 | 1.314 | 0 | %100 |
| 88 | OVP | Z | 2.275 | 2.275 | 0 | %100 |
| 89 | M86 | X | 1.658 | 1.658 | 0 | %100 |
| 90 | M86 | Z | 2.872 | 2.872 | 0 | %100 |
| 91 | M88 | X | 1.658 | 1.658 | 0 | %100 |
| 92 | M88 | Z | 2.872 | 2.872 | 0 | %100 |

## Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 3.061 | 3.061 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 3.061 | 3.061 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 3.007 | 3.007 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | .765 | .765 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | .765 | .765 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | .752 | .752 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | .765 | .765 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | .765 | .765 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | .752 | .752 | 0 | %100 |

## Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 1.099 | 1.099 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 1.099 | 1.099 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 4.395 | 4.395 | 0 | %100 |
| 25 | M40 | X | 0 | 0 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 2.321 | 2.321 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 2.321 | 2.321 | 0 | %100 |
| 31 | M43 | X | 0 | 0 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 2.114 | 2.114 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 2.114 | 2.114 | 0 | %100 |
| 37 | M70 | X | 0 | 0 | 0 | %100 |
| 38 | M70 | Z | 3.164 | 3.164 | 0 | %100 |
| 39 | M109A | X | 0 | 0 | 0 | %100 |
| 40 | M109A | Z | .066 | .066 | 0 | %100 |
| 41 | M110A | X | 0 | 0 | 0 | %100 |
| 42 | M110A | Z | .089 | .089 | 0 | %100 |
| 43 | M111 | X | 0 | 0 | 0 | %100 |
| 44 | M111 | Z | 2.044 | 2.044 | 0 | %100 |
| 45 | M112A | X | 0 | 0 | 0 | %100 |
| 46 | M112A | Z | 1.85 | 1.85 | 0 | %100 |
| 47 | M113A | X | 0 | 0 | 0 | %100 |
| 48 | M113A | Z | 1.374 | 1.374 | 0 | %100 |
| 49 | M114 | X | 0 | 0 | 0 | %100 |
| 50 | M114 | Z | 2.753 | 2.753 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 2.77 | 2.77 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | .693 | .693 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | .693 | .693 | 0 | %100 |
| 57 | MP4A | X | 0 | 0 | 0 | %100 |
| 58 | MP4A | Z | 2.77 | 2.77 | 0 | %100 |
| 59 | MP2A | X | 0 | 0 | 0 | %100 |
| 60 | MP2A | Z | 2.77 | 2.77 | 0 | %100 |
| 61 | MP1A | X | 0 | 0 | 0 | %100 |
| 62 | MP1A | Z | 2.77 | 2.77 | 0 | %100 |
| 63 | MP3A | X | 0 | 0 | 0 | %100 |
| 64 | MP3A | Z | 3.066 | 3.066 | 0 | %100 |
| 65 | MP4C | X | 0 | 0 | 0 | %100 |
| 66 | MP4C | Z | 2.77 | 2.77 | 0 | %100 |
| 67 | MP2C | X | 0 | 0 | 0 | %100 |
| 68 | MP2C | Z | 2.77 | 2.77 | 0 | %100 |
| 69 | MP1C | X | 0 | 0 | 0 | %100 |
| 70 | MP1C | Z | 2.77 | 2.77 | 0 | %100 |
| 71 | MP3C | X | 0 | 0 | 0 | %100 |
| 72 | MP3C | Z | 3.066 | 3.066 | 0 | %100 |
| 73 | MP4B | X | 0 | 0 | 0 | %100 |
| 74 | MP4B | Z | 2.77 | 2.77 | 0 | %100 |
| 75 | MP2B | X | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 2.77 | 2.77 | 0 | %100 |
| 77 | MP1B | X | 0 | 0 | 0 | %100 |
| 78 | MP1B | Z | 2.77 | 2.77 | 0 | %100 |
| 79 | MP3B | X | 0 | 0 | 0 | %100 |
| 80 | MP3B | Z | 3.066 | 3.066 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | .652 | .652 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | .652 | .652 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 2.606 | 2.606 | 0 | %100 |
| 87 | OVP | X | 0 | 0 | 0 | %100 |
| 88 | OVP | Z | 2.627 | 2.627 | 0 | %100 |
| 89 | M86 | X | 0 | 0 | 0 | %100 |
| 90 | M86 | Z | 3.164 | 3.164 | 0 | %100 |
| 91 | M88 | X | 0 | 0 | 0 | %100 |
| 92 | M88 | Z | 3.164 | 3.164 | 0 | %100 |

## Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -1.148 | -1.148 | 0 | %100 |
| 2 | M1 | Z | 1.988 | 1.988 | 0 | %100 |
| 3 | M3 | X | -1.148 | -1.148 | 0 | %100 |
| 4 | M3 | Z | 1.988 | 1.988 | 0 | %100 |
| 5 | M5 | X | -1.127 | -1.127 | 0 | %100 |
| 6 | M5 | Z | 1.953 | 1.953 | 0 | %100 |
| 7 | M13 | X | -1.148 | -1.148 | 0 | %100 |
| 8 | M13 | Z | 1.988 | 1.988 | 0 | %100 |
| 9 | M15 | X | -1.148 | -1.148 | 0 | %100 |
| 10 | M15 | Z | 1.988 | 1.988 | 0 | %100 |
| 11 | M17 | X | -1.127 | -1.127 | 0 | %100 |
| 12 | M17 | Z | 1.953 | 1.953 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | -1.648 | -1.648 | 0 | %100 |
| 20 | M37 | Z | 2.855 | 2.855 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | -1.648 | -1.648 | 0 | %100 |
| 24 | M39 | Z | 2.855 | 2.855 | 0 | %100 |
| 25 | M40 | X | -.387 | -.387 | 0 | %100 |
| 26 | M40 | Z | .67 | .67 | 0 | %100 |
| 27 | M41 | X | -.387 | -.387 | 0 | %100 |
| 28 | M41 | Z | .67 | .67 | 0 | %100 |
| 29 | M42 | X | -1.547 | -1.547 | 0 | %100 |
| 30 | M42 | Z | 2.68 | 2.68 | 0 | %100 |
| 31 | M43 | X | -.352 | -.352 | 0 | %100 |
| 32 | M43 | Z | .61 | .61 | 0 | %100 |
| 33 | M47 | X | -.352 | -.352 | 0 | %100 |
| 34 | M47 | Z | .61 | .61 | 0 | %100 |
| 35 | M51 | X | -1.409 | -1.409 | 0 | %100 |
| 36 | M51 | Z | 2.441 | 2.441 | 0 | %100 |

## Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | -1.658 | -1.658 | 0 | %100 |
| 38 | M70 | Z | 2.872 | 2.872 | 0 | %100 |
| 39 | M109A | X | -.139 | -.139 | 0 | %100 |
| 40 | M109A | Z | .241 | .241 | 0 | %100 |
| 41 | M110A | X | -.639 | -.639 | 0 | %100 |
| 42 | M110A | Z | 1.107 | 1.107 | 0 | %100 |
| 43 | M111 | X | -.475 | -.475 | 0 | %100 |
| 44 | M111 | Z | .822 | .822 | 0 | %100 |
| 45 | M112A | X | -.188 | -.188 | 0 | %100 |
| 46 | M112A | Z | .325 | .325 | 0 | %100 |
| 47 | M113A | X | -1.128 | -1.128 | 0 | %100 |
| 48 | M113A | Z | 1.954 | 1.954 | 0 | %100 |
| 49 | M114 | X | -1.519 | -1.519 | 0 | %100 |
| 50 | M114 | Z | 2.632 | 2.632 | 0 | %100 |
| 51 | M37A | X | -1.039 | -1.039 | 0 | %100 |
| 52 | M37A | Z | 1.799 | 1.799 | 0 | %100 |
| 53 | M38A | X | -1.039 | -1.039 | 0 | %100 |
| 54 | M38A | Z | 1.799 | 1.799 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | -1.385 | -1.385 | 0 | %100 |
| 58 | MP4A | Z | 2.399 | 2.399 | 0 | %100 |
| 59 | MP2A | X | -1.385 | -1.385 | 0 | %100 |
| 60 | MP2A | Z | 2.399 | 2.399 | 0 | %100 |
| 61 | MP1A | X | -1.385 | -1.385 | 0 | %100 |
| 62 | MP1A | Z | 2.399 | 2.399 | 0 | %100 |
| 63 | MP3A | X | -1.533 | -1.533 | 0 | %100 |
| 64 | MP3A | Z | 2.655 | 2.655 | 0 | %100 |
| 65 | MP4C | X | -1.385 | -1.385 | 0 | %100 |
| 66 | MP4C | Z | 2.399 | 2.399 | 0 | %100 |
| 67 | MP2C | X | -1.385 | -1.385 | 0 | %100 |
| 68 | MP2C | Z | 2.399 | 2.399 | 0 | %100 |
| 69 | MP1C | X | -1.385 | -1.385 | 0 | %100 |
| 70 | MP1C | Z | 2.399 | 2.399 | 0 | %100 |
| 71 | MP3C | X | -1.533 | -1.533 | 0 | %100 |
| 72 | MP3C | Z | 2.655 | 2.655 | 0 | %100 |
| 73 | MP4B | X | -1.385 | -1.385 | 0 | %100 |
| 74 | MP4B | Z | 2.399 | 2.399 | 0 | %100 |
| 75 | MP2B | X | -1.385 | -1.385 | 0 | %100 |
| 76 | MP2B | Z | 2.399 | 2.399 | 0 | %100 |
| 77 | MP1B | X | -1.385 | -1.385 | 0 | %100 |
| 78 | MP1B | Z | 2.399 | 2.399 | 0 | %100 |
| 79 | MP3B | X | -1.533 | -1.533 | 0 | %100 |
| 80 | MP3B | Z | 2.655 | 2.655 | 0 | %100 |
| 81 | M82 | X | -.977 | -.977 | 0 | %100 |
| 82 | M82 | Z | 1.693 | 1.693 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | -.977 | -.977 | 0 | %100 |
| 86 | M84 | Z | 1.693 | 1.693 | 0 | %100 |
| 87 | OVP | X | -1.314 | -1.314 | 0 | %100 |
| 88 | OVP | Z | 2.275 | 2.275 | 0 | %100 |
| 89 | M86 | X | -1.658 | -1.658 | 0 | %100 |
| 90 | M86 | Z | 2.872 | 2.872 | 0 | %100 |
| 91 | M88 | X | -1.658 | -1.658 | 0 | %100 |
| 92 | M88 | Z | 2.872 | 2.872 | 0 | %100 |

## Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -.663 | -.663 | 0 | %100 |
| 2 | M1 | Z | .383 | .383 | 0 | %100 |
| 3 | M3 | X | -.663 | -.663 | 0 | %100 |
| 4 | M3 | Z | .383 | .383 | 0 | %100 |
| 5 | M5 | X | -.651 | -.651 | 0 | %100 |
| 6 | M5 | Z | .376 | .376 | 0 | %100 |
| 7 | M13 | X | -2.651 | -2.651 | 0 | %100 |
| 8 | M13 | Z | 1.531 | 1.531 | 0 | %100 |
| 9 | M15 | X | -2.651 | -2.651 | 0 | %100 |
| 10 | M15 | Z | 1.531 | 1.531 | 0 | %100 |
| 11 | M17 | X | -2.604 | -2.604 | 0 | %100 |
| 12 | M17 | Z | 1.503 | 1.503 | 0 | %100 |
| 13 | M25 | X | -.663 | -.663 | 0 | %100 |
| 14 | M25 | Z | .383 | .383 | 0 | %100 |
| 15 | M27 | X | -.663 | -.663 | 0 | %100 |
| 16 | M27 | Z | .383 | .383 | 0 | %100 |
| 17 | M29 | X | -.651 | -.651 | 0 | %100 |
| 18 | M29 | Z | .376 | .376 | 0 | %100 |
| 19 | M37 | X | -3.806 | -3.806 | 0 | %100 |
| 20 | M37 | Z | 2.198 | 2.198 | 0 | %100 |
| 21 | M38 | X | -.952 | -.952 | 0 | %100 |
| 22 | M38 | Z | .549 | .549 | 0 | %100 |
| 23 | M39 | X | -.952 | -.952 | 0 | %100 |
| 24 | M39 | Z | .549 | .549 | 0 | %100 |
| 25 | M40 | X | -2.01 | -2.01 | 0 | %100 |
| 26 | M40 | Z | 1.16 | 1.16 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | -2.01 | -2.01 | 0 | %100 |
| 30 | M42 | Z | 1.16 | 1.16 | 0 | %100 |
| 31 | M43 | X | -1.831 | -1.831 | 0 | %100 |
| 32 | M43 | Z | 1.057 | 1.057 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | -1.831 | -1.831 | 0 | %100 |
| 36 | M51 | Z | 1.057 | 1.057 | 0 | %100 |
| 37 | M70 | X | -3.136 | -3.136 | 0 | %100 |
| 38 | M70 | Z | 1.811 | 1.811 | 0 | %100 |
| 39 | M109A | X | -1.19 | -1.19 | 0 | %100 |
| 40 | M109A | Z | .687 | .687 | 0 | %100 |
| 41 | M110A | X | -2.384 | -2.384 | 0 | %100 |
| 42 | M110A | Z | 1.376 | 1.376 | 0 | %100 |
| 43 | M111 | X | -.057 | -.057 | 0 | %100 |
| 44 | M111 | Z | .033 | .033 | 0 | %100 |
| 45 | M112A | X | -.077 | -.077 | 0 | %100 |
| 46 | M112A | Z | .045 | .045 | 0 | %100 |
| 47 | M113A | X | -1.77 | -1.77 | 0 | %100 |
| 48 | M113A | Z | 1.022 | 1.022 | 0 | %100 |
| 49 | M114 | X | -1.602 | -1.602 | 0 | %100 |
| 50 | M114 | Z | .925 | .925 | 0 | %100 |
| 51 | M37A | X | -.6 | -.6 | 0 | %100 |
| 52 | M37A | Z | .346 | .346 | 0 | %100 |
| 53 | M38A | X | -2.399 | -2.399 | 0 | %100 |
| 54 | M38A | Z | 1.385 | 1.385 | 0 | %100 |
| 55 | M39A | X | -.6 | -.6 | 0 | %100 |
| 56 | M39A | Z | .346 | .346 | 0 | %100 |
| 57 | MP4A | X | -2.399 | -2.399 | 0 | %100 |

## Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | 1.385 | 1.385 | 0 | %100 |
| 59 | MP2A | X | -2.399 | -2.399 | 0 | %100 |
| 60 | MP2A | Z | 1.385 | 1.385 | 0 | %100 |
| 61 | MP1A | X | -2.399 | -2.399 | 0 | %100 |
| 62 | MP1A | Z | 1.385 | 1.385 | 0 | %100 |
| 63 | MP3A | X | -2.655 | -2.655 | 0 | %100 |
| 64 | MP3A | Z | 1.533 | 1.533 | 0 | %100 |
| 65 | MP4C | X | -2.399 | -2.399 | 0 | %100 |
| 66 | MP4C | Z | 1.385 | 1.385 | 0 | %100 |
| 67 | MP2C | X | -2.399 | -2.399 | 0 | %100 |
| 68 | MP2C | Z | 1.385 | 1.385 | 0 | %100 |
| 69 | MP1C | X | -2.399 | -2.399 | 0 | %100 |
| 70 | MP1C | Z | 1.385 | 1.385 | 0 | %100 |
| 71 | MP3C | X | -2.655 | -2.655 | 0 | %100 |
| 72 | MP3C | Z | 1.533 | 1.533 | 0 | %100 |
| 73 | MP4B | X | -2.399 | -2.399 | 0 | %100 |
| 74 | MP4B | Z | 1.385 | 1.385 | 0 | %100 |
| 75 | MP2B | X | -2.399 | -2.399 | 0 | %100 |
| 76 | MP2B | Z | 1.385 | 1.385 | 0 | %100 |
| 77 | MP1B | X | -2.399 | -2.399 | 0 | %100 |
| 78 | MP1B | Z | 1.385 | 1.385 | 0 | %100 |
| 79 | MP3B | X | -2.655 | -2.655 | 0 | %100 |
| 80 | MP3B | Z | 1.533 | 1.533 | 0 | %100 |
| 81 | M82 | X | -2.257 | -2.257 | 0 | %100 |
| 82 | M82 | Z | 1.303 | 1.303 | 0 | %100 |
| 83 | M83 | X | -.564 | -.564 | 0 | %100 |
| 84 | M83 | Z | .326 | .326 | 0 | %100 |
| 85 | M84 | X | -.564 | -.564 | 0 | %100 |
| 86 | M84 | Z | .326 | .326 | 0 | %100 |
| 87 | OVP | X | -2.275 | -2.275 | 0 | %100 |
| 88 | OVP | Z | 1.314 | 1.314 | 0 | %100 |
| 89 | M86 | X | -3.136 | -3.136 | 0 | %100 |
| 90 | M86 | Z | 1.811 | 1.811 | 0 | %100 |
| 91 | M88 | X | -3.136 | -3.136 | 0 | %100 |
| 92 | M88 | Z | 1.811 | 1.811 | 0 | %100 |

## Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M13 | X | -2.296 | -2.296 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | -2.296 | -2.296 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | -2.255 | -2.255 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | -2.296 | -2.296 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | -2.296 | -2.296 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | -2.255 | -2.255 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | -3.296 | -3.296 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | -3.296 | -3.296 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 0 | 0 | 0 | %100 |
| 25 | M40 | X | -3.094 | -3.094 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | -.774 | -.774 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | -.774 | -.774 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | -2.818 | -2.818 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | -.705 | -.705 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | -.705 | -.705 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | -3.773 | -3.773 | 0 | %100 |
| 38 | M70 | Z | 0 | 0 | 0 | %100 |
| 39 | M109A | X | -2.257 | -2.257 | 0 | %100 |
| 40 | M109A | Z | 0 | 0 | 0 | %100 |
| 41 | M110A | X | -3.039 | -3.039 | 0 | %100 |
| 42 | M110A | Z | 0 | 0 | 0 | %100 |
| 43 | M111 | X | -.279 | -.279 | 0 | %100 |
| 44 | M111 | Z | 0 | 0 | 0 | %100 |
| 45 | M112A | X | -1.278 | -1.278 | 0 | %100 |
| 46 | M112A | Z | 0 | 0 | 0 | %100 |
| 47 | M113A | X | -.949 | -.949 | 0 | %100 |
| 48 | M113A | Z | 0 | 0 | 0 | %100 |
| 49 | M114 | X | -.375 | -.375 | 0 | %100 |
| 50 | M114 | Z | 0 | 0 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 0 | 0 | 0 | %100 |
| 53 | M38A | X | -2.078 | -2.078 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | -2.078 | -2.078 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | -2.77 | -2.77 | 0 | %100 |
| 58 | MP4A | Z | 0 | 0 | 0 | %100 |
| 59 | MP2A | X | -2.77 | -2.77 | 0 | %100 |
| 60 | MP2A | Z | 0 | 0 | 0 | %100 |
| 61 | MP1A | X | -2.77 | -2.77 | 0 | %100 |
| 62 | MP1A | Z | 0 | 0 | 0 | %100 |
| 63 | MP3A | X | -3.066 | -3.066 | 0 | %100 |
| 64 | MP3A | Z | 0 | 0 | 0 | %100 |
| 65 | MP4C | X | -2.77 | -2.77 | 0 | %100 |
| 66 | MP4C | Z | 0 | 0 | 0 | %100 |
| 67 | MP2C | X | -2.77 | -2.77 | 0 | %100 |
| 68 | MP2C | Z | 0 | 0 | 0 | %100 |
| 69 | MP1C | X | -2.77 | -2.77 | 0 | %100 |
| 70 | MP1C | Z | 0 | 0 | 0 | %100 |
| 71 | MP3C | X | -3.066 | -3.066 | 0 | %100 |
| 72 | MP3C | Z | 0 | 0 | 0 | %100 |
| 73 | MP4B | X | -2.77 | -2.77 | 0 | %100 |
| 74 | MP4B | Z | 0 | 0 | 0 | %100 |
| 75 | MP2B | X | -2.77 | -2.77 | 0 | %100 |

## Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 0 | 0 | 0 | %100 |
| 77 | MP1B | X | -2.77 | -2.77 | 0 | %100 |
| 78 | MP1B | Z | 0 | 0 | 0 | %100 |
| 79 | MP3B | X | -3.066 | -3.066 | 0 | %100 |
| 80 | MP3B | Z | 0 | 0 | 0 | %100 |
| 81 | M82 | X | -1.955 | -1.955 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | -1.955 | -1.955 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 0 | 0 | 0 | %100 |
| 87 | OVP | X | -2.627 | -2.627 | 0 | %100 |
| 88 | OVP | Z | 0 | 0 | 0 | %100 |
| 89 | M86 | X | -3.773 | -3.773 | 0 | %100 |
| 90 | M86 | Z | 0 | 0 | 0 | %100 |
| 91 | M88 | X | -3.773 | -3.773 | 0 | %100 |
| 92 | M88 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -.663 | -.663 | 0 | %100 |
| 2 | M1 | Z | -.383 | -.383 | 0 | %100 |
| 3 | M3 | X | -.663 | -.663 | 0 | %100 |
| 4 | M3 | Z | -.383 | -.383 | 0 | %100 |
| 5 | M5 | X | -.651 | -.651 | 0 | %100 |
| 6 | M5 | Z | -.376 | -.376 | 0 | %100 |
| 7 | M13 | X | -.663 | -.663 | 0 | %100 |
| 8 | M13 | Z | -.383 | -.383 | 0 | %100 |
| 9 | M15 | X | -.663 | -.663 | 0 | %100 |
| 10 | M15 | Z | -.383 | -.383 | 0 | %100 |
| 11 | M17 | X | -.651 | -.651 | 0 | %100 |
| 12 | M17 | Z | -.376 | -.376 | 0 | %100 |
| 13 | M25 | X | -2.651 | -2.651 | 0 | %100 |
| 14 | M25 | Z | -1.531 | -1.531 | 0 | %100 |
| 15 | M27 | X | -2.651 | -2.651 | 0 | %100 |
| 16 | M27 | Z | -1.531 | -1.531 | 0 | %100 |
| 17 | M29 | X | -2.604 | -2.604 | 0 | %100 |
| 18 | M29 | Z | -1.503 | -1.503 | 0 | %100 |
| 19 | M37 | X | -.952 | -.952 | 0 | %100 |
| 20 | M37 | Z | -.549 | -.549 | 0 | %100 |
| 21 | M38 | X | -3.806 | -3.806 | 0 | %100 |
| 22 | M38 | Z | -2.198 | -2.198 | 0 | %100 |
| 23 | M39 | X | -.952 | -.952 | 0 | %100 |
| 24 | M39 | Z | -.549 | -.549 | 0 | %100 |
| 25 | M40 | X | -2.01 | -2.01 | 0 | %100 |
| 26 | M40 | Z | -1.16 | -1.16 | 0 | %100 |
| 27 | M41 | X | -2.01 | -2.01 | 0 | %100 |
| 28 | M41 | Z | -1.16 | -1.16 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | -1.831 | -1.831 | 0 | %100 |
| 32 | M43 | Z | -1.057 | -1.057 | 0 | %100 |
| 33 | M47 | X | -1.831 | -1.831 | 0 | %100 |
| 34 | M47 | Z | -1.057 | -1.057 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | -3.136 | -3.136 | 0 | %100 |
| 38 | M70 | Z | -1.811 | -1.811 | 0 | %100 |
| 39 | M109A | X | -1.77 | -1.77 | 0 | %100 |
| 40 | M109A | Z | -1.022 | -1.022 | 0 | %100 |
| 41 | M110A | X | -1.602 | -1.602 | 0 | %100 |
| 42 | M110A | Z | -.925 | -.925 | 0 | %100 |
| 43 | M111 | X | -1.19 | -1.19 | 0 | %100 |
| 44 | M111 | Z | -.687 | -.687 | 0 | %100 |
| 45 | M112A | X | -2.384 | -2.384 | 0 | %100 |
| 46 | M112A | Z | -1.376 | -1.376 | 0 | %100 |
| 47 | M113A | X | -.057 | -.057 | 0 | %100 |
| 48 | M113A | Z | -.033 | -.033 | 0 | %100 |
| 49 | M114 | X | -.077 | -.077 | 0 | %100 |
| 50 | M114 | Z | -.045 | -.045 | 0 | %100 |
| 51 | M37A | X | -.6 | -.6 | 0 | %100 |
| 52 | M37A | Z | -.346 | -.346 | 0 | %100 |
| 53 | M38A | X | -.6 | -.6 | 0 | %100 |
| 54 | M38A | Z | -.346 | -.346 | 0 | %100 |
| 55 | M39A | X | -2.399 | -2.399 | 0 | %100 |
| 56 | M39A | Z | -1.385 | -1.385 | 0 | %100 |
| 57 | MP4A | X | -2.399 | -2.399 | 0 | %100 |
| 58 | MP4A | Z | -1.385 | -1.385 | 0 | %100 |
| 59 | MP2A | X | -2.399 | -2.399 | 0 | %100 |
| 60 | MP2A | Z | -1.385 | -1.385 | 0 | %100 |
| 61 | MP1A | X | -2.399 | -2.399 | 0 | %100 |
| 62 | MP1A | Z | -1.385 | -1.385 | 0 | %100 |
| 63 | MP3A | X | -2.655 | -2.655 | 0 | %100 |
| 64 | MP3A | Z | -1.533 | -1.533 | 0 | %100 |
| 65 | MP4C | X | -2.399 | -2.399 | 0 | %100 |
| 66 | MP4C | Z | -1.385 | -1.385 | 0 | %100 |
| 67 | MP2C | X | -2.399 | -2.399 | 0 | %100 |
| 68 | MP2C | Z | -1.385 | -1.385 | 0 | %100 |
| 69 | MP1C | X | -2.399 | -2.399 | 0 | %100 |
| 70 | MP1C | Z | -1.385 | -1.385 | 0 | %100 |
| 71 | MP3C | X | -2.655 | -2.655 | 0 | %100 |
| 72 | MP3C | Z | -1.533 | -1.533 | 0 | %100 |
| 73 | MP4B | X | -2.399 | -2.399 | 0 | %100 |
| 74 | MP4B | Z | -1.385 | -1.385 | 0 | %100 |
| 75 | MP2B | X | -2.399 | -2.399 | 0 | %100 |
| 76 | MP2B | Z | -1.385 | -1.385 | 0 | %100 |
| 77 | MP1B | X | -2.399 | -2.399 | 0 | %100 |
| 78 | MP1B | Z | -1.385 | -1.385 | 0 | %100 |
| 79 | MP3B | X | -2.655 | -2.655 | 0 | %100 |
| 80 | MP3B | Z | -1.533 | -1.533 | 0 | %100 |
| 81 | M82 | X | -.564 | -.564 | 0 | %100 |
| 82 | M82 | Z | -.326 | -.326 | 0 | %100 |
| 83 | M83 | X | -2.257 | -2.257 | 0 | %100 |
| 84 | M83 | Z | -1.303 | -1.303 | 0 | %100 |
| 85 | M84 | X | -.564 | -.564 | 0 | %100 |
| 86 | M84 | Z | -.326 | -.326 | 0 | %100 |
| 87 | OVP | X | -2.275 | -2.275 | 0 | %100 |
| 88 | OVP | Z | -1.314 | -1.314 | 0 | %100 |
| 89 | M86 | X | -3.136 | -3.136 | 0 | %100 |
| 90 | M86 | Z | -1.811 | -1.811 | 0 | %100 |
| 91 | M88 | X | -3.136 | -3.136 | 0 | %100 |
| 92 | M88 | Z | -1.811 | -1.811 | 0 | %100 |

## Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -1.148 | -1.148 | 0 | %100 |
| 2 | M1 | Z | -1.988 | -1.988 | 0 | %100 |
| 3 | M3 | X | -1.148 | -1.148 | 0 | %100 |
| 4 | M3 | Z | -1.988 | -1.988 | 0 | %100 |
| 5 | M5 | X | -1.127 | -1.127 | 0 | %100 |
| 6 | M5 | Z | -1.953 | -1.953 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | -1.148 | -1.148 | 0 | %100 |
| 14 | M25 | Z | -1.988 | -1.988 | 0 | %100 |
| 15 | M27 | X | -1.148 | -1.148 | 0 | %100 |
| 16 | M27 | Z | -1.988 | -1.988 | 0 | %100 |
| 17 | M29 | X | -1.127 | -1.127 | 0 | %100 |
| 18 | M29 | Z | -1.953 | -1.953 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | -1.648 | -1.648 | 0 | %100 |
| 22 | M38 | Z | -2.855 | -2.855 | 0 | %100 |
| 23 | M39 | X | -1.648 | -1.648 | 0 | %100 |
| 24 | M39 | Z | -2.855 | -2.855 | 0 | %100 |
| 25 | M40 | X | -.387 | -.387 | 0 | %100 |
| 26 | M40 | Z | -.67 | -.67 | 0 | %100 |
| 27 | M41 | X | -1.547 | -1.547 | 0 | %100 |
| 28 | M41 | Z | -2.68 | -2.68 | 0 | %100 |
| 29 | M42 | X | -.387 | -.387 | 0 | %100 |
| 30 | M42 | Z | -.67 | -.67 | 0 | %100 |
| 31 | M43 | X | -.352 | -.352 | 0 | %100 |
| 32 | M43 | Z | -.61 | -.61 | 0 | %100 |
| 33 | M47 | X | -1.409 | -1.409 | 0 | %100 |
| 34 | M47 | Z | -2.441 | -2.441 | 0 | %100 |
| 35 | M51 | X | -.352 | -.352 | 0 | %100 |
| 36 | M51 | Z | -.61 | -.61 | 0 | %100 |
| 37 | M70 | X | -1.658 | -1.658 | 0 | %100 |
| 38 | M70 | Z | -2.872 | -2.872 | 0 | %100 |
| 39 | M109A | X | -.475 | -.475 | 0 | %100 |
| 40 | M109A | Z | -.822 | -.822 | 0 | %100 |
| 41 | M110A | X | -.188 | -.188 | 0 | %100 |
| 42 | M110A | Z | -.325 | -.325 | 0 | %100 |
| 43 | M111 | X | -1.128 | -1.128 | 0 | %100 |
| 44 | M111 | Z | -1.954 | -1.954 | 0 | %100 |
| 45 | M112A | X | -1.519 | -1.519 | 0 | %100 |
| 46 | M112A | Z | -2.632 | -2.632 | 0 | %100 |
| 47 | M113A | X | -.139 | -.139 | 0 | %100 |
| 48 | M113A | Z | -.241 | -.241 | 0 | %100 |
| 49 | M114 | X | -.639 | -.639 | 0 | %100 |
| 50 | M114 | Z | -1.107 | -1.107 | 0 | %100 |
| 51 | M37A | X | -1.039 | -1.039 | 0 | %100 |
| 52 | M37A | Z | -1.799 | -1.799 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | -1.039 | -1.039 | 0 | %100 |
| 56 | M39A | Z | -1.799 | -1.799 | 0 | %100 |
| 57 | MP4A | X | -1.385 | -1.385 | 0 | %100 |

## Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | -2.399 | -2.399 | 0 | %100 |
| 59 | MP2A | X | -1.385 | -1.385 | 0 | %100 |
| 60 | MP2A | Z | -2.399 | -2.399 | 0 | %100 |
| 61 | MP1A | X | -1.385 | -1.385 | 0 | %100 |
| 62 | MP1A | Z | -2.399 | -2.399 | 0 | %100 |
| 63 | MP3A | X | -1.533 | -1.533 | 0 | %100 |
| 64 | MP3A | Z | -2.655 | -2.655 | 0 | %100 |
| 65 | MP4C | X | -1.385 | -1.385 | 0 | %100 |
| 66 | MP4C | Z | -2.399 | -2.399 | 0 | %100 |
| 67 | MP2C | X | -1.385 | -1.385 | 0 | %100 |
| 68 | MP2C | Z | -2.399 | -2.399 | 0 | %100 |
| 69 | MP1C | X | -1.385 | -1.385 | 0 | %100 |
| 70 | MP1C | Z | -2.399 | -2.399 | 0 | %100 |
| 71 | MP3C | X | -1.533 | -1.533 | 0 | %100 |
| 72 | MP3C | Z | -2.655 | -2.655 | 0 | %100 |
| 73 | MP4B | X | -1.385 | -1.385 | 0 | %100 |
| 74 | MP4B | Z | -2.399 | -2.399 | 0 | %100 |
| 75 | MP2B | X | -1.385 | -1.385 | 0 | %100 |
| 76 | MP2B | Z | -2.399 | -2.399 | 0 | %100 |
| 77 | MP1B | X | -1.385 | -1.385 | 0 | %100 |
| 78 | MP1B | Z | -2.399 | -2.399 | 0 | %100 |
| 79 | MP3B | X | -1.533 | -1.533 | 0 | %100 |
| 80 | MP3B | Z | -2.655 | -2.655 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | -.977 | -.977 | 0 | %100 |
| 84 | M83 | Z | -1.693 | -1.693 | 0 | %100 |
| 85 | M84 | X | -.977 | -.977 | 0 | %100 |
| 86 | M84 | Z | -1.693 | -1.693 | 0 | %100 |
| 87 | OVP | X | -1.314 | -1.314 | 0 | %100 |
| 88 | OVP | Z | -2.275 | -2.275 | 0 | %100 |
| 89 | M86 | X | -1.658 | -1.658 | 0 | %100 |
| 90 | M86 | Z | -2.872 | -2.872 | 0 | %100 |
| 91 | M88 | X | -1.658 | -1.658 | 0 | %100 |
| 92 | M88 | Z | -2.872 | -2.872 | 0 | %100 |

## Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | -.619 | -.619 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | -.619 | -.619 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | -.609 | -.609 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | -.155 | -.155 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | -.155 | -.155 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | -.152 | -.152 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | -.155 | -.155 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | -.155 | -.155 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | -.152 | -.152 | 0 | %100 |

## Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | -.319 | -.319 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | -.319 | -.319 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | -1.278 | -1.278 | 0 | %100 |
| 25 | M40 | X | 0 | 0 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | -.467 | -.467 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | -.467 | -.467 | 0 | %100 |
| 31 | M43 | X | 0 | 0 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | -.425 | -.425 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | -.425 | -.425 | 0 | %100 |
| 37 | M70 | X | 0 | 0 | 0 | %100 |
| 38 | M70 | Z | -.841 | -.841 | 0 | %100 |
| 39 | M109A | X | 0 | 0 | 0 | %100 |
| 40 | M109A | Z | -.012 | -.012 | 0 | %100 |
| 41 | M110A | X | 0 | 0 | 0 | %100 |
| 42 | M110A | Z | -.021 | -.021 | 0 | %100 |
| 43 | M111 | X | 0 | 0 | 0 | %100 |
| 44 | M111 | Z | -.382 | -.382 | 0 | %100 |
| 45 | M112A | X | 0 | 0 | 0 | %100 |
| 46 | M112A | Z | -.428 | -.428 | 0 | %100 |
| 47 | M113A | X | 0 | 0 | 0 | %100 |
| 48 | M113A | Z | -.257 | -.257 | 0 | %100 |
| 49 | M114 | X | 0 | 0 | 0 | %100 |
| 50 | M114 | Z | -.637 | -.637 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | -.506 | -.506 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | -.126 | -.126 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | -.126 | -.126 | 0 | %100 |
| 57 | MP4A | X | 0 | 0 | 0 | %100 |
| 58 | MP4A | Z | -.506 | -.506 | 0 | %100 |
| 59 | MP2A | X | 0 | 0 | 0 | %100 |
| 60 | MP2A | Z | -.506 | -.506 | 0 | %100 |
| 61 | MP1A | X | 0 | 0 | 0 | %100 |
| 62 | MP1A | Z | -.506 | -.506 | 0 | %100 |
| 63 | MP3A | X | 0 | 0 | 0 | %100 |
| 64 | MP3A | Z | -.612 | -.612 | 0 | %100 |
| 65 | MP4C | X | 0 | 0 | 0 | %100 |
| 66 | MP4C | Z | -.506 | -.506 | 0 | %100 |
| 67 | MP2C | X | 0 | 0 | 0 | %100 |
| 68 | MP2C | Z | -.506 | -.506 | 0 | %100 |
| 69 | MP1C | X | 0 | 0 | 0 | %100 |
| 70 | MP1C | Z | -.506 | -.506 | 0 | %100 |
| 71 | MP3C | X | 0 | 0 | 0 | %100 |
| 72 | MP3C | Z | -.612 | -.612 | 0 | %100 |
| 73 | MP4B | X | 0 | 0 | 0 | %100 |
| 74 | MP4B | Z | -.506 | -.506 | 0 | %100 |
| 75 | MP2B | X | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | -.506 | -.506 | 0 | %100 |
| 77 | MP1B | X | 0 | 0 | 0 | %100 |
| 78 | MP1B | Z | -.506 | -.506 | 0 | %100 |
| 79 | MP3B | X | 0 | 0 | 0 | %100 |
| 80 | MP3B | Z | -.612 | -.612 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | -.153 | -.153 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | -.153 | -.153 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | -.611 | -.611 | 0 | %100 |
| 87 | OVP | X | 0 | 0 | 0 | %100 |
| 88 | OVP | Z | -.477 | -.477 | 0 | %100 |
| 89 | M86 | X | 0 | 0 | 0 | %100 |
| 90 | M86 | Z | -.841 | -.841 | 0 | %100 |
| 91 | M88 | X | 0 | 0 | 0 | %100 |
| 92 | M88 | Z | -.841 | -.841 | 0 | %100 |

## Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | .232 | .232 | 0 | %100 |
| 2 | M1 | Z | -.402 | -.402 | 0 | %100 |
| 3 | M3 | X | .232 | .232 | 0 | %100 |
| 4 | M3 | Z | -.402 | -.402 | 0 | %100 |
| 5 | M5 | X | .229 | .229 | 0 | %100 |
| 6 | M5 | Z | -.396 | -.396 | 0 | %100 |
| 7 | M13 | X | .232 | .232 | 0 | %100 |
| 8 | M13 | Z | -.402 | -.402 | 0 | %100 |
| 9 | M15 | X | .232 | .232 | 0 | %100 |
| 10 | M15 | Z | -.402 | -.402 | 0 | %100 |
| 11 | M17 | X | .229 | .229 | 0 | %100 |
| 12 | M17 | Z | -.396 | -.396 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | .479 | .479 | 0 | %100 |
| 20 | M37 | Z | -.83 | -.83 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | .479 | .479 | 0 | %100 |
| 24 | M39 | Z | -.83 | -.83 | 0 | %100 |
| 25 | M40 | X | .078 | .078 | 0 | %100 |
| 26 | M40 | Z | -.135 | -.135 | 0 | %100 |
| 27 | M41 | X | .078 | .078 | 0 | %100 |
| 28 | M41 | Z | -.135 | -.135 | 0 | %100 |
| 29 | M42 | X | .311 | .311 | 0 | %100 |
| 30 | M42 | Z | -.539 | -.539 | 0 | %100 |
| 31 | M43 | X | .071 | .071 | 0 | %100 |
| 32 | M43 | Z | -.123 | -.123 | 0 | %100 |
| 33 | M47 | X | .071 | .071 | 0 | %100 |
| 34 | M47 | Z | -.123 | -.123 | 0 | %100 |
| 35 | M51 | X | .284 | .284 | 0 | %100 |
| 36 | M51 | Z | -.491 | -.491 | 0 | %100 |

## Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | .424 | .424 | 0 | %100 |
| 38 | M70 | Z | -.734 | -.734 | 0 | %100 |
| 39 | M109A | X | .026 | .026 | 0 | %100 |
| 40 | M109A | Z | -.045 | -.045 | 0 | %100 |
| 41 | M110A | X | .148 | .148 | 0 | %100 |
| 42 | M110A | Z | -.256 | -.256 | 0 | %100 |
| 43 | M111 | X | .089 | .089 | 0 | %100 |
| 44 | M111 | Z | -.154 | -.154 | 0 | %100 |
| 45 | M112A | X | .043 | .043 | 0 | %100 |
| 46 | M112A | Z | -.075 | -.075 | 0 | %100 |
| 47 | M113A | X | .211 | .211 | 0 | %100 |
| 48 | M113A | Z | -.366 | -.366 | 0 | %100 |
| 49 | M114 | X | .352 | .352 | 0 | %100 |
| 50 | M114 | Z | -.609 | -.609 | 0 | %100 |
| 51 | M37A | X | .19 | .19 | 0 | %100 |
| 52 | M37A | Z | -.329 | -.329 | 0 | %100 |
| 53 | M38A | X | .19 | .19 | 0 | %100 |
| 54 | M38A | Z | -.329 | -.329 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | .253 | .253 | 0 | %100 |
| 58 | MP4A | Z | -.438 | -.438 | 0 | %100 |
| 59 | MP2A | X | .253 | .253 | 0 | %100 |
| 60 | MP2A | Z | -.438 | -.438 | 0 | %100 |
| 61 | MP1A | X | .253 | .253 | 0 | %100 |
| 62 | MP1A | Z | -.438 | -.438 | 0 | %100 |
| 63 | MP3A | X | .306 | .306 | 0 | %100 |
| 64 | MP3A | Z | -.53 | -.53 | 0 | %100 |
| 65 | MP4C | X | .253 | .253 | 0 | %100 |
| 66 | MP4C | Z | -.438 | -.438 | 0 | %100 |
| 67 | MP2C | X | .253 | .253 | 0 | %100 |
| 68 | MP2C | Z | -.438 | -.438 | 0 | %100 |
| 69 | MP1C | X | .253 | .253 | 0 | %100 |
| 70 | MP1C | Z | -.438 | -.438 | 0 | %100 |
| 71 | MP3C | X | .306 | .306 | 0 | %100 |
| 72 | MP3C | Z | -.53 | -.53 | 0 | %100 |
| 73 | MP4B | X | .253 | .253 | 0 | %100 |
| 74 | MP4B | Z | -.438 | -.438 | 0 | %100 |
| 75 | MP2B | X | .253 | .253 | 0 | %100 |
| 76 | MP2B | Z | -.438 | -.438 | 0 | %100 |
| 77 | MP1B | X | .253 | .253 | 0 | %100 |
| 78 | MP1B | Z | -.438 | -.438 | 0 | %100 |
| 79 | MP3B | X | .306 | .306 | 0 | %100 |
| 80 | MP3B | Z | -.53 | -.53 | 0 | %100 |
| 81 | M82 | X | .229 | .229 | 0 | %100 |
| 82 | M82 | Z | -.397 | -.397 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | .229 | .229 | 0 | %100 |
| 86 | M84 | Z | -.397 | -.397 | 0 | %100 |
| 87 | OVP | X | .238 | .238 | 0 | %100 |
| 88 | OVP | Z | -.413 | -.413 | 0 | %100 |
| 89 | M86 | X | .424 | .424 | 0 | %100 |
| 90 | M86 | Z | -.734 | -.734 | 0 | %100 |
| 91 | M88 | X | .424 | .424 | 0 | %100 |
| 92 | M88 | Z | -.734 | -.734 | 0 | %100 |

## Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | .134 | .134 | 0 | %100 |
| 2 | M1 | Z | -.077 | -.077 | 0 | %100 |
| 3 | M3 | X | .134 | .134 | 0 | %100 |
| 4 | M3 | Z | -.077 | -.077 | 0 | %100 |
| 5 | M5 | X | .132 | .132 | 0 | %100 |
| 6 | M5 | Z | -.076 | -.076 | 0 | %100 |
| 7 | M13 | X | .536 | .536 | 0 | %100 |
| 8 | M13 | Z | -.31 | -.31 | 0 | %100 |
| 9 | M15 | X | .536 | .536 | 0 | %100 |
| 10 | M15 | Z | -.31 | -.31 | 0 | %100 |
| 11 | M17 | X | .528 | .528 | 0 | %100 |
| 12 | M17 | Z | -.305 | -.305 | 0 | %100 |
| 13 | M25 | X | .134 | .134 | 0 | %100 |
| 14 | M25 | Z | -.077 | -.077 | 0 | %100 |
| 15 | M27 | X | .134 | .134 | 0 | %100 |
| 16 | M27 | Z | -.077 | -.077 | 0 | %100 |
| 17 | M29 | X | .132 | .132 | 0 | %100 |
| 18 | M29 | Z | -.076 | -.076 | 0 | %100 |
| 19 | M37 | X | 1.107 | 1.107 | 0 | %100 |
| 20 | M37 | Z | -.639 | -.639 | 0 | %100 |
| 21 | M38 | X | .277 | .277 | 0 | %100 |
| 22 | M38 | Z | -.16 | -.16 | 0 | %100 |
| 23 | M39 | X | .277 | .277 | 0 | %100 |
| 24 | M39 | Z | -.16 | -.16 | 0 | %100 |
| 25 | M40 | X | .404 | .404 | 0 | %100 |
| 26 | M40 | Z | -.233 | -.233 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | .404 | .404 | 0 | %100 |
| 30 | M42 | Z | -.233 | -.233 | 0 | %100 |
| 31 | M43 | X | .368 | .368 | 0 | %100 |
| 32 | M43 | Z | -.213 | -.213 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | .368 | .368 | 0 | %100 |
| 36 | M51 | Z | -.213 | -.213 | 0 | %100 |
| 37 | M70 | X | .745 | .745 | 0 | %100 |
| 38 | M70 | Z | -.43 | -.43 | 0 | %100 |
| 39 | M109A | X | .223 | .223 | 0 | %100 |
| 40 | M109A | Z | -.129 | -.129 | 0 | %100 |
| 41 | M110A | X | .552 | .552 | 0 | %100 |
| 42 | M110A | Z | -.319 | -.319 | 0 | %100 |
| 43 | M111 | X | .011 | .011 | 0 | %100 |
| 44 | M111 | Z | -.006 | -.006 | 0 | %100 |
| 45 | M112A | X | .018 | .018 | 0 | %100 |
| 46 | M112A | Z | -.01 | -.01 | 0 | %100 |
| 47 | M113A | X | .331 | .331 | 0 | %100 |
| 48 | M113A | Z | -.191 | -.191 | 0 | %100 |
| 49 | M114 | X | .371 | .371 | 0 | %100 |
| 50 | M114 | Z | -.214 | -.214 | 0 | %100 |
| 51 | M37A | X | .11 | .11 | 0 | %100 |
| 52 | M37A | Z | -.063 | -.063 | 0 | %100 |
| 53 | M38A | X | .438 | .438 | 0 | %100 |
| 54 | M38A | Z | -.253 | -.253 | 0 | %100 |
| 55 | M39A | X | .11 | .11 | 0 | %100 |
| 56 | M39A | Z | -.063 | -.063 | 0 | %100 |
| 57 | MP4A | X | .438 | .438 | 0 | %100 |

## Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | -.253 | -.253 | 0 | %100 |
| 59 | MP2A | X | .438 | .438 | 0 | %100 |
| 60 | MP2A | Z | -.253 | -.253 | 0 | %100 |
| 61 | MP1A | X | .438 | .438 | 0 | %100 |
| 62 | MP1A | Z | -.253 | -.253 | 0 | %100 |
| 63 | MP3A | X | .53 | .53 | 0 | %100 |
| 64 | MP3A | Z | -.306 | -.306 | 0 | %100 |
| 65 | MP4C | X | .438 | .438 | 0 | %100 |
| 66 | MP4C | Z | -.253 | -.253 | 0 | %100 |
| 67 | MP2C | X | .438 | .438 | 0 | %100 |
| 68 | MP2C | Z | -.253 | -.253 | 0 | %100 |
| 69 | MP1C | X | .438 | .438 | 0 | %100 |
| 70 | MP1C | Z | -.253 | -.253 | 0 | %100 |
| 71 | MP3C | X | .53 | .53 | 0 | %100 |
| 72 | MP3C | Z | -.306 | -.306 | 0 | %100 |
| 73 | MP4B | X | .438 | .438 | 0 | %100 |
| 74 | MP4B | Z | -.253 | -.253 | 0 | %100 |
| 75 | MP2B | X | .438 | .438 | 0 | %100 |
| 76 | MP2B | Z | -.253 | -.253 | 0 | %100 |
| 77 | MP1B | X | .438 | .438 | 0 | %100 |
| 78 | MP1B | Z | -.253 | -.253 | 0 | %100 |
| 79 | MP3B | X | .53 | .53 | 0 | %100 |
| 80 | MP3B | Z | -.306 | -.306 | 0 | %100 |
| 81 | M82 | X | .529 | .529 | 0 | %100 |
| 82 | M82 | Z | -.305 | -.305 | 0 | %100 |
| 83 | M83 | X | .132 | .132 | 0 | %100 |
| 84 | M83 | Z | -.076 | -.076 | 0 | %100 |
| 85 | M84 | X | .132 | .132 | 0 | %100 |
| 86 | M84 | Z | -.076 | -.076 | 0 | %100 |
| 87 | OVP | X | .413 | .413 | 0 | %100 |
| 88 | OVP | Z | -.238 | -.238 | 0 | %100 |
| 89 | M86 | X | .745 | .745 | 0 | %100 |
| 90 | M86 | Z | -.43 | -.43 | 0 | %100 |
| 91 | M88 | X | .745 | .745 | 0 | %100 |
| 92 | M88 | Z | -.43 | -.43 | 0 | %100 |

## Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M13 | X | .464 | .464 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | .464 | .464 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | .457 | .457 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | .464 | .464 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | .464 | .464 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | .457 | .457 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | .958 | .958 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | .958 | .958 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 0 | 0 | 0 | %100 |
| 25 | M40 | X | .622 | .622 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | .156 | .156 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | .156 | .156 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | .567 | .567 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | .142 | .142 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | .142 | .142 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | .867 | .867 | 0 | %100 |
| 38 | M70 | Z | 0 | 0 | 0 | %100 |
| 39 | M109A | X | .422 | .422 | 0 | %100 |
| 40 | M109A | Z | 0 | 0 | 0 | %100 |
| 41 | M110A | X | .704 | .704 | 0 | %100 |
| 42 | M110A | Z | 0 | 0 | 0 | %100 |
| 43 | M111 | X | .052 | .052 | 0 | %100 |
| 44 | M111 | Z | 0 | 0 | 0 | %100 |
| 45 | M112A | X | .296 | .296 | 0 | %100 |
| 46 | M112A | Z | 0 | 0 | 0 | %100 |
| 47 | M113A | X | .178 | .178 | 0 | %100 |
| 48 | M113A | Z | 0 | 0 | 0 | %100 |
| 49 | M114 | X | .087 | .087 | 0 | %100 |
| 50 | M114 | Z | 0 | 0 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 0 | 0 | 0 | %100 |
| 53 | M38A | X | .379 | .379 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | .379 | .379 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | .506 | .506 | 0 | %100 |
| 58 | MP4A | Z | 0 | 0 | 0 | %100 |
| 59 | MP2A | X | .506 | .506 | 0 | %100 |
| 60 | MP2A | Z | 0 | 0 | 0 | %100 |
| 61 | MP1A | X | .506 | .506 | 0 | %100 |
| 62 | MP1A | Z | 0 | 0 | 0 | %100 |
| 63 | MP3A | X | .612 | .612 | 0 | %100 |
| 64 | MP3A | Z | 0 | 0 | 0 | %100 |
| 65 | MP4C | X | .506 | .506 | 0 | %100 |
| 66 | MP4C | Z | 0 | 0 | 0 | %100 |
| 67 | MP2C | X | .506 | .506 | 0 | %100 |
| 68 | MP2C | Z | 0 | 0 | 0 | %100 |
| 69 | MP1C | X | .506 | .506 | 0 | %100 |
| 70 | MP1C | Z | 0 | 0 | 0 | %100 |
| 71 | MP3C | X | .612 | .612 | 0 | %100 |
| 72 | MP3C | Z | 0 | 0 | 0 | %100 |
| 73 | MP4B | X | .506 | .506 | 0 | %100 |
| 74 | MP4B | Z | 0 | 0 | 0 | %100 |
| 75 | MP2B | X | .506 | .506 | 0 | %100 |

## Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 0 | 0 | 0 | %100 |
| 77 | MP1B | X | .506 | .506 | 0 | %100 |
| 78 | MP1B | Z | 0 | 0 | 0 | %100 |
| 79 | MP3B | X | .612 | .612 | 0 | %100 |
| 80 | MP3B | Z | 0 | 0 | 0 | %100 |
| 81 | M82 | X | .458 | .458 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | .458 | .458 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 0 | 0 | 0 | %100 |
| 87 | OVP | X | .477 | .477 | 0 | %100 |
| 88 | OVP | Z | 0 | 0 | 0 | %100 |
| 89 | M86 | X | .867 | .867 | 0 | %100 |
| 90 | M86 | Z | 0 | 0 | 0 | %100 |
| 91 | M88 | X | .867 | .867 | 0 | %100 |
| 92 | M88 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | .134 | .134 | 0 | %100 |
| 2 | M1 | Z | .077 | .077 | 0 | %100 |
| 3 | M3 | X | .134 | .134 | 0 | %100 |
| 4 | M3 | Z | .077 | .077 | 0 | %100 |
| 5 | M5 | X | .132 | .132 | 0 | %100 |
| 6 | M5 | Z | .076 | .076 | 0 | %100 |
| 7 | M13 | X | .134 | .134 | 0 | %100 |
| 8 | M13 | Z | .077 | .077 | 0 | %100 |
| 9 | M15 | X | .134 | .134 | 0 | %100 |
| 10 | M15 | Z | .077 | .077 | 0 | %100 |
| 11 | M17 | X | .132 | .132 | 0 | %100 |
| 12 | M17 | Z | .076 | .076 | 0 | %100 |
| 13 | M25 | X | .536 | .536 | 0 | %100 |
| 14 | M25 | Z | .31 | .31 | 0 | %100 |
| 15 | M27 | X | .536 | .536 | 0 | %100 |
| 16 | M27 | Z | .31 | .31 | 0 | %100 |
| 17 | M29 | X | .528 | .528 | 0 | %100 |
| 18 | M29 | Z | .305 | .305 | 0 | %100 |
| 19 | M37 | X | .277 | .277 | 0 | %100 |
| 20 | M37 | Z | .16 | .16 | 0 | %100 |
| 21 | M38 | X | 1.107 | 1.107 | 0 | %100 |
| 22 | M38 | Z | .639 | .639 | 0 | %100 |
| 23 | M39 | X | .277 | .277 | 0 | %100 |
| 24 | M39 | Z | .16 | .16 | 0 | %100 |
| 25 | M40 | X | .404 | .404 | 0 | %100 |
| 26 | M40 | Z | .233 | .233 | 0 | %100 |
| 27 | M41 | X | .404 | .404 | 0 | %100 |
| 28 | M41 | Z | .233 | .233 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | .368 | .368 | 0 | %100 |
| 32 | M43 | Z | .213 | .213 | 0 | %100 |
| 33 | M47 | X | .368 | .368 | 0 | %100 |
| 34 | M47 | Z | .213 | .213 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | .745 | .745 | 0 | %100 |
| 38 | M70 | Z | .43 | .43 | 0 | %100 |
| 39 | M109A | X | .331 | .331 | 0 | %100 |
| 40 | M109A | Z | .191 | .191 | 0 | %100 |
| 41 | M110A | X | .371 | .371 | 0 | %100 |
| 42 | M110A | Z | .214 | .214 | 0 | %100 |
| 43 | M111 | X | .223 | .223 | 0 | %100 |
| 44 | M111 | Z | .129 | .129 | 0 | %100 |
| 45 | M112A | X | .552 | .552 | 0 | %100 |
| 46 | M112A | Z | .319 | .319 | 0 | %100 |
| 47 | M113A | X | .011 | .011 | 0 | %100 |
| 48 | M113A | Z | .006 | .006 | 0 | %100 |
| 49 | M114 | X | .018 | .018 | 0 | %100 |
| 50 | M114 | Z | .01 | .01 | 0 | %100 |
| 51 | M37A | X | .11 | .11 | 0 | %100 |
| 52 | M37A | Z | .063 | .063 | 0 | %100 |
| 53 | M38A | X | .11 | .11 | 0 | %100 |
| 54 | M38A | Z | .063 | .063 | 0 | %100 |
| 55 | M39A | X | .438 | .438 | 0 | %100 |
| 56 | M39A | Z | .253 | .253 | 0 | %100 |
| 57 | MP4A | X | .438 | .438 | 0 | %100 |
| 58 | MP4A | Z | .253 | .253 | 0 | %100 |
| 59 | MP2A | X | .438 | .438 | 0 | %100 |
| 60 | MP2A | Z | .253 | .253 | 0 | %100 |
| 61 | MP1A | X | .438 | .438 | 0 | %100 |
| 62 | MP1A | Z | .253 | .253 | 0 | %100 |
| 63 | MP3A | X | .53 | .53 | 0 | %100 |
| 64 | MP3A | Z | .306 | .306 | 0 | %100 |
| 65 | MP4C | X | .438 | .438 | 0 | %100 |
| 66 | MP4C | Z | .253 | .253 | 0 | %100 |
| 67 | MP2C | X | .438 | .438 | 0 | %100 |
| 68 | MP2C | Z | .253 | .253 | 0 | %100 |
| 69 | MP1C | X | .438 | .438 | 0 | %100 |
| 70 | MP1C | Z | .253 | .253 | 0 | %100 |
| 71 | MP3C | X | .53 | .53 | 0 | %100 |
| 72 | MP3C | Z | .306 | .306 | 0 | %100 |
| 73 | MP4B | X | .438 | .438 | 0 | %100 |
| 74 | MP4B | Z | .253 | .253 | 0 | %100 |
| 75 | MP2B | X | .438 | .438 | 0 | %100 |
| 76 | MP2B | Z | .253 | .253 | 0 | %100 |
| 77 | MP1B | X | .438 | .438 | 0 | %100 |
| 78 | MP1B | Z | .253 | .253 | 0 | %100 |
| 79 | MP3B | X | .53 | .53 | 0 | %100 |
| 80 | MP3B | Z | .306 | .306 | 0 | %100 |
| 81 | M82 | X | .132 | .132 | 0 | %100 |
| 82 | M82 | Z | .076 | .076 | 0 | %100 |
| 83 | M83 | X | .529 | .529 | 0 | %100 |
| 84 | M83 | Z | .305 | .305 | 0 | %100 |
| 85 | M84 | X | .132 | .132 | 0 | %100 |
| 86 | M84 | Z | .076 | .076 | 0 | %100 |
| 87 | OVP | X | .413 | .413 | 0 | %100 |
| 88 | OVP | Z | .238 | .238 | 0 | %100 |
| 89 | M86 | X | .745 | .745 | 0 | %100 |
| 90 | M86 | Z | .43 | .43 | 0 | %100 |
| 91 | M88 | X | .745 | .745 | 0 | %100 |
| 92 | M88 | Z | .43 | .43 | 0 | %100 |

## Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | .232 | .232 | 0 | %100 |
| 2 | M1 | Z | .402 | .402 | 0 | %100 |
| 3 | M3 | X | .232 | .232 | 0 | %100 |
| 4 | M3 | Z | .402 | .402 | 0 | %100 |
| 5 | M5 | X | .229 | .229 | 0 | %100 |
| 6 | M5 | Z | .396 | .396 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | .232 | .232 | 0 | %100 |
| 14 | M25 | Z | .402 | .402 | 0 | %100 |
| 15 | M27 | X | .232 | .232 | 0 | %100 |
| 16 | M27 | Z | .402 | .402 | 0 | %100 |
| 17 | M29 | X | .229 | .229 | 0 | %100 |
| 18 | M29 | Z | .396 | .396 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | .479 | .479 | 0 | %100 |
| 22 | M38 | Z | .83 | .83 | 0 | %100 |
| 23 | M39 | X | .479 | .479 | 0 | %100 |
| 24 | M39 | Z | .83 | .83 | 0 | %100 |
| 25 | M40 | X | .078 | .078 | 0 | %100 |
| 26 | M40 | Z | .135 | .135 | 0 | %100 |
| 27 | M41 | X | .311 | .311 | 0 | %100 |
| 28 | M41 | Z | .539 | .539 | 0 | %100 |
| 29 | M42 | X | .078 | .078 | 0 | %100 |
| 30 | M42 | Z | .135 | .135 | 0 | %100 |
| 31 | M43 | X | .071 | .071 | 0 | %100 |
| 32 | M43 | Z | .123 | .123 | 0 | %100 |
| 33 | M47 | X | .284 | .284 | 0 | %100 |
| 34 | M47 | Z | .491 | .491 | 0 | %100 |
| 35 | M51 | X | .071 | .071 | 0 | %100 |
| 36 | M51 | Z | .123 | .123 | 0 | %100 |
| 37 | M70 | X | .424 | .424 | 0 | %100 |
| 38 | M70 | Z | .734 | .734 | 0 | %100 |
| 39 | M109A | X | .089 | .089 | 0 | %100 |
| 40 | M109A | Z | .154 | .154 | 0 | %100 |
| 41 | M110A | X | .043 | .043 | 0 | %100 |
| 42 | M110A | Z | .075 | .075 | 0 | %100 |
| 43 | M111 | X | .211 | .211 | 0 | %100 |
| 44 | M111 | Z | .366 | .366 | 0 | %100 |
| 45 | M112A | X | .352 | .352 | 0 | %100 |
| 46 | M112A | Z | .609 | .609 | 0 | %100 |
| 47 | M113A | X | .026 | .026 | 0 | %100 |
| 48 | M113A | Z | .045 | .045 | 0 | %100 |
| 49 | M114 | X | .148 | .148 | 0 | %100 |
| 50 | M114 | Z | .256 | .256 | 0 | %100 |
| 51 | M37A | X | .19 | .19 | 0 | %100 |
| 52 | M37A | Z | .329 | .329 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | .19 | .19 | 0 | %100 |
| 56 | M39A | Z | .329 | .329 | 0 | %100 |
| 57 | MP4A | X | .253 | .253 | 0 | %100 |

## Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | .438 | .438 | 0 | %100 |
| 59 | MP2A | X | .253 | .253 | 0 | %100 |
| 60 | MP2A | Z | .438 | .438 | 0 | %100 |
| 61 | MP1A | X | .253 | .253 | 0 | %100 |
| 62 | MP1A | Z | .438 | .438 | 0 | %100 |
| 63 | MP3A | X | .306 | .306 | 0 | %100 |
| 64 | MP3A | Z | .53 | .53 | 0 | %100 |
| 65 | MP4C | X | .253 | .253 | 0 | %100 |
| 66 | MP4C | Z | .438 | .438 | 0 | %100 |
| 67 | MP2C | X | .253 | .253 | 0 | %100 |
| 68 | MP2C | Z | .438 | .438 | 0 | %100 |
| 69 | MP1C | X | .253 | .253 | 0 | %100 |
| 70 | MP1C | Z | .438 | .438 | 0 | %100 |
| 71 | MP3C | X | .306 | .306 | 0 | %100 |
| 72 | MP3C | Z | .53 | .53 | 0 | %100 |
| 73 | MP4B | X | .253 | .253 | 0 | %100 |
| 74 | MP4B | Z | .438 | .438 | 0 | %100 |
| 75 | MP2B | X | .253 | .253 | 0 | %100 |
| 76 | MP2B | Z | .438 | .438 | 0 | %100 |
| 77 | MP1B | X | .253 | .253 | 0 | %100 |
| 78 | MP1B | Z | .438 | .438 | 0 | %100 |
| 79 | MP3B | X | .306 | .306 | 0 | %100 |
| 80 | MP3B | Z | .53 | .53 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | .229 | .229 | 0 | %100 |
| 84 | M83 | Z | .397 | .397 | 0 | %100 |
| 85 | M84 | X | .229 | .229 | 0 | %100 |
| 86 | M84 | Z | .397 | .397 | 0 | %100 |
| 87 | OVP | X | .238 | .238 | 0 | %100 |
| 88 | OVP | Z | .413 | .413 | 0 | %100 |
| 89 | M86 | X | .424 | .424 | 0 | %100 |
| 90 | M86 | Z | .734 | .734 | 0 | %100 |
| 91 | M88 | X | .424 | .424 | 0 | %100 |
| 92 | M88 | Z | .734 | .734 | 0 | %100 |

## Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | .619 | .619 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | .619 | .619 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | .609 | .609 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | .155 | .155 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | .155 | .155 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | .152 | .152 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | .155 | .155 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | .155 | .155 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | .152 | .152 | 0 | %100 |

## Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | .319 | .319 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | .319 | .319 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 1.278 | 1.278 | 0 | %100 |
| 25 | M40 | X | 0 | 0 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | .467 | .467 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | .467 | .467 | 0 | %100 |
| 31 | M43 | X | 0 | 0 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | .425 | .425 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | .425 | .425 | 0 | %100 |
| 37 | M70 | X | 0 | 0 | 0 | %100 |
| 38 | M70 | Z | .841 | .841 | 0 | %100 |
| 39 | M109A | X | 0 | 0 | 0 | %100 |
| 40 | M109A | Z | .012 | .012 | 0 | %100 |
| 41 | M110A | X | 0 | 0 | 0 | %100 |
| 42 | M110A | Z | .021 | .021 | 0 | %100 |
| 43 | M111 | X | 0 | 0 | 0 | %100 |
| 44 | M111 | Z | .382 | .382 | 0 | %100 |
| 45 | M112A | X | 0 | 0 | 0 | %100 |
| 46 | M112A | Z | .428 | .428 | 0 | %100 |
| 47 | M113A | X | 0 | 0 | 0 | %100 |
| 48 | M113A | Z | .257 | .257 | 0 | %100 |
| 49 | M114 | X | 0 | 0 | 0 | %100 |
| 50 | M114 | Z | .637 | .637 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | .506 | .506 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | .126 | .126 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | .126 | .126 | 0 | %100 |
| 57 | MP4A | X | 0 | 0 | 0 | %100 |
| 58 | MP4A | Z | .506 | .506 | 0 | %100 |
| 59 | MP2A | X | 0 | 0 | 0 | %100 |
| 60 | MP2A | Z | .506 | .506 | 0 | %100 |
| 61 | MP1A | X | 0 | 0 | 0 | %100 |
| 62 | MP1A | Z | .506 | .506 | 0 | %100 |
| 63 | MP3A | X | 0 | 0 | 0 | %100 |
| 64 | MP3A | Z | .612 | .612 | 0 | %100 |
| 65 | MP4C | X | 0 | 0 | 0 | %100 |
| 66 | MP4C | Z | .506 | .506 | 0 | %100 |
| 67 | MP2C | X | 0 | 0 | 0 | %100 |
| 68 | MP2C | Z | .506 | .506 | 0 | %100 |
| 69 | MP1C | X | 0 | 0 | 0 | %100 |
| 70 | MP1C | Z | .506 | .506 | 0 | %100 |
| 71 | MP3C | X | 0 | 0 | 0 | %100 |
| 72 | MP3C | Z | .612 | .612 | 0 | %100 |
| 73 | MP4B | X | 0 | 0 | 0 | %100 |
| 74 | MP4B | Z | .506 | .506 | 0 | %100 |
| 75 | MP2B | X | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | .506 | .506 | 0 | %100 |
| 77 | MP1B | X | 0 | 0 | 0 | %100 |
| 78 | MP1B | Z | .506 | .506 | 0 | %100 |
| 79 | MP3B | X | 0 | 0 | 0 | %100 |
| 80 | MP3B | Z | .612 | .612 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | .153 | .153 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | .153 | .153 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | .611 | .611 | 0 | %100 |
| 87 | OVP | X | 0 | 0 | 0 | %100 |
| 88 | OVP | Z | .477 | .477 | 0 | %100 |
| 89 | M86 | X | 0 | 0 | 0 | %100 |
| 90 | M86 | Z | .841 | .841 | 0 | %100 |
| 91 | M88 | X | 0 | 0 | 0 | %100 |
| 92 | M88 | Z | .841 | .841 | 0 | %100 |

## Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -.232 | -.232 | 0 | %100 |
| 2 | M1 | Z | .402 | .402 | 0 | %100 |
| 3 | M3 | X | -.232 | -.232 | 0 | %100 |
| 4 | M3 | Z | .402 | .402 | 0 | %100 |
| 5 | M5 | X | -.229 | -.229 | 0 | %100 |
| 6 | M5 | Z | .396 | .396 | 0 | %100 |
| 7 | M13 | X | -.232 | -.232 | 0 | %100 |
| 8 | M13 | Z | .402 | .402 | 0 | %100 |
| 9 | M15 | X | -.232 | -.232 | 0 | %100 |
| 10 | M15 | Z | .402 | .402 | 0 | %100 |
| 11 | M17 | X | -.229 | -.229 | 0 | %100 |
| 12 | M17 | Z | .396 | .396 | 0 | %100 |
| 13 | M25 | X | 0 | 0 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | 0 | 0 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | 0 | 0 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |
| 19 | M37 | X | -.479 | -.479 | 0 | %100 |
| 20 | M37 | Z | .83 | .83 | 0 | %100 |
| 21 | M38 | X | 0 | 0 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | -.479 | -.479 | 0 | %100 |
| 24 | M39 | Z | .83 | .83 | 0 | %100 |
| 25 | M40 | X | -.078 | -.078 | 0 | %100 |
| 26 | M40 | Z | .135 | .135 | 0 | %100 |
| 27 | M41 | X | -.078 | -.078 | 0 | %100 |
| 28 | M41 | Z | .135 | .135 | 0 | %100 |
| 29 | M42 | X | -.311 | -.311 | 0 | %100 |
| 30 | M42 | Z | .539 | .539 | 0 | %100 |
| 31 | M43 | X | -.071 | -.071 | 0 | %100 |
| 32 | M43 | Z | .123 | .123 | 0 | %100 |
| 33 | M47 | X | -.071 | -.071 | 0 | %100 |
| 34 | M47 | Z | .123 | .123 | 0 | %100 |
| 35 | M51 | X | -.284 | -.284 | 0 | %100 |
| 36 | M51 | Z | .491 | .491 | 0 | %100 |

## Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | -.424 | -.424 | 0 | %100 |
| 38 | M70 | Z | .734 | .734 | 0 | %100 |
| 39 | M109A | X | -.026 | -.026 | 0 | %100 |
| 40 | M109A | Z | .045 | .045 | 0 | %100 |
| 41 | M110A | X | -.148 | -.148 | 0 | %100 |
| 42 | M110A | Z | .256 | .256 | 0 | %100 |
| 43 | M111 | X | -.089 | -.089 | 0 | %100 |
| 44 | M111 | Z | .154 | .154 | 0 | %100 |
| 45 | M112A | X | -.043 | -.043 | 0 | %100 |
| 46 | M112A | Z | .075 | .075 | 0 | %100 |
| 47 | M113A | X | -.211 | -.211 | 0 | %100 |
| 48 | M113A | Z | .366 | .366 | 0 | %100 |
| 49 | M114 | X | -.352 | -.352 | 0 | %100 |
| 50 | M114 | Z | .609 | .609 | 0 | %100 |
| 51 | M37A | X | -.19 | -.19 | 0 | %100 |
| 52 | M37A | Z | .329 | .329 | 0 | %100 |
| 53 | M38A | X | -.19 | -.19 | 0 | %100 |
| 54 | M38A | Z | .329 | .329 | 0 | %100 |
| 55 | M39A | X | 0 | 0 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | -.253 | -.253 | 0 | %100 |
| 58 | MP4A | Z | .438 | .438 | 0 | %100 |
| 59 | MP2A | X | -.253 | -.253 | 0 | %100 |
| 60 | MP2A | Z | .438 | .438 | 0 | %100 |
| 61 | MP1A | X | -.253 | -.253 | 0 | %100 |
| 62 | MP1A | Z | .438 | .438 | 0 | %100 |
| 63 | MP3A | X | -.306 | -.306 | 0 | %100 |
| 64 | MP3A | Z | .53 | .53 | 0 | %100 |
| 65 | MP4C | X | -.253 | -.253 | 0 | %100 |
| 66 | MP4C | Z | .438 | .438 | 0 | %100 |
| 67 | MP2C | X | -.253 | -.253 | 0 | %100 |
| 68 | MP2C | Z | .438 | .438 | 0 | %100 |
| 69 | MP1C | X | -.253 | -.253 | 0 | %100 |
| 70 | MP1C | Z | .438 | .438 | 0 | %100 |
| 71 | MP3C | X | -.306 | -.306 | 0 | %100 |
| 72 | MP3C | Z | .53 | .53 | 0 | %100 |
| 73 | MP4B | X | -.253 | -.253 | 0 | %100 |
| 74 | MP4B | Z | .438 | .438 | 0 | %100 |
| 75 | MP2B | X | -.253 | -.253 | 0 | %100 |
| 76 | MP2B | Z | .438 | .438 | 0 | %100 |
| 77 | MP1B | X | -.253 | -.253 | 0 | %100 |
| 78 | MP1B | Z | .438 | .438 | 0 | %100 |
| 79 | MP3B | X | -.306 | -.306 | 0 | %100 |
| 80 | MP3B | Z | .53 | .53 | 0 | %100 |
| 81 | M82 | X | -.229 | -.229 | 0 | %100 |
| 82 | M82 | Z | .397 | .397 | 0 | %100 |
| 83 | M83 | X | 0 | 0 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | -.229 | -.229 | 0 | %100 |
| 86 | M84 | Z | .397 | .397 | 0 | %100 |
| 87 | OVP | X | -.238 | -.238 | 0 | %100 |
| 88 | OVP | Z | .413 | .413 | 0 | %100 |
| 89 | M86 | X | -.424 | -.424 | 0 | %100 |
| 90 | M86 | Z | .734 | .734 | 0 | %100 |
| 91 | M88 | X | -.424 | -.424 | 0 | %100 |
| 92 | M88 | Z | .734 | .734 | 0 | %100 |

## Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -.134 | -.134 | 0 | %100 |
| 2 | M1 | Z | .077 | .077 | 0 | %100 |
| 3 | M3 | X | -.134 | -.134 | 0 | %100 |
| 4 | M3 | Z | .077 | .077 | 0 | %100 |
| 5 | M5 | X | -.132 | -.132 | 0 | %100 |
| 6 | M5 | Z | .076 | .076 | 0 | %100 |
| 7 | M13 | X | -.536 | -.536 | 0 | %100 |
| 8 | M13 | Z | .31 | .31 | 0 | %100 |
| 9 | M15 | X | -.536 | -.536 | 0 | %100 |
| 10 | M15 | Z | .31 | .31 | 0 | %100 |
| 11 | M17 | X | -.528 | -.528 | 0 | %100 |
| 12 | M17 | Z | .305 | .305 | 0 | %100 |
| 13 | M25 | X | -.134 | -.134 | 0 | %100 |
| 14 | M25 | Z | .077 | .077 | 0 | %100 |
| 15 | M27 | X | -.134 | -.134 | 0 | %100 |
| 16 | M27 | Z | .077 | .077 | 0 | %100 |
| 17 | M29 | X | -.132 | -.132 | 0 | %100 |
| 18 | M29 | Z | .076 | .076 | 0 | %100 |
| 19 | M37 | X | -1.107 | -1.107 | 0 | %100 |
| 20 | M37 | Z | .639 | .639 | 0 | %100 |
| 21 | M38 | X | -.277 | -.277 | 0 | %100 |
| 22 | M38 | Z | .16 | .16 | 0 | %100 |
| 23 | M39 | X | -.277 | -.277 | 0 | %100 |
| 24 | M39 | Z | .16 | .16 | 0 | %100 |
| 25 | M40 | X | -.404 | -.404 | 0 | %100 |
| 26 | M40 | Z | .233 | .233 | 0 | %100 |
| 27 | M41 | X | 0 | 0 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | -.404 | -.404 | 0 | %100 |
| 30 | M42 | Z | .233 | .233 | 0 | %100 |
| 31 | M43 | X | -.368 | -.368 | 0 | %100 |
| 32 | M43 | Z | .213 | .213 | 0 | %100 |
| 33 | M47 | X | 0 | 0 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | -.368 | -.368 | 0 | %100 |
| 36 | M51 | Z | .213 | .213 | 0 | %100 |
| 37 | M70 | X | -.745 | -.745 | 0 | %100 |
| 38 | M70 | Z | .43 | .43 | 0 | %100 |
| 39 | M109A | X | -.223 | -.223 | 0 | %100 |
| 40 | M109A | Z | .129 | .129 | 0 | %100 |
| 41 | M110A | X | -.552 | -.552 | 0 | %100 |
| 42 | M110A | Z | .319 | .319 | 0 | %100 |
| 43 | M111 | X | -.011 | -.011 | 0 | %100 |
| 44 | M111 | Z | .006 | .006 | 0 | %100 |
| 45 | M112A | X | -.018 | -.018 | 0 | %100 |
| 46 | M112A | Z | .01 | .01 | 0 | %100 |
| 47 | M113A | X | -.331 | -.331 | 0 | %100 |
| 48 | M113A | Z | .191 | .191 | 0 | %100 |
| 49 | M114 | X | -.371 | -.371 | 0 | %100 |
| 50 | M114 | Z | .214 | .214 | 0 | %100 |
| 51 | M37A | X | -.11 | -.11 | 0 | %100 |
| 52 | M37A | Z | .063 | .063 | 0 | %100 |
| 53 | M38A | X | -.438 | -.438 | 0 | %100 |
| 54 | M38A | Z | .253 | .253 | 0 | %100 |
| 55 | M39A | X | -.11 | -.11 | 0 | %100 |
| 56 | M39A | Z | .063 | .063 | 0 | %100 |
| 57 | MP4A | X | -.438 | -.438 | 0 | %100 |

## Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | .253 | .253 | 0 | %100 |
| 59 | MP2A | X | -.438 | -.438 | 0 | %100 |
| 60 | MP2A | Z | .253 | .253 | 0 | %100 |
| 61 | MP1A | X | -.438 | -.438 | 0 | %100 |
| 62 | MP1A | Z | .253 | .253 | 0 | %100 |
| 63 | MP3A | X | -.53 | -.53 | 0 | %100 |
| 64 | MP3A | Z | .306 | .306 | 0 | %100 |
| 65 | MP4C | X | -.438 | -.438 | 0 | %100 |
| 66 | MP4C | Z | .253 | .253 | 0 | %100 |
| 67 | MP2C | X | -.438 | -.438 | 0 | %100 |
| 68 | MP2C | Z | .253 | .253 | 0 | %100 |
| 69 | MP1C | X | -.438 | -.438 | 0 | %100 |
| 70 | MP1C | Z | .253 | .253 | 0 | %100 |
| 71 | MP3C | X | -.53 | -.53 | 0 | %100 |
| 72 | MP3C | Z | .306 | .306 | 0 | %100 |
| 73 | MP4B | X | -.438 | -.438 | 0 | %100 |
| 74 | MP4B | Z | .253 | .253 | 0 | %100 |
| 75 | MP2B | X | -.438 | -.438 | 0 | %100 |
| 76 | MP2B | Z | .253 | .253 | 0 | %100 |
| 77 | MP1B | X | -.438 | -.438 | 0 | %100 |
| 78 | MP1B | Z | .253 | .253 | 0 | %100 |
| 79 | MP3B | X | -.53 | -.53 | 0 | %100 |
| 80 | MP3B | Z | .306 | .306 | 0 | %100 |
| 81 | M82 | X | -.529 | -.529 | 0 | %100 |
| 82 | M82 | Z | .305 | .305 | 0 | %100 |
| 83 | M83 | X | -.132 | -.132 | 0 | %100 |
| 84 | M83 | Z | .076 | .076 | 0 | %100 |
| 85 | M84 | X | -.132 | -.132 | 0 | %100 |
| 86 | M84 | Z | .076 | .076 | 0 | %100 |
| 87 | OVP | X | -.413 | -.413 | 0 | %100 |
| 88 | OVP | Z | .238 | .238 | 0 | %100 |
| 89 | M86 | X | -.745 | -.745 | 0 | %100 |
| 90 | M86 | Z | .43 | .43 | 0 | %100 |
| 91 | M88 | X | -.745 | -.745 | 0 | %100 |
| 92 | M88 | Z | .43 | .43 | 0 | %100 |

## Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M3 | X | 0 | 0 | 0 | %100 |
| 4 | M3 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M13 | X | -.464 | -.464 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | -.464 | -.464 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | -.457 | -.457 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | -.464 | -.464 | 0 | %100 |
| 14 | M25 | Z | 0 | 0 | 0 | %100 |
| 15 | M27 | X | -.464 | -.464 | 0 | %100 |
| 16 | M27 | Z | 0 | 0 | 0 | %100 |
| 17 | M29 | X | -.457 | -.457 | 0 | %100 |
| 18 | M29 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 19 | M37 | X | -.958 | -.958 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | -.958 | -.958 | 0 | %100 |
| 22 | M38 | Z | 0 | 0 | 0 | %100 |
| 23 | M39 | X | 0 | 0 | 0 | %100 |
| 24 | M39 | Z | 0 | 0 | 0 | %100 |
| 25 | M40 | X | -.622 | -.622 | 0 | %100 |
| 26 | M40 | Z | 0 | 0 | 0 | %100 |
| 27 | M41 | X | -.156 | -.156 | 0 | %100 |
| 28 | M41 | Z | 0 | 0 | 0 | %100 |
| 29 | M42 | X | -.156 | -.156 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | -.567 | -.567 | 0 | %100 |
| 32 | M43 | Z | 0 | 0 | 0 | %100 |
| 33 | M47 | X | -.142 | -.142 | 0 | %100 |
| 34 | M47 | Z | 0 | 0 | 0 | %100 |
| 35 | M51 | X | -.142 | -.142 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |
| 37 | M70 | X | -.867 | -.867 | 0 | %100 |
| 38 | M70 | Z | 0 | 0 | 0 | %100 |
| 39 | M109A | X | -.422 | -.422 | 0 | %100 |
| 40 | M109A | Z | 0 | 0 | 0 | %100 |
| 41 | M110A | X | -.704 | -.704 | 0 | %100 |
| 42 | M110A | Z | 0 | 0 | 0 | %100 |
| 43 | M111 | X | -.052 | -.052 | 0 | %100 |
| 44 | M111 | Z | 0 | 0 | 0 | %100 |
| 45 | M112A | X | -.296 | -.296 | 0 | %100 |
| 46 | M112A | Z | 0 | 0 | 0 | %100 |
| 47 | M113A | X | -.178 | -.178 | 0 | %100 |
| 48 | M113A | Z | 0 | 0 | 0 | %100 |
| 49 | M114 | X | -.087 | -.087 | 0 | %100 |
| 50 | M114 | Z | 0 | 0 | 0 | %100 |
| 51 | M37A | X | 0 | 0 | 0 | %100 |
| 52 | M37A | Z | 0 | 0 | 0 | %100 |
| 53 | M38A | X | -.379 | -.379 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | -.379 | -.379 | 0 | %100 |
| 56 | M39A | Z | 0 | 0 | 0 | %100 |
| 57 | MP4A | X | -.506 | -.506 | 0 | %100 |
| 58 | MP4A | Z | 0 | 0 | 0 | %100 |
| 59 | MP2A | X | -.506 | -.506 | 0 | %100 |
| 60 | MP2A | Z | 0 | 0 | 0 | %100 |
| 61 | MP1A | X | -.506 | -.506 | 0 | %100 |
| 62 | MP1A | Z | 0 | 0 | 0 | %100 |
| 63 | MP3A | X | -.612 | -.612 | 0 | %100 |
| 64 | MP3A | Z | 0 | 0 | 0 | %100 |
| 65 | MP4C | X | -.506 | -.506 | 0 | %100 |
| 66 | MP4C | Z | 0 | 0 | 0 | %100 |
| 67 | MP2C | X | -.506 | -.506 | 0 | %100 |
| 68 | MP2C | Z | 0 | 0 | 0 | %100 |
| 69 | MP1C | X | -.506 | -.506 | 0 | %100 |
| 70 | MP1C | Z | 0 | 0 | 0 | %100 |
| 71 | MP3C | X | -.612 | -.612 | 0 | %100 |
| 72 | MP3C | Z | 0 | 0 | 0 | %100 |
| 73 | MP4B | X | -.506 | -.506 | 0 | %100 |
| 74 | MP4B | Z | 0 | 0 | 0 | %100 |
| 75 | MP2B | X | -.506 | -.506 | 0 | %100 |

## Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 76 | MP2B | Z | 0 | 0 | 0 | %100 |
| 77 | MP1B | X | -.506 | -.506 | 0 | %100 |
| 78 | MP1B | Z | 0 | 0 | 0 | %100 |
| 79 | MP3B | X | -.612 | -.612 | 0 | %100 |
| 80 | MP3B | Z | 0 | 0 | 0 | %100 |
| 81 | M82 | X | -.458 | -.458 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | -.458 | -.458 | 0 | %100 |
| 84 | M83 | Z | 0 | 0 | 0 | %100 |
| 85 | M84 | X | 0 | 0 | 0 | %100 |
| 86 | M84 | Z | 0 | 0 | 0 | %100 |
| 87 | OVP | X | -.477 | -.477 | 0 | %100 |
| 88 | OVP | Z | 0 | 0 | 0 | %100 |
| 89 | M86 | X | -.867 | -.867 | 0 | %100 |
| 90 | M86 | Z | 0 | 0 | 0 | %100 |
| 91 | M88 | X | -.867 | -.867 | 0 | %100 |
| 92 | M88 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -.134 | -.134 | 0 | %100 |
| 2 | M1 | Z | -.077 | -.077 | 0 | %100 |
| 3 | M3 | X | -.134 | -.134 | 0 | %100 |
| 4 | M3 | Z | -.077 | -.077 | 0 | %100 |
| 5 | M5 | X | -.132 | -.132 | 0 | %100 |
| 6 | M5 | Z | -.076 | -.076 | 0 | %100 |
| 7 | M13 | X | -.134 | -.134 | 0 | %100 |
| 8 | M13 | Z | -.077 | -.077 | 0 | %100 |
| 9 | M15 | X | -.134 | -.134 | 0 | %100 |
| 10 | M15 | Z | -.077 | -.077 | 0 | %100 |
| 11 | M17 | X | -.132 | -.132 | 0 | %100 |
| 12 | M17 | Z | -.076 | -.076 | 0 | %100 |
| 13 | M25 | X | -.536 | -.536 | 0 | %100 |
| 14 | M25 | Z | -.31 | -.31 | 0 | %100 |
| 15 | M27 | X | -.536 | -.536 | 0 | %100 |
| 16 | M27 | Z | -.31 | -.31 | 0 | %100 |
| 17 | M29 | X | -.528 | -.528 | 0 | %100 |
| 18 | M29 | Z | -.305 | -.305 | 0 | %100 |
| 19 | M37 | X | -.277 | -.277 | 0 | %100 |
| 20 | M37 | Z | -.16 | -.16 | 0 | %100 |
| 21 | M38 | X | -1.107 | -1.107 | 0 | %100 |
| 22 | M38 | Z | -.639 | -.639 | 0 | %100 |
| 23 | M39 | X | -.277 | -.277 | 0 | %100 |
| 24 | M39 | Z | -.16 | -.16 | 0 | %100 |
| 25 | M40 | X | -.404 | -.404 | 0 | %100 |
| 26 | M40 | Z | -.233 | -.233 | 0 | %100 |
| 27 | M41 | X | -.404 | -.404 | 0 | %100 |
| 28 | M41 | Z | -.233 | -.233 | 0 | %100 |
| 29 | M42 | X | 0 | 0 | 0 | %100 |
| 30 | M42 | Z | 0 | 0 | 0 | %100 |
| 31 | M43 | X | -.368 | -.368 | 0 | %100 |
| 32 | M43 | Z | -.213 | -.213 | 0 | %100 |
| 33 | M47 | X | -.368 | -.368 | 0 | %100 |
| 34 | M47 | Z | -.213 | -.213 | 0 | %100 |
| 35 | M51 | X | 0 | 0 | 0 | %100 |
| 36 | M51 | Z | 0 | 0 | 0 | %100 |

## Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 37 | M70 | X | -.745 | -.745 | 0 | %100 |
| 38 | M70 | Z | -.43 | -.43 | 0 | %100 |
| 39 | M109A | X | -.331 | -.331 | 0 | %100 |
| 40 | M109A | Z | -.191 | -.191 | 0 | %100 |
| 41 | M110A | X | -.371 | -.371 | 0 | %100 |
| 42 | M110A | Z | -.214 | -.214 | 0 | %100 |
| 43 | M111 | X | -.223 | -.223 | 0 | %100 |
| 44 | M111 | Z | -.129 | -.129 | 0 | %100 |
| 45 | M112A | X | -.552 | -.552 | 0 | %100 |
| 46 | M112A | Z | -.319 | -.319 | 0 | %100 |
| 47 | M113A | X | -.011 | -.011 | 0 | %100 |
| 48 | M113A | Z | -.006 | -.006 | 0 | %100 |
| 49 | M114 | X | -.018 | -.018 | 0 | %100 |
| 50 | M114 | Z | -.01 | -.01 | 0 | %100 |
| 51 | M37A | X | -.11 | -.11 | 0 | %100 |
| 52 | M37A | Z | -.063 | -.063 | 0 | %100 |
| 53 | M38A | X | -.11 | -.11 | 0 | %100 |
| 54 | M38A | Z | -.063 | -.063 | 0 | %100 |
| 55 | M39A | X | -.438 | -.438 | 0 | %100 |
| 56 | M39A | Z | -.253 | -.253 | 0 | %100 |
| 57 | MP4A | X | -.438 | -.438 | 0 | %100 |
| 58 | MP4A | Z | -.253 | -.253 | 0 | %100 |
| 59 | MP2A | X | -.438 | -.438 | 0 | %100 |
| 60 | MP2A | Z | -.253 | -.253 | 0 | %100 |
| 61 | MP1A | X | -.438 | -.438 | 0 | %100 |
| 62 | MP1A | Z | -.253 | -.253 | 0 | %100 |
| 63 | MP3A | X | -.53 | -.53 | 0 | %100 |
| 64 | MP3A | Z | -.306 | -.306 | 0 | %100 |
| 65 | MP4C | X | -.438 | -.438 | 0 | %100 |
| 66 | MP4C | Z | -.253 | -.253 | 0 | %100 |
| 67 | MP2C | X | -.438 | -.438 | 0 | %100 |
| 68 | MP2C | Z | -.253 | -.253 | 0 | %100 |
| 69 | MP1C | X | -.438 | -.438 | 0 | %100 |
| 70 | MP1C | Z | -.253 | -.253 | 0 | %100 |
| 71 | MP3C | X | -.53 | -.53 | 0 | %100 |
| 72 | MP3C | Z | -.306 | -.306 | 0 | %100 |
| 73 | MP4B | X | -.438 | -.438 | 0 | %100 |
| 74 | MP4B | Z | -.253 | -.253 | 0 | %100 |
| 75 | MP2B | X | -.438 | -.438 | 0 | %100 |
| 76 | MP2B | Z | -.253 | -.253 | 0 | %100 |
| 77 | MP1B | X | -.438 | -.438 | 0 | %100 |
| 78 | MP1B | Z | -.253 | -.253 | 0 | %100 |
| 79 | MP3B | X | -.53 | -.53 | 0 | %100 |
| 80 | MP3B | Z | -.306 | -.306 | 0 | %100 |
| 81 | M82 | X | -.132 | -.132 | 0 | %100 |
| 82 | M82 | Z | -.076 | -.076 | 0 | %100 |
| 83 | M83 | X | -.529 | -.529 | 0 | %100 |
| 84 | M83 | Z | -.305 | -.305 | 0 | %100 |
| 85 | M84 | X | -.132 | -.132 | 0 | %100 |
| 86 | M84 | Z | -.076 | -.076 | 0 | %100 |
| 87 | OVP | X | -.413 | -.413 | 0 | %100 |
| 88 | OVP | Z | -.238 | -.238 | 0 | %100 |
| 89 | M86 | X | -.745 | -.745 | 0 | %100 |
| 90 | M86 | Z | -.43 | -.43 | 0 | %100 |
| 91 | M88 | X | -.745 | -.745 | 0 | %100 |
| 92 | M88 | Z | -.43 | -.43 | 0 | %100 |

## Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M1 | X | -.232 | -.232 | 0 | %100 |
| 2 | M1 | Z | -.402 | -.402 | 0 | %100 |
| 3 | M3 | X | -.232 | -.232 | 0 | %100 |
| 4 | M3 | Z | -.402 | -.402 | 0 | %100 |
| 5 | M5 | X | -.229 | -.229 | 0 | %100 |
| 6 | M5 | Z | -.396 | -.396 | 0 | %100 |
| 7 | M13 | X | 0 | 0 | 0 | %100 |
| 8 | M13 | Z | 0 | 0 | 0 | %100 |
| 9 | M15 | X | 0 | 0 | 0 | %100 |
| 10 | M15 | Z | 0 | 0 | 0 | %100 |
| 11 | M17 | X | 0 | 0 | 0 | %100 |
| 12 | M17 | Z | 0 | 0 | 0 | %100 |
| 13 | M25 | X | -.232 | -.232 | 0 | %100 |
| 14 | M25 | Z | -.402 | -.402 | 0 | %100 |
| 15 | M27 | X | -.232 | -.232 | 0 | %100 |
| 16 | M27 | Z | -.402 | -.402 | 0 | %100 |
| 17 | M29 | X | -.229 | -.229 | 0 | %100 |
| 18 | M29 | Z | -.396 | -.396 | 0 | %100 |
| 19 | M37 | X | 0 | 0 | 0 | %100 |
| 20 | M37 | Z | 0 | 0 | 0 | %100 |
| 21 | M38 | X | -.479 | -.479 | 0 | %100 |
| 22 | M38 | Z | -.83 | -.83 | 0 | %100 |
| 23 | M39 | X | -.479 | -.479 | 0 | %100 |
| 24 | M39 | Z | -.83 | -.83 | 0 | %100 |
| 25 | M40 | X | -.078 | -.078 | 0 | %100 |
| 26 | M40 | Z | -.135 | -.135 | 0 | %100 |
| 27 | M41 | X | -.311 | -.311 | 0 | %100 |
| 28 | M41 | Z | -.539 | -.539 | 0 | %100 |
| 29 | M42 | X | -.078 | -.078 | 0 | %100 |
| 30 | M42 | Z | -.135 | -.135 | 0 | %100 |
| 31 | M43 | X | -.071 | -.071 | 0 | %100 |
| 32 | M43 | Z | -.123 | -.123 | 0 | %100 |
| 33 | M47 | X | -.284 | -.284 | 0 | %100 |
| 34 | M47 | Z | -.491 | -.491 | 0 | %100 |
| 35 | M51 | X | -.071 | -.071 | 0 | %100 |
| 36 | M51 | Z | -.123 | -.123 | 0 | %100 |
| 37 | M70 | X | -.424 | -.424 | 0 | %100 |
| 38 | M70 | Z | -.734 | -.734 | 0 | %100 |
| 39 | M109A | X | -.089 | -.089 | 0 | %100 |
| 40 | M109A | Z | -.154 | -.154 | 0 | %100 |
| 41 | M110A | X | -.043 | -.043 | 0 | %100 |
| 42 | M110A | Z | -.075 | -.075 | 0 | %100 |
| 43 | M111 | X | -.211 | -.211 | 0 | %100 |
| 44 | M111 | Z | -.366 | -.366 | 0 | %100 |
| 45 | M112A | X | -.352 | -.352 | 0 | %100 |
| 46 | M112A | Z | -.609 | -.609 | 0 | %100 |
| 47 | M113A | X | -.026 | -.026 | 0 | %100 |
| 48 | M113A | Z | -.045 | -.045 | 0 | %100 |
| 49 | M114 | X | -.148 | -.148 | 0 | %100 |
| 50 | M114 | Z | -.256 | -.256 | 0 | %100 |
| 51 | M37A | X | -.19 | -.19 | 0 | %100 |
| 52 | M37A | Z | -.329 | -.329 | 0 | %100 |
| 53 | M38A | X | 0 | 0 | 0 | %100 |
| 54 | M38A | Z | 0 | 0 | 0 | %100 |
| 55 | M39A | X | -.19 | -.19 | 0 | %100 |
| 56 | M39A | Z | -.329 | -.329 | 0 | %100 |
| 57 | MP4A | X | -.253 | -.253 | 0 | %100 |

## Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 58 | MP4A | Z | -.438 | -.438 | 0 | %100 |
| 59 | MP2A | X | -.253 | -.253 | 0 | %100 |
| 60 | MP2A | Z | -.438 | -.438 | 0 | %100 |
| 61 | MP1A | X | -.253 | -.253 | 0 | %100 |
| 62 | MP1A | Z | -.438 | -.438 | 0 | %100 |
| 63 | MP3A | X | -.306 | -.306 | 0 | %100 |
| 64 | MP3A | Z | -.53 | -.53 | 0 | %100 |
| 65 | MP4C | X | -.253 | -.253 | 0 | %100 |
| 66 | MP4C | Z | -.438 | -.438 | 0 | %100 |
| 67 | MP2C | X | -.253 | -.253 | 0 | %100 |
| 68 | MP2C | Z | -.438 | -.438 | 0 | %100 |
| 69 | MP1C | X | -.253 | -.253 | 0 | %100 |
| 70 | MP1C | Z | -.438 | -.438 | 0 | %100 |
| 71 | MP3C | X | -.306 | -.306 | 0 | %100 |
| 72 | MP3C | Z | -.53 | -.53 | 0 | %100 |
| 73 | MP4B | X | -.253 | -.253 | 0 | %100 |
| 74 | MP4B | Z | -.438 | -.438 | 0 | %100 |
| 75 | MP2B | X | -.253 | -.253 | 0 | %100 |
| 76 | MP2B | Z | -.438 | -.438 | 0 | %100 |
| 77 | MP1B | X | -.253 | -.253 | 0 | %100 |
| 78 | MP1B | Z | -.438 | -.438 | 0 | %100 |
| 79 | MP3B | X | -.306 | -.306 | 0 | %100 |
| 80 | MP3B | Z | -.53 | -.53 | 0 | %100 |
| 81 | M82 | X | 0 | 0 | 0 | %100 |
| 82 | M82 | Z | 0 | 0 | 0 | %100 |
| 83 | M83 | X | -.229 | -.229 | 0 | %100 |
| 84 | M83 | Z | -.397 | -.397 | 0 | %100 |
| 85 | M84 | X | -.229 | -.229 | 0 | %100 |
| 86 | M84 | Z | -.397 | -.397 | 0 | %100 |
| 87 | OVP | X | -.238 | -.238 | 0 | %100 |
| 88 | OVP | Z | -.413 | -.413 | 0 | %100 |
| 89 | M86 | X | -.424 | -.424 | 0 | %100 |
| 90 | M86 | Z | -.734 | -.734 | 0 | %100 |
| 91 | M88 | X | -.424 | -.424 | 0 | %100 |
| 92 | M88 | Z | -.734 | -.734 | 0 | %100 |

## Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M41 | Y | -2.982 | -67.665 | 0 | .625 |
| 2 | M41 | Y | -67.665 | -57.142 | .625 | 1.25 |
| 3 | M41 | Y | -57.142 | -62.445 | 1.25 | 1.875 |
| 4 | M41 | Y | -62.445 | -58.056 | 1.875 | 2.5 |
| 5 | M41 | Y | -58.056 | -2.982 | 2.5 | 3.125 |
| 6 | M42 | Y | -2.982 | -67.665 | 0 | .625 |
| 7 | M42 | Y | -67.665 | -57.142 | .625 | 1.25 |
| 8 | M42 | Y | -57.142 | -62.445 | 1.25 | 1.875 |
| 9 | M42 | Y | -62.445 | -58.056 | 1.875 | 2.5 |
| 10 | M42 | Y | -58.056 | -2.982 | 2.5 | 3.125 |
| 11 | M40 | Y | -2.982 | -67.665 | 0 | .625 |
| 12 | M40 | Y | -67.665 | -57.142 | .625 | 1.25 |
| 13 | M40 | Y | -57.142 | -62.445 | 1.25 | 1.875 |
| 14 | M40 | Y | -62.445 | -58.056 | 1.875 | 2.5 |
| 15 | M40 | Y | -58.056 | -2.982 | 2.5 | 3.125 |

## Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

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

## Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|---|---|---|---|---|---|---|
| 1 | M41 | Y | -3.645 | -82.701 | 0 | .625 |
| 2 | M41 | Y | -82.701 | -69.84 | .625 | 1.25 |
| 3 | M41 | Y | -69.84 | -76.322 | 1.25 | 1.875 |
| 4 | M41 | Y | -76.322 | -70.957 | 1.875 | 2.5 |
| 5 | M41 | Y | -70.957 | -3.645 | 2.5 | 3.125 |
| 6 | M42 | Y | -3.645 | -82.701 | 0 | .625 |
| 7 | M42 | Y | -82.701 | -69.84 | .625 | 1.25 |
| 8 | M42 | Y | -69.84 | -76.322 | 1.25 | 1.875 |
| 9 | M42 | Y | -76.322 | -70.957 | 1.875 | 2.5 |
| 10 | M42 | Y | -70.957 | -3.645 | 2.5 | 3.125 |
| 11 | M40 | Y | -3.645 | -82.701 | 0 | .625 |
| 12 | M40 | Y | -82.701 | -69.84 | .625 | 1.25 |
| 13 | M40 | Y | -69.84 | -76.322 | 1.25 | 1.875 |
| 14 | M40 | Y | -76.322 | -70.957 | 1.875 | 2.5 |
| 15 | M40 | Y | -70.957 | -3.645 | 2.5 | 3.125 |

## Member Area Loads (BLC 39 : Structure D)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---|---|---|---|---|---|---|
| 1 | N40 | N186 | N187 | N42 | Y | B-C | -.009 |
| 2 | N42 | N187 | N185 | N38 | Y | B-C | -.009 |
| 3 | N38 | N185 | N186 | N40 | Y | B-C | -.009 |

## Member Area Loads (BLC 40 : Structure Di)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---|---|---|---|---|---|---|
| 1 | N40 | N186 | N187 | N42 | Y | B-C | -.011 |
| 2 | N42 | N187 | N185 | N38 | Y | B-C | -.011 |
| 3 | N38 | N185 | N186 | N40 | Y | B-C | -.011 |

## Envelope Joint Reactions

| | Joint | | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [lb-ft] | LC | MY [lb-ft] | LC | MZ [lb-ft] | LC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | N90 | max | 26.149 | 10 | 4599.552 | 13 | -362.684 | 7 | 0 | 51 | 0 | 51 | 0 | 51 |
| 2 | | min | -26.098 | 4 | 499.453 | 7 | -3187.589 | 13 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | N45 | max | 1065.874 | 10 | 246.856 | 7 | 4358.612 | 1 | 158.24 | 7 | 1340.5... | 4 | 625.536 | 4 |
| 4 | | min | -1060.55 | 4 | -1986.431 | 13 | -1953.563 | 7 | -1189.... | 13 | -1331.... | 10 | -454.502 | 10 |
| 5 | N53 | max | 3752.885 | 9 | 375.589 | 3 | 1220.47 | 1 | 1216.7... | 11 | 1610.14 | 12 | 1066.263 | 7 |
| 6 | | min | -1649.428 | 3 | -1977.76 | 9 | -2442.076 | 7 | -569.777 | 5 | -1601.... | 6 | -337.445 | 1 |
| 7 | N61 | max | 1656.312 | 11 | 207.821 | 11 | 923.96 | 12 | 732.131 | 3 | 1412.3... | 8 | 178.83 | 12 |
| 8 | | min | -3771.609 | 5 | -2008.757 | 17 | -2136.261 | 6 | -347.849 | 9 | -1401.... | 2 | -1163.553 | 6 |
| 9 | N179B | max | -316.061 | 3 | 4664.857 | 21 | 1616.156 | 21 | 0 | 51 | 0 | 51 | 0 | 51 |
| 10 | | min | -2799.358 | 21 | 501.797 | 3 | 182.473 | 3 | 0 | 1 | 0 | 1 | 0 | 1 |
| 11 | N183 | max | 2785.259 | 17 | 4641.668 | 17 | 1608.088 | 17 | 0 | 51 | 0 | 51 | 0 | 51 |
| 12 | | min | 352.639 | 11 | 562.16 | 11 | 203.629 | 11 | 0 | 1 | 0 | 1 | 0 | 1 |
| 13 | Totals: | max | 4498.992 | 10 | 7721.041 | 20 | 4747.841 | 1 | | | | | | |
| 14 | | min | -4498.985 | 4 | 3872.413 | 2 | -4747.828 | 7 | | | | | | |

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

| | Mem... | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc[ft] | Dir | LC | phi*... | phi*... | phi*... | phi*... | Cb | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M1 | PIPE... | .109 | 0 | 22 | .118 | 3.661 | | 1 | 790... | 891... | 763... | 763... | 2... | H1... |
| 2 | M3 | PIPE... | .101 | 3.806 | 4 | .100 | 3.613 | | 18 | 790... | 891... | 763... | 763... | 1... | H1... |
| 3 | M5 | PIPE... | .073 | 4.417 | 4 | .030 | 4.417 | | 12 | 798... | 891... | 763... | 763... | 2... | H1... |
| 4 | M13 | PIPE... | .110 | 0 | 17 | .116 | 3.661 | | 9 | 790... | 891... | 763... | 763... | 2... | H1... |
| 5 | M15 | PIPE... | .107 | 3.806 | 12 | .099 | 3.613 | | 14 | 790... | 891... | 763... | 763... | 1... | H1... |

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

| | Mem... | Shape | Code Check | Loc[ft] | LC | Shear Check | Loc[ft] | Dir | LC | phi*... | phi*... | phi*... | phi*... | Cb | Eqn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | M17 | PIPE... | .078 | 4.417 | 12 | .029 | 4.417 | | 7 | 798... | 891... | 763... | 763... | 2... | H1... |
| 7 | M25 | PIPE... | .109 | 0 | 13 | .118 | 3.661 | | 5 | 790... | 891... | 763... | 763... | 2... | H1... |
| 8 | M27 | PIPE... | .105 | 3.806 | 7 | .098 | 3.613 | | 21 | 790... | 891... | 763... | 763... | 1... | H1... |
| 9 | M29 | PIPE... | .075 | 0 | 7 | .027 | 4.417 | | 3 | 798... | 891... | 763... | 763... | 2... | H1... |
| 10 | M37 | PL5/8... | .160 | .426 | 15 | .420 | .426 | y | 23 | 102... | 121... | 158... | 151... | 1... | H1... |
| 11 | M38 | PL5/8... | .162 | .426 | 23 | .428 | .426 | y | 19 | 102... | 121... | 158... | 151... | 1... | H1... |
| 12 | M39 | PL5/8... | .161 | .426 | 19 | .420 | .426 | y | 15 | 102... | 121... | 158... | 151... | 1... | H1... |
| 13 | M40 | HSS3... | .294 | 3.798 | 14 | .123 | 3.852 | y | 24 | 103... | 128... | 102... | 102... | 1... | H1... |
| 14 | M41 | HSS3... | .294 | 3.798 | 22 | .122 | 3.852 | y | 20 | 103... | 128... | 102... | 102... | 1... | H1... |
| 15 | M42 | HSS3... | .300 | 3.798 | 18 | .124 | 3.852 | y | 17 | 103... | 128... | 102... | 102... | 1... | H1... |
| 16 | M43 | HSS3... | .244 | 2.26 | 12 | .162 | 1.534 | y | 13 | 113... | 128... | 102... | 102... | 2... | H1... |
| 17 | M47 | HSS3... | .224 | 2.26 | 8 | .161 | 1.534 | y | 21 | 113... | 128... | 102... | 102... | 2... | H1... |
| 18 | M51 | HSS3... | .234 | 2.26 | 6 | .164 | 1.534 | y | 17 | 113... | 128... | 102... | 102... | 2... | H1... |
| 19 | M70 | LL2.5... | .090 | 4.069 | 13 | .001 | 0 | y | 1 | 621... | 771... | 444... | 333... | 1 | H1... |
| 20 | M109A | L2.5x... | .024 | 2.911 | 7 | .065 | 2.911 | z | 24 | 242... | 346... | 802... | 194... | 1... | H2... |
| 21 | M110A | L2.5x... | .017 | 2.911 | 7 | .064 | 2.911 | y | 15 | 242... | 346... | 802... | 194... | 1... | H2... |
| 22 | M111 | L2.5x... | .024 | 2.911 | 3 | .064 | 2.911 | z | 20 | 242... | 346... | 802... | 194... | 1... | H2... |
| 23 | M112A | L2.5x... | .016 | 2.911 | 3 | .064 | 2.911 | y | 23 | 242... | 346... | 802... | 194... | 2... | H2... |
| 24 | M113A | L2.5x... | .024 | 2.911 | 11 | .064 | 2.911 | z | 16 | 242... | 346... | 802... | 194... | 1... | H2... |
| 25 | M114 | L2.5x... | .017 | 2.911 | 11 | .064 | 2.911 | y | 18 | 242... | 346... | 802... | 194... | 1... | H2... |
| 26 | M37A | PIPE... | .167 | 3.701 | 7 | .103 | 1.424 | | 7 | 526... | 321... | 187... | 187... | 2... | H1... |
| 27 | M38A | PIPE... | .161 | 3.701 | 3 | .101 | 1.424 | | 3 | 526... | 321... | 187... | 187... | 2... | H1... |
| 28 | M39A | PIPE... | .172 | 3.701 | 12 | .103 | 1.424 | | 12 | 526... | 321... | 187... | 187... | 1... | H1... |
| 29 | MP4A | PIPE... | .146 | 4.01 | 3 | .117 | .729 | | 7 | 178... | 321... | 187... | 187... | 2... | H1... |
| 30 | MP2A | PIPE... | .308 | 4.01 | 2 | .075 | 4.01 | | 6 | 178... | 321... | 187... | 187... | 1... | H1... |
| 31 | MP1A | PIPE... | .210 | 4.01 | 12 | .115 | .729 | | 7 | 178... | 321... | 187... | 187... | 2... | H1... |
| 32 | MP3A | PIPE... | .295 | 4.167 | 1 | .086 | 4.167 | | 7 | 300... | 507... | 359... | 359... | 1... | H1... |
| 33 | MP4C | PIPE... | .153 | 4.01 | 11 | .117 | .729 | | 3 | 178... | 321... | 187... | 187... | 2... | H1... |
| 34 | MP2C | PIPE... | .301 | 4.01 | 10 | .074 | 4.01 | | 2 | 178... | 321... | 187... | 187... | 2... | H1... |
| 35 | MP1C | PIPE... | .207 | 4.01 | 7 | .112 | .729 | | 3 | 178... | 321... | 187... | 187... | 2... | H1... |
| 36 | MP3C | PIPE... | .290 | 4.167 | 9 | .084 | 4.167 | | 3 | 300... | 507... | 359... | 359... | 1... | H1... |
| 37 | MP4B | PIPE... | .155 | 4.01 | 7 | .115 | .729 | | 11 | 178... | 321... | 187... | 187... | 2... | H1... |
| 38 | MP2B | PIPE... | .316 | 4.01 | 6 | .073 | 4.01 | | 11 | 178... | 321... | 187... | 187... | 1... | H1... |
| 39 | MP1B | PIPE... | .207 | 4.01 | 6 | .114 | .729 | | 11 | 178... | 321... | 187... | 187... | 1... | H1... |
| 40 | MP3B | PIPE... | .292 | 4.167 | 5 | .085 | 4.167 | | 11 | 300... | 507... | 359... | 359... | 1... | H1... |
| 41 | M82 | L2.5x... | .250 | 0 | 7 | .022 | 0 | y | 42 | 363... | 385... | 111... | 253... | 1... | H2... |
| 42 | M83 | L2.5x... | .252 | 0 | 3 | .031 | 1.346 | y | 31 | 363... | 385... | 111... | 253... | 1... | H2... |
| 43 | M84 | L2.5x... | .247 | 1.346 | 11 | .016 | 0 | z | 10 | 363... | 385... | 111... | 253... | 1... | H2... |
| 44 | OVP | PIPE... | .281 | 3.792 | 12 | .020 | 3.792 | | 12 | 256... | 321... | 187... | 187... | 1... | H1... |
| 45 | M86 | LL2.5... | .091 | 4.069 | 21 | .001 | 4.069 | y | 9 | 621... | 771... | 444... | 333... | 1 | H1... |
| 46 | M88 | LL2.5... | .091 | 4.069 | 17 | .001 | 4.069 | y | 5 | 621... | 771... | 444... | 333... | 1 | H1... |

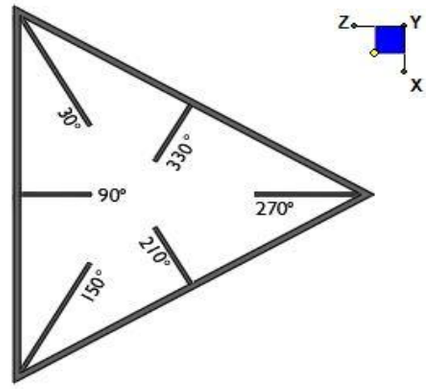
| | | | |
|---|---|---|---|
| Client: | Verizon | Date: | 6/9/2021 |
| Site Name: | Wallingford 3 CT | | |
| Project No. | 21777595A | | |
| Title: | Mount Analysis | Page: | 1 |

Version 3.1

# I. Mount-to-Tower Connection Check

*RISA Model Data*

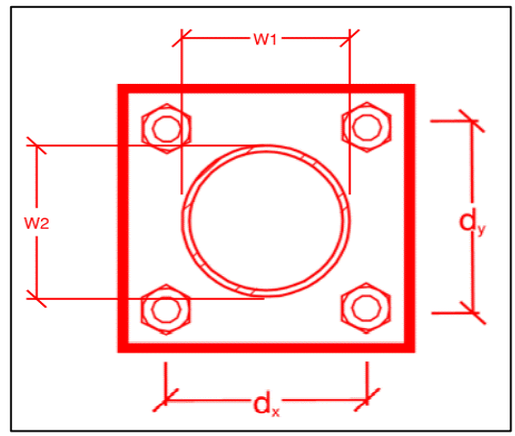
| Nodes *(labeled per RISA)* | Orientation *(per graphic of typical platform)* |
|---|---|
| N53 | 30 |
| N45 | 270 |
| N61 | 150 |
| | |
| | |
| | |
| | |
| | |
| | |



TYPICAL PLATFORM

*Tower Connection Bolt Checks*

| | |
|---|---|
| Any moment resistance?: | yes |
| Bolt Quantity per Reaction: | 4 |
| $d_x$ (in) *(Delta X of typ. bolt config. sketch)* : | 5 |
| $d_y$ (in) *(Delta Y of typ. bolt config. sketch)* : | 5 |
| Bolt Type: | A325N |
| Bolt Diameter (in): | 0.625 |
| Required Tensile Strength (kips): | 10.1 |
| Required Shear Strength (kips): | 6.8 |
| Tensile Strength / bolt (kips): | 20.7 |
| Shear Strength / bolt (kips): | 12.4 |
| Tensile Capacity Overall: | **12.1%*** |
| Shear Capacity Overall: | **13.7%** |




**Note: Tension reduction not required if tension or shear capacity < 30%*

*Tower Connection Plate and Weld Check*

| | |
|---|---|
| Connecting Standoff Member Shape: | Rect |
| Plate Width (in): | 7.7 |
| Plate Height (in): | 7.7 |
| W1 (in): | 3 |
| W2 (in): | 3 |
| Fy (ksi, plate): | 36 |
| $t_{Plate}$ (in): | 0.75 |
| Weld Size (1/16 in): | 6 |
| Phi*Rn (kip/in): | 8.35 |
| Required Weld Strength (kip/in): | 2.00 |
| Plate Bending Capacity: | **17.4%** |
| Weld Capacity: | **23.9%** |

*Max Plate Bending Strengths*

| | |
|---|---|
| $Mu_{xx}$ *(kip-in)* : | 2.7 |
| $Phi*Mn_{xx}$ *(kip-in)* : | 35.1 |
| $Mu_{yy}$ *(kip-in)* : | 3.4 |
| $Phi*Mn_{yy}$ *(kip-in)* : | 35.1 |

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Passing Mount Analysis

**Purpose** – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

**Base Requirements:**

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to ***https://pmi.vzwsmart.com*** as depicted on the drawings

**Photo Requirements:**

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the equipment modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- *Photos taken at Mount Elevation*
  - Photos showing each individual sector before and also after installation of equipment.

