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Also admitted in Massachusetts
and New York

October 22, 2025

Via Electronic and U.S. Mail

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

Re: **Notice of Exempt Modification – Facility Modification
150 Willow Street, Hamden, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Siting Council (“Council”) in May of 2007 (Docket No. 324). Cellco’s use of the tower was approved by the Council in March of 2008 (EM-VER-062-080213). Copies of the Council’s Docket No. 324 Decision and Order and Cellco’s EM-VER-062-080213 approval are included in Attachment 1.

The proposed modifications involve the installation of two (2) interference mitigation filters (“Filters”) on Cellco’s existing antenna platform. The specification sheet for the new Filters is included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 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 the Town’s Chief Elected Official and Land Use Officer. A copy of this letter is being sent to the owners of the tower and the Property.

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

33157020-v1

Melanie A. Bachman, Esq.
October 22, 2025
Page 2

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new Filters will be installed on its existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, 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 installation of the new Filters will not result in a change to radio frequency (RF) emissions from the facility. Therefore, no new RF emissions information is included in this filing.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis Report ("SA") and Antenna Mount Analysis Report ("MA"), the existing tower, tower foundation and antenna mounts can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 3.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 5.

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Lauren Garrett, Mayor
Eugene Livshits, Town Planner
Hamden Fish and Game Protective Association, Property Owner
Vertical Bridge, Tower Owner
Joseph Pereira, Verizon Wireless, via email
Greg Richard, Centerline Communications, via email

ATTACHMENT 1

DOCKET NO. 324 – Sprint Nextel Corporation application for a }
Certificate of Environmental Compatibility and Public Need for }
the construction, maintenance and operation of a wireless }
telecommunications facility at 150 Willow Street, Hamden, }
Connecticut. }

Connecticut

Siting

Council

May 1, 2007

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Sprint Nextel Corporation, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 150 Willow Street, Hamden, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Sprint Nextel Corporation and other entities, both public and private, but such tower shall not exceed a height of 160 feet above ground level. The height at the top of the antennas shall not exceed 160 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Hamden for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
7. The Certificate Holder shall engineer a break point on the monopole to ensure that the tower setback radius remains outside of The Connecticut Light and Power Company easement.
8. The Certificate Holder shall comply with the Connecticut Department of Public Health's Best Management Practices to the extent applicable, to protect the drinking water supply.
9. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
10. Any request for extension of the time period referred to in Condition 9 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Hamden. Any proposed modifications to this Decision and Order shall likewise be so served.
11. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
12. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.
13. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The New Haven Register.

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

The parties and intervenors to this proceeding are:

Applicant

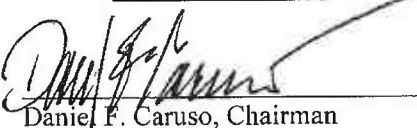
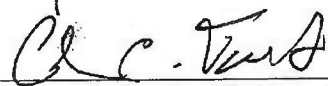
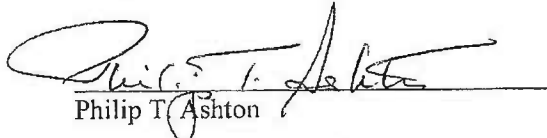
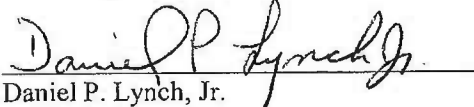
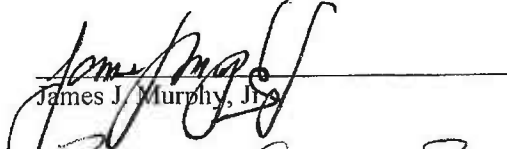
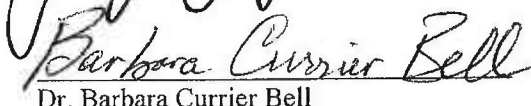
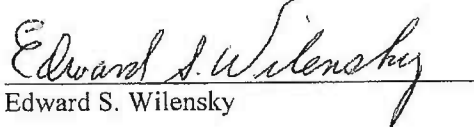
Sprint Nextel Corporation

Its Representative

Thomas J. Regan, Esq.
Brown Rudnick Berlack Israels LLP
CityPlace I, 38th Floor
185 Asylum Street
Hartford, CT 06103-3402
Phone: 860-509-6522
Fax: 860-509-6501
Email: tregan@brownrudnick.com

CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in **DOCKET NO. 324** – Sprint Nextel Corporation application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at 150 Willow Street, Hamden, Connecticut, and voted as follows to approve the proposed site, located at 150 Willow Street, Hamden, Connecticut:

<u>Council Members</u>	<u>Vote Cast</u>
 Daniel F. Caruso, Chairman	Yes
 Colin C. Tait, Vice Chairman	Yes
 Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Yes
 Commissioner Gina McCarthy Designee: Brian J. Emerick	Yes
 Philip T. Ashton	Abstain
 Daniel P. Lynch, Jr.	Yes
 James J. Murphy, Jr.	Yes
 Dr. Barbara Currier Bell	Yes
 Edward S. Wilensky	Yes

Dated at New Britain, Connecticut, May 1, 2007.

March 26, 2008

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **EM-VER-062-080213** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an approved telecommunications facility located at 150 Willow Street, Hamden, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 13, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to a facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps
Executive Director
SDP/MP

c: Honorable Craig B. Henrici, Mayor, Town of Hamden
Leslie Creane, Town Planner, Town of Hamden
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP

ATTACHMENT 2

BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



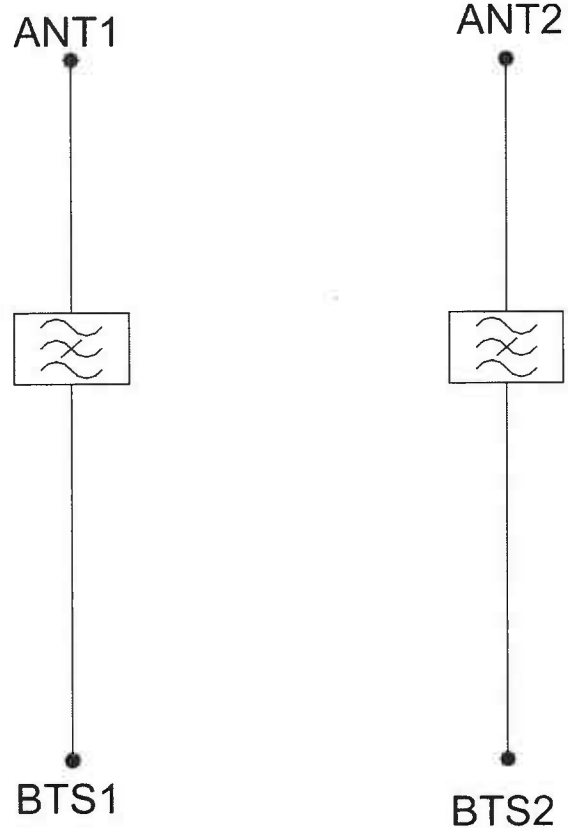
TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
MECHANICAL		
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

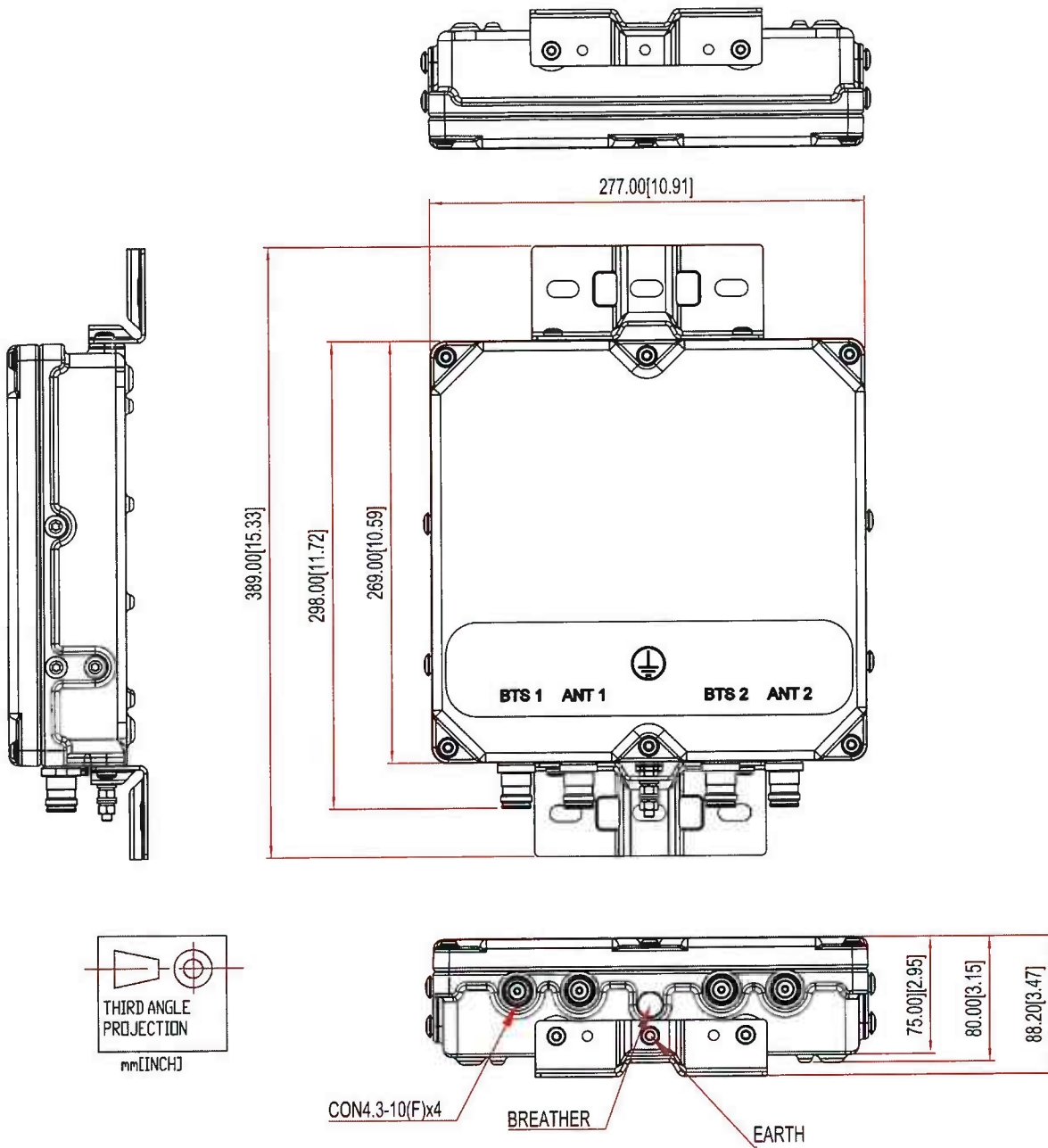
ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



ATTACHMENT 3



Structural Analysis Report

Structure : 173 Foot Monopole Tower
VB Site Name : CT54XC773
VB Site Number : US-CT-5019
Deal Number : P-081044
Proposed Carrier : Verizon Wireless
Carrier Site Name : HAMDEN NORTH 2 CT
Carrier Site Number : MDG Location ID : 5000382446
Site Location : 150 Willow Street
HAMDEN, CT 6401 (New Haven County)
41.44945277, -72.90468333
Date : October 02, 2025
Max Member Stress Level : 79.6% (Tower)
56.2% (Foundation)
35.1% (Flange Plate)
Result : PASS

Prepared by:


VERTICAL BRIDGE ENGINEERING, LLC



10/03/2025

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 Attachment 1: Calculations Attached

 Attachment 2: Collocation Application..... Attached

Introduction

We have completed our structural analysis of the proposed equipment installation on the foregoing tower to determine its ability to support the new loads proposed by Verizon Wireless. The objective of the analysis was to determine if the tower meets the current structural codes and standards with the proposed equipment installation.

Existing Structural Information

The following documents for the existing structure were made available for our structural analysis.

Tower Information	EEI Project # 14977, dated December 27, 2007
Foundation Information	EEI Project # 14977, dated December 27, 2007
Geotechnical Information	JGI Project # J2075344, dated June 29, 2007
Existing Equipment Information	Vertical Bridge Collocation Application Version 1
Tower Reinforcement Information	Delta Oaks Group 15 Ft Tower Extension Drawings Job No. STR25-26041-05, dated 6/3/25.
Antenna Mount Information	Colliers Engineering Mount Analysis Job No. 24777545, dated March 10, 2025.

Final Proposed Equipment Loading for Verizon Wireless

The following proposed loading was obtained from the Vertical Bridge Collocation Application:

Antenna/Equipment					Coax	
Mount (ft)	RAD (ft)	Qty	Antenna	Type	Qty	Size/Type
147	-	1	Platform Mount	Mount	12 2	1.78" Coax 1.78" Hybrid
	147	3	Commscope CBC78T-DS-43-2X	Diplexer		
		2	RFS DB-T1-6Z-8AB-OZ	Junction		
		3	Commscope JAHH-65B-R3B	Panel		
		6	Antel LPA-800804CF	Panel		
		3	Samsung MT6407-77A	Panel		
		3	Samsung B2/B66A RFV01U-D1A)	RRU		
		3	Samsung B5/B13 (RFV01U-D2A)	RRU		
	147	2	Kaelus BSF0020F3V1-1	Filter		

Notes:

1. Proposed equipment shown in bold.
2. Other existing loading can be found on the tower profile attached.
3. All feedlines are assumed to be installed inside monopole shaft.

Design Criteria

The tower was analyzed using tnxTower (Version 8.3.1.2) tower analysis software using the following design criteria.

State	Connecticut
City/County Building Code	2022 Connecticut Building Code (IBC 2021 w/ Amendments)
TIA/EIA Standard Code	TIA-222-H
Basic Wind Speed	120 mph (V_{ult})
Basic Wind Speed w/Ice	50 mph w/ 1.0" Ice
Steel Grade	65 ksi Pole / 35 ksi Pole Extension 50 ksi Base Plate / 60 ksi Top flange 75 ksi Anchor Rod
Exposure Category	C
Topographic Category (height)	1 (0.0 ft.)
Risk Category	II
S_s	0.202
Seismic Design Category	B

Analysis Results

Based on the foregoing information, our structural analysis determined that the existing tower **is structurally capable of supporting the proposed equipment loads without modification**. The existing tower anchor rods, base plate and foundation have also been evaluated and **were found to be structurally capable of supporting the proposed equipment load**. A seismic analysis has been performed on this tower and does not control.

Assumptions

The below assumptions are true, complete, and accurate.

1. The existing tower has been maintained to manufacturer's specifications and is in good condition.
2. Foundations are considered to have been properly designed for the original design loads.
3. All member connections are considered to have been designed to meet the load carrying capacity of the connected member.
4. Antenna mount loads have been estimated based on generally accepted industry standards.
5. The mounts for the proposed antennas have been analyzed and designed by others.
6. See additional assumptions contained in the report attached.
7. Tower is within acceptable engineering tolerance at 105%.
8. Foundations are within acceptable engineering tolerance at 110%.

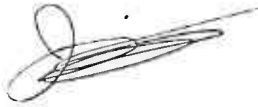
Conclusions

The existing tower described above **has sufficient capacity** to support the proposed loading based on the governing Building Code. The existing tower anchor rods, base plate and foundation have also been evaluated and **are acceptable**. A seismic analysis has been performed on this tower and does not control.

We appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance, please call us anytime at 561-948-6367.

Sincerely,

Analysis by:



Jacob Moss
Design Engineer I

Reviewed by:

Michael T. De Boer, P.E.
Professional Engineer



10/03/2025

Standard Conditions

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

- Information supplied by the client regarding the structure itself, the antenna and transmission line loading on the structure and its components, or relevant information.
- Information from drawings in possession of Vertical Bridge Engineering, LLC, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Vertical Bridge Engineering, LLC and used in the performance of our engineering services is correct and complete. In the absence of information contrary, we consider that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore consider that their capacity has not significantly changed from the original design condition.

All services will be performed to the codes and standards specified by the client, and we do not imply to meet any other code and standard requirements unless explicitly agreed to in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes and standards, the client shall specify the exact requirements. In the absence of information to the contrary, all work will be performed in accordance with the revision of ANSI/TIA/EIA-222-H requested.

All services are performed, results obtained and recommendations made in accordance with the generally accepted engineering principles and practices. Vertical Bridge Engineering LLC and its affiliates are not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Disclaimer of Warranties

The engineering services by Vertical Bridge Engineering, LLC in connection with this Structural Analysis are limited to a computer analysis of the tower structure, size and capacity of its members. Vertical Bridge Engineering, LLC does not analyze the fabrication, including welding, except as may be expressly included in this report.

The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines. Any mention of structural modifications are reasonable estimates and should not be used a precise construction document. Precise modification drawings are obtainable from Vertical Bridge Engineering, LLC but are beyond the scope of this report.

Vertical Bridge Engineering, LLC makes no warranties, express or implied, in connection with this report and disclaims any liability arising from material, fabrication and erection of this tower, or installation and compliance with legal and permitting requirements of the proposed equipment. Vertical Bridge Engineering, LLC will not be responsible whatsoever for or on account of, punitive, special, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of Vertical Bridge Engineering, LLC pursuant to this report will be limited to the total fee received for preparation of this report.