- These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

**Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:**

**Issue:**

-Contractor to reattach safety climb cable to the existing safety climb guides.

**Response:**

## Schedule A – Photo & Document File Structure

- VzW Site Number / Name
  - Base & "During Installation" Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety climb – If Present
  - Certifications – Submission of this document including certifications
  - Specific Required Additional Photos

**Structure: 46 2 7-VZW - WALLINGFORD CT**

Sector: **A** 6/7/2021

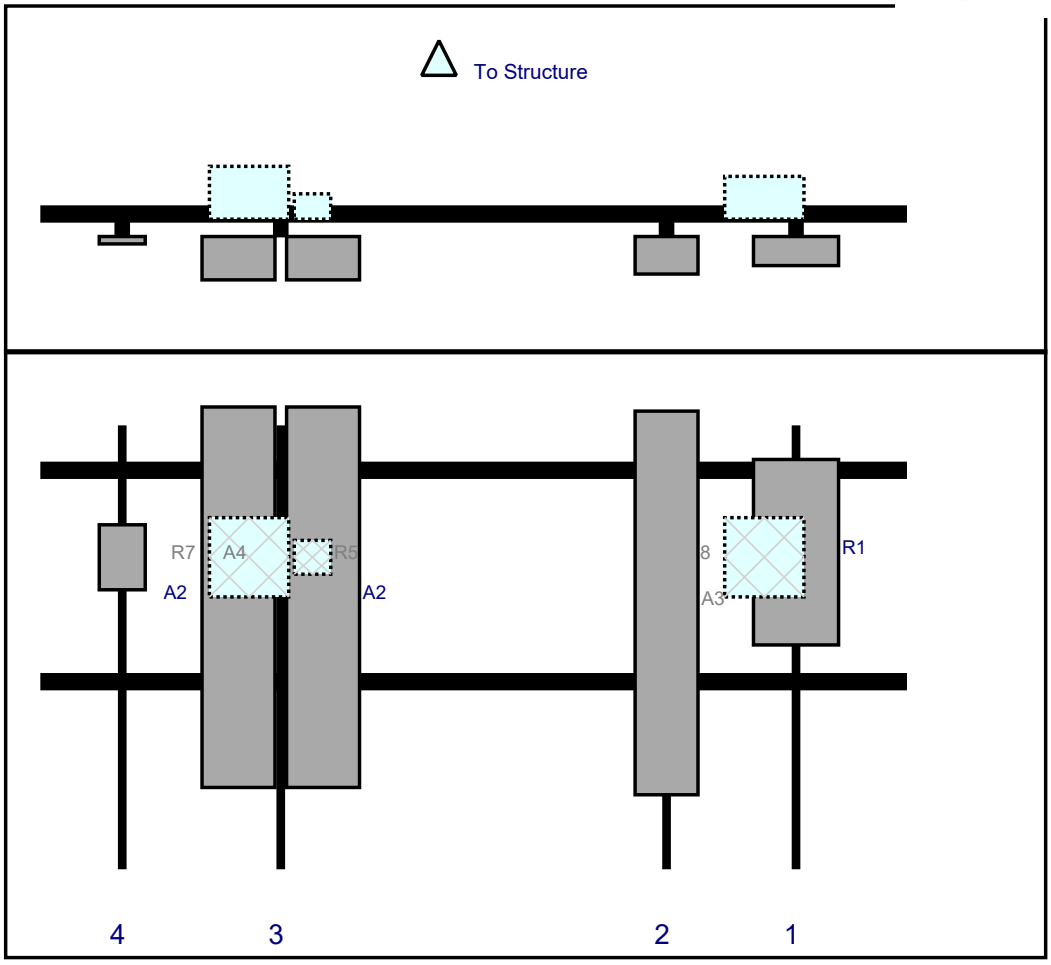
Structure Type: Monopole

Mount Elev: 137.25 Page: 1

MASER CONSULTING — CONNECTICUT —

**Plan View**

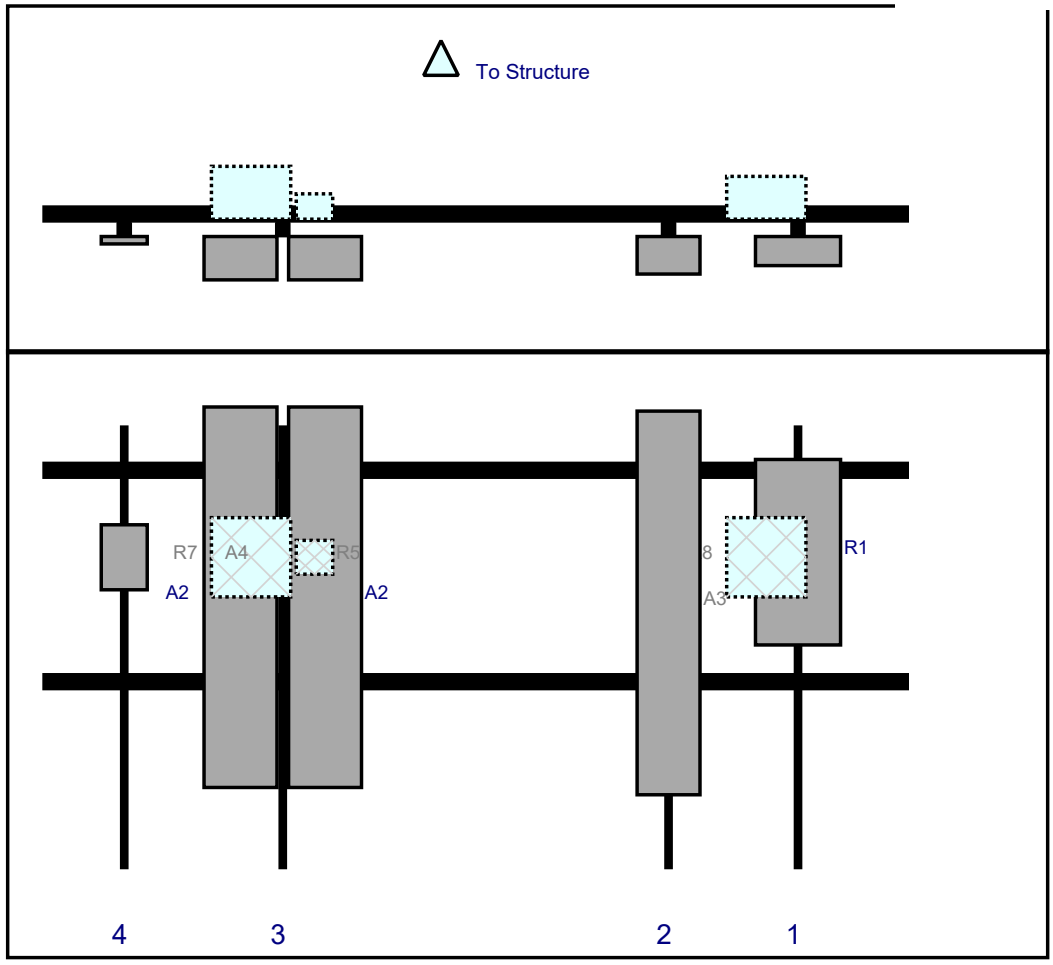
**Front View**
Looking at Structure




| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R1 | MT6407-77A | 35.1 | 16.1 | 143 | 1 | a | Front | 24 | 0 | Added | |
| R8 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | 143 | 1 | a | Behind | 24.96 | -6 | Retained | 04/01/2021 |
| A3 | SBNHH-1D65B | 72.6 | 11.9 | 118.5 | 2 | a | Front | 33.6 | 0 | Retained | 04/01/2021 |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 45.5 | 3 | a | Front | 32.52 | 8 | Retained | 04/01/2021 |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 45.5 | 3 | b | Front | 32.52 | -8 | Retained | 04/01/2021 |
| R5 | CBC78T-DS-43 | 6.4 | 6.9 | 45.5 | 3 | a | Behind | 24.96 | 6 | Retained | 04/01/2021 |
| R7 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 45.5 | 3 | a | Behind | 24.96 | -6 | Retained | 04/01/2021 |
| A4 | XXDWMM-12.5-65 | 12.3 | 8.7 | 15.5 | 4 | a | Front | 24.96 | 0 | Retained | 04/01/2021 |

**Plan View**

**Front View**
Looking at Structure




| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R1 | MT6407-77A | 35.1 | 16.1 | 143 | 1 | a | Front | 24 | 0 | Added | |
| R8 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | 143 | 1 | a | Behind | 24.96 | -6 | Retained | 04/01/2021 |
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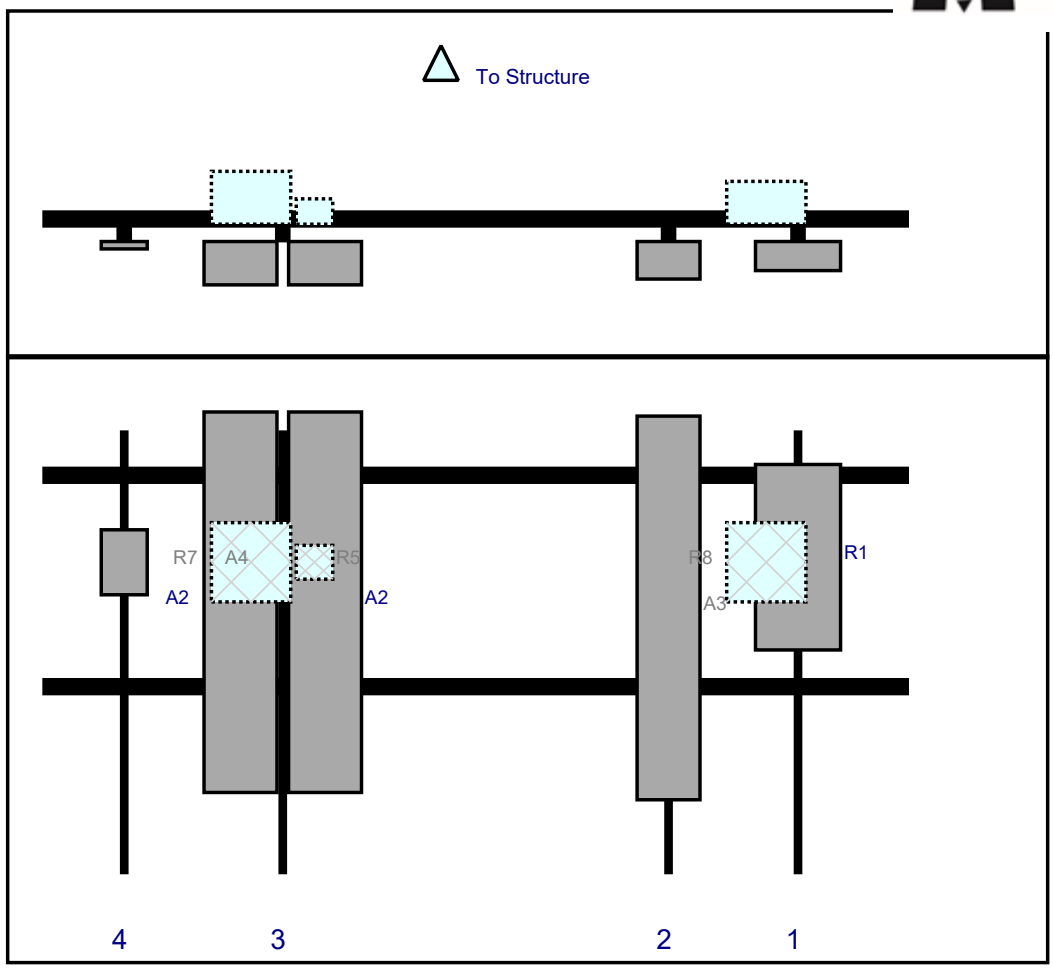
| R7 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 45.5 | 3 | a | Behind | 24.96 | -6 | Retained | 04/01/2021 |
| A4 | XXDWMM-12.5-65 | 12.3 | 8.7 | 15.5 | 4 | a | Front | 24.96 | 0 | Retained | 04/01/2021 |

MASER CONSULTING CONNECTICUT

**Plan View**

**Front View**
Looking at Structure




| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A3 | SBNHH-1D65B | 72.6 | 11.9 | 118.5 | 2 | a | Front | 33.6 | 0 | Retained | 04/01/2021 |
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| A2 | JAHH-65B-R3B | 72 | 13.8 | 45.5 | 3 | b | Front | 32.52 | -8 | Retained | 04/01/2021 |
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| R7 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 45.5 | 3 | a | Behind | 24.96 | -6 | Retained | 04/01/2021 |
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| R1 | MT6407-77A | 35.1 | 16.1 | 143 | 1 | a | Front | 24 | 0 | Added | |
| R8 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | 143 | 1 | a | Behind | 24.96 | -6 | Retained | 04/01/2021 |

# Maser Consulting Connecticut

MASER CONSULTING — CONNECTICUT —

| | | |
|---|---|---|
| ***Subject:*** | *TIA-222-H Usage* | |
| ***Site Information*** | *Site ID:* | *469297-VZW / WALLINGFORD 3 CT* |
| | *Site Name:* | *WALLINGFORD 3 CT* |
| | *Carrier Name:* | *Verizon Wireless* |
| | *Address:* | *90 North Plains Industrial Rd.*<br>*Wallingford, Connecticut 06492*<br>*New Haven County* |
| | *Latitude:* | *41.480361°* |
| | *Longitude:* | *-72.818389°* |
| ***Structure Information*** | *Tower Type:* | *180-Ft Monopole* |
| | *Mount Type:* | *13.67-Ft Platform* |

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed map by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Dejian Xu, PE
Technical Manager

**Site Name:** ***WALLINGFORD 3 CT***
**Cumulative Power Density**

| Operator | Operating Frequency | Number of Trans. | ERP Per Trans. | Total ERP | Distance to Target | Calculated Power Density | Maximum Permissible Exposure* | Fraction of MPE |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | | (watts) | (watts) | (feet) | (mW/cm^2) | (mW/cm^2) | (%) |
| VZW 700 | 751 | 4 | 634 | 2534 | 138 | 0.0048 | 0.5007 | 0.96% |
| VZW CDMA | 877.26 | 2 | 282 | 564 | 138 | 0.0011 | 0.5848 | 0.18% |
| VZW Cellular | 874 | 4 | 725 | 2902 | 138 | 0.0055 | 0.5827 | 0.94% |
| VZW PCS | 1975 | 4 | 1525 | 6100 | 138 | 0.0115 | 1.0000 | 1.15% |
| VZW AWS | 2120 | 4 | 1493 | 5973 | 138 | 0.0113 | 1.0000 | 1.13% |
| VZW CBRS | 3560.3 | 4 | 11 | 42 | 138 | 0.0001 | 1.0000 | 0.01% |
| VZW CBAND | 3730.08 | 4 | 6531 | 26125 | 138 | 0.0493 | 1.0000 | 4.93% |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| **Total Percentage of Maximum Permissible Exposure** | | | | | | | | 9.30% |

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Property Location: 90 NORTH PLAINS IND RD | MAP ID: 63/ / 15/ / | Bldg Name: | State Use: 3140

Vision ID: 15720 | Account # B0423200 | Bldg #: 1 of 1 | Sec #: 1 of 1 | Card 1 of 1 | Print Date: 02/16/2018 14:20

| CURRENT OWNER | TOPO. | UTILITIES | STRT./ROAD | LOCATION |
|---|---|---|---|---|
| R L R INVESTMENTS LLC | 1 Level | 2 Public Water | 1 Paved | 5 Industrial |
| 600 GILLAM RD | | | | |
| WILMINGTON, OH 45177 | | | | |
| Additional Owners: | | | | |

**SUPPLEMENTAL DATA**

| | | | |
|---|---|---|---|
| Other ID: | 059001023A | P/Z MAP # | 01-20 |
| Census: | 1754 | ENG MAP # | 0-1231 |
| Old MBLU | | Easement | |
| TC MAP # | | Town Line? | |
| TC MAP # | | IND PARKS | IN |
| Record Lot | | | |
| GIS ID: 63/15 | | ASSOC PID# | |

**CURRENT ASSESSMENT**

| Description | Code | Appraised Value | Assessed Value |
|---|---|---|---|
| COM LAND | 2-1 | 306,900 | 214,800 |
| COM BLDG | 2-2 | 1,165,800 | 816,100 |
| COM OUTBL | 2-5 | 231,800 | 162,300 |
| UTL LAND | 4-1 | 200,000 | 140,000 |
| | Total | 1,904,500 | 1,333,200 |

6148
WALLINGFORD, CT

VISION

**RECORD OF OWNERSHIP**

| | BK-VOL/PAGE | SALE DATE | q/u | v/i | SALE PRICE | V.C. |
|---|---|---|---|---|---|---|
| R L R INVESTMENTS LLC | 967/1109 | 09/12/2000 | | 1 | 950,000 | |
| BILKAYS EXPRESS CO | 501/1027 | 09/11/1980 | | | 0 | |

**PREVIOUS ASSESSMENTS (HISTORY)**

| Yr. | Code | Assessed Value | Yr. | Code | Assessed Value | Yr. | Code | Assessed Value |
|---|---|---|---|---|---|---|---|---|
| 2017 | 2-1 | 214,800 | 2016 | 2-1 | 214,800 | 2015 | 2-1 | 214,800 |
| 2017 | 2-2 | 816,100 | 2016 | 2-2 | 816,100 | 2015 | 2-2 | 816,100 |
| 2017 | 2-5 | 162,300 | 2016 | 2-5 | 162,300 | 2015 | 2-5 | 162,300 |
| 2017 | 4-1 | 140,000 | 2016 | 4-1 | 140,000 | 2015 | 4-1 | 140,000 |
| | Total: | 1,333,200 | | Total: | 1,333,200 | | Total: | 1,333,200 |

**EXEMPTIONS**

| Year | Type | Description | Amount |
|---|---|---|---|
| | | Total: | |

**OTHER ASSESSMENTS**

| Code | Description | Number | Amount | Comm. Int. |
|---|---|---|---|---|

*This signature acknowledges a visit by a Data Collector or Assessor*

**APPRAISED VALUE SUMMARY**

| | |
|---|---|
| Appraised Bldg. Value (Card) | 1,089,000 |
| Appraised XF (B) Value (Bldg) | 76,800 |
| Appraised OB (L) Value (Bldg) | 231,800 |
| Appraised Land Value (Bldg) | 506,900 |
| Special Land Value | 0 |
| Total Appraised Parcel Value | 1,904,500 |
| Valuation Method: | C |
| Adjustment: | 0 |
| **Net Total Appraised Parcel Value** | 1,904,500 |

**ASSESSING NEIGHBORHOOD**

| NBHD/ SUB | NBHD Name | Street Index Name | Tracing | Batch |
|---|---|---|---|---|
| I2/A | | | | |

**NOTES**

& L CARRIERS
EAT = PROPANE
8X100 BAS-SHOP
EE PID 133726
OMMUNICATIONS TOWER=5 SETS REPEATERS
-120' HT)-SPECTRASITE
COMMUN'S-888-773-2872
TANK=10000 GAL DIESEL=PP
TOWER BUILT 3/17/99
EYB=ADD(2001,ORIG (1989) ECO=MKT
ADDN-100 X 276 (2001)

**BUILDING PERMIT RECORD**

| Permit ID | Issue Date | Type | Description | Amount | Insp. Date | % Comp. | Date Comp. | Comments |
|---|---|---|---|---|---|---|---|---|
| 27653 | 05/10/2013 | CM | Commercial | 15,000 | 07/10/2013 | 100 | | EQUIPMENT PADS |
| 24344 CA | 01/22/2010 | CA | C - Approval | 0 | 07/23/2010 | 100 | 10/29/2010 | |
| 24344 | 01/22/2010 | CM | Commercial | 15,000 | 07/23/2010 | 100 | 10/29/2010 | INSTALL 3 ANTENNAS |
| 23761 CA | 05/19/2009 | CA | C - Approval | 0 | 07/20/2009 | 100 | 01/13/2010 | C/A FOR BP #23761 |
| 23761 | 05/19/2009 | CM | Commercial | 26,000 | 07/20/2009 | 100 | 07/20/2009 | CHANGE EXISTING A |
| 20960 | 08/31/2006 | CM | Commercial | 10,000 | 09/27/2006 | 100 | 08/31/2006 | Install new antennas |
| 14259 CO | 07/12/2002 | CC | C of C | 1,155,000 | 09/05/2002 | 100 | 03/04/2002 | C/C Addition to Termina |

**VISIT/ CHANGE HISTORY**

| Date | Type | IS | ID | Cd. | Purpose/Result |
|---|---|---|---|---|---|
| 07/10/2013 | 02 | | TH | 63 | Permit Check - No Measu |
| 07/23/2010 | 02 | 8 | DH | 63 | Permit Check - No Measu |
| 05/11/2010 | 03 | | KPC | 29 | Field Review |
| 07/27/2009 | 03 | | TH | 00 | Measur+Listed |
| 07/20/2009 | 02 | 8 | DH | 63 | Permit Check - No Measu |

**LAND LINE VALUATION SECTION**

| B # | Use Code | Use Description | Zone | D | Front | Depth | Units | | Unit Price | I. Factor | S.A. | Acre Disc | C. Factor | ST. Idx | Adj. | Notes- Adj | Special Pricing | S Adj Fact | Adj. Unit Price | Land Value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3140 | TRK TERM M96 | I40 | | | | 43,560 | SF | 2.76 | 1.0000 | C | 1.0000 | 1.00 | C60 | 0.85 | 3X L/B | | 1.00 | 2.35 | 102,200 |
| 1 | 3140 | TRK TERM M96 | I40 | | | | 1.75 | AC | 120,200.00 | 1.0000 | 0 | 1.0000 | 1.00 | C60 | 0.85 | | | 1.00 | 102,170.00 | 178,800 |
| 1 | 4310 | TEL REL TW M96 | | | | | 1.00 | BL | 200,000.00 | 1.0000 | 0 | 1.0000 | 1.00 | | 0.00 | CELL SITE-2,500 SF | | 1.00 | 200,000.00 | 200,000 |
| 1 | 4310 | TEL REL TW M96 | | | | | 2,500 | SF | 0.00 | 1.0000 | 0 | 1.0000 | 1.00 | | 0.00 | CELL SITE AREA | | .00 | 0.00 | 0 |
| 1 | 3140 | TRK TERM M96 | | | | | 2.59 | AC | 10,000.00 | 1.0000 | 0 | 1.0000 | 1.00 | | 0.00 | | | 1.00 | 10,000.00 | 25,900 |

Total Card Land Units: 5.40 AC | Parcel Total Land Area: 5.4 AC | Total Land Value: 506,900

Property Location: 90 NORTH PLAINS IND RD | MAP ID: 63/ / 15/ / | Bldg Name: | State Use: 3140

Vision ID: 15720 | Account # B0423200 | Bldg #: 1 of 1 | Sec #: 1 of 1 | Card 1 of 1 | Print Date: 02/16/2018 14:20

## CONSTRUCTION DETAIL

| Element | Cd. | Ch. | Description |
|---|---|---|---|
| Style | 414 | | Warehouse |
| Model | 96 | | Ind/Comm |
| Grade | C+ | | |
| Stories | 1 | | |
| Occupancy | 1 | | |
| Exterior Wall 1 | 20 | | Brick/Masonry |
| Exterior Wall 2 | 27 | | Pre-finsh Metl |
| Roof Structure | 03 | | Gable |
| Roof Cover | 01 | | Metal/Tin |
| Interior Wall 1 | 01 | | Minim/Masonry |
| Interior Wall 2 | | | |
| Interior Floor 1 | 04 | | Concr Abv Grad |
| Interior Floor 2 | | | |
| Heating Fuel | 03 | | Gas |
| Heating Type | 08 | | Radiant |
| AC Type | 06 | | Partial |
| Bldg Use | 3140 | | TRK TERM M96 |
| Total Rooms | | | |
| Total Bedrms | 00 | | |
| Total Baths | 0 | | |
| Heat/AC | 00 | | Heat/Min |
| Frame Type | 05 | | Steel |
| Baths/Plumbing | 02 | | Average |
| Ceiling/Wall | 04 | | Ceil & Min WL |
| Rooms/Prtns | 02 | | Average |
| Wall Height | 14 | | |
| % Comn Wall | 0 | | |

## CONSTRUCTION DETAIL (CONTINUED)

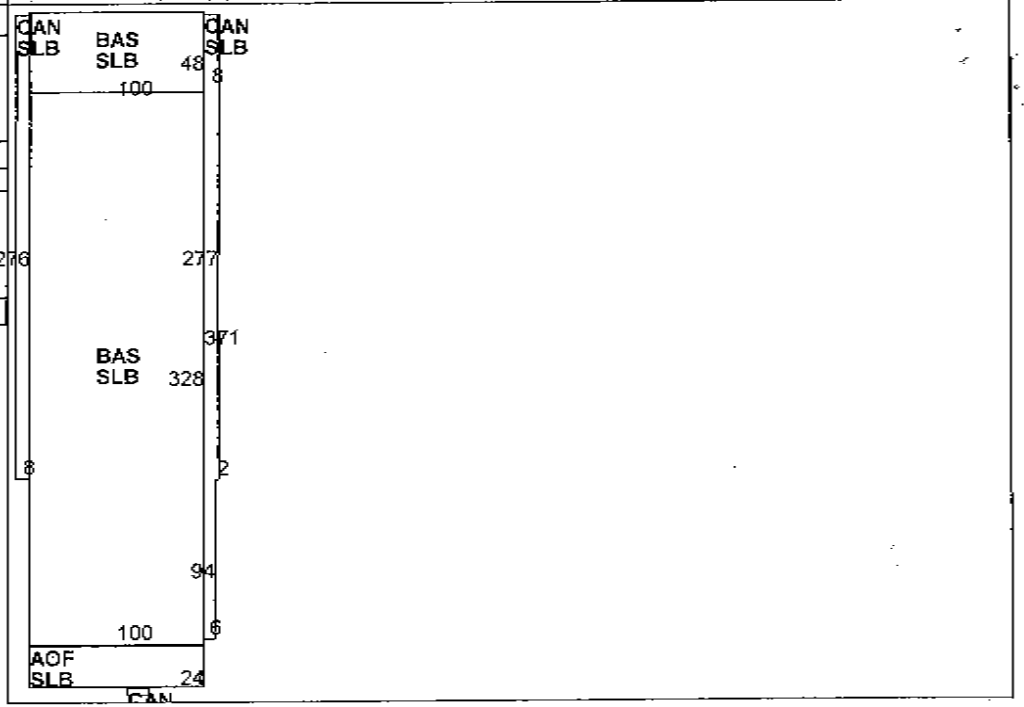
| Element | Cd. | Ch. | Description |
|---|---|---|---|
| | | | |

## MIXED USE

| Code | Description | Percentage |
|---|---|---|
| 3140 | TRK TERM M96 | 100 |

## COST/MARKET VALUATION

| | |
|---|---|
| Adj. Base Rate: | 36.25 |
| | 1,512,437 |
| Net Other Adj: | 0.00 |
| Replace Cost | 1,512,437 |
| AYB | 1981 |
| Dep Code | A |
| Remodel Rating | |
| Year Remodeled | |
| Dep % | 28 |
| Functional Obsinc | 0 |
| External Obsinc | 0 |
| Cost Trend Factor | |
| Condition | |
| % Complete | |
| Overall % Cond | 72 |
| Apprais Val | 1,089,000 |
| Dep % Ovr | 0 |
| Dep Ovr Comment | |
| Misc Imp Ovr | 0 |
| Misc Imp Ovr Comment | |
| Cost to Cure Ovr | 0 |
| Cost to Cure Ovr Comment | |

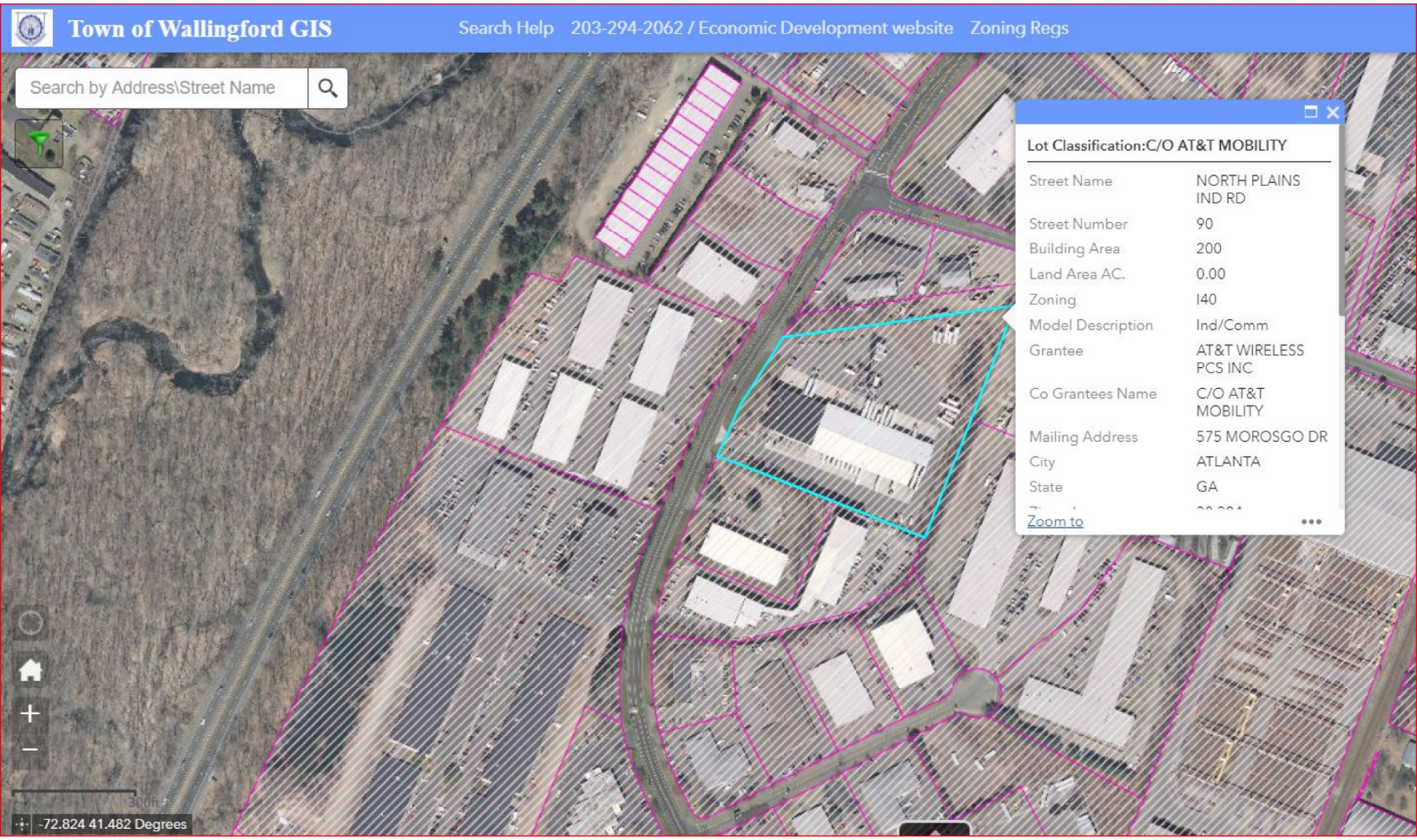


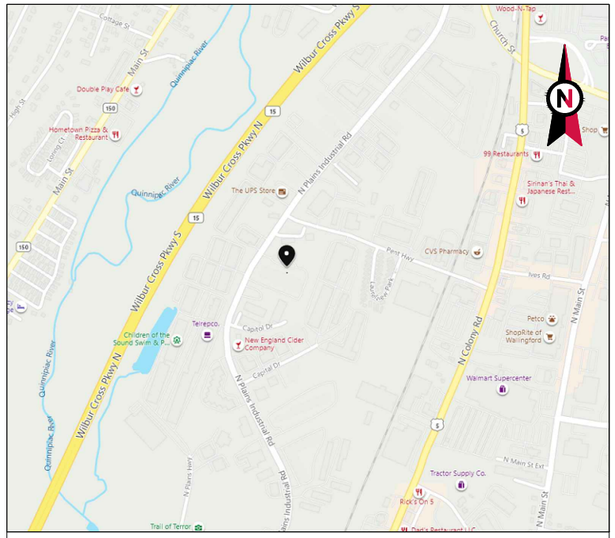

## OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)

| Code | Description | Sub | Sub Descript | L/B | Units | Unit Price | Yr | Gde | Dp Rt | Cnd | %Cnd | Apr Value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lights-In w/PL | | | L | 4 | 860.00 | 2001 | C | | A | 50 | 1,700 |
| | w/Double Ligh | | | L | 1 | 1,400.00 | 2001 | C | | A | 50 | 700 |
| PAV2 | Paving-Conc | | | L | 40,100 | 3.50 | 2002 | C | | G | 70 | 98,200 |
| PAV1 | Paving-Asphalt | | | L | 67,000 | 3.00 | 2001 | C | | A | 50 | 100,500 |
| FN3 | Fence-6' Chain | | | L | 1,900 | 11.00 | 2001 | C | | G | 70 | 14,600 |
| CP3 | Canopy-Comm | | | L | 1,150 | 20.00 | 2001 | C | | G | 70 | 16,100 |
| | Air Condition | | | B | 2,400 | 3.50 | 1987 | | 1 | | 100 | 6,000 |
| .2 | w/Man Lift Ou | | | B | 53 | 1,100.00 | 1987 | | 1 | | 100 | 42,000 |
| 1 | Sprinklers Wet | | | B | 40,000 | 1.00 | 1987 | | 1 | | 100 | 28,800 |

## BUILDING SUB-AREA SUMMARY SECTION

| Code | Description | Living Area | Gross Area | Eff. Area | Unit Cost | Undeprec. Value |
|---|---|---|---|---|---|---|
| | Office | 2,400 | 2,400 | 3,120 | 47.12 | 113,088 |
| | First Floor | 37,600 | 37,600 | 37,600 | 36.25 | 1,362,850 |
| | Canopy | 0 | 5,036 | 1,007 | 7.25 | 36,500 |
| | Slab | 0 | 44,988 | 0 | 0.00 | 0 |
| | Tot. Gross Liv/Lease Area: | 40,000 | 90,024 | 41,727 | | 1,512,437 |


Town of Wallingford GIS
Search Help
203-294-2062 / Economic Development website
Zoning Regs
Search by Address\Street Name
Lot Classification:C/O AT&T MOBILITY
Street Name
NORTH PLAINS IND RD
Street Number
90
Building Area
200
Land Area AC.
0.00
Zoning
I40
Model Description
Ind/Comm
Grantee
AT&T WIRELESS PCS INC
Co Grantees Name
C/O AT&T MOBILITY
Mailing Address
575 MOROSGO DR
City
ATLANTA
State
GA
Zoom to
-72.824 41.482 Degrees




VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: BILKAYS EXPRESS, CT
ATC SITE NUMBER: 302467
VERIZON WIRELESS SITE NAME: WALLINGFORD III CT
VERIZON WIRELESS SITE NUMBER: 469297
SITE ADDRESS: 90 NORTH PLAINS INDUSTRIAL RD.
WALLINGFORD, CT 06492


LOCATION MAP

# VERIZON WIRELESS
# ANTENNA AMENDMENT PLAN

## 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. 2018 CONNETICUT STATE BUILDNIG CODE
4. CITY/COUNTY ORDINANCES

## UTILITY COMPANIES

POWER COMPANY: WALLINGFORD ELECTRIC
PHONE: (203) 265-5055

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

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

## PROJECT SUMMARY

SITE ADDRESS:

90 NORTH PLAINS INDUSTRIAL RD.

WALLINGFORD, CT 06492

COUNTY: NEW HAVEN

GEOGRAPHIC COORDINATES:

LATITUDE: 41.48076111

LONGITUDE: -72.8177

GROUND ELEVATION: 56' AMSL

## PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

CLS ENGINEERING, PLLC
319 CHAPANOKE RD, SUITE 118
RALEIGH, NC 27603
PH: (405)348-5460
FAX: (405)341-4625

PROPERTY OWNER:

R L R INVESTMENTS LLC
90 NORTH PLAINS INDUSTRIAL RD.
WALLINGFORD - CT - 06492

## PROJECT DESCRIPTION

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

INSTALL (3) ANTENNA(s)

EXISTING (12) ANTENNA(s), (9) RRH(s), (3) DIPLEXER(s), (2) OVP(s), (12) 1-5/8" COAX(s) AND (2) 6X12 HYBRIFLEX CABLE(s) TO REMAIN

AC ELECTRICAL POWER DESIGN TO BE PERFORMED BY OTHERS

## 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.

## PROJECT LOCATION DIRECTIONS

FROM HARTFORD TAKE I-91 SOUTH TO EXIT 15. TURN RIGHT ONTO RT 68. FOLLOW OVER RT 5 AND TURN LEFT ON NORTH INDUSTRIAL PLAINS ROAD. TOWER IS DOWN ON LEFT IN TRUCKING COMPANY COMPOUND.

## SHEET INDEX

| SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
|---|---|---|---|---|
| G-001 | TITLE SHEET | 0 | 06/21/21 | MH |
| G-002 | GENERAL NOTES | 0 | 06/21/21 | MH |
| C-101 | DETAILED SITE PLAN | 0 | 06/21/21 | MH |
| C-201 | TOWER ELEVATION | 0 | 06/21/21 | MH |
| C-401 | ANTENNA INFORMATION & SCHEDULE | 0 | 06/21/21 | MH |
| C-501 | CONSTRUCTION DETAILS | 0 | 06/21/21 | MH |
| E-501 | GROUNDING DETAILS | 0 | 06/21/21 | MH |
| R-601 | SUPPLEMENTAL | | | |
| R-602 | SUPPLEMENTAL | | | |

AMERICAN TOWER®

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|---|---|---|---|
| A | PRELIM | MH | 05/20/21 |
| 0 | FOR CONSTRUCTION | MH | 06/21/21 |

ATC SITE NUMBER:
302467

ATC SITE NAME:
BILKAYS EXPRESS, CT

VERIZON WIRELESS SITE NAME:
WALLINGFORD III CT

SITE ADDRESS:
90 NORTH PLAINS INDUSTRIAL RD.
WALLINGFORD, CT 06492

SEAL:


Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022
06/23/2021

PE# 32402 EXP: 01/31/2022

verizon

| | |
|---|---|
| DATE DRAWN: | 06/21/21 |
| ATC JOB NO: | 13668984_D1 |
| CUSTOMER ID: | WALLINGFORD III CT |
| CUSTOMER #: | 469297 |

TITLE SHEET

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

## GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON WIRELESS "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 VERIZON WIRELESS 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 VERIZON WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON WIRELESS REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON WIRELESS 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 VERIZON WIRELESS 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 VERIZON WIRELESS 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 VERIZON WIRELESS 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 VERIZON WIRELESS 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 VERIZON WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS 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 VERIZON WIRELESS 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 VERIZON WIRELESS REP. ANY WORK FOUND BY THE VERIZON WIRELESS 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. VERIZON WIRELESS FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WIRELESS 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. VERIZON WIRELESS 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 VERIZON WIRELESS OR THEIR ARCHITECT/ENGINEER.

## SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON WIRELESS 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 VERIZON WIRELESS 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.**

AMERICAN TOWER®

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319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
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| A | PRELIM | MH | 05/20/21 |
| 0 | FOR CONSTRUCTION | MH | 06/21/21 |
| | | | |
| | | | |
| | | | |

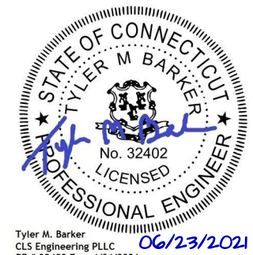
ATC SITE NUMBER:
302467

ATC SITE NAME:
BILKAYS EXPRESS, CT

VERIZON WIRELESS SITE NAME:
WALLINGFORD III CT

SITE ADDRESS:
90 NORTH PLAINS INDUSTRIAL RD.
WALLINGFORD, CT 06492

SEAL:




Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022
06/23/2021

PE# 32402 EXP: 01/31/2022

verizon

| | |
|---|---|
| DATE DRAWN: | 06/21/21 |
| ATC JOB NO: | 13668984_D1 |
| CUSTOMER ID: | WALLINGFORD III CT |
| CUSTOMER #: | 469297 |

GENERAL NOTES

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

SITE PLAN NOTES:

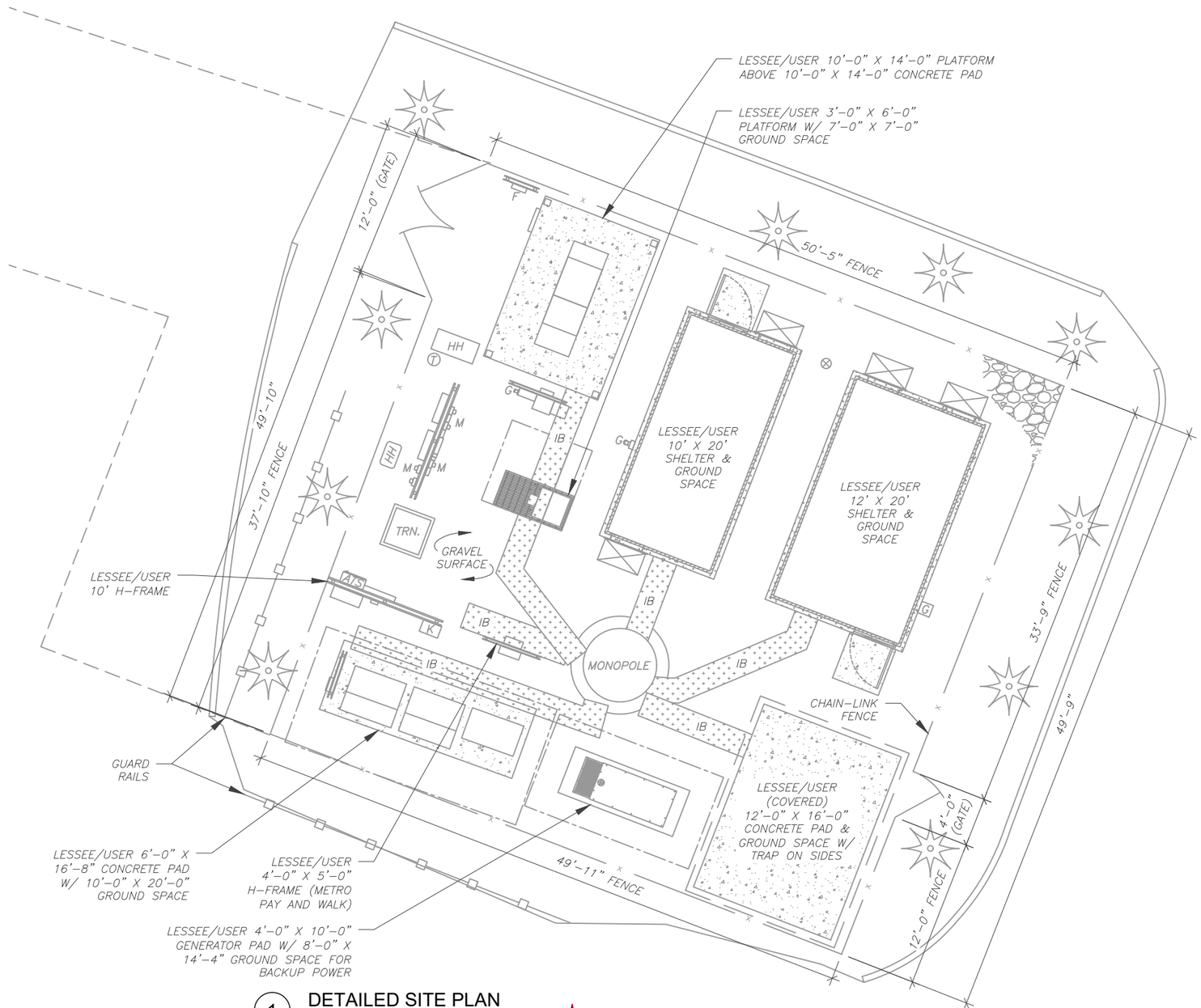
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

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 |




1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

( IN FEET )
1 UNIT = 10 FEET

N

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WALLINGFORD, CT 06492

SEAL:

STATE OF CONNECTICUT
TYLER M BARKER
No. 32402
LICENSED
PROFESSIONAL ENGINEER

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022
06/23/2021

PE# 32402 EXP: 01/31/2022

verizon

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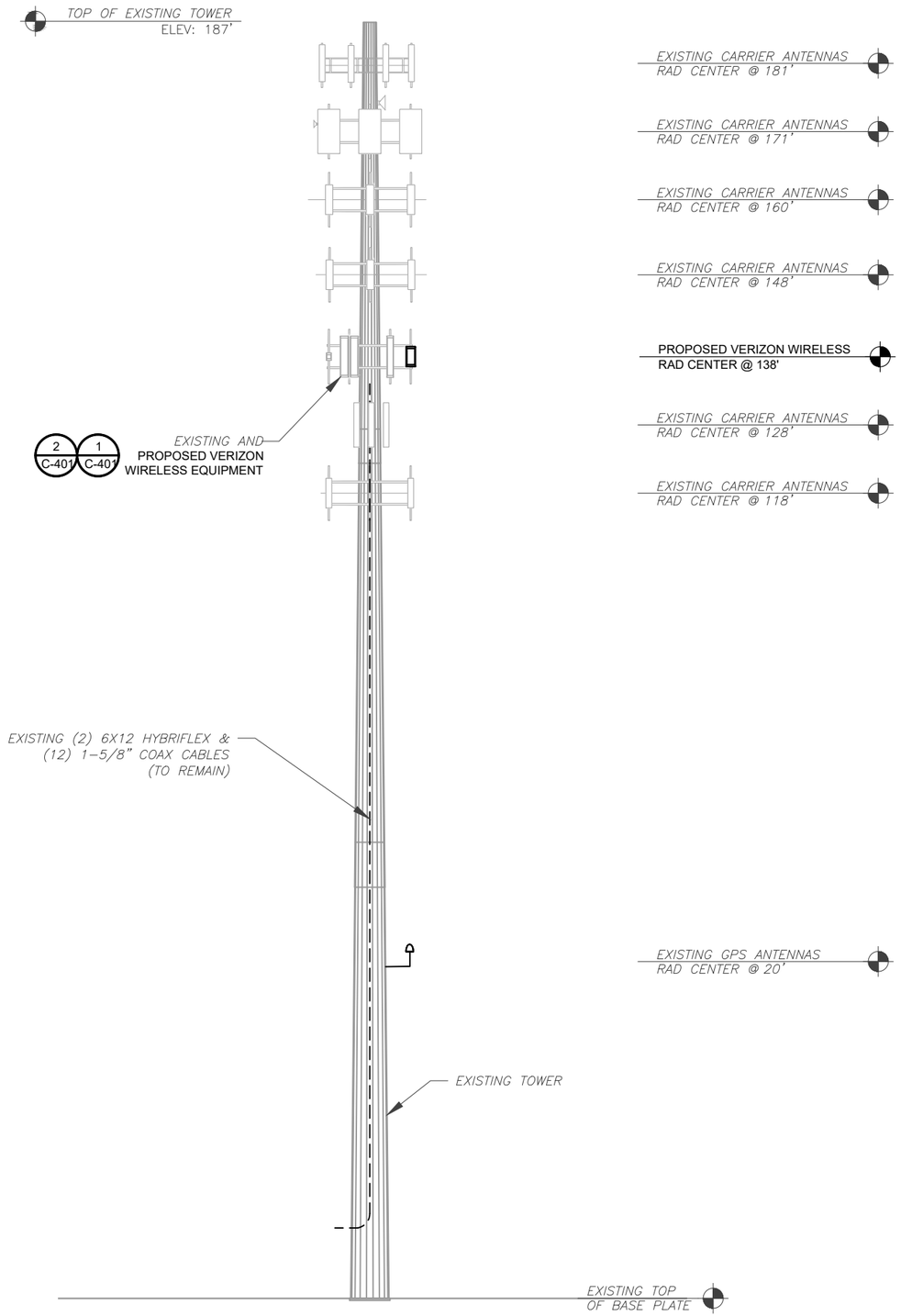
DETAILED SITE PLAN