Attachment 1: Calculations

173.0 ft

158.0 ft

131.0 ft

93.2 ft

46.3 ft

1.0 ft

50 ft

37 ft

17 ft

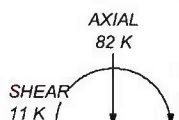
1.0 ft

TYPE	ELEVATION	TYPE	ELEVATION
5-ft lightning rod (Tower)	175.5	SAMSUNG TELECOMMUNICATIONS MT6407-77A (Verizon)	147
SitePro1 VFA12-HD-NNPH (ATT)	165		
SitePro1 VFA12-HD-NNPH (ATT)	165	SAMSUNG TELECOMMUNICATIONS MT6407-77A (Verizon)	147
SitePro1 VFA12-HD-NNPH (ATT)	165		
CCI ANTENNAS OPA65R-BU8D (ATT)	165	SAMSUNG TELECOMMUNICATIONS MT6407-77A (Verizon)	147
CCI ANTENNAS OPA65R-BU8D (ATT)	165		
CCI ANTENNAS OPA65R-BU8D (ATT)	165	Samsung RFV01U-D1A (Verizon)	147
(2) 8' x 2" STD Pipe Mount (ATT)	165	Samsung RFV01U-D1A (Verizon)	147
(4) 8' x 2" STD Pipe Mount (ATT)	165	Samsung RFV01U-D1A (Verizon)	147
(2) 8' x 2" STD Pipe Mount (ATT)	165	Samsung RFV01U-D2A (Verizon)	147
(2) 8' x 2" STD Pipe Mount (ATT)	165	Samsung RFV01U-D2A (Verizon)	147
(4) 8' x 2" STD Pipe Mount (ATT)	165	Samsung RFV01U-D2A (Verizon)	147
(2) 8' x 2" STD Pipe Mount (ATT)	165	Samsung RFV01U-D2A (Verizon)	147
(4) 8' x 2" STD Pipe Mount (ATT)	165	RFS DB-T1-6Z-8AB-0Z (Verizon)	147
CCI ANTENNAS TPA65R-BU6D (ATT)	165	RFS DB-T1-6Z-8AB-0Z (Verizon)	147
CCI ANTENNAS TPA65R-BU6D (ATT)	165	RFS DB-T1-6Z-8AB-0Z (Verizon)	147
CCI ANTENNAS TPA65R-BU6D (ATT)	165	(2) Kaelus BSF0020F3V1-1 (Verizon)	147
CCI ANTENNAS TPA65R-BU6D (ATT)	165	12' Platform w/Rail (Verizon)	147
4890 B25/B66 (ATT)	165	APXVLL19P_43-C-A20 w/8' Mount Pipe (T-Mobile)	137
4890 B25/B66 (ATT)	165		
4890 B25/B66 (ATT)	165	APXVLL19P_43-C-A20 w/8' Mount Pipe (T-Mobile)	137
4490 B5/B12A (ATT)	165		
4490 B5/B12A (ATT)	165	APXVLL19P_43-C-A20 w/8' Mount Pipe (T-Mobile)	137
4490 B5/B12A (ATT)	165		
4494 B14/B29 (ATT)	165	APXVAALL24_43-U-A20 w/8' Mount Pipe (T-Mobile)	137
4494 B14/B29 (ATT)	165		
4494 B14/B29 (ATT)	165	APXVAALL24_43-U-A20 w/8' Mount Pipe (T-Mobile)	137
RAYCAP DC9-48-60-24-8C-EV (ATT)	165		
RAYCAP DC9-48-60-24-8C-EV (ATT)	165	APXVAALL24_43-U-A20 w/8' Mount Pipe (T-Mobile)	137
Collar System (ATT)	165		
(2) 10' x 2" STD Pipe Mount (Verizon)	147	8'x2" Pipe Mount (T-Mobile)	137
(3) 8' x 2" STD Pipe Mount (Verizon)	147	8'x2" Pipe Mount (T-Mobile)	137
10' x 2" STD Pipe Mount (Verizon)	147	8'x2" Pipe Mount (T-Mobile)	137
(4) 8' x 2" STD Pipe Mount (Verizon)	147	AIR 6419 B41 w/8' Mount Pipe (T-Mobile)	137
10' x 2" STD Pipe Mount (Verizon)	147		
(4) 8' x 2" STD Pipe Mount (Verizon)	147	AIR 6419 B41 w/8' Mount Pipe (T-Mobile)	137
10' x 2" STD Pipe Mount (Verizon)	147		
(4) 8' x 2" STD Pipe Mount (Verizon)	147	AIR 6419 B41 w/8' Mount Pipe (T-Mobile)	137
CBC78T-DS-43-2X (Verizon)	147		
CBC78T-DS-43-2X (Verizon)	147	4460 B25/B66 RRU (T-Mobile)	137
CBC78T-DS-43-2X (Verizon)	147	4460 B25/B66 RRU (T-Mobile)	137
COMMSCOPE JAHH-65B-R3B (Verizon)	147	4460 B25/B66 RRU (T-Mobile)	137
COMMSCOPE JAHH-65B-R3B (Verizon)	147	4449 B71/B85 RRU (T-Mobile)	137
COMMSCOPE JAHH-65B-R3B (Verizon)	147	4449 B71/B85 RRU (T-Mobile)	137
COMMSCOPE JAHH-65B-R3B (Verizon)	147	4449 B71/B85 RRU (T-Mobile)	137
(2) ANTEL LPA-80080-4CF (Verizon)	147	12' Triple T-Arms w/V-Brace Reinforcement (T-Mobile)	137
(2) ANTEL LPA-80080-4CF (Verizon)	147		
(2) ANTEL LPA-80080-4CF (Verizon)	147		

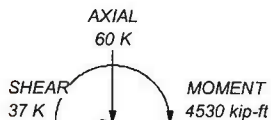
GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	60 ksi	A572-65	65 ksi	80 ksi

ALL REACTIONS
ARE FACTORED

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 79.6%



TORQUE 1 kip-ft
50 mph WIND - 1.0000 in ICE



TORQUE 6 kip-ft
REACTIONS - 120 mph WIND

Dwg No.	E-1
---------	-----

Section	1	2	3	4	5
Length (ft)	15.00	27.00	41.75	52.42	52.67
Number of Sides	1	18	18	18	18
Thickness (in)	0.3750	0.1875	0.3750	0.4375	0.4735
Socket Length (ft)		4.00	5.50	7.33	
Top Dia (in)	18.0000	18.0000	25.5955	36.8008	50.7226
Bot Dia (in)	18.0000	27.3567	39.3646	54.0045	68.0000
Grade		A53-B-35		A572-65	
Weight (K)	1.1	1.2	5.4	11.1	15.9
					34.7

173.0 ft

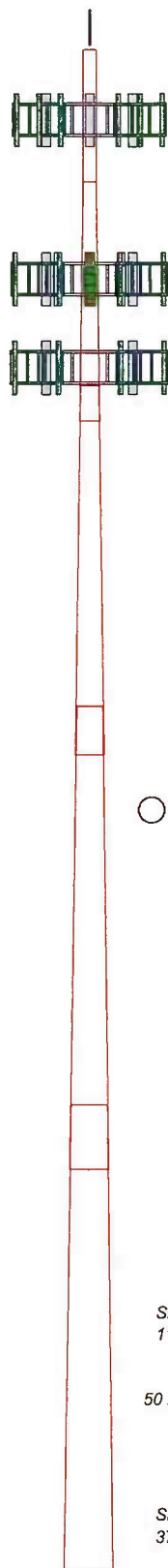
158.0 ft

131.0 ft

93.2 ft

46.3 ft

1.0 ft



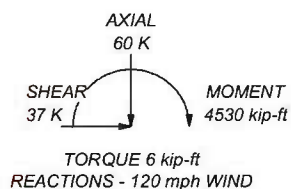
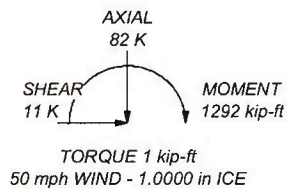
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	60 ksi	A572-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
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4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 79.6%

ALL REACTIONS
ARE FACTORED



Vertical Bridge Engineering, LLC

22 West Altantic Avenue Suite 310

Delray Beach, FL 33444

Phone: (561) 948-6367

FAX:

Job: 173 Ft Monopole (US-CT-5019)

Project: Structural Analysis (P-081044)

Client: Verizon Wireless

Drawn by: JMM

App'd:

Code: TIA-222-H

Date: 09/29/25

Scale: NTS

Path:

Dwg No. E-1

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Section	1	2	3	4	5
Length (ft)	15.00	27.00	41.75	52.42	52.67
Number of Sides	1	18	18	18	18
Thickness (in)	0.3750	0.1875	0.3750	0.4375	0.4735
Socket Length (ft)		4.00	5.50	7.33	
Top Dia (in)	18.0000	18.0000	25.5955	36.8008	50.7226
Bot Dia (in)	18.0000	27.3567	39.3646	54.0045	68.0000
Grade	A53-B-35				
Weight (K)	1.1	1.2	5.4	11.1	15.9

173.0 ft

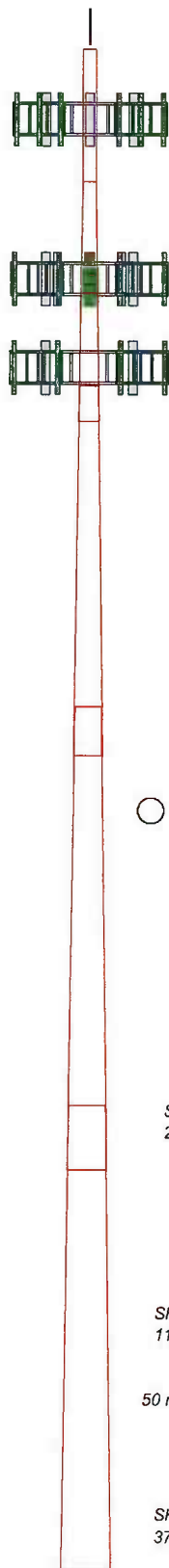
158.0 ft

131.0 ft

93.2 ft

46.3 ft

1.0 ft



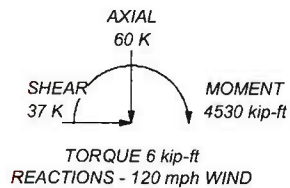
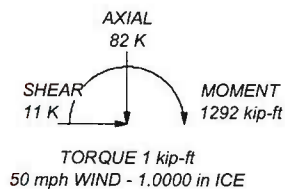
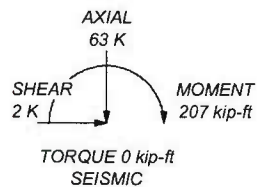
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	60 ksi	A572-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCISeismic Note: Seismic loads generated by CCISeismic 3.38
9. CCISeismic Note: Seismic calculations are in accordance with TIA-222-H
10. TOWER RATING: 79.6%

ALL REACTIONS
ARE FACTORED



Vertical Bridge Engineering, LLC

22 West Atlantic Avenue Suite 310

Delray Beach, FL 33444

Phone: (561) 948-6367

FAX:

Job: **173 Ft Monopole (US-CT-5019)**

Project: **Structural Analysis (P-081044)**

Client: Verizon Wireless

Drawn by: JMM

App'd:

Code: TIA-222-H

Date: 09/29/25

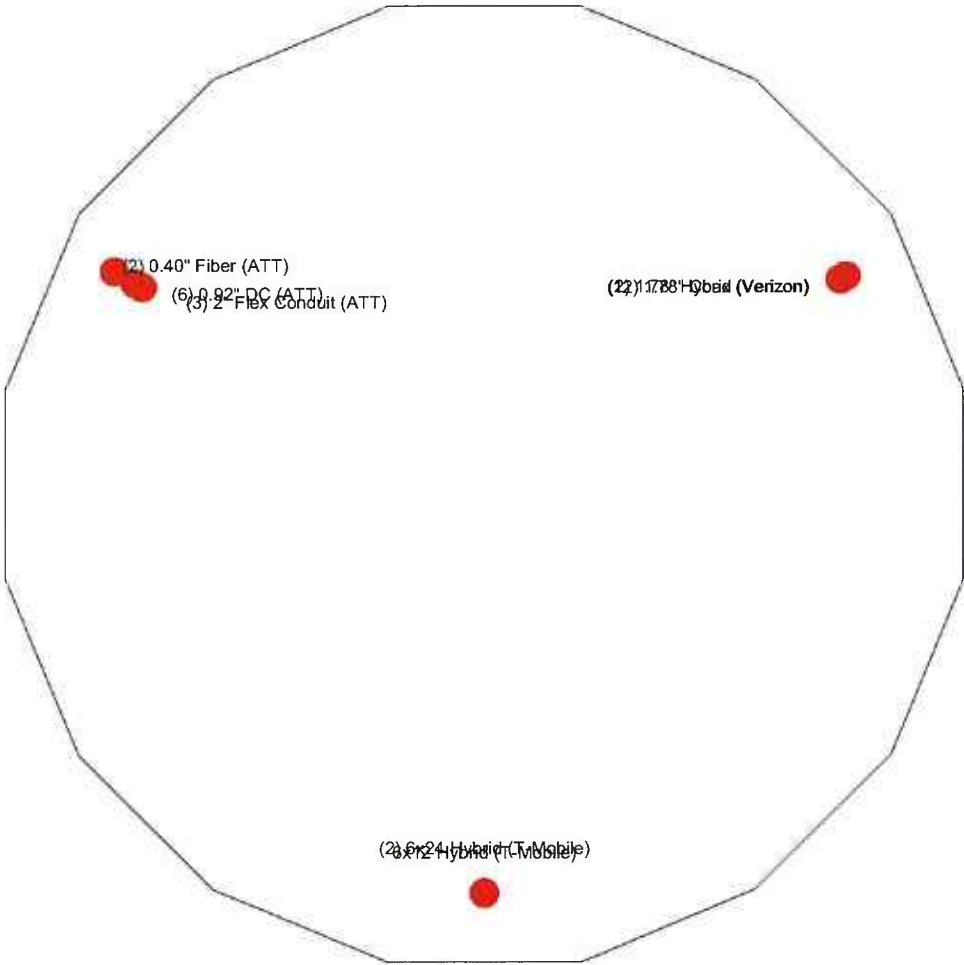
Scale: NTS

Path:

Dwg No. E-1

Feed Line Plan

Round Flat App In Face App Out Face



Vertical Bridge Engineering, LLC		Job: 173 Ft Monopole (US-CT-5019)	
22 West Altantic Avenue Suite 310		Project: Structural Analysis (P-081044)	
Delray Beach, FL 33444		Client: Verizon Wireless	Drawn by: JMM
Phone: (561) 948-6367		Code: TIA-222-H	Date: 09/29/25
FAX:		Path:	Scale: NTS
		Dwg No. E-7	

tnxTower Vertical Bridge Engineering, LLC 22 West Atlantic Avenue Suite 310 Delray Beach, FL 33444 Phone: (561) 948-6367 FAX:	Job	173 Ft Monopole (US-CT-5019)	Page	1 of 17
	Project	Structural Analysis (P-081044)	Date	16:27:27 09/29/25
	Client	Verizon Wireless	Designed by	JMM

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Tower base elevation above sea level: 125.51 ft.

Basic wind speed of 120 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	
L1	173.00-158.00	15.00	0.00	Round	18.0000	18.0000	0.3750		A53-B-35 (35 ksi)

tnxTower Vertical Bridge Engineering, LLC 22 West Atlantic Avenue Suite 310 Delray Beach, FL 33444 Phone: (561) 948-6367 FAX:	Job	173 Ft Monopole (US-CT-5019)	Page	2 of 17
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	Client	Verizon Wireless	Designed by	JMM

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L2	158.00-131.00	27.00	4.00	18	18.0000	27.3567	0.1875	0.7500	A572-65 (65 ksi)
L3	131.00-93.25	41.75	5.50	18	25.5955	39.3646	0.3750	1.5000	A572-65 (65 ksi)
L4	93.25-46.33	52.42	7.33	18	36.8008	54.0045	0.4375	1.7500	A572-65 (65 ksi)
L5	46.33-1.00	52.67		18	50.7226	68.0000	0.4735	1.8940	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	Iu/Q in ²	w in	w/t
L1	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
L2	18.2488	10.6007	424.9328	6.3234	9.1440	46.4712	850.4248	5.3013	2.8380	15.136
	27.7498	16.1691	1507.9107	9.6451	13.8972	108.5047	3017.8055	8.0861	4.4848	23.919
L3	27.2721	30.0187	2412.3334	8.9533	13.0025	185.5281	4827.8411	15.0122	3.8448	10.253
	39.9141	46.4074	8912.9947	13.8413	19.9972	445.7112	17837.7174	23.2081	6.2682	16.715
L4	39.1340	50.4949	8435.4951	12.9090	18.6948	451.2219	16882.0898	25.2523	5.7069	13.044
	54.7701	74.3845	26965.8861	19.0163	27.4343	982.9263	53967.2546	37.1993	8.7348	19.965
L5	53.8749	75.5189	24090.7277	17.8384	25.7671	934.9416	48213.1546	37.7666	8.0938	17.094
	68.9760	101.4848	58463.8075	23.9719	34.5440	1692.4446	117004.543	50.7521	11.1346	23.516

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 173.00-158.00				1	1	1			
L2 158.00-131.00				1	1	1			
L3 131.00-93.25				1	1	1			
L4 93.25-46.33				1	1	1			
L5 46.33-1.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
2" Flex Conduit (ATT)	A	No	No	Inside Pole	165.00 - 4.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00
0.92" DC (ATT)	A	No	No	Inside Pole	165.00 - 4.00	6	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00
0.40" Fiber	A	No	No	Inside Pole	165.00 - 4.00	2	No Ice	0.00

tnxTower Vertical Bridge Engineering, LLC 22 West Atlantic Avenue Suite 310 Delray Beach, FL 33444 Phone: (561) 948-6367 FAX:	Job	173 Ft Monopole (US-CT-5019)	Page	3 of 17
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	Client	Verizon Wireless	Designed by	JMM

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf
(ATT)							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06

1.78" Hybrid (Verizon)	B	No	No	Inside Pole	147.00 - 4.00	2	No Ice	0.00	1.78
							1/2" Ice	0.00	1.78
							1" Ice	0.00	1.78
1.78" Coax (Verizon)	B	No	No	Inside Pole	147.00 - 4.00	12	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04

6x12 Hybrid (T-Mobile)	C	No	No	Inside Pole	137.00 - 4.00	1	No Ice	0.00	1.74
							1/2" Ice	0.00	1.74
							1" Ice	0.00	1.74
6x24 Hybrid (T-Mobile)	C	No	No	Inside Pole	137.00 - 4.00	2	No Ice	0.00	2.22
							1/2" Ice	0.00	2.22
							1" Ice	0.00	2.22

Safety Line 3/8 (Tower)	C	No	No	CaAa (Out Of Face)	173.00 - 11.00	1	No Ice	0.04	0.22
							1/2" Ice	0.14	0.75
							1" Ice	0.24	1.28

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	173.00-158.00	A	0.000	0.000	0.000	0.000	0.05
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.562	0.00
L2	158.00-131.00	A	0.000	0.000	0.000	0.000	0.19
		B	0.000	0.000	0.000	0.000	0.26
		C	0.000	0.000	0.000	1.012	0.04
L3	131.00-93.25	A	0.000	0.000	0.000	0.000	0.27
		B	0.000	0.000	0.000	0.000	0.61
		C	0.000	0.000	0.000	1.416	0.24
L4	93.25-46.33	A	0.000	0.000	0.000	0.000	0.34
		B	0.000	0.000	0.000	0.000	0.75
		C	0.000	0.000	0.000	1.759	0.30
L5	46.33-1.00	A	0.000	0.000	0.000	0.000	0.30
		B	0.000	0.000	0.000	0.000	0.68
		C	0.000	0.000	0.000	1.325	0.27

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	173.00-158.00	A	1.175	0.000	0.000	0.000	0.000	0.05
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	4.087	0.02
L2	158.00-131.00	A	1.158	0.000	0.000	0.000	0.000	0.19

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L3	131.00-93.25	B	1.129	0.000	0.000	0.000	0.000	0.26
		C		0.000	0.000	0.000	7.268	0.08
		A		0.000	0.000	0.000	0.000	0.27
		B		0.000	0.000	0.000	0.000	0.61
L4	93.25-46.33	C	1.076	0.000	0.000	0.000	10.162	0.29
		A		0.000	0.000	0.000	0.000	0.34
		B		0.000	0.000	0.000	0.000	0.75
		C		0.000	0.000	0.000	12.354	0.36
L5	46.33-1.00	A	0.968	0.000	0.000	0.000	0.000	0.30
		B		0.000	0.000	0.000	0.000	0.68
		C		0.000	0.000	0.000	8.932	0.31
		A		0.000	0.000	0.000	0.000	0.31

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	173.00-158.00	-0.4102	0.2368	-0.9935	0.5736
L2	158.00-131.00	-0.2958	0.1708	-1.0207	0.5893
L3	131.00-93.25	-0.2988	0.1725	-1.0864	0.6272
L4	93.25-46.33	-0.3005	0.1735	-1.1081	0.6398
L5	46.33-1.00	-0.2292	0.1323	-0.8371	0.4833

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

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	$C_A A_A$ Front ft ²	$C_A A_A$ Side ft ²	Weight K
Collar System (ATT)	C	Nonc		0.0000	165.00	No Ice	8.00	0.79
						1/2" Ice	9.39	1.19
						1" Ice	10.77	1.58
SitePro1 VFA12-HD-NPNH (ATT)	A	From Face	2.00 0.00 0.00	0.0000	165.00	No Ice	13.20	0.67
						1/2" Ice	19.50	0.81
						1" Ice	25.80	0.96
SitePro1 VFA12-HD-NPNH (ATT)	B	From Face	2.00 0.00 0.00	0.0000	165.00	No Ice	13.20	0.67
						1/2" Ice	19.50	0.81
						1" Ice	25.80	0.96
SitePro1 VFA12-HD-NPNH (ATT)	C	From Face	2.00 0.00 0.00	0.0000	165.00	No Ice	13.20	0.67
						1/2" Ice	19.50	0.81
						1" Ice	25.80	0.96
CCI ANTENNAS OPA65R-BU8D (ATT)	A	From Face	3.00 0.00 0.00	0.0000	165.00	No Ice	18.09	0.08
						1/2" Ice	18.72	0.18
						1" Ice	19.36	0.28
CCI ANTENNAS OPA65R-BU8D	B	From Face	3.00 0.00	0.0000	165.00	No Ice	18.09	0.08
						1/2" Ice	18.72	0.18

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	Project	Structural Analysis (P-081044)	Date	16:27:27 09/29/25
	Client	Verizon Wireless	Designed by	JMM

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
(ATT)			0.00			1" Ice	19.36	9.40	0.28
CCI ANTENNAS	C	From Face	3.00	0.0000	165.00	No Ice	18.09	8.20	0.08
OPA65R-BU8D			0.00			1/2" Ice	18.72	8.79	0.18
(ATT)			0.00			1" Ice	19.36	9.40	0.28
(2) 8' x 2" STD Pipe Mount	A	From Face	3.00	0.0000	165.00	No Ice	1.90	1.90	0.03
(ATT)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(4) 8' x 2" STD Pipe Mount	A	From Face	4.00	0.0000	165.00	No Ice	1.90	1.90	0.03
(ATT)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(2) 8' x 2" STD Pipe Mount	B	From Face	3.00	0.0000	165.00	No Ice	1.90	1.90	0.03
(ATT)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(4) 8' x 2" STD Pipe Mount	B	From Face	4.00	0.0000	165.00	No Ice	1.90	1.90	0.03
(ATT)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(2) 8' x 2" STD Pipe Mount	C	From Face	3.00	0.0000	165.00	No Ice	1.90	1.90	0.03
(ATT)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
(4) 8' x 2" STD Pipe Mount	C	From Face	4.00	0.0000	165.00	No Ice	1.90	1.90	0.03
(ATT)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
CCI ANTENNAS	A	From Face	3.00	0.0000	165.00	No Ice	12.87	5.67	0.07
TPA65R-BU6D			0.00			1/2" Ice	13.37	6.13	0.15
(ATT)			0.00			1" Ice	13.87	6.59	0.23
CCI ANTENNAS	B	From Face	3.00	0.0000	165.00	No Ice	12.87	5.67	0.07
TPA65R-BU6D			0.00			1/2" Ice	13.37	6.13	0.15
(ATT)			0.00			1" Ice	13.87	6.59	0.23
CCI ANTENNAS	C	From Face	3.00	0.0000	165.00	No Ice	12.87	5.67	0.07
TPA65R-BU6D			0.00			1/2" Ice	13.37	6.13	0.15
(ATT)			0.00			1" Ice	13.87	6.59	0.23
4890 B25/B66	A	From Face	3.00	0.0000	165.00	No Ice	2.70	1.25	0.07
(ATT)			0.00			1/2" Ice	2.90	1.40	0.09
			0.00			1" Ice	3.11	1.56	0.11
4890 B25/B66	B	From Face	3.00	0.0000	165.00	No Ice	2.70	1.25	0.07
(ATT)			0.00			1/2" Ice	2.90	1.40	0.09
			0.00			1" Ice	3.11	1.56	0.11
4890 B25/B66	C	From Face	3.00	0.0000	165.00	No Ice	2.70	1.25	0.07
(ATT)			0.00			1/2" Ice	2.90	1.40	0.09
			0.00			1" Ice	3.11	1.56	0.11
4490 B5/B12A	A	From Face	3.00	0.0000	165.00	No Ice	2.70	1.22	0.07
(ATT)			0.00			1/2" Ice	2.90	1.37	0.09
			0.00			1" Ice	3.11	1.53	0.11
4490 B5/B12A	B	From Face	3.00	0.0000	165.00	No Ice	2.70	1.22	0.07
(ATT)			0.00			1/2" Ice	2.90	1.37	0.09
			0.00			1" Ice	3.11	1.53	0.11
4490 B5/B12A	C	From Face	3.00	0.0000	165.00	No Ice	2.70	1.22	0.07
(ATT)			0.00			1/2" Ice	2.90	1.37	0.09
			0.00			1" Ice	3.11	1.53	0.11
4494 B14/B29	A	From Face	3.00	0.0000	165.00	No Ice	2.20	0.84	0.06
(ATT)			0.00			1/2" Ice	2.39	0.96	0.07
			0.00			1" Ice	2.58	1.10	0.09
4494 B14/B29	B	From Face	3.00	0.0000	165.00	No Ice	2.20	0.84	0.06
(ATT)			0.00			1/2" Ice	2.39	0.96	0.07
			0.00			1" Ice	2.58	1.10	0.09
4494 B14/B29	C	From Face	3.00	0.0000	165.00	No Ice	2.20	0.84	0.06
(ATT)			0.00			1/2" Ice	2.39	0.96	0.07

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	Client	Verizon Wireless	Designed by	JMM

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			1" Ice	2.58	1.10	0.09
RAYCAP	C	From Face	2.00	0.0000	165.00	No Ice	2.74	4.78	0.03
DC9-48-60-24-8C-EV			0.00			1/2" Ice	2.96	5.06	0.06
(ATT)			0.00			1" Ice	3.20	5.35	0.10
RAYCAP	B	From Face	2.00	0.0000	165.00	No Ice	2.74	4.78	0.03
DC9-48-60-24-8C-EV			0.00			1/2" Ice	2.96	5.06	0.06
(ATT)			0.00			1" Ice	3.20	5.35	0.10

12' Platform w/Rail	C	None		0.0000	147.00	No Ice	23.50	23.40	1.59
(Verizon)						1/2" Ice	30.70	30.70	1.95
						1" Ice	37.60	37.60	2.31
(2) 10' x 2" STD Pipe Mount	A	From Face	3.50	0.0000	147.00	No Ice	2.38	2.38	0.04
(Verizon)			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
(3) 8' x 2" STD Pipe Mount	A	From Face	3.50	0.0000	147.00	No Ice	1.90	1.90	0.03
(Verizon)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
10' x 2" STD Pipe Mount	B	From Face	3.50	0.0000	147.00	No Ice	2.38	2.38	0.04
(Verizon)			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
(4) 8' x 2" STD Pipe Mount	B	From Face	3.50	0.0000	147.00	No Ice	1.90	1.90	0.03
(Verizon)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
10' x 2" STD Pipe Mount	C	From Face	3.50	0.0000	147.00	No Ice	2.38	2.38	0.04
(Verizon)			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
(4) 8' x 2" STD Pipe Mount	C	From Face	3.50	0.0000	147.00	No Ice	1.90	1.90	0.03
(Verizon)			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
CBC78T-DS-43-2X	A	From Face	3.50	50.0000	147.00	No Ice	0.37	0.51	0.02
(Verizon)			0.00			1/2" Ice	0.45	0.60	0.03
			0.00			1" Ice	0.53	0.70	0.04
CBC78T-DS-43-2X	B	From Face	3.50	50.0000	147.00	No Ice	0.37	0.51	0.02
(Verizon)			0.00			1/2" Ice	0.45	0.60	0.03
			0.00			1" Ice	0.53	0.70	0.04
CBC78T-DS-43-2X	C	From Face	3.50	30.0000	147.00	No Ice	0.37	0.51	0.02
(Verizon)			0.00			1/2" Ice	0.45	0.60	0.03
			0.00			1" Ice	0.53	0.70	0.04
COMMSCOPE	A	From Face	3.50	30.0000	147.00	No Ice	9.11	5.98	0.06
JAHH-65B-R3B			0.00			1/2" Ice	9.58	6.44	0.12
(Verizon)			0.00			1" Ice	10.05	6.91	0.19
COMMSCOPE	B	From Face	3.50	50.0000	147.00	No Ice	9.11	5.98	0.06
JAHH-65B-R3B			0.00			1/2" Ice	9.58	6.44	0.12
(Verizon)			0.00			1" Ice	10.05	6.91	0.19
COMMSCOPE	C	From Face	3.50	30.0000	147.00	No Ice	9.11	5.98	0.06
JAHH-65B-R3B			0.00			1/2" Ice	9.58	6.44	0.12
(Verizon)			0.00			1" Ice	10.05	6.91	0.19
(2) ANTEL LPA-80080-4CF	A	From Face	3.50	30.0000	147.00	No Ice	2.62	5.40	0.01
(Verizon)			0.00			1/2" Ice	2.92	5.73	0.05
			0.00			1" Ice	3.23	6.06	0.08
(2) ANTEL LPA-80080-4CF	B	From Face	3.50	50.0000	147.00	No Ice	2.62	5.40	0.01
(Verizon)			0.00			1/2" Ice	2.92	5.73	0.05
			0.00			1" Ice	3.23	6.06	0.08
(2) ANTEL LPA-80080-4CF	C	From Face	3.50	30.0000	147.00	No Ice	2.62	5.40	0.01
(Verizon)			0.00			1/2" Ice	2.92	5.73	0.05
			0.00			1" Ice	3.23	6.06	0.08
SAMSUNG	A	From Face	3.50	30.0000	147.00	No Ice	4.69	1.84	0.08

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	Client	Verizon Wireless	Designed by	JMM

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	CA _{AA} Front ft ²	CA _{AA} Side ft ²	Weight K
TELECOMMUNICATIONS			0.00			1/2" Ice	4.98	0.11
MT6407-77A			0.00			1" Ice	5.28	0.14
(Verizon)								
SAMSUNG	B	From Face	3.50	50.0000	147.00	No Ice	4.69	0.08
TELECOMMUNICATIONS			0.00			1/2" Ice	4.98	0.11
MT6407-77A			0.00			1" Ice	5.28	0.14
(Verizon)								
SAMSUNG	C	From Face	3.50	30.0000	147.00	No Ice	4.69	0.08
TELECOMMUNICATIONS			0.00			1/2" Ice	4.98	0.11
MT6407-77A			0.00			1" Ice	5.28	0.14
(Verizon)								
Samsung RFV01U-D1A	A	From Face	3.50	30.0000	147.00	No Ice	1.88	0.10
(Verizon)			0.00			1/2" Ice	2.05	0.12
			0.00			1" Ice	2.22	0.14
Samsung RFV01U-D1A	B	From Face	3.50	50.0000	147.00	No Ice	1.88	0.10
(Verizon)			0.00			1/2" Ice	2.05	0.12
			0.00			1" Ice	2.22	0.14
Samsung RFV01U-D1A	C	From Face	3.50	30.0000	147.00	No Ice	1.88	0.10
(Verizon)			0.00			1/2" Ice	2.05	0.12
			0.00			1" Ice	2.22	0.14
Samsung RFV01U-D2A	A	From Face	3.50	30.0000	147.00	No Ice	1.88	0.08
(Verizon)			0.00			1/2" Ice	2.05	0.10
			0.00			1" Ice	2.22	0.12
Samsung RFV01U-D2A	B	From Face	3.50	50.0000	147.00	No Ice	1.88	0.08
(Verizon)			0.00			1/2" Ice	2.05	0.10
			0.00			1" Ice	2.22	0.12
Samsung RFV01U-D2A	C	From Face	3.50	30.0000	147.00	No Ice	1.88	0.08
(Verizon)			0.00			1/2" Ice	2.05	0.10
			0.00			1" Ice	2.22	0.12
RFS DB-T1-6Z-8AB-0Z	A	From Face	3.50	30.0000	147.00	No Ice	4.80	0.04
(Verizon)			0.00			1/2" Ice	5.07	0.08
			0.00			1" Ice	5.35	0.12
RFS DB-T1-6Z-8AB-0Z	B	From Face	3.50	50.0000	147.00	No Ice	4.80	0.04
(Verizon)			0.00			1/2" Ice	5.07	0.08
			0.00			1" Ice	5.35	0.12
RFS DB-T1-6Z-8AB-0Z	C	From Face	3.50	30.0000	147.00	No Ice	4.80	0.04
(Verizon)			0.00			1/2" Ice	5.07	0.08
			0.00			1" Ice	5.35	0.12
(2) Kaelus BSF0020F3V1-1	B	From Face	3.50	30.0000	147.00	No Ice	0.96	0.02
(Verizon)			0.00			1/2" Ice	1.09	0.03
			0.00			1" Ice	1.22	0.04

12' Triple T-Arms w/V-Brace	C	None		0.0000	137.00	No Ice	20.50	1.63
Reinforcement						1/2" Ice	26.00	2.00
(T-Mobile)						1" Ice	31.50	2.36
APXVLL19P_43-C-A20 w/8'	A	From Face	3.00	0.0000	137.00	No Ice	8.73	0.09
Mount Pipe			0.00			1/2" Ice	9.38	0.16
(T-Mobile)			0.00			1" Ice	9.97	0.23
APXVLL19P_43-C-A20 w/8'	B	From Face	3.00	0.0000	137.00	No Ice	8.73	0.09
Mount Pipe			0.00			1/2" Ice	9.38	0.16
(T-Mobile)			0.00			1" Ice	9.97	0.23
APXVLL19P_43-C-A20 w/8'	C	From Face	3.00	0.0000	137.00	No Ice	8.73	0.09
Mount Pipe			0.00			1/2" Ice	9.38	0.16
(T-Mobile)			0.00			1" Ice	9.97	0.23
APXVAALL24_43-U-A20	A	From Face	3.00	0.0000	137.00	No Ice	20.27	0.19
w/8' Mount Pipe			0.00			1/2" Ice	20.91	0.33
(T-Mobile)			0.00			1" Ice	21.57	0.48

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
APXVAALL24_43-U-A20 w/8' Mount Pipe (T-Mobile)	B	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	20.27 20.91 21.57	11.04 12.47 13.57	0.19 0.33 0.48
APXVAALL24_43-U-A20 w/8' Mount Pipe (T-Mobile)	C	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	20.27 20.91 21.57	11.04 12.47 13.57	0.19 0.33 0.48
8'x2" Pipe Mount (T-Mobile)	A	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.05 0.07
8'x2" Pipe Mount (T-Mobile)	B	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.05 0.07
8'x2" Pipe Mount (T-Mobile)	C	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.05 0.07
AIR 6419 B41 w/8' Mount Pipe (T-Mobile)	A	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	7.59 8.43 9.06	4.55 5.61 6.33	0.13 0.19 0.26
AIR 6419 B41 w/8' Mount Pipe (T-Mobile)	B	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	7.59 8.43 9.06	4.55 5.61 6.33	0.13 0.19 0.26
AIR 6419 B41 w/8' Mount Pipe (T-Mobile)	C	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	7.59 8.43 9.06	4.55 5.61 6.33	0.13 0.19 0.26
4460 B25/B66 RRU (T-Mobile)	A	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	2.56 2.76 2.97	1.98 2.16 2.34	0.11 0.13 0.16
4460 B25/B66 RRU (T-Mobile)	B	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	2.56 2.76 2.97	1.98 2.16 2.34	0.11 0.13 0.16
4460 B25/B66 RRU (T-Mobile)	C	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	2.56 2.76 2.97	1.98 2.16 2.34	0.11 0.13 0.16
4449 B71/B85 RRU (T-Mobile)	A	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	1.95 2.13 2.31	1.58 1.74 1.91	0.07 0.09 0.12
4449 B71/B85 RRU (T-Mobile)	B	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	1.95 2.13 2.31	1.58 1.74 1.91	0.07 0.09 0.12
4449 B71/B85 RRU (T-Mobile)	C	From Face	3.00 0.00 0.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice	1.95 2.13 2.31	1.58 1.74 1.91	0.07 0.09 0.12
***** 5-ft lightning rod (Tower)	C	None		0.0000	175.50	No Ice 1/2" Ice 1" Ice	0.38 0.89 1.36	0.38 0.89 1.36	0.01 0.01 0.02

Load Combinations

Comb. No.	Description
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Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	173 - 158	Pole	Max Tension	2	0.00	0.00	-0.00
			Max. Compression	26	-11.78	-0.29	-0.18
			Max. Mx	8	-5.55	-72.92	-0.33

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L2	158 - 131	Pole	Max. My	14	-5.57	-0.03	-72.48
			Max. Vy	8	10.32	-72.92	-0.33
			Max. Vx	2	-10.26	-0.03	72.38
			Max. Torque	16			4.15
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.18	-0.52	0.04
			Max. Mx	8	-14.58	-415.25	-0.25
			Max. My	2	-14.59	-0.22	413.30
			Max. Vy	8	24.38	-415.25	-0.25
			Max. Vx	2	-24.32	-0.22	413.30
L3	131 - 93.25	Pole	Max. Torque	16			6.62
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.08	-0.46	0.00
			Max. Mx	8	-22.18	-1351.38	-0.06
			Max. My	2	-22.18	-0.21	1347.06
			Max. Vy	8	27.37	-1351.38	-0.06
			Max. Vx	2	-27.31	-0.21	1347.06
			Max. Torque	16			6.61
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.04	-0.35	-0.06
L4	93.25 - 46.3333	Pole	Max. Mx	8	-36.64	-2687.33	0.00
			Max. My	2	-36.64	-0.20	2680.09
			Max. Vy	8	31.95	-2687.33	0.00
			Max. Vx	2	-31.89	-0.20	2680.09
			Max. Torque	16			6.54
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.40	-0.23	-0.13
			Max. Mx	8	-60.32	-4515.49	-0.01
			Max. My	2	-60.32	-0.18	4504.92
			Max. Vy	8	37.27	-4515.49	-0.01
L5	46.3333 - 1	Pole	Max. Vx	2	-37.21	-0.18	4504.92
			Max. Torque	16			6.45
			Max. Compression	26	-82.40	-0.23	-0.13
			Max. Mx	8	-60.32	-4515.49	-0.01
			Max. My	2	-60.32	-0.18	4504.92
			Max. Vy	8	37.27	-4515.49	-0.01
			Max. Vx	2	-37.21	-0.18	4504.92
			Max. Torque	16			6.45
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.40	-0.23	-0.13

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	30	82.40	-10.76	-0.00
	Max. H _x	20	60.34	37.24	0.00
	Max. H _z	2	60.34	0.00	37.18
	Max. M _x	2	4504.92	0.00	37.18
	Max. M _z	8	4515.49	-37.24	0.00
	Max. Torsion	16	6.39	18.55	-32.12
	Min. Vert	17	45.25	18.55	-32.12
	Min. H _x	8	60.34	-37.24	0.00
	Min. H _z	14	60.34	0.00	-37.18
	Min. M _x	14	-4504.82	0.00	-37.18
	Min. M _z	20	-4515.14	37.24	0.00
	Min. Torsion	4	-6.39	-18.55	32.12

Tower Mast Reaction Summary

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	50.28	0.00	0.00	-0.04	-0.14	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	60.34	-0.00	-37.18	-4504.92	-0.18	-0.34
0.9 Dead+1.0 Wind 0 deg - No Ice	45.25	-0.00	-37.18	-4465.94	-0.13	-0.34
1.2 Dead+1.0 Wind 30 deg - No Ice	60.34	18.55	-32.12	-3889.22	-2245.51	6.39
0.9 Dead+1.0 Wind 30 deg - No Ice	45.25	18.55	-32.12	-3855.56	-2226.06	6.39
1.2 Dead+1.0 Wind 60 deg - No Ice	60.34	32.15	-18.56	-2248.06	-3893.82	1.11
0.9 Dead+1.0 Wind 60 deg - No Ice	45.25	32.15	-18.56	-2228.60	-3860.09	1.11
1.2 Dead+1.0 Wind 90 deg - No Ice	60.34	37.24	-0.00	0.01	-4515.49	-5.71
0.9 Dead+1.0 Wind 90 deg - No Ice	45.25	37.24	0.00	0.01	-4476.36	-5.71
1.2 Dead+1.0 Wind 120 deg - No Ice	60.34	32.33	18.67	2264.66	-3922.76	-0.71
0.9 Dead+1.0 Wind 120 deg - No Ice	45.25	32.33	18.67	2245.07	-3888.75	-0.71
1.2 Dead+1.0 Wind 150 deg - No Ice	60.34	18.65	32.31	3917.99	-2262.33	5.72
0.9 Dead+1.0 Wind 150 deg - No Ice	45.25	18.65	32.31	3884.09	-2242.69	5.73
1.2 Dead+1.0 Wind 180 deg - No Ice	60.34	-0.00	37.18	4504.82	-0.18	0.34
0.9 Dead+1.0 Wind 180 deg - No Ice	45.25	-0.00	37.18	4465.87	-0.13	0.34
1.2 Dead+1.0 Wind 210 deg - No Ice	60.34	-18.55	32.12	3889.05	2245.27	-6.39
0.9 Dead+1.0 Wind 210 deg - No Ice	45.25	-18.55	32.12	3855.43	2225.89	-6.39
1.2 Dead+1.0 Wind 240 deg - No Ice	60.34	-32.15	18.56	2247.94	3893.48	-1.11
0.9 Dead+1.0 Wind 240 deg - No Ice	45.25	-32.15	18.56	2228.51	3859.84	-1.11
1.2 Dead+1.0 Wind 270 deg - No Ice	60.34	-37.24	-0.00	0.01	4515.14	5.71
0.9 Dead+1.0 Wind 270 deg - No Ice	45.25	-37.24	0.00	0.01	4476.11	5.71
1.2 Dead+1.0 Wind 300 deg - No Ice	60.34	-32.33	-18.67	-2264.75	3922.41	0.71
0.9 Dead+1.0 Wind 300 deg - No Ice	45.25	-32.33	-18.67	-2245.13	3888.50	0.71
1.2 Dead+1.0 Wind 330 deg - No Ice	60.34	-18.65	-32.31	-3918.15	2261.87	-5.72
0.9 Dead+1.0 Wind 330 deg - No Ice	45.25	-18.65	-32.31	-3884.21	2242.35	-5.73
1.2 Dead+1.0 Ice+1.0 Temp	82.40	0.00	0.00	0.13	-0.23	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	82.40	0.00	-10.74	-1286.42	-0.30	-0.44
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	82.40	5.36	-9.29	-1111.77	-642.25	0.91
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	82.40	9.29	-5.37	-642.35	-1113.12	0.21
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	82.40	10.76	0.00	0.14	-1288.99	-0.78
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	82.40	9.33	5.39	645.81	-1118.63	0.24

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Load Combination	Vertical K	Shear _x K	Shear _y K	Overturning Moment, M _x kip-ft	Overturning Moment, M _y kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	82.40	5.38	9.32	1117.54	-645.44	1.44
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	82.40	0.00	10.74	1286.69	-0.30	0.44
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	82.40	-5.36	9.29	1112.03	641.67	-0.91
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	82.40	-9.29	5.37	642.63	1112.53	-0.21
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	82.40	-10.76	0.00	0.14	1288.40	0.78
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	82.40	-9.33	-5.39	-645.54	1118.04	-0.24
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	82.40	-5.38	-9.32	-1117.28	644.84	-1.44
Dead+Wind 0 deg - Service	50.28	0.00	-8.32	-1002.99	-0.15	-0.08
Dead+Wind 30 deg - Service	50.28	4.15	-7.19	-865.90	-500.04	1.45
Dead+Wind 60 deg - Service	50.28	7.19	-4.15	-500.53	-867.01	0.25
Dead+Wind 90 deg - Service	50.28	8.33	-0.00	-0.04	-1005.42	-1.29
Dead+Wind 120 deg - Service	50.28	7.23	4.18	504.17	-873.46	-0.16
Dead+Wind 150 deg - Service	50.28	4.17	7.23	872.26	-503.78	1.30
Dead+Wind 180 deg - Service	50.28	0.00	8.32	1002.90	-0.15	0.08
Dead+Wind 210 deg - Service	50.28	-4.15	7.19	865.81	499.76	-1.45
Dead+Wind 240 deg - Service	50.28	-7.19	4.15	500.44	866.71	-0.25
Dead+Wind 270 deg - Service	50.28	-8.33	-0.00	-0.04	1005.13	1.29
Dead+Wind 300 deg - Service	50.28	-7.23	-4.18	-504.25	873.17	0.16
Dead+Wind 330 deg - Service	50.28	-4.17	-7.23	-872.35	503.48	-1.30

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-50.28	0.00	0.00	50.28	0.00	0.000%
2	0.00	-60.34	-37.18	0.00	60.34	37.18	0.000%
3	0.00	-45.25	-37.18	0.00	45.25	37.18	0.000%
4	18.55	-60.34	-32.12	-18.55	60.34	32.12	0.000%
5	18.55	-45.25	-32.12	-18.55	45.25	32.12	0.000%
6	32.15	-60.34	-18.56	-32.15	60.34	18.56	0.000%
7	32.15	-45.25	-18.56	-32.15	45.25	18.56	0.000%
8	37.24	-60.34	0.00	-37.24	60.34	0.00	0.000%
9	37.24	-45.25	0.00	-37.24	45.25	0.00	0.000%
10	32.33	-60.34	18.67	-32.33	60.34	-18.67	0.000%
11	32.33	-45.25	18.67	-32.33	45.25	-18.67	0.000%
12	18.65	-60.34	32.31	-18.65	60.34	-32.31	0.000%
13	18.65	-45.25	32.31	-18.65	45.25	-32.31	0.000%
14	0.00	-60.34	37.18	0.00	60.34	-37.18	0.000%
15	0.00	-45.25	37.18	0.00	45.25	-37.18	0.000%
16	-18.55	-60.34	32.12	18.55	60.34	-32.12	0.000%
17	-18.55	-45.25	32.12	18.55	45.25	-32.12	0.000%
18	-32.15	-60.34	18.56	32.15	60.34	-18.56	0.000%
19	-32.15	-45.25	18.56	32.15	45.25	-18.56	0.000%
20	-37.24	-60.34	0.00	37.24	60.34	0.00	0.000%
21	-37.24	-45.25	0.00	37.24	45.25	0.00	0.000%
22	-32.33	-60.34	-18.67	32.33	60.34	18.67	0.000%
23	-32.33	-45.25	-18.67	32.33	45.25	18.67	0.000%
24	-18.65	-60.34	-32.31	18.65	60.34	32.31	0.000%
25	-18.65	-45.25	-32.31	18.65	45.25	32.31	0.000%
26	0.00	-82.40	0.00	0.00	82.40	0.00	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
27	0.00	-82.40	-10.74	-0.00	82.40	10.74	0.000%
28	5.36	-82.40	-9.29	-5.36	82.40	9.29	0.000%
29	9.29	-82.40	-5.37	-9.29	82.40	5.37	0.000%
30	10.76	-82.40	0.00	-10.76	82.40	-0.00	0.000%
31	9.33	-82.40	5.39	-9.33	82.40	-5.39	0.000%
32	5.38	-82.40	9.32	-5.38	82.40	-9.32	0.000%
33	0.00	-82.40	10.74	-0.00	82.40	-10.74	0.000%
34	-5.36	-82.40	9.29	5.36	82.40	-9.29	0.000%
35	-9.29	-82.40	5.37	9.29	82.40	-5.37	0.000%
36	-10.76	-82.40	0.00	10.76	82.40	-0.00	0.000%
37	-9.33	-82.40	-5.39	9.33	82.40	5.39	0.000%
38	-5.38	-82.40	-9.32	5.38	82.40	9.32	0.000%
39	0.00	-50.28	-8.32	0.00	50.28	8.32	0.000%
40	4.15	-50.28	-7.19	-4.15	50.28	7.19	0.000%
41	7.19	-50.28	-4.15	-7.19	50.28	4.15	0.000%
42	8.33	-50.28	0.00	-8.33	50.28	0.00	0.000%
43	7.23	-50.28	4.18	-7.23	50.28	-4.18	0.000%
44	4.17	-50.28	7.23	-4.17	50.28	-7.23	0.000%
45	0.00	-50.28	8.32	0.00	50.28	-8.32	0.000%
46	-4.15	-50.28	7.19	4.15	50.28	-7.19	0.000%
47	-7.19	-50.28	4.15	7.19	50.28	-4.15	0.000%
48	-8.33	-50.28	0.00	8.33	50.28	0.00	0.000%
49	-7.23	-50.28	-4.18	7.23	50.28	4.18	0.000%
50	-4.17	-50.28	-7.23	4.17	50.28	7.23	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00055743
3	Yes	4	0.00000001	0.00030991
4	Yes	6	0.00000001	0.00007242
5	Yes	5	0.00000001	0.00071787
6	Yes	6	0.00000001	0.00005661
7	Yes	5	0.00000001	0.00055352
8	Yes	5	0.00000001	0.00035124
9	Yes	5	0.00000001	0.00016000
10	Yes	6	0.00000001	0.00005807
11	Yes	5	0.00000001	0.00056769
12	Yes	6	0.00000001	0.00005175
13	Yes	5	0.00000001	0.00050435
14	Yes	4	0.00000001	0.00055740
15	Yes	4	0.00000001	0.00030990
16	Yes	6	0.00000001	0.00004988
17	Yes	5	0.00000001	0.00048741
18	Yes	6	0.00000001	0.00006062
19	Yes	5	0.00000001	0.00059492
20	Yes	5	0.00000001	0.00035118
21	Yes	5	0.00000001	0.00015999
22	Yes	6	0.00000001	0.00006056
23	Yes	5	0.00000001	0.00059342
24	Yes	6	0.00000001	0.00006995
25	Yes	5	0.00000001	0.00069134
26	Yes	4	0.00000001	0.00000001
27	Yes	5	0.00000001	0.00021693

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28	Yes	5	0.00000001	0.00041052
29	Yes	5	0.00000001	0.00036574
30	Yes	5	0.00000001	0.00023538
31	Yes	5	0.00000001	0.00037351
32	Yes	5	0.00000001	0.00036250
33	Yes	5	0.00000001	0.00021698
34	Yes	5	0.00000001	0.00035680
35	Yes	5	0.00000001	0.00037411
36	Yes	5	0.00000001	0.00023472
37	Yes	5	0.00000001	0.00037358
38	Yes	5	0.00000001	0.00040681
39	Yes	4	0.00000001	0.00004218
40	Yes	4	0.00000001	0.00090101
41	Yes	4	0.00000001	0.00043922
42	Yes	4	0.00000001	0.00047825
43	Yes	4	0.00000001	0.00046345
44	Yes	4	0.00000001	0.00048265
45	Yes	4	0.00000001	0.00004216
46	Yes	4	0.00000001	0.00053940
47	Yes	4	0.00000001	0.00052943
48	Yes	4	0.00000001	0.00047763
49	Yes	4	0.00000001	0.00051982
50	Yes	4	0.00000001	0.00080971

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	173 - 158	23.190	43	1.4567	0.0210
L2	158 - 131	18.625	43	1.4357	0.0180
L3	135 - 93.25	12.535	43	1.0592	0.0067
L4	98.75 - 46.3333	6.004	43	0.6487	0.0023
L5	53.6667 - 1	1.589	43	0.2853	0.0007

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
175.50	5-ft lightning rod	43	23.190	1.4567	0.0210	17040
165.00	Collar System	43	20.725	1.4646	0.0199	10650
147.00	12' Platform w/Rail	43	15.534	1.2835	0.0128	4467
137.00	12' Triple T-Arms w/V-Brace Reinforcement	43	13.004	1.0952	0.0075	3761

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	173 - 158	104.082	10	6.5498	0.0932
L2	158 - 131	83.632	10	6.4558	0.0799
L3	135 - 93.25	56.318	10	4.7642	0.0295
L4	98.75 - 46.3333	26.985	10	2.9175	0.0101
L5	53.6667 - 1	7.139	10	1.2825	0.0030

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
175.50	5-ft lightning rod	10	104.082	6.5498	0.0932	3901
165.00	Collar System	10	93.041	6.5858	0.0881	2437
147.00	12' Platform w/Rail	10	69.773	5.7722	0.0567	1016
137.00	12' Triple T-Arms w/V-Brace Reinforcement	10	58.423	4.9258	0.0334	851

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	173 - 158 (1)	TP18x18x0.375	15.00	0.00	0.0	20.7640	-5.55	654.07	0.008
L2	158 - 131 (2)	TP27.3567x18x0.1875	27.00	0.00	0.0	15.3441	-14.56	897.63	0.016
L3	131 - 93.25 (3)	TP39.3647x25.5955x0.375	41.75	0.00	0.0	44.2484	-22.17	2588.53	0.009
L4	93.25 - 46.3333 (4)	TP54.0045x36.8008x0.4375	52.42	0.00	0.0	71.0422	-36.64	4155.97	0.009
L5	46.3333 - 1 (5)	TP68x50.7226x0.4735	52.67	0.00	0.0	101.485 0	-60.32	5936.86	0.010

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	173 - 158 (1)	TP18x18x0.375	72.93	305.83	0.238	0.00	305.83	0.000
L2	158 - 131 (2)	TP27.3567x18x0.1875	416.83	540.39	0.771	0.00	540.39	0.000
L3	131 - 93.25 (3)	TP39.3647x25.5955x0.375	1356.38	2481.94	0.546	0.00	2481.94	0.000
L4	93.25 - 46.3333 (4)	TP54.0045x36.8008x0.4375	2696.54	5244.46	0.514	0.00	5244.46	0.000
L5	46.3333 - 1 (5)	TP68x50.7226x0.4735	4529.54	9229.00	0.491	0.00	9229.00	0.000

tnxTower

**Vertical Bridge Engineering,
LLC**

22 West Atlantic Avenue Suite 310

Delray Beach, FL 33444

Phone: Phone: (561) 948-6367

FAX: _____

Job	Rate	Time	Cost
1	10	10	100
2	10	10	100
3	10	10	100
4	10	10	100
5	10	10	100
6	10	10	100
7	10	10	100
8	10	10	100
9	10	10	100
10	10	10	100
11	10	10	100
12	10	10	100
13	10	10	100
14	10	10	100
15	10	10	100
16	10	10	100
17	10	10	100
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19	10	10	100
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26	10	10	100
27	10	10	100
28	10	10	100
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89	10	10	100
90	10	10	100
91	10	10	100
92	10	10	100
93	10	10	100
94	10	10	100
95	10	10	100
96	10	10	100
97	10	10	100
98	10	10	100
99	10	10	100
100	10	10	100

173 Ft Monopole (US-CT-5019)

Project

Structural Analysis (P-081044)

Client

Verizon Wireless

Page

16 of 17

Date _____

16:27:27 09/29/25

Designed by

JMM

Pole Shear Design Data

Section No.	Elevation	Size	Actual V_u	ϕV_n	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u	ϕT_n	Ratio $\frac{T_u}{\phi T_n}$
	ft		K	K		kip-ft	kip-ft	
L1	173 - 158 (1)	TP18x18x0.375	10.32	196.22	0.053	3.21	304.05	0.011
L2	158 - 131 (2)	TP27.3567x18x0.1875	24.48	269.29	0.091	1.04	608.04	0.002
L3	131 - 93.25 (3)	TP39.3647x25.5955x0.375	27.47	776.56	0.035	0.96	2528.22	0.000
L4	93.25 - 46.3333 (4)	TP54.0045x36.8008x0.4375	32.05	1246.79	0.026	0.84	5586.06	0.000
L5	46.3333 - 1 (5)	TP68x50.7226x0.4735	37.36	1781.06	0.021	0.71	10532.50	0.000

Pole Interaction Design Data

Section No.	Elevation	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	173 - 158 (1)	0.008	0.238	0.000	0.053	0.011	0.251	1.000	✓
L2	158 - 131 (2)	0.016	0.771	0.000	0.091	0.002	0.796	1.000	✓
L3	131 - 93.25 (3)	0.009	0.546	0.000	0.035	0.000	0.556	1.000	✓
L4	93.25 - 46.3333 (4)	0.009	0.514	0.000	0.026	0.000	0.524	1.000	✓
L5	46.3333 - 1 (5)	0.010	0.491	0.000	0.021	0.000	0.501	1.000	✓

Section Capacity Table

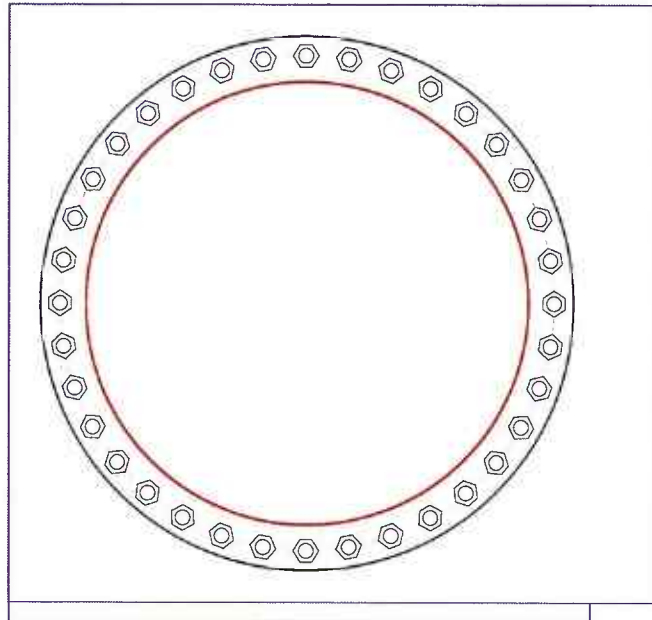
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	173 - 158	Pole	TP18x18x0.375	1	-5.55	654.07	25.1	Pass
L2	158 - 131	Pole	TP27.3567x18x0.1875	2	-14.56	897.63	79.6	Pass
L3	131 - 93.25	Pole	TP39.3647x25.5955x0.375	3	-22.17	2588.53	55.6	Pass
L4	93.25 - 46.3333	Pole	TP54.0045x36.8008x0.4375	4	-36.64	4155.97	52.4	Pass
L5	46.3333 - 1	Pole	TP68x50.7226x0.4735	5	-60.32	5936.86	50.1	Pass
							Summary	
							Pole (L2)	Pass
							RATING = 79.6	Pass

Monopole Base Plate Connection

Site Info	
BU #	US-CT-5019
Site Name	
Order #	

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
I_{ar} (in)	2.25

Applied Loads	
Moment (kip-ft)	4530.40
Axial Force (kips)	60.32
Shear Force (kips)	37.37



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary <i>(units of kips, kip-in)</i>	
(36) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 76" BC		$Pu_t = 77.78$	$\phi Pn_t = 243.75$ Stress Rating
Base Plate Data		$Vu = 1.04$	$\phi Vn = 149.1$ 31.9%
82" OD x 3" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)		$Mu = n/a$	$\phi Mn = n/a$ Pass
Stiffener Data		Base Plate Summary	
N/A		Max Stress (ksi):	14.83 (Flexural)
Pole Data		Allowable Stress (ksi):	45
68.000001" x 0.4735" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)		Stress Rating:	33.0% Pass

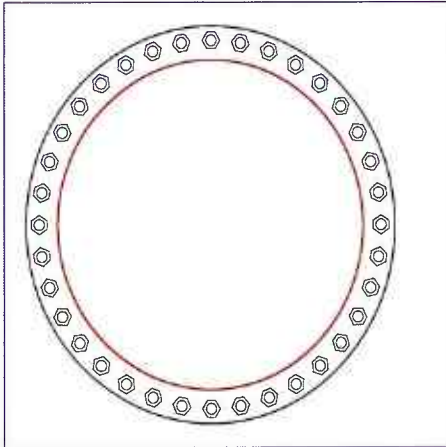
Monopole Flange Plate Connection

Elevation = 157 ft.

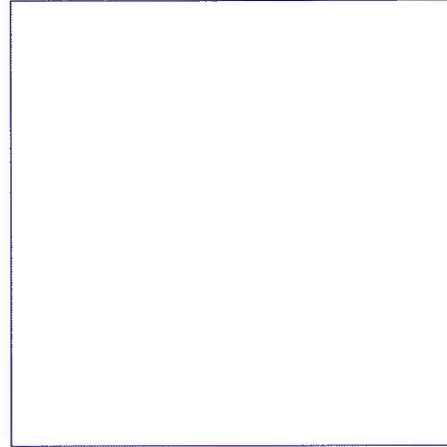
BU #	US-CT-5019
Site Name	
Order #	
TIA-222 Revision	H

Applied Loads	
Moment (kip-ft)	73.14
Axial Force (kips)	5.55
Shear Force (kips)	10.35

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(24) 1" $\emptyset$ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 25.75" BC

Top Plate Data

28.5" OD x 1" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Top Stiffener Data

N/A

Top Pole Data

18" x 0.375" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)

Bottom Plate Data

28.5" OD x 1" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

18" x 0.1875" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	5.45
Allowable (kips)	54.54
Stress Rating:	10.0% Pass

Top Plate Capacity

Max Stress (ksi):	18.97	(Flexural)
Allowable Stress (ksi):	54.00	
Stress Rating:	35.1%	Pass
Tension Side Stress Rating:	29.8%	Pass

Bottom Plate Capacity

Max Stress (ksi):	18.97	(Flexural)
Allowable Stress (ksi):	54.00	
Stress Rating:	35.1%	Pass
Tension Side Stress Rating:	29.8%	Pass

Drilled Pier Foundation

BU # : US-CT-5019

Site Name:

Order Number:

TIA-222 Revision: H

Tower Type: Monopole

Check Limitation

Apply TIA-222-H Section 15.5:

N/A

Additional Longitudinal Rebar

Input Effective Depths (else Actual):

Shear Design Options

Check Shear along Depth of Pier:

Utilize Shear-Friction Methodology:

Override Critical Depth:

Go to Soil Calculations

Analysis Results

Soil Lateral Check

Compression

Uplift

Soil Vertical Check

Compression

Uplift

Reinforced Concrete Flexure

Compression

Uplift

Reinforced Concrete Shear

Compression

Uplift

Structural Foundation Rating

56.2%

Soil Interaction Rating

23.6%

Rebar & Pier Options

Unbonded Pier Inputs

Bonded Pier Inputs

Soil Profile

Groundwater Depth

15

of Layers

4

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3.5	3.5	120	150	0	30	0.000	0.000	0.00	0.00			Cohesionless
2	3.5	15	11.5	120	150	0	37	1.209	1.209				35	Cohesionless
3	15	30	15	58	87.6	0	31	1.665	1.665				13	Cohesionless
4	30	47	17	58	87.6	0	29	1.257	1.257			12	9	Cohesionless

BU: US-CT-5019
WO:
Order:

Structure: A
Rev: H

Location				
	Decimal Degrees	Deg	Min	Sec
Lat:		+		
Long:		-		

Code and Site Parameters	
Seismic Design Code:	TIA-222-H
Site Soil:	D (Default) Default
Risk Category:	II
<u>USGS Seismic Reference</u>	
S_S :	0.2020 g
S_1 :	0.0540 g
T_L :	6 s

Seismic Design Category Determination	
Importance Factor, I_e :	1
Acceleration-based site coefficient, F_a :	1.6000
Velocity-based site coefficient, F_v :	2.4000
Design spectral response acceleration short period, S_{DS} :	0.2155 g
Design spectral response acceleration 1 s period, S_{D1} :	0.0864 g
Seismic Design Category Based on S_{DS} :	B
Seismic Design Category Based on S_{D1} :	B
Seismic Design Category Based on S_1 :	N/A
Controlling Seismic Design Category:	B

BU: US-CT-5019
 WO:
 Order:

Structure: A
 Rev: H

Tower Details		
Tower Type:	Tapered Monopole	
Height, h:	172	ft
Effective Seismic Weight, W:	50.28	kips
Amplification Factor, A _s :	1.0	2.7.8.1
Seismic Base Shear		
Response Modification Factor, R:	1.5	
Discrete Appurtenance Weight in Top 1/3 of Structure, W _u :	11.25618	kips
W _L :	39.02439442	kips
E:	29000.0	ksi
g:	386.088	in/s ²
Average Moment of Inertia, I _{avg} :	17008.03297	in ⁴
F _a :	0.283576082	hz
Approximate Fundamental Period Monopole, T _a :	3.5264	s
		2.7.7.1.3.3
Seismic Response Coefficient, C _s :	0.1436	2.7.7.1.1
Seismic Response Coefficient Max 1, C _{smax} :	0.0163	2.7.7.1.1
Seismic Response Coefficient Max 2, C _{smax} :	N/A	2.7.7.1.1
Seismic Response Coefficient Min 1, C _{smin} :	0.0300	2.7.7.1.1
Seismic Response Coefficient Min 2, C _{smin} :	N/A	2.7.7.1.1
Controlling Seismic Response Coefficient, C _{sc} :	0.0300	
Seismic Base Shear, V:	1.578	kips
		2.7.7.1.1
Vertical Distribution Factors		
Period Related Exponent, k:	2.000	2.7.7.1.2
Sum of w _i h _i ^k :	480363.98	2.7.7.1.2



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

Latitude: 41.449453
Longitude: -72.904683
Elevation: 124.51744227852127 ft
(NAVD 88)



Results:

Wind Speed	119 Vmph	120 Vmph per Jurisdiction Requirements
10-year MRI	75 Vmph	
25-year MRI	84 Vmph	
50-year MRI	90 Vmph	
100-year MRI	98 Vmph	

Date Accessed: Mon Sep 29 2025

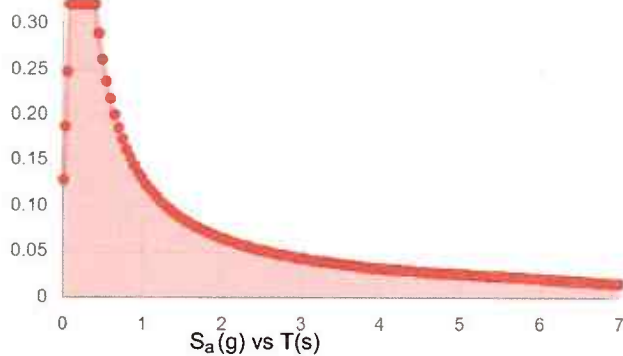
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

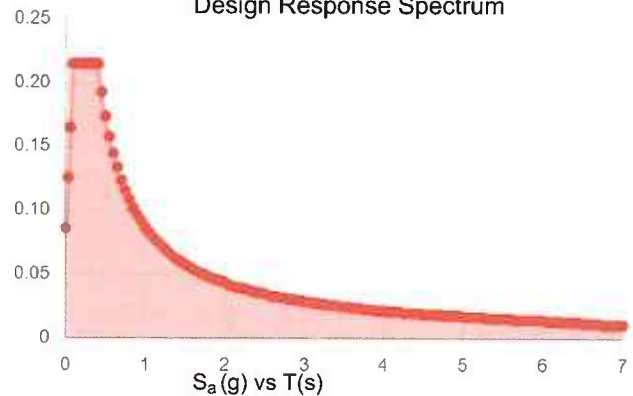
Results:

S_s :	0.201	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.176
S_{MS} :	0.322	F_{PGA} :	1.576
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.215	C_v :	0.702

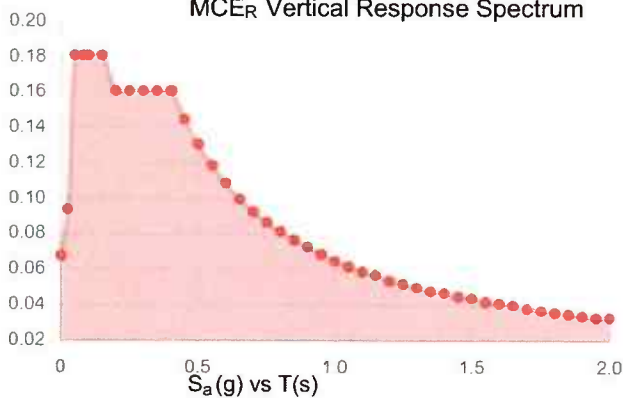
Seismic Design Category: B
MCE_R Response Spectrum



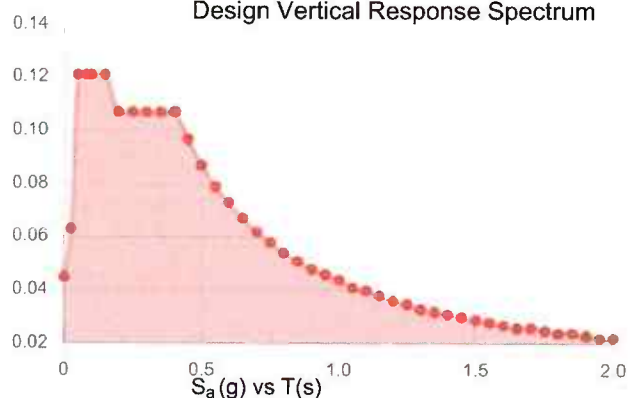
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Mon Sep 29 2025

Date Source:

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

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Mon Sep 29 2025

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

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

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

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Attachment 2: Collocation Application

**COLOCATION APPLICATION - P-081044****SITE NUMBER: US-CT-5019****Version: 1****Tenant Legal Name:** Cellco Partnership d/b/a
Verizon Wireless**Vertical Bridge REIT, LLC.**22 West Atlantic Avenue, Suite 310
Delray Beach, FL 33444**SUMMARY**

PRIMARY INFO		VERTICAL BRIDGE SITE INFO	
Application #:	P-081044	VB Site #:	US-CT-5019
Application Version:	1 (Submitted: 08/29/2025 15:33:00)	VB Site Name:	CT54XC773
Application Type:	Broadband	Latitude:	41.44945277
Application Name:	HAMDEN NORTH 2 CT	Longitude:	-72.90468333
Lease Type:	Amendment	Structure Type:	Monopole
ASR Number:	Not required for Broadband Applications	Structure Height:	160
Description:	SOW - Filter add for Eversource Interference. Adding TWO RF Filters to the Gamma Sector Only - total (2) Kaelus BSF0020F3V1-1	Site Address:	150 Willow Street - HAMDEN, CT 6401

VERTICAL BRIDGE DEAL TEAM

RLM: Mason Minnich Mason.Minnich@verticalbridge.com 561.348.5235	LPM: Alison Skipper Alison.Skipper@verticalbridge.com 678.602.2085	ROM: Braden Hill Braden.Hill@verticalbridge.com 754.223.6326
---	---	---

TENANT LEGAL INFO

Tenant Legal Name:	Cellco Partnership d/b/a Verizon Wireless	Name:	MA Richard
State of Registration:	DE	Address:	750 West Center St West Bridgewater, MA 02379
Type of Entity:	general partnership	Phone Number:	(781) 710-3811
Carrier NOC #:	(866) 862-4404	Email Address:	grichard@clinellc.com
Tenant Site #:	MDG Location ID : 5000382446		
Tenant Site Name:	HAMDEN NORTH 2 CT		

APPLICANT**FINAL LEASED RIGHTS CONFIGURATION TOTALS**

This is a summary of your remaining existing equipment plus the new equipment.

FINAL EQUIPMENT			FINAL FEED LINES	
QTY	Equipment Location	Equipment Type	QTY	Line Type
2	TOWER	Filter	12	Coax
2	TOWER	Junction Box	2	Hybrid
3	TOWER	Diplexer		
6	TOWER	RRU		
12	TOWER	Panel		



COLOCATION APPLICATION - P-081044

SITE NUMBER: US-CT-5019

Version: 1

Tenant Legal Name: Cellco Partnership d/b/a
Verizon Wireless

Vertical Bridge REIT, LLC.

22 West Atlantic Avenue, Suite 310

Delray Beach, FL 33444

FREQUENCY & TECHNOLOGY INFO

Type of Technology: Broadband Wireless

Is TX Frequency Licensed: Yes TX Frequency: N/A

Is RX Frequency Licensed: Yes RX Frequency: N/A

CBand frequency being used?:

MOUNT & STRUCTURAL ANALYSIS

MOUNT ANALYSIS

Provided by Tenant: Yes

To Be Run by VB:

Include Mount Mapping:

STRUCTURAL HARD COPIES

Required: No

Number of Hard Copies:

CONTACTS

INVOICE CONTACT

Attention To	Name	Address	Phone Number 1	Phone Number 2	Email 1	Email 2
Verizon Wireless	Greg Richard	750 West Center Street West Bridgewater, Massachusetts 02379	(178) 171-0381		grichard@clinellc.com	

PO CONTACT

Name	Phone	Email
Greg Richard	(781) 710-3811	grichard@clinellc.com

TENANT CONTACT

Name	Phone	Email
Greg Richard	(781) 710-3811	grichard@clinellc.com

GROUND EQUIPMENT

Any Changes Required: Yes

Primary Lease Space Area (sq ft): ft²

EQUIPMENT

Equipment Type	Equipment Base	Generator Type	Dimensions (LxW)	Make	Owner	Size	Within PLSA	Comments
----------------	----------------	----------------	------------------	------	-------	------	-------------	----------

**COLOCATION APPLICATION - P-081044****SITE NUMBER: US-CT-5019****Version: 1****Tenant Legal Name:** Cellco Partnership d/b/a
Verizon Wireless**Vertical Bridge REIT, LLC.**

22 West Atlantic Avenue, Suite 310

Delray Beach, FL 33444

TOWER EQUIPMENT

Any Changes Required: Yes**RAD CENTER 1** (Mount RAD Height: 147.00)**Mount 1:** Platform

EQUIPMENT

QTY	Equipment Type	Equipment RAD H (ft)	Manufacturer	Model	Height (in)	Width (in)	Depth (in)	Weight (lbs)	Azimuth	Status
3	Diplexer	147.00	Commscope	CBC78T- DS- 43- 2X	6.40	6.90	9.60	21.00		Existing
2	Filter	147.00	Kaelus	BSF0020F3V1- 1	10.60	10.90	3.15	17.60	270	Proposed
2	Junction Box	147.00	RFS	DB- T1- 6Z- 8AB- OZ	24.00	24.00	10.00	44.00	0	Existing
3	Panel	147.00	Commscope	JAHH- 65B- R3B	72.00	13.80	8.20	63.30		Existing
6	Panel	147.00	Antel	LPA- 80 0804CF	47.20	13.20	5.50	12.00		Existing
3	Panel	147.00	Samsung	MT6407- 77A	35.12	16.06	5.51	87.10		Existing
3	RRU	147.00	Samsung	B2/B66A RRH- BR049 (RFV01U- D1A)	14.90	14.90	10.03	84.40		Existing
3	RRU	147.00	Samsung	B5/B13 RRH- BR04C (RFV01U- D2A)	14.90	14.90	8.10	70.30		Existing

FEED LINES

QTY	Line Type	Line Size	Line Location	Status	
12	Coax	1.78	Interior	Existing	
2	Hybrid	1.78	Interior	Existing	

UTILITIES

Any Changes Required: Yes

AC POWER REQUIREMENTS

Meter Type	Additional Details
Existing Tenant Meter	



Engineering
& Design

Colliers Engineering & Design, Architecture,
Landscape Architecture, Surveying, CT P.C.
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
sean.osullivan@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10269440
Colliers Engineering & Design Project #: 24777545

March 10, 2025

Site Information

Site ID: 5000382446-VZW / HAMDEN NORTH 2 CT
Site Name: HAMDEN NORTH 2 CT
Carrier Name: Verizon Wireless
Address: 150 Willow Street
Hamden, Connecticut 06511
New Haven County
Latitude: 41.449392°
Longitude: -72.904572°

Structure Information

Tower Type: 170-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 17390742

Analysis Results

Platform: 55.2% Pass*

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

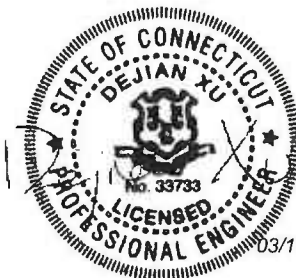
***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

**For additional questions and support, please reach out to:
pmisupport@colliersengineering.com**

Report Prepared By: Madison Shell



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: 674925, dated November 06, 2024
Previous Mount Analysis Report	Colliers Engineering & Design, Project #: 21781085A (Rev 1), dated August 10, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 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 : 0.995
Seismic Parameters:	S_s : 0.202 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V22)

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
145.00	147.00	2	KAelus	BSF0020F3V1-1	Added
		6	Commscope	JAHH-65B-R3B	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049 (RFV01U-D1A)	
		3	Samsung	B5/B13 RRH-BR04C (RFV01U-D2A)	
		6	Amphenol Antel	LPA-80080-4CF-EDIN-6	
		3	Commscope	CBC78T-DS-43	
		2	Raycap	RRFDC-3315-PF-48	

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 Colliers Engineering & Design 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 Colliers Engineering & Design 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 in accordance with the NSTD-446 Standard, 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. Colliers Engineering & Design 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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Antenna Pipe	45.3%	Pass
Grating Angle	12.2%	Pass
Bottom Corner Plate	19.8%	Pass
Cross brace	17.5%	Pass
Cross Brace Plate	40.4%	Pass
Standoff Arm	37.1%	Pass
Handrail Corner	35.0%	Pass
Support Rail	28.5%	Pass
Face Horizontal	13.0%	Pass
Mount Connection	55.2%	Pass

Structure Rating – (Controlling Utilization of all Components)	55.2%
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Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector A Standoff	145.0	N117 A	2215	2469	5.863	0.988	2800	746	5.005	0.272
Sector B Standoff	145.0	N121	2190	2359	5.787	1.011	2832	716	5.124	0.276
Sector C Standoff	145.0	N119	2083	2113	5.026	0.816	2477	645	4.652	0.232

Notes:

- Axial loads act along the axis of the tower
- Lateral reactions act perpendicular to the tower
- Moment loads introduce bending moment to the tower
- Torsion loads introduce twisting moment to the tower
- Batch solutions by individual load cases are included at the end of this document

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	23.5	23.4	40.6	40.5
0.5	30.7	30.7	55.1	54.9
1	37.6	37.6	69.2	69.0

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sectors.
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount is **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

Contractor shall verify Project #: 21781085A (Rev. 1) by Colliers Engineering and Design, dated 8/10/2021 has been installed prior to installation of equipment. **Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications.**

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

Attachments:

1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
2. Antenna Placement Diagrams
3. Mount Photos
4. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000382446

SMART Project #: 10269440

Fuze Project ID: 17390742

Purpose – to provide SMART Tool structural vendor 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:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- ☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

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

Issue:

Contractor shall verify Project #: 21781085A (Rev. 1) by Colliers Engineering and Design, dated 8/10/2021 has been installed prior to installation of equipment. **Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications.**

Response:

Special Instruction Confirmation:

- ☐ The contractor has read and acknowledges the above special instructions.
- ☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- ☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

- ☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

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Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos:

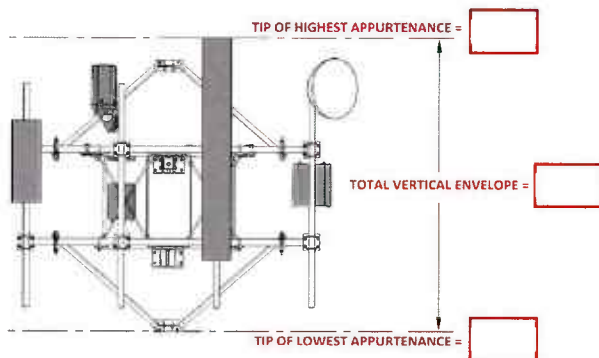


Illustration #1

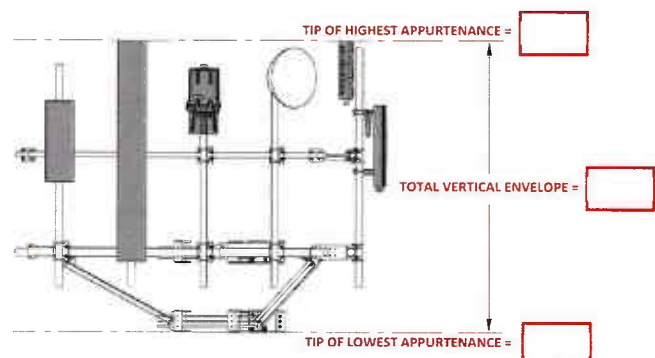


Illustration #2

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Sector: A

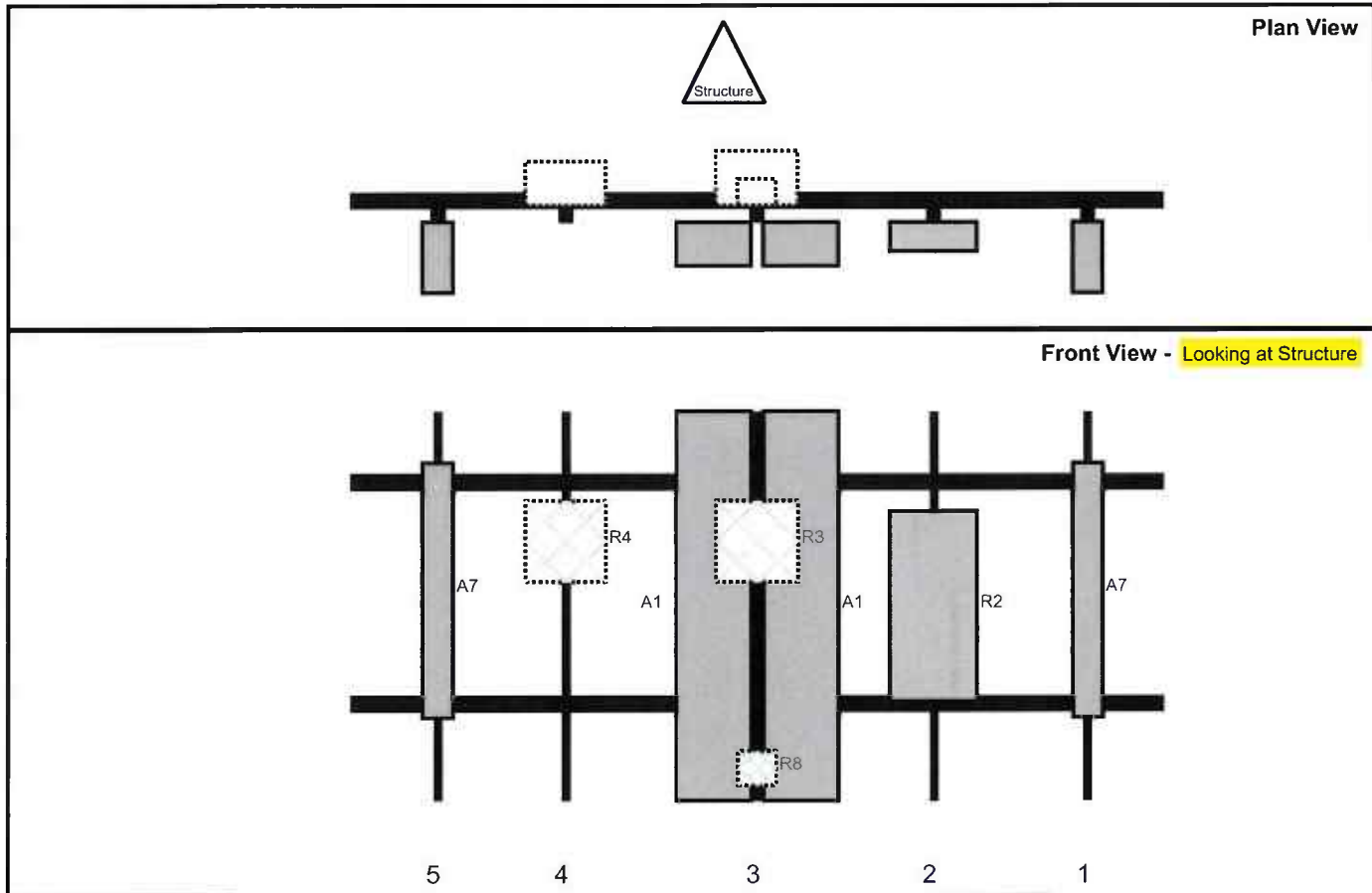
3/5/2025

Structure Type: Self Support

10269440

Mount Elev: 145.00

Page: 1



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
A7	LPA-80080-4CF-EDIN-6	47.2	5.5	136	1	a	Front	33	0	Retained	
R2	MT6407-77A	35.1	16.1	107.5	2	a	Front	36	0	Retained	
A1	JAHH-65B-R3B	72	13.8	75	3	a	Front	36	-8	Retained	
A1	JAHH-65B-R3B	72	13.8	75	3	b	Front	36	8	Retained	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	75	3	a	Behind	24	0	Retained	
R8	CBC78T-DS-43	6.4	6.9	75	3	a	Behind	66	0	Retained	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	39.5	4	a	Behind	24	0	Retained	
A7	LPA-80080-4CF-EDIN-6	47.2	5.5	16	5	a	Front	33	0	Retained	
M128A	RRFDC-3315-PF-48	29.5	16.5		Member					Retained	

Structure: 5000382446-VZW - HAMDEN NORTH 2 CT

Sector: B

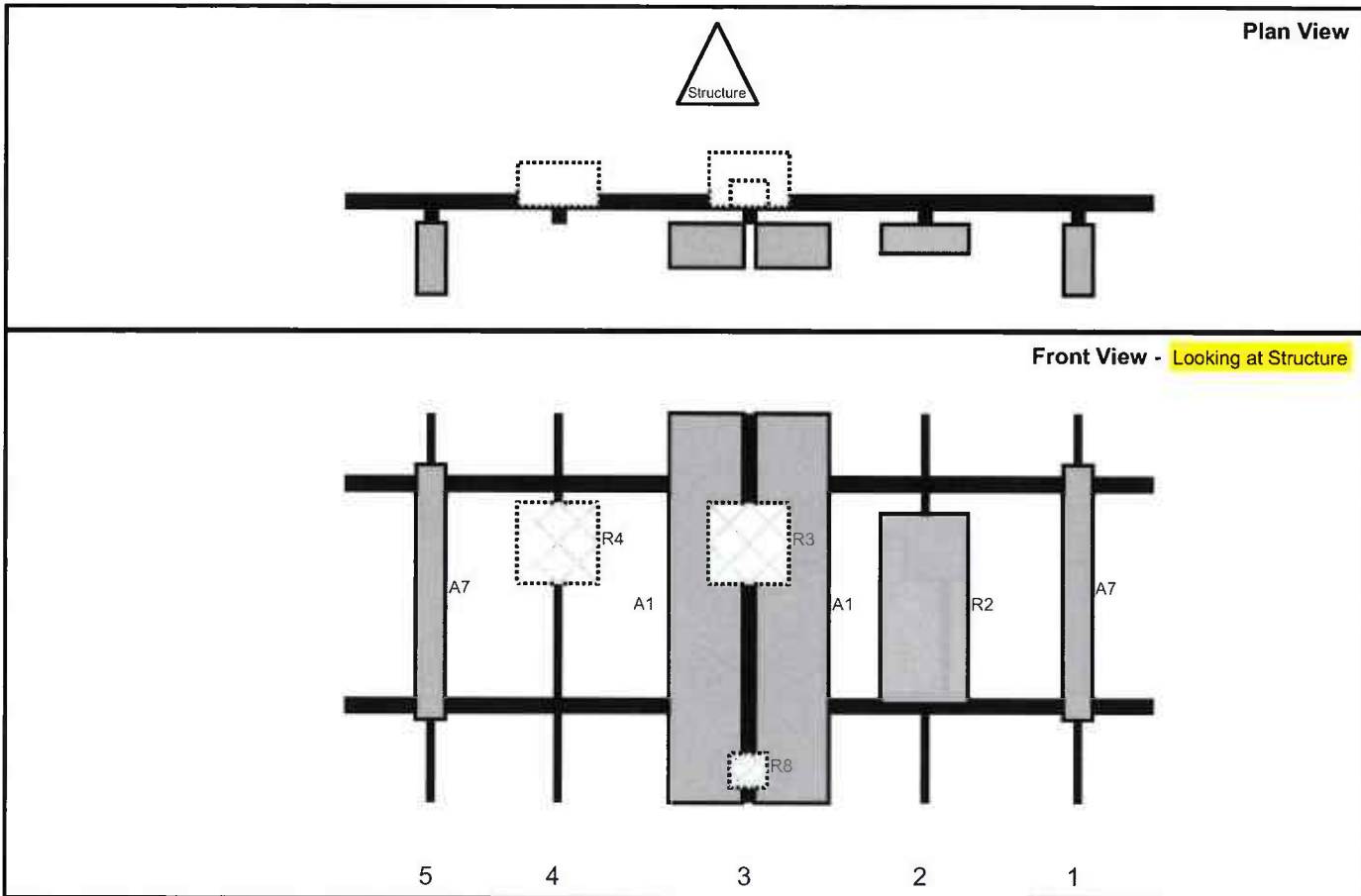
3/5/2025

Structure Type: Self Support

10269440

Mount Elev: 145.00

Page: 2



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
A7	LPA-80080-4CF-EDIN-6	47.2	5.5	136	1	a	Front	33	0	Retained	
R2	MT6407-77A	35.1	16.1	107.5	2	a	Front	36	0	Retained	
A1	JAHH-65B-R3B	72	13.8	75	3	a	Front	36	-8	Retained	
A1	JAHH-65B-R3B	72	13.8	75	3	b	Front	36	8	Retained	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	75	3	a	Behind	24	0	Retained	
R8	CBC78T-DS-43	6.4	6.9	75	3	a	Behind	66	0	Retained	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	39.5	4	a	Behind	24	0	Retained	
A7	LPA-80080-4CF-EDIN-6	47.2	5.5	16	5	a	Front	33	0	Retained	

Sector: C

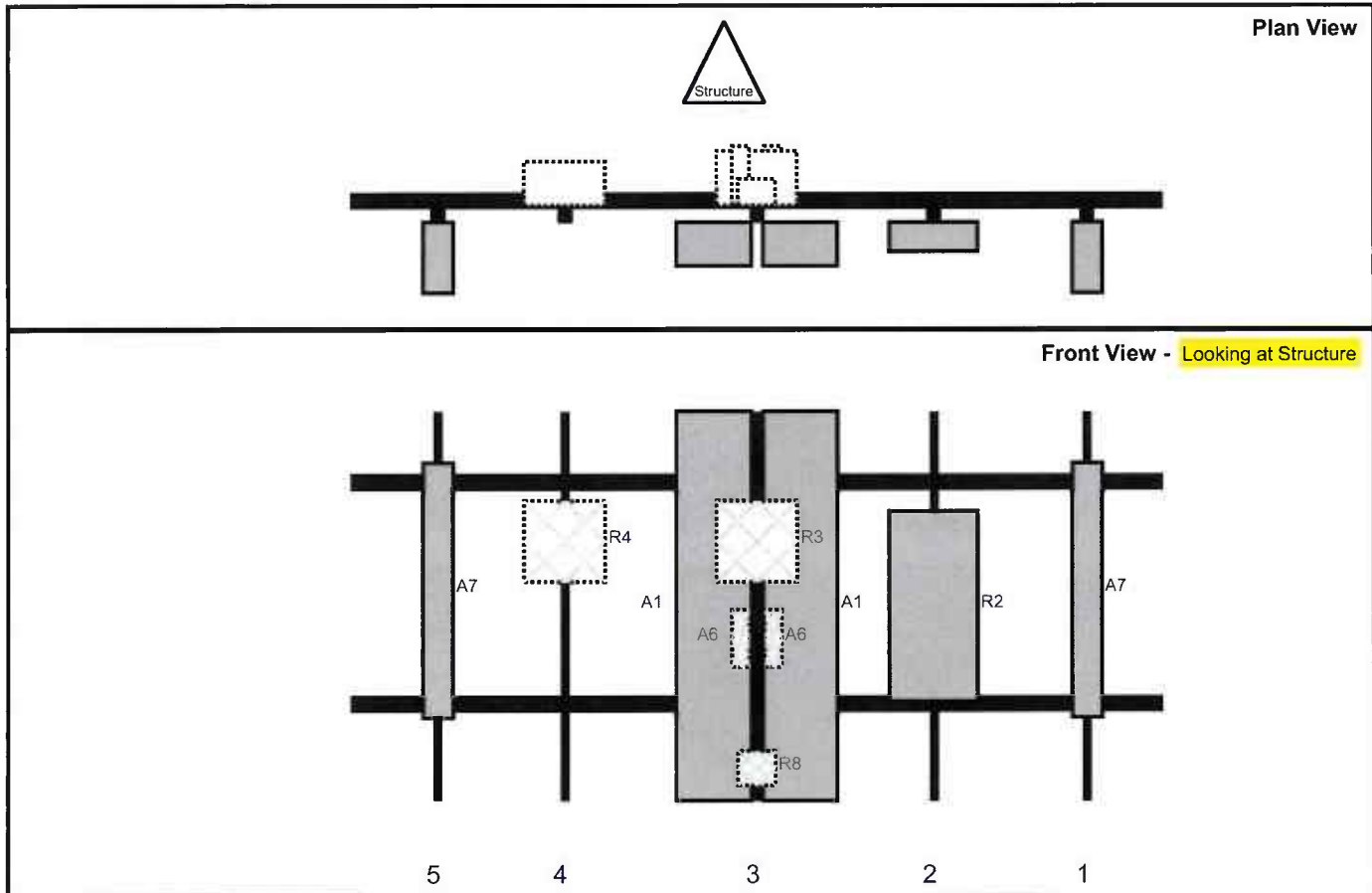
3/5/2025

Structure Type: Self Support

10269440

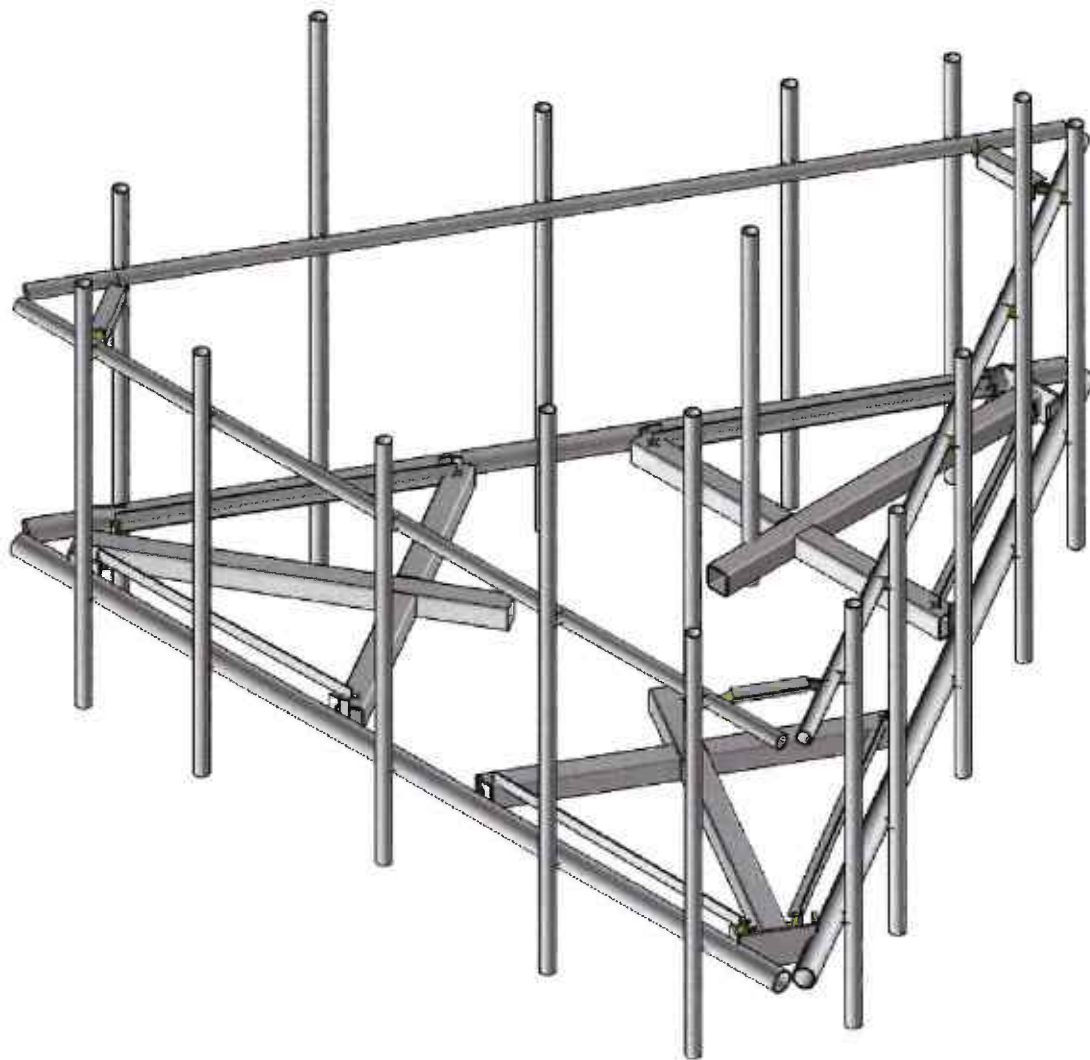
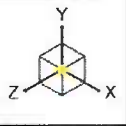
Mount Elev: 145.00

Page: 3



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
A7	LPA-80080-4CF-EDIN-6	47.2	5.5	136	1	a	Front	33	0	Retained	
R2	MT6407-77A	35.1	16.1	107.5	2	a	Front	36	0	Retained	
A1	JAHH-65B-R3B	72	13.8	75	3	a	Front	36	-8	Retained	
A1	JAHH-65B-R3B	72	13.8	75	3	b	Front	36	8	Retained	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	75	3	a	Behind	24	0	Retained	
A6	BSF0020F3V1-1	10.6	3.2	75	3	a	Behind	42	-3	Added	
A6	BSF0020F3V1-1	10.6	3.2	75	3	b	Behind	42	3	Added	
R8	CBC78T-DS-43	6.4	6.9	75	3	a	Behind	66	0	Retained	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	39.5	4	a	Behind	24	0	Retained	
A7	LPA-80080-4CF-EDIN-6	47.2	5.5	16	5	a	Front	33	0	Retained	





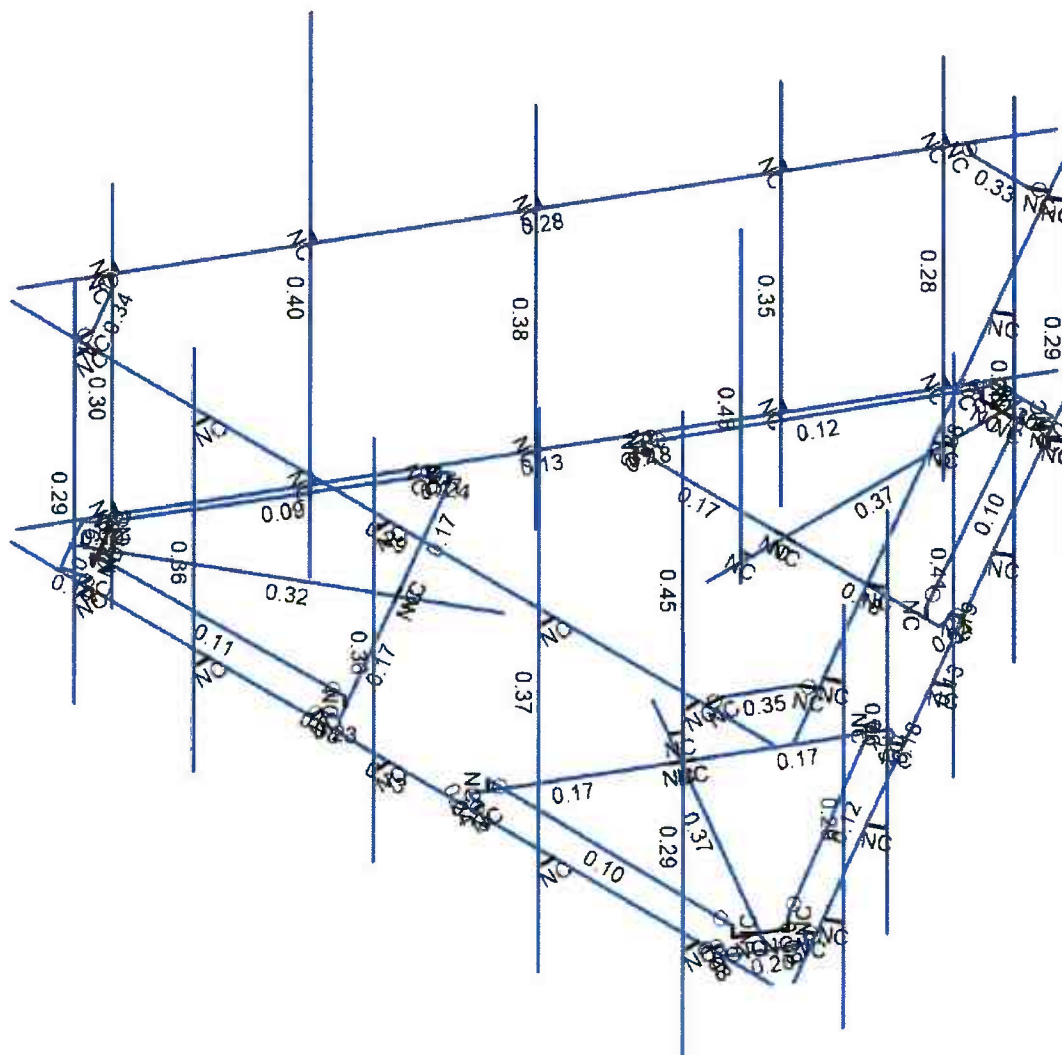
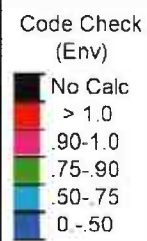
Envelope Only Solution



SK-1

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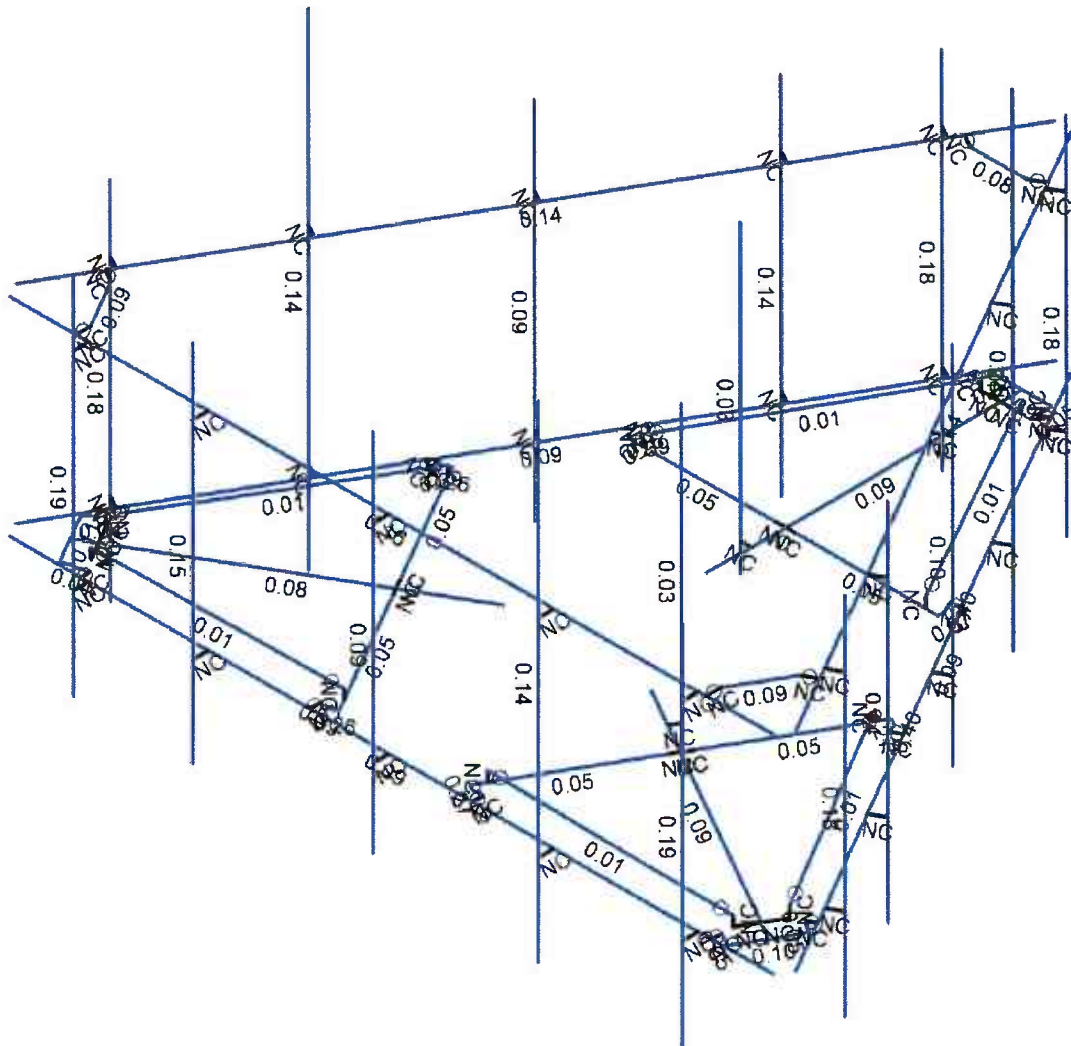
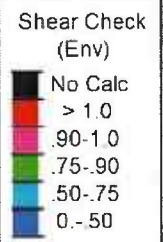
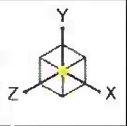
Member Code Checks Displayed (Enveloped)
Envelope Only Solution



SK-2

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Member Shear Checks Displayed (Enveloped)
Envelope Only Solution



SK-3

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3/10/2025
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Description		Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1						
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1						
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1						
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1						
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1						
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1						
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1						
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1						
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1						
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1						
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1						
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1						
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1		
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1		
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1		
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1		
17	1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1		
18	1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1		
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1		
20	1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1		
21	1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1		
22	1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1		
23	1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1		
24	1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1		
25	1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1				
26	1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1				
27	1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1				
28	1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1				
29	1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1				
30	1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1				
31	1.																

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
56	1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
57	1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
58	1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
60	1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
61	1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62	1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
63	1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
66	0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
67	0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
69	0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
70	0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]	
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
2	Standoff Arm	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Cross brace	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
4	grating angles	L2X2X3	Beam	Single Angle	A36 Gr.36	Typical	0.722	0.271	0.271	0.009
5	bottom corner plates	PL1/2X6	Beam	RECT	A36 Gr.36	Typical	3	0.062	9	0.237
6	support rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
7	horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
8	handrail corner angle	L2.5X2.5X4	Beam	Single Angle	A36 Gr.36	Typical	1.19	0.692	0.692	0.026
9	crossbrace plate	PL3/8X6	Column	RECT	A36 Gr.36	Typical	2.25	0.026	6.75	0.101

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [10^{-5}F^{-1}]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	A500 Gr. C	29000	11154	0.3	0.65	0.49	46	1.5	62	1.2

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N3	N4		horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M2	N7	N8		support rail	Beam	Pipe	A53 Gr.B	Typical
3	M3	N10	N21		RIGID	None	None	RIGID	Typical
4	M4	N9	N20		RIGID	None	None	RIGID	Typical
5	M5	N11	N22		RIGID	None	None	RIGID	Typical
6	M6	N12	N23		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
7	M7	N14	N25		RIGID	None	None	RIGID	Typical
8	M8	N15	N26		RIGID	None	None	RIGID	Typical
9	M9	N16	N27		RIGID	None	None	RIGID	Typical
10	M10	N18	N29		RIGID	None	None	RIGID	Typical
11	M11	N17	N28		RIGID	None	None	RIGID	Typical
12	M12	N13	N24		RIGID	None	None	RIGID	Typical
13	MP5A	N28A	N33		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
14	MP4A	N29A	N34		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
15	MP3A	N31	N36		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
16	MP2A	N32	N37		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
17	MP1A	N30	N35		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
18	M18	N41	N42		horizontal	Beam	Pipe	A53 Gr.B	Typical
19	M19	N45	N46		support rail	Beam	Pipe	A53 Gr.B	Typical
20	M20	N48	N58		RIGID	None	None	RIGID	Typical
21	M21	N47	N57		RIGID	None	None	RIGID	Typical
22	M22	N49	N59		RIGID	None	None	RIGID	Typical
23	M23	N50	N60		RIGID	None	None	RIGID	Typical
24	M24	N52	N62		RIGID	None	None	RIGID	Typical
25	M27	N56	N66		RIGID	None	None	RIGID	Typical
26	M28	N55	N65		RIGID	None	None	RIGID	Typical
27	M29	N51	N61		RIGID	None	None	RIGID	Typical
28	MP5C	N67	N72		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
29	MP4C	N68	N73		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
30	MP3C	N70	N75		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
31	MP1C	N69	N74		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
32	M35	N80	N81		horizontal	Beam	Pipe	A53 Gr.B	Typical
33	M36	N84	N85		support rail	Beam	Pipe	A53 Gr.B	Typical
34	M37	N87	N97		RIGID	None	None	RIGID	Typical
35	M38	N86	N96		RIGID	None	None	RIGID	Typical
36	M39	N88	N98		RIGID	None	None	RIGID	Typical
37	M40	N89	N99		RIGID	None	None	RIGID	Typical
38	M41	N91	N101		RIGID	None	None	RIGID	Typical
39	M44	N95	N105		RIGID	None	None	RIGID	Typical
40	M45	N94	N104		RIGID	None	None	RIGID	Typical
41	M46	N90	N100		RIGID	None	None	RIGID	Typical
42	MP5B	N106	N111		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
43	MP4B	N107	N112		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
44	MP3B	N109	N114		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
45	MP1B	N108	N113		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
46	M52	N208	N199A	90	handrail corner angle	Beam	Single Angle	A36 Gr.36	Typical
47	M53	N203	N200A	180	handrail corner angle	Beam	Single Angle	A36 Gr.36	Typical
48	M54	N207	N204	180	handrail corner angle	Beam	Single Angle	A36 Gr.36	Typical
49	M58	N116A	N117A		Standoff Arm	Beam	SquareTube	A500 Gr.B Rect	Typical
50	M59	N118	N119		Standoff Arm	Beam	SquareTube	A500 Gr.B Rect	Typical
51	M60	N120	N121		Standoff Arm	Beam	SquareTube	A500 Gr.B Rect	Typical
52	M61	N122	N124		RIGID	None	None	RIGID	Typical
53	M62	N123	N125		RIGID	None	None	RIGID	Typical
54	M63	N124	N126		crossbrace plate	Column	RECT	A36 Gr.36	Typical
55	M64	N125	N127		crossbrace plate	Column	RECT	A36 Gr.36	Typical
56	M79	N137	N139A		RIGID	None	None	RIGID	Typical
57	M80	N138A	N140		RIGID	None	None	RIGID	Typical
58	M81	N139A	N141		crossbrace plate	Column	RECT	A36 Gr.36	Typical
59	M82	N140	N142		crossbrace plate	Column	RECT	A36 Gr.36	Typical
60	M83	N143	N145A		RIGID	None	None	RIGID	Typical
61	M84	N144	N146A		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
62	M85	N145A	N147		crossbrace plate	Column	RECT	A36 Gr.36	Typical
63	M86	N146A	N148		crossbrace plate	Column	RECT	A36 Gr.36	Typical
64	M91	N142	N149		crossbrace plate	Column	RECT	A36 Gr.36	Typical
65	M92	N147	N150		crossbrace plate	Column	RECT	A36 Gr.36	Typical
66	M80A	N149A	N150		Cross brace	Beam	SquareTube	A500 Gr.B Rect	Typical
67	M80B	N150A	N149		Cross brace	Beam	SquareTube	A500 Gr.B Rect	Typical
68	M81A	N149A	N128		RIGID	None	None	RIGID	Typical
69	M82A	N150A	N128		RIGID	None	None	RIGID	Typical
70	M79A	N148	N150B		crossbrace plate	Column	RECT	A36 Gr.36	Typical
71	M80C	N126	N151		crossbrace plate	Column	RECT	A36 Gr.36	Typical
72	M81B	N152	N151		Cross brace	Beam	SquareTube	A500 Gr.B Rect	Typical
73	M82B	N153	N150B		Cross brace	Beam	SquareTube	A500 Gr.B Rect	Typical
74	M83A	N152	N129		RIGID	None	None	RIGID	Typical
75	M84A	N153	N129		RIGID	None	None	RIGID	Typical
76	M85A	N127	N157		crossbrace plate	Column	RECT	A36 Gr.36	Typical
77	M86A	N141	N158		crossbrace plate	Column	RECT	A36 Gr.36	Typical
78	M87	N159	N158		Cross brace	Beam	SquareTube	A500 Gr.B Rect	Typical
79	M88	N160	N157		Cross brace	Beam	SquareTube	A500 Gr.B Rect	Typical
80	M89	N159	N130		RIGID	None	None	RIGID	Typical
81	M90	N160	N130		RIGID	None	None	RIGID	Typical
82	M92A	N160A	N159B		RIGID	None	None	RIGID	Typical
83	M93	N158A	N160A		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
84	M90A	N155	N154		RIGID	None	None	RIGID	Typical
85	M91A	N153A	N155		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
86	M92B	N158B	N157A		RIGID	None	None	RIGID	Typical
87	M93A	N156	N158B		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
88	M94	N161	N160B		RIGID	None	None	RIGID	Typical
89	M95	N159A	N161		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
90	M96	N164	N163		RIGID	None	None	RIGID	Typical
91	M97	N162	N164		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
92	M98	N167	N166		RIGID	None	None	RIGID	Typical
93	M99	N165	N167		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
94	M104	N165	N158A		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
95	M105	N156	N153A		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
96	M106	N162	N159A		bottom corner plates	Beam	RECT	A36 Gr.36	Typical
97	M107	N172	N173		RIGID	None	None	RIGID	Typical
98	M108	N173	N175		RIGID	None	None	RIGID	Typical
99	M109	N172	N174		RIGID	None	None	RIGID	Typical
100	M110	N174	N176		RIGID	None	None	RIGID	Typical
101	M111	N175	N170	270	grating angles	Beam	Single Angle	A36 Gr.36	Typical
102	M112	N176	N171		grating angles	Beam	Single Angle	A36 Gr.36	Typical
103	M113	N170	N168		RIGID	None	None	RIGID	Typical
104	M114	N171	N169		RIGID	None	None	RIGID	Typical
105	M115	N181	N182		RIGID	None	None	RIGID	Typical
106	M116	N182	N184		RIGID	None	None	RIGID	Typical
107	M117	N181	N183		RIGID	None	None	RIGID	Typical
108	M118	N183	N185		RIGID	None	None	RIGID	Typical
109	M119	N184	N179	270	grating angles	Beam	Single Angle	A36 Gr.36	Typical
110	M120	N185	N180		grating angles	Beam	Single Angle	A36 Gr.36	Typical
111	M121	N179	N177		RIGID	None	None	RIGID	Typical
112	M122	N180	N178		RIGID	None	None	RIGID	Typical
113	M123	N190	N191		RIGID	None	None	RIGID	Typical
114	M124	N191	N193		RIGID	None	None	RIGID	Typical
115	M125	N190	N192		RIGID	None	None	RIGID	Typical
116	M126	N192	N194		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
117	M127	N193	N188	270	grating angles	Beam	Single Angle	A36 Gr.36	Typical
118	M128	N194	N189		grating angles	Beam	Single Angle	A36 Gr.36	Typical
119	M129	N188	N186		RIGID	None	None	RIGID	Typical
120	M130	N189	N187		RIGID	None	None	RIGID	Typical
121	M127A	N195	N196		RIGID	None	None	RIGID	Typical
122	M128A	N198	N197	240	Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
123	M129A	N38	N199A		RIGID	None	None	RIGID	Typical
124	M130A	N39	N200A		RIGID	None	None	RIGID	Typical
125	M131	N199	N203		RIGID	None	None	RIGID	Typical
126	M132	N200	N204		RIGID	None	None	RIGID	Typical
127	M133	N201	N207		RIGID	None	None	RIGID	Typical
128	M134	N202	N208		RIGID	None	None	RIGID	Typical
129	M135	N206	N211		RIGID	None	None	RIGID	Typical
130	M136	N205	N210		RIGID	None	None	RIGID	Typical
131	M137	N212	N209		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
132	M138	N214	N217		RIGID	None	None	RIGID	Typical
133	M139	N213	N216		RIGID	None	None	RIGID	Typical
134	M140	N218	N215		Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
135	M141	N219	N220	240	Antenna Pipe	Column	Pipe	A53 Gr.B	Typical
136	M142	N221	N222		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1				Yes	N/A	None
2	M2				Yes	N/A	None
3	M3				Yes	** NA **	None
4	M4				Yes	** NA **	None
5	M5				Yes	** NA **	None
6	M6				Yes	** NA **	None
7	M7				Yes	** NA **	None
8	M8				Yes	** NA **	None
9	M9				Yes	** NA **	None
10	M10				Yes	** NA **	None
11	M11				Yes	** NA **	None
12	M12				Yes	** NA **	None
13	MP5A				Yes	** NA **	None
14	MP4A				Yes	** NA **	None
15	MP3A				Yes	** NA **	None
16	MP2A				Yes	** NA **	None
17	MP1A				Yes	** NA **	None
18	M18				Yes	N/A	None
19	M19				Yes	N/A	None
20	M20				Yes	** NA **	None
21	M21				Yes	** NA **	None
22	M22				Yes	** NA **	None
23	M23				Yes	** NA **	None
24	M24				Yes	** NA **	None
25	M27				Yes	** NA **	None
26	M28				Yes	** NA **	None
27	M29				Yes	** NA **	None
28	MP5C				Yes	** NA **	None
29	MP4C				Yes	** NA **	None
30	MP3C				Yes	** NA **	None
31	MP1C				Yes	** NA **	None
32	M35				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
33	M36				Yes	N/A	None
34	M37				Yes	** NA **	None
35	M38				Yes	** NA **	None
36	M39				Yes	** NA **	None
37	M40				Yes	** NA **	None
38	M41				Yes	** NA **	None
39	M44				Yes	** NA **	None
40	M45				Yes	** NA **	None
41	M46				Yes	** NA **	None
42	MP5B				Yes	** NA **	None
43	MP4B				Yes	** NA **	None
44	MP3B				Yes	** NA **	None
45	MP1B				Yes	** NA **	None
46	M52				Yes	Default	None
47	M53				Yes	Default	None
48	M54				Yes	Default	None
49	M58				Yes	N/A	None
50	M59				Yes	N/A	None
51	M60				Yes	N/A	None
52	M61	BenPIN			Yes	** NA **	None
53	M62	BenPIN			Yes	** NA **	None
54	M63				Yes	** NA **	None
55	M64				Yes	** NA **	None
56	M79	BenPIN			Yes	** NA **	None
57	M80	BenPIN			Yes	** NA **	None
58	M81				Yes	** NA **	None
59	M82				Yes	** NA **	None
60	M83	BenPIN			Yes	** NA **	None
61	M84	BenPIN			Yes	** NA **	None
62	M85				Yes	** NA **	None
63	M86				Yes	** NA **	None
64	M91				Yes	** NA **	None
65	M92				Yes	** NA **	None
66	M80A				Yes	N/A	None
67	M80B				Yes	N/A	None
68	M81A				Yes	** NA **	None
69	M82A				Yes	** NA **	None
70	M79A				Yes	** NA **	None
71	M80C				Yes	** NA **	None
72	M81B				Yes	N/A	None
73	M82B				Yes	N/A	None
74	M83A				Yes	** NA **	None
75	M84A				Yes	** NA **	None
76	M85A				Yes	** NA **	None
77	M86A				Yes	** NA **	None
78	M87				Yes	N/A	None
79	M88				Yes	N/A	None
80	M89				Yes	** NA **	None
81	M90				Yes	** NA **	None
82	M92A		BenPIN		Yes	** NA **	None
83	M93				Yes	N/A	None
84	M90A		BenPIN		Yes	** NA **	None
85	M91A				Yes	N/A	None
86	M92B		BenPIN		Yes	** NA **	None
87	M93A				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
88	M94		BenPIN		Yes	** NA **	None
89	M95				Yes	N/A	None
90	M96		BenPIN		Yes	** NA **	None
91	M97				Yes	N/A	None
92	M98		BenPIN		Yes	** NA **	None
93	M99				Yes	N/A	None
94	M104				Yes	N/A	None
95	M105				Yes	N/A	None
96	M106				Yes	N/A	None
97	M107				Yes	** NA **	None
98	M108				Yes	** NA **	None
99	M109				Yes	** NA **	None
100	M110				Yes	** NA **	None
101	M111	OOOOXO	OOOOXO		Yes	Default	None
102	M112	OOOOOX	OOOOOX		Yes	N/A	None
103	M113				Yes	** NA **	None
104	M114				Yes	** NA **	None
105	M115				Yes	** NA **	None
106	M116				Yes	** NA **	None
107	M117				Yes	** NA **	None
108	M118				Yes	** NA **	None
109	M119	OOOOXO	OOOOXO		Yes	Default	None
110	M120	OOOOOX	OOOOOX		Yes	N/A	None
111	M121				Yes	** NA **	None
112	M122				Yes	** NA **	None
113	M123				Yes	** NA **	None
114	M124				Yes	** NA **	None
115	M125				Yes	** NA **	None
116	M126				Yes	** NA **	None
117	M127	OOOOXO	OOOOXO		Yes	Default	None
118	M128	OOOOOX	OOOOOX		Yes	N/A	None
119	M129				Yes	** NA **	None
120	M130				Yes	** NA **	None
121	M127A				Yes	** NA **	None
122	M128A				Yes	** NA **	None
123	M129A	OOOOOX			Yes	** NA **	None
124	M130A	OOOOOX			Yes	** NA **	None
125	M131	OOOOOX			Yes	** NA **	None
126	M132	OOOOOX			Yes	** NA **	None
127	M133	OOOOOX			Yes	** NA **	None
128	M134	OOOOOX			Yes	** NA **	None
129	M135				Yes	** NA **	None
130	M136				Yes	** NA **	None
131	M137				Yes	** NA **	None
132	M138				Yes	** NA **	None
133	M139				Yes	** NA **	None
134	M140				Yes	** NA **	None
135	M141				Yes	** NA **	None
136	M142				Yes	** NA **	None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-31.65	1
2	MP3A	My	-0.016	1
3	MP3A	Mz	-0.021	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP3A	Y	-31.65	5
5	MP3A	My	-0.016	5
6	MP3A	Mz	-0.021	5
7	MP3B	Y	-31.65	1
8	MP3B	My	0.026	1
9	MP3B	Mz	0.006	1
10	MP3B	Y	-31.65	5
11	MP3B	My	0.026	5
12	MP3B	Mz	0.006	5
13	MP3C	Y	-31.65	1
14	MP3C	My	-0.01	1
15	MP3C	Mz	0.024	1
16	MP3C	Y	-31.65	5
17	MP3C	My	-0.01	5
18	MP3C	Mz	0.024	5
19	MP3A	Y	-31.65	1
20	MP3A	My	-0.016	1
21	MP3A	Mz	0.021	1
22	MP3A	Y	-31.65	5
23	MP3A	My	-0.016	5
24	MP3A	Mz	0.021	5
25	MP3B	Y	-31.65	1
26	MP3B	My	-0.001	1
27	MP3B	Mz	-0.026	1
28	MP3B	Y	-31.65	5
29	MP3B	My	-0.001	5
30	MP3B	Mz	-0.026	5
31	MP3C	Y	-31.65	1
32	MP3C	My	0.026	1
33	MP3C	Mz	0.003	1
34	MP3C	Y	-31.65	5
35	MP3C	My	0.026	5
36	MP3C	Mz	0.003	5
37	MP3A	Y	-84.4	2
38	MP3A	My	0.042	2
39	MP3A	Mz	0	2
40	MP3B	Y	-84.4	2
41	MP3B	My	-0.032	2
42	MP3B	Mz	0.027	2
43	MP3C	Y	-84.4	2
44	MP3C	My	-0.021	2
45	MP3C	Mz	-0.037	2
46	MP4A	Y	-70.3	2
47	MP4A	My	0.035	2
48	MP4A	Mz	0	2
49	MP4B	Y	-70.3	2
50	MP4B	My	-0.027	2
51	MP4B	Mz	0.023	2
52	MP4C	Y	-70.3	2
53	MP4C	My	-0.018	2
54	MP4C	Mz	-0.03	2
55	M128A	Y	-32	1
56	M128A	My	0	1
57	M128A	Mz	0	1
58	MP3C	Y	-17.6	3.5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP3C	My	-0.008	3.5
60	MP3C	Mz	-0.005	3.5
61	MP3C	Y	-17.6	3.5
62	MP3C	My	-0.000589	3.5
63	MP3C	Mz	-0.01	3.5
64	MP1A	Y	-6	1.25
65	MP1A	My	-0.003	1.25
66	MP1A	Mz	0	1.25
67	MP1A	Y	-6	4.25
68	MP1A	My	-0.003	4.25
69	MP1A	Mz	0	4.25
70	MP1B	Y	-6	1.25
71	MP1B	My	0.002	1.25
72	MP1B	Mz	-0.002	1.25
73	MP1B	Y	-6	4.25
74	MP1B	My	0.002	4.25
75	MP1B	Mz	-0.002	4.25
76	MP1C	Y	-6	1.25
77	MP1C	My	0.002	1.25
78	MP1C	Mz	0.003	1.25
79	MP1C	Y	-6	4.25
80	MP1C	My	0.002	4.25
81	MP1C	Mz	0.003	4.25
82	MP5A	Y	-6	1.25
83	MP5A	My	-0.003	1.25
84	MP5A	Mz	0	1.25
85	MP5A	Y	-6	4.25
86	MP5A	My	-0.003	4.25
87	MP5A	Mz	0	4.25
88	MP5B	Y	-6	1.25
89	MP5B	My	0.002	1.25
90	MP5B	Mz	-0.002	1.25
91	MP5B	Y	-6	4.25
92	MP5B	My	0.002	4.25
93	MP5B	Mz	-0.002	4.25
94	MP5C	Y	-6	1.25
95	MP5C	My	0.002	1.25
96	MP5C	Mz	0.003	1.25
97	MP5C	Y	-6	4.25
98	MP5C	My	0.002	4.25
99	MP5C	Mz	0.003	4.25
100	MP3A	Y	-10.4	5.5
101	MP3A	My	0.005	5.5
102	MP3A	Mz	0	5.5
103	MP3B	Y	-10.4	5.5
104	MP3B	My	-0.004	5.5
105	MP3B	Mz	0.003	5.5
106	MP3C	Y	-10.4	5.5
107	MP3C	My	-0.003	5.5
108	MP3C	Mz	-0.005	5.5
109	M128A	Y	-32	1
110	M128A	My	0	1
111	M128A	Mz	0	1
112	MP2A	Y	-43.55	3.75
113	MP2A	My	-0.022	3.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
114	MP2A	Mz	0	3.75
115	MP2A	Y	-43.55	5.75
116	MP2A	My	-0.022	5.75
117	MP2A	Mz	0	5.75
118	M137	Y	-43.55	3.75
119	M137	Y	-43.55	5.75
120	M137	My	-0.022	5.75
121	M137	Mz	0	5.75
122	M137	My	-0.022	3.75
123	M137	Mz	0	3.75
124	M140	Y	-43.55	3.75
125	M140	Y	-43.55	5.75
126	M140	My	-0.022	5.75
127	M140	Mz	0	5.75
128	M140	My	-0.022	3.75
129	M140	Mz	0	3.75
130	M141	Y	-32	1
131	M141	Y	-32	1
132	M141	Mz	0	1
133	M141	My	0	1
134	M141	Mz	0	1
135	M141	My	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-70.315	1
2	MP3A	My	-0.035	1
3	MP3A	Mz	-0.047	1
4	MP3A	Y	-70.315	5
5	MP3A	My	-0.035	5
6	MP3A	Mz	-0.047	5
7	MP3B	Y	-70.315	1
8	MP3B	My	0.057	1
9	MP3B	Mz	0.013	1
10	MP3B	Y	-70.315	5
11	MP3B	My	0.057	5
12	MP3B	Mz	0.013	5
13	MP3C	Y	-70.315	1
14	MP3C	My	-0.023	1
15	MP3C	Mz	0.054	1
16	MP3C	Y	-70.315	5
17	MP3C	My	-0.023	5
18	MP3C	Mz	0.054	5
19	MP3A	Y	-70.315	1
20	MP3A	My	-0.035	1
21	MP3A	Mz	0.047	1
22	MP3A	Y	-70.315	5
23	MP3A	My	-0.035	5
24	MP3A	Mz	0.047	5
25	MP3B	Y	-70.315	1
26	MP3B	My	-0.003	1
27	MP3B	Mz	-0.059	1
28	MP3B	Y	-70.315	5
29	MP3B	My	-0.003	5
30	MP3B	Mz	-0.059	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP3C	Y	-70.315	1
32	MP3C	My	0.058	1
33	MP3C	Mz	0.007	1
34	MP3C	Y	-70.315	5
35	MP3C	My	0.058	5
36	MP3C	Mz	0.007	5
37	MP3A	Y	-45.144	2
38	MP3A	My	0.023	2
39	MP3A	Mz	0	2
40	MP3B	Y	-45.144	2
41	MP3B	My	-0.017	2
42	MP3B	Mz	0.015	2
43	MP3C	Y	-45.144	2
44	MP3C	My	-0.011	2
45	MP3C	Mz	-0.02	2
46	MP4A	Y	-40.6	2
47	MP4A	My	0.02	2
48	MP4A	Mz	0	2
49	MP4B	Y	-40.6	2
50	MP4B	My	-0.016	2
51	MP4B	Mz	0.013	2
52	MP4C	Y	-40.6	2
53	MP4C	My	-0.01	2
54	MP4C	Mz	-0.018	2
55	M128A	Y	-88.375	1
56	M128A	My	0	1
57	M128A	Mz	0	1
58	MP3C	Y	-17.447	3.5
59	MP3C	My	-0.008	3.5
60	MP3C	Mz	-0.005	3.5
61	MP3C	Y	-17.447	3.5
62	MP3C	My	-0.000584	3.5
63	MP3C	Mz	-0.01	3.5
64	MP1A	Y	-40.512	1.25
65	MP1A	My	-0.02	1.25
66	MP1A	Mz	0	1.25
67	MP1A	Y	-40.512	4.25
68	MP1A	My	-0.02	4.25
69	MP1A	Mz	0	4.25
70	MP1B	Y	-40.512	1.25
71	MP1B	My	0.016	1.25
72	MP1B	Mz	-0.013	1.25
73	MP1B	Y	-40.512	4.25
74	MP1B	My	0.016	4.25
75	MP1B	Mz	-0.013	4.25
76	MP1C	Y	-40.512	1.25
77	MP1C	My	0.01	1.25
78	MP1C	Mz	0.018	1.25
79	MP1C	Y	-40.512	4.25
80	MP1C	My	0.01	4.25
81	MP1C	Mz	0.018	4.25
82	MP5A	Y	-40.512	1.25
83	MP5A	My	-0.02	1.25
84	MP5A	Mz	0	1.25
85	MP5A	Y	-40.512	4.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	MP5A	My	-0.02	4.25
87	MP5A	Mz	0	4.25
88	MP5B	Y	-40.512	1.25
89	MP5B	My	0.016	1.25
90	MP5B	Mz	-0.013	1.25
91	MP5B	Y	-40.512	4.25
92	MP5B	My	0.016	4.25
93	MP5B	Mz	-0.013	4.25
94	MP5C	Y	-40.512	1.25
95	MP5C	My	0.01	1.25
96	MP5C	Mz	0.018	1.25
97	MP5C	Y	-40.512	4.25
98	MP5C	My	0.01	4.25
99	MP5C	Mz	0.018	4.25
100	MP3A	Y	-10.806	5.5
101	MP3A	My	0.005	5.5
102	MP3A	Mz	0	5.5
103	MP3B	Y	-10.806	5.5
104	MP3B	My	-0.004	5.5
105	MP3B	Mz	0.003	5.5
106	MP3C	Y	-10.806	5.5
107	MP3C	My	-0.003	5.5
108	MP3C	Mz	-0.005	5.5
109	M128A	Y	-88.375	1
110	M128A	My	0	1
111	M128A	Mz	0	1
112	MP2A	Y	-35.804	3.75
113	MP2A	My	-0.018	3.75
114	MP2A	Mz	0	3.75
115	MP2A	Y	-35.804	5.75
116	MP2A	My	-0.018	5.75
117	MP2A	Mz	0	5.75
118	M137	My	-0.018	3.75
119	M137	Mz	0	3.75
120	M137	Mz	0	5.75
121	M137	My	-0.018	5.75
122	M137	Y	-35.804	5.75
123	M137	Y	-35.804	3.75
124	M140	My	-0.018	3.75
125	M140	Mz	0	3.75
126	M140	Mz	0	5.75
127	M140	My	-0.018	5.75
128	M140	Y	-35.804	5.75
129	M140	Y	-35.804	3.75
130	M141	My	0	1
131	M141	Mz	0	1
132	M141	Mz	0	1
133	M141	My	0	1
134	M141	Y	-88.375	1
135	M141	Y	-88.375	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1
2	MP3A	Z	-154.425	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
3	MP3A	Mx	0.103	1
4	MP3A	X	0	5
5	MP3A	Z	-154.425	5
6	MP3A	Mx	0.103	5
7	MP3B	X	0	1
8	MP3B	Z	-132.527	1
9	MP3B	Mx	-0.025	1
10	MP3B	X	0	5
11	MP3B	Z	-132.527	5
12	MP3B	Mx	-0.025	5
13	MP3C	X	0	1
14	MP3C	Z	-114.675	1
15	MP3C	Mx	-0.088	1
16	MP3C	X	0	5
17	MP3C	Z	-114.675	5
18	MP3C	Mx	-0.088	5
19	MP3A	X	0	1
20	MP3A	Z	-154.425	1
21	MP3A	Mx	-0.103	1
22	MP3A	X	0	5
23	MP3A	Z	-154.425	5
24	MP3A	Mx	-0.103	5
25	MP3B	X	0	1
26	MP3B	Z	-132.527	1
27	MP3B	Mx	0.11	1
28	MP3B	X	0	5
29	MP3B	Z	-132.527	5
30	MP3B	Mx	0.11	5
31	MP3C	X	0	1
32	MP3C	Z	-114.675	1
33	MP3C	Mx	-0.011	1
34	MP3C	X	0	5
35	MP3C	Z	-114.675	5
36	MP3C	Mx	-0.011	5
37	MP3A	X	0	2
38	MP3A	Z	-52.549	2
39	MP3A	Mx	0	2
40	MP3B	X	0	2
41	MP3B	Z	-45.405	2
42	MP3B	Mx	-0.015	2
43	MP3C	X	0	2
44	MP3C	Z	-39.581	2
45	MP3C	Mx	0.017	2
46	MP4A	X	0	2
47	MP4A	Z	-52.549	2
48	MP4A	Mx	0	2
49	MP4B	X	0	2
50	MP4B	Z	-42.743	2
51	MP4B	Mx	-0.014	2
52	MP4C	X	0	2
53	MP4C	Z	-34.75	2
54	MP4C	Mx	0.015	2
55	M128A	X	0	1
56	M128A	Z	-101.029	1
57	M128A	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
58	MP3C	X	0	3.5
59	MP3C	Z	-32.618	3.5
60	MP3C	Mx	0.01	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	-32.618	3.5
63	MP3C	Mx	0.018	3.5
64	MP1A	X	0	1.25
65	MP1A	Z	-44.243	1.25
66	MP1A	Mx	0	1.25
67	MP1A	X	0	4.25
68	MP1A	Z	-44.243	4.25
69	MP1A	Mx	0	4.25
70	MP1B	X	0	1.25
71	MP1B	Z	-63.775	1.25
72	MP1B	Mx	0.02	1.25
73	MP1B	X	0	4.25
74	MP1B	Z	-63.775	4.25
75	MP1B	Mx	0.02	4.25
76	MP1C	X	0	1.25
77	MP1C	Z	-79.698	1.25
78	MP1C	Mx	-0.035	1.25
79	MP1C	X	0	4.25
80	MP1C	Z	-79.698	4.25
81	MP1C	Mx	-0.035	4.25
82	MP5A	X	0	1.25
83	MP5A	Z	-44.243	1.25
84	MP5A	Mx	0	1.25
85	MP5A	X	0	4.25
86	MP5A	Z	-44.243	4.25
87	MP5A	Mx	0	4.25
88	MP5B	X	0	1.25
89	MP5B	Z	-63.775	1.25
90	MP5B	Mx	0.02	1.25
91	MP5B	X	0	4.25
92	MP5B	Z	-63.775	4.25
93	MP5B	Mx	0.02	4.25
94	MP5C	X	0	1.25
95	MP5C	Z	-79.698	1.25
96	MP5C	Mx	-0.035	1.25
97	MP5C	X	0	4.25
98	MP5C	Z	-79.698	4.25
99	MP5C	Mx	-0.035	4.25
100	MP3A	X	0	5.5
101	MP3A	Z	-12.544	5.5
102	MP3A	Mx	0	5.5
103	MP3B	X	0	5.5
104	MP3B	Z	-10.947	5.5
105	MP3B	Mx	-0.004	5.5
106	MP3C	X	0	5.5
107	MP3C	Z	-9.645	5.5
108	MP3C	Mx	0.004	5.5
109	M128A	X	0	1
110	M128A	Z	-101.029	1
111	M128A	Mx	0	1
112	MP2A	X	0	3.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
113	MP2A	Z	-66.449	3.75
114	MP2A	Mx	0	3.75
115	MP2A	X	0	5.75
116	MP2A	Z	-66.449	5.75
117	MP2A	Mx	0	5.75
118	M137	Mx	0	3.75
119	M137	Mx	0	5.75
120	M137	Z	-66.449	3.75
121	M137	X	0	5.75
122	M137	X	0	3.75
123	M137	Z	-66.449	5.75
124	M140	Mx	0	3.75
125	M140	Mx	0	5.75
126	M140	Z	-66.449	3.75
127	M140	X	0	5.75
128	M140	X	0	3.75
129	M140	Z	-66.449	5.75
130	M141	Z	-101.029	1
131	M141	X	0	1
132	M141	Mx	0	1
133	M141	Mx	0	1
134	M141	Z	-101.029	1
135	M141	X	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	70.587	1
2	MP3A	Z	-122.261	1
3	MP3A	Mx	0.046	1
4	MP3A	X	70.587	5
5	MP3A	Z	-122.261	5
6	MP3A	Mx	0.046	5
7	MP3B	X	53.812	1
8	MP3B