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




1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 06/09/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

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. 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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WALLINGFORD, CT 06492

SEAL:

STATE OF CONNECTICUT · TYLER M BARKER · No. 32402 · LICENSED PROFESSIONAL ENGINEER

Tyler M. Barker
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PE # 32402 Exp. 1/31/2021
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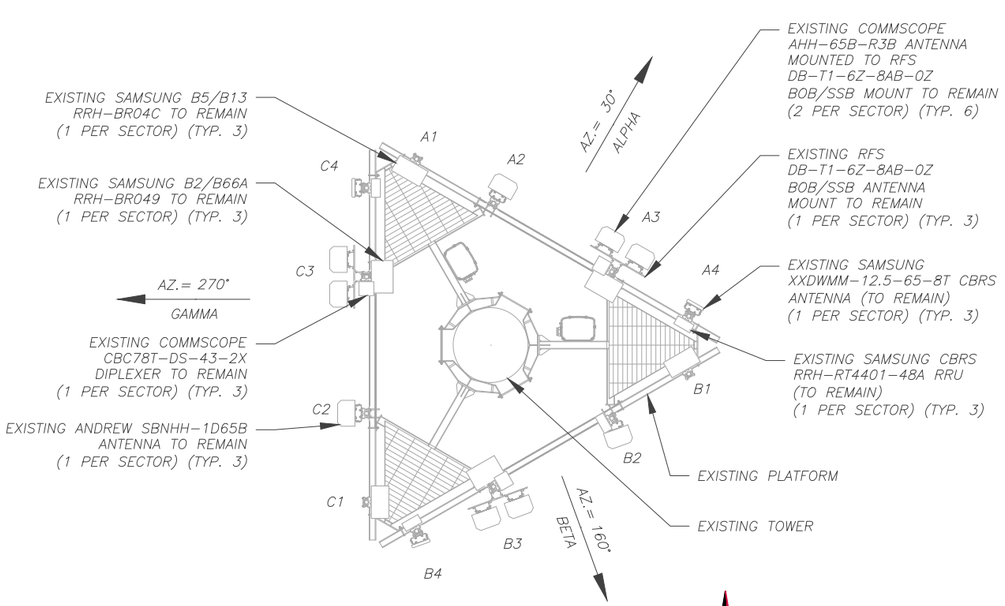
TOWER ELEVATION

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

EXISTING CONFIGURATIONS ARE BASED ON RFDS.
CONTRACTOR TO VERIFY EXISTING CONDITIONS.

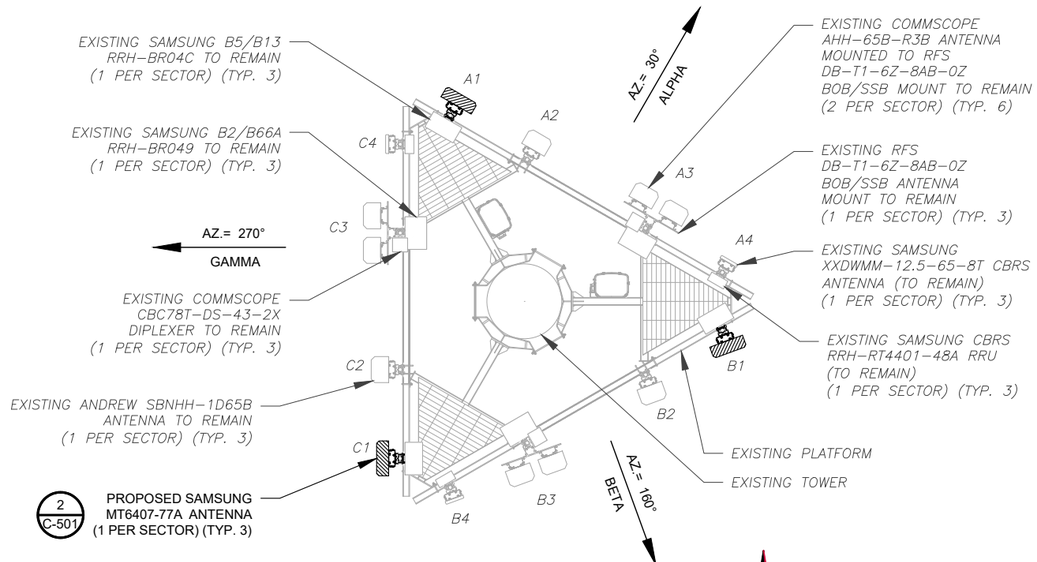



1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 06/09/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM ALL ANTENNAS

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(s) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS




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 | 138' | 30° | A1 | – | – | – | – | – | – |
| | | | A2 | COMMSCOPE SBNHH–1D65B | CDMA 850 | 0/2 | RMN | – | RMN |
| | | | A3 | (2) COMMSCOPE JAHH–65B–R3B | LTE 700/LTE 850 LTE 1900/LTE 2100 | 0/2 | RMN | SAMSUNG B2/B66A RRH–BR049 SAMSUNG B5/B13 RRH–BR04C COMMSCOPE CBC78T–DS–43–2X | RMN |
| | | | A4 | SAMSUNG XXDWMM–12.5–65–8T CBRS | LTE CBRS | 0/8 | RMN | SAMSUNG CBRS RRH–RT4401–48A | RMN |
| BETA | 138' | 160° | B1 | – | – | – | – | – | – |
| | | | B2 | COMMSCOPE SBNHH–1D65B | CDMA 850 | 0/2 | RMN | – | RMN |
| | | | B3 | (2) COMMSCOPE JAHH–65B–R3B | LTE 700/LTE 850 LTE 1900/LTE 2100 | 0/2 | RMN | SAMSUNG B2/B66A RRH–BR049 SAMSUNG B5/B13 RRH–BR04C COMMSCOPE CBC78T–DS–43–2X | RMN |
| | | | B4 | SAMSUNG XXDWMM–12.5–65–8T CBRS | LTE CBRS | 0/8 | RMN | SAMSUNG CBRS RRH–RT4401–48A | RMN |
| GAMMA | 138' | 270° | C1 | – | – | – | – | – | – |
| | | | C2 | COMMSCOPE SBNHH–1D65B | CDMA 850 | 0/2 | RMN | – | RMN |
| | | | C3 | (2) COMMSCOPE JAHH–65B–R3B | LTE 700/LTE 850 LTE 1900/LTE 2100 | 0/2 | RMN | SAMSUNG B2/B66A RRH–BR049 SAMSUNG B5/B13 RRH–BR04C COMMSCOPE CBC78T–DS–43–2X | RMN |
| | | | C4 | SAMSUNG XXDWMM–12.5–65–8T CBRS | LTE CBRS | 0/8 | RMN | SAMSUNG CBRS RRH–RT4401–48A | RMN |

NOTES

1. CONFIRM WITH VERIZON WIRELESS 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 | 138' | 30° | A1 | SAMSUNG MT6407-77A | NL-SUB6 | 0/6 | ADD | - | - |
| | | | A2 | COMMSCOPE SBNHH–1D65B | CDMA 850 | 0/2 | RMN | – | RMN |
| | | | A3 | (2) COMMSCOPE JAHH–65B–R3B | LTE 700/LTE 850 LTE 1900/LTE 2100 | 0/2 | RMN | SAMSUNG B2/B66A RRH–BR049 SAMSUNG B5/B13 RRH–BR04C COMMSCOPE CBC78T–DS–43–2X | RMN |
| | | | A4 | SAMSUNG XXDWMM–12.5–65–8T CBRS | LTE CBRS | 0/8 | RMN | SAMSUNG CBRS RRH–RT4401–48A | RMN |
| BETA | 138' | 160° | B1 | SAMSUNG MT6407-77A | NL-SUB6 | 0/6 | ADD | - | - |
| | | | B2 | COMMSCOPE SBNHH–1D65B | CDMA 850 | 0/2 | RMN | – | RMN |
| | | | B3 | (2) COMMSCOPE JAHH–65B–R3B | LTE 700/LTE 850 LTE 1900/LTE 2100 | 0/2 | RMN | SAMSUNG B2/B66A RRH–BR049 SAMSUNG B5/B13 RRH–BR04C COMMSCOPE CBC78T–DS–43–2X | RMN |
| | | | B4 | SAMSUNG XXDWMM–12.5–65–8T CBRS | LTE CBRS | 0/8 | RMN | SAMSUNG CBRS RRH–RT4401–48A | RMN |
| GAMMA | 138' | 270° | C1 | SAMSUNG MT6407-77A | NL-SUB6 | 0/6 | ADD | - | - |
| | | | C2 | COMMSCOPE SBNHH–1D65B | CDMA 850 | 0/2 | RMN | – | RMN |
| | | | C3 | (2) COMMSCOPE JAHH–65B–R3B | LTE 700/LTE 850 LTE 1900/LTE 2100 | 0/2 | RMN | SAMSUNG B2/B66A RRH–BR049 SAMSUNG B5/B13 RRH–BR04C COMMSCOPE CBC78T–DS–43–2X | RMN |
| | | | C4 | SAMSUNG XXDWMM–12.5–65–8T CBRS | LTE CBRS | 0/8 | RMN | SAMSUNG CBRS RRH–RT4401–48A | RMN |

| EXISTING FIBER DISTRIBUTION/OVP BOX | | EXISTING CABLING SUMMARY | | |
|---|---|---|---|---|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| (2) RFS DB–T1–6Z–8AB–0Z | RMN | (12) 1–5/8" | (2) 6X12 HYBRIFLEX | RMN |
| – | – | (1) 1/2" | – | RMV |

| FINAL FIBER DISTRIBUTION / OVP BOX | | FINAL CABLING SUMMARY | | |
|---|---|---|---|---|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| (2) RFS DB–T1–6Z–8AB–0Z | RMN | (12) 1–5/8" | (2) 6X12 HYBRIFLEX | RMN |
| - | - | - | - | - |

3 EQUIPMENT SCHEDULES

AMERICAN TOWER®


CLS ENGINEERING PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348–5460 FAX: (405)341–4625




COA# PEC.001833 EXP. 08/14/2021

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | PRELIM | MH | 05/20/21 |
| 0 | FOR CONSTRUCTION | MH | 06/21/21 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302467

ATC SITE NAME:
BILKAYS EXPRESS, CT

VERIZON WIRELESS SITE NAME:
WALLINGFORD III CT

SITE ADDRESS:
90 NORTH PLAINS INDUSTRIAL RD.
WALLINGFORD, CT 06492

SEAL:


Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022
06/23/2021

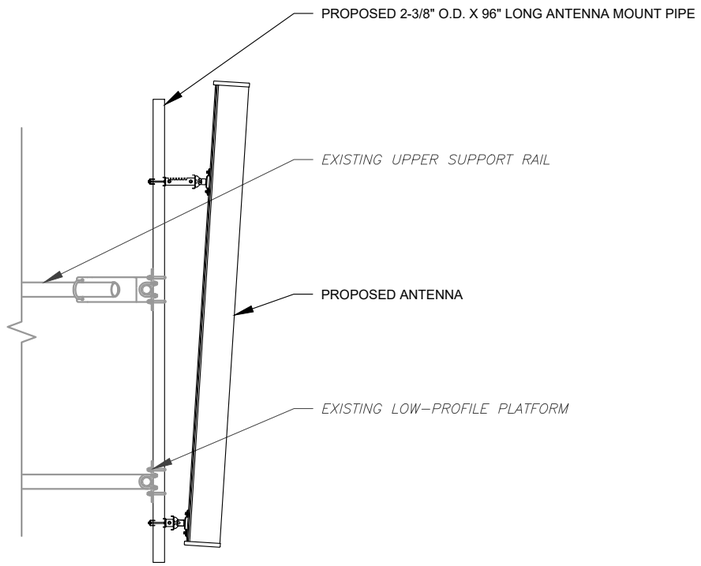
PE# 32402 EXP: 01/31/2022

verizon

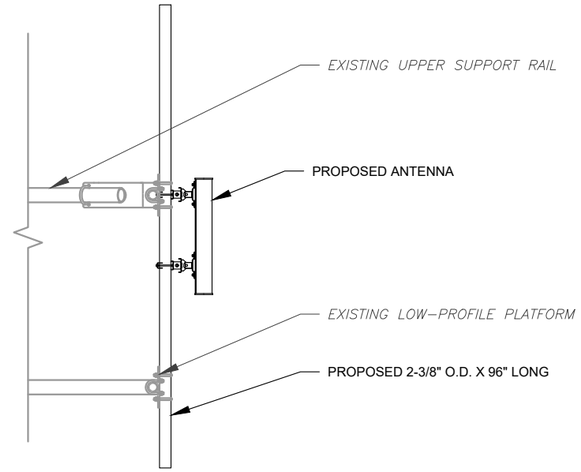
| | |
|---|---|
| DATE DRAWN: | 06/21/21 |
| ATC JOB NO: | 13668984_D1 |
| CUSTOMER ID: | WALLINGFORD III CT |
| CUSTOMER #: | 469297 |

ANTENNA INFORMATION & SCHEDULE

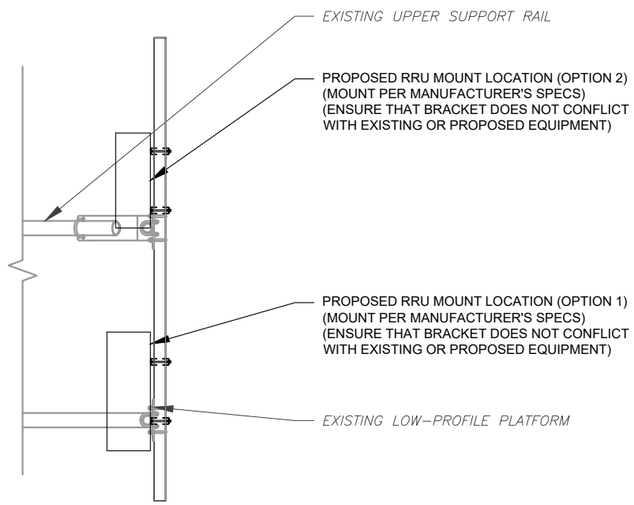
| SHEET NUMBER: | REVISION: |
|---|---|
| C-401 | 0 |




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.

AMERICAN TOWER®

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319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP. 08/14/2021

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | PRELIM | MH | 05/20/21 |
| 0 | FOR CONSTRUCTION | MH | 06/21/21 |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302467

ATC SITE NAME:
BILKAYS EXPRESS, CT

VERIZON WIRELESS SITE NAME:
WALLINGFORD III CT

SITE ADDRESS:
90 NORTH PLAINS INDUSTRIAL RD.
WALLINGFORD, CT 06492

SEAL:

STATE OF CONNECTICUT
TYLER M BARKER
No. 32402
LICENSED
PROFESSIONAL ENGINEER

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022
06/23/2021

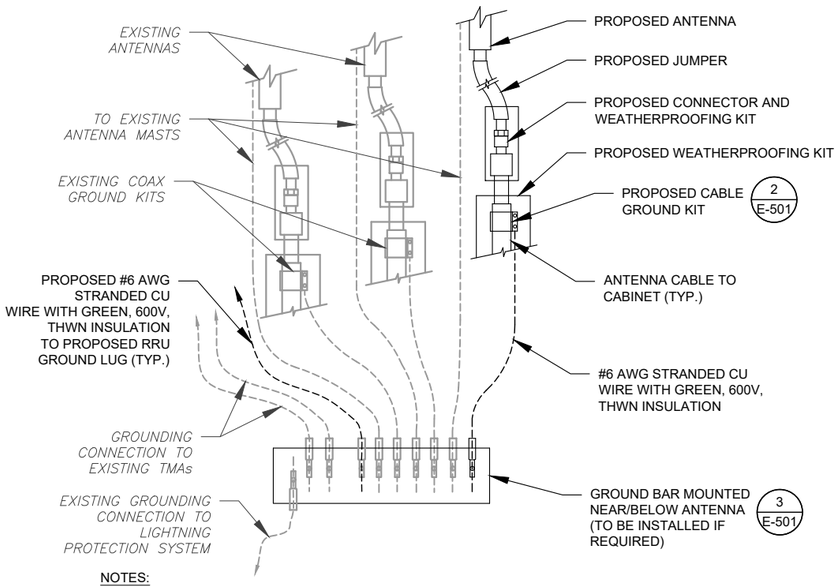
PE# 32402 EXP: 01/31/2022

verizon

| | |
|---|---|
| DATE DRAWN: | 06/21/21 |
| ATC JOB NO: | 13668984_D1 |
| CUSTOMER ID: | WALLINGFORD III CT |
| CUSTOMER #: | 469297 |

CONSTRUCTION DETAILS

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

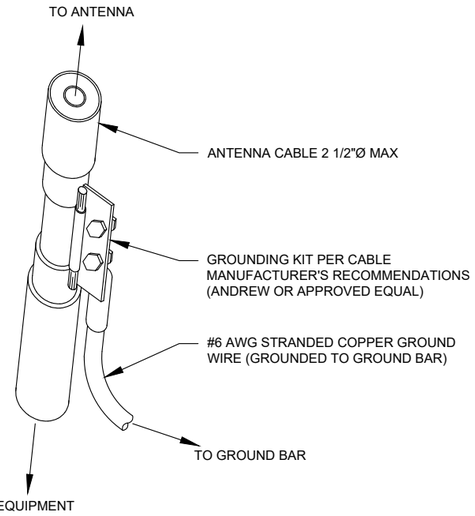



NOTES:

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 VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS 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.

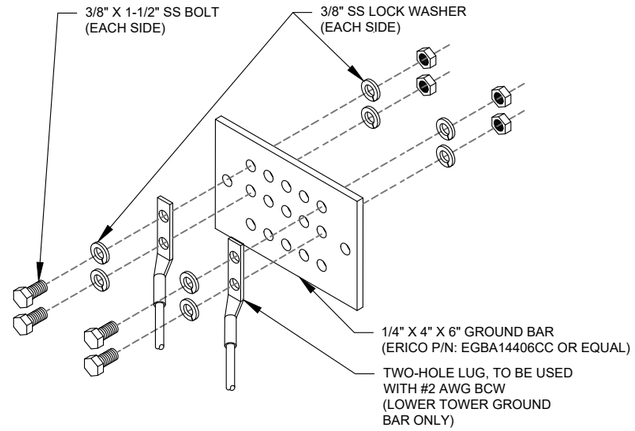



GROUND KIT NOTES:

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.

AMERICAN TOWER®

CLS ENGINEERING PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625



COA# PEC.001833 EXP. 08/14/2021

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

ATC SITE NUMBER:
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WALLINGFORD, CT 06492

SEAL:


Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022
06/23/2021

PE# 32402 EXP: 01/31/2022

verizon

| | |
|---|---|
| DATE DRAWN: | 06/21/21 |
| ATC JOB NO: | 13668984_D1 |
| CUSTOMER ID: | WALLINGFORD III CT |
| CUSTOMER #: | 469297 |

GROUNDING DETAILS

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

- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

RET DC signal pass for RET
(Port that will control RET)

BSAMNT-SBS-2-2

CBRS Clip on

JAHH

JAHH

CBC78T-DS-43-2X
Diplexer

B5/B13 RRH-BR04C (RFV01U-D2A)

B2/B66A RRH-BR049 (RFV01U-D1A)

L-SUB6
Ant/ RRH

SBNHH

1.5/8"

1.5/8"

DC signal capable Port

AISG Cable

RET DC signal pass for RET
(Port that will control RET)

Hybriflex cables

6 OVP Box

6 OVP Box

Tower/
Watertank/
Rooftop

Equipment
Pad

850 Cell

*Comments:*

*Diagram shows antenna port configuration as viewed from below antennas.*

*Antenna positions are indicated as viewed from IN FRONT of antennas.*

*Cap and weatherproof unused antenna ports.*

*All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)*

SUPPLEMENTAL

SHEET NUMBER:
R-601

REVISION:

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@colliersengineering.com

# Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050697
Maser Consulting Connecticut Project #: 21777595A

June 9, 2021

***Site Information***

| | |
|---|---|
| *Site ID:* | *469297-VZW / WALLINGFORD 3 CT* |
| *Site Name:* | *WALLINGFORD 3 CT* |
| *Carrier Name:* | *Verizon Wireless* |
| *Address:* | *90 North Plains Industrial Rd.*<br>*Wallingford, Connecticut 06492*<br>*New Haven County* |
| *Latitude:* | *41.480361°* |
| *Longitude:* | *-72.818389°* |

***Structure Information***

| | |
|---|---|
| *Tower Type:* | *180-Ft Monopole* |
| *Mount Type:* | *13.67-Ft Platform* |

**FUZE ID # 16227578**

## Analysis Results

Platform: **42.8% Pass**

***Contractor PMI Requirements:***
***Included at the end of this MA report***
***Available & Submitted via portal at https://pmi.vzwsmart.com***
***Contractor - Please Review Specific Site PMI Requirements Upon Award***
***Requirements also Noted on Mount Modification Drawings***
***Requirements may also be Noted on A & E drawings***

Report Prepared By: Evelina Lopez

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED PROFESSIONAL ENGINEER
06/09/2021



5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.**

## Analysis Results:

| Component | Utilization % | Pass/Fail |
|---|---|---|
| *Face Horizontal* | *11.8%* | *Pass* |
| *End Plate* | *42.8%* | *Pass* |
| *Standoff Horizontal* | *30.0%* | *Pass* |
| *Kicker* | *9.1%* | *Pass* |
| *Cross Brace* | *6.5%* | *Pass* |
| *Support Rail* | *17.2%* | *Pass* |
| *Antenna Pipe* | *31.6%* | *Pass* |
| *Dual Mount Pipe* | *29.5%* | *Pass* |
| *Support Corner Angle* | *25.2%* | *Pass* |
| *Mount Connection* | *23.9%* | *Pass* |
| **Structure Rating** – ***(Controlling Utilization of all Components)*** | **42.8%** | |

## Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

SUPPLEMENTAL

SHEET NUMBER: R-602
REVISION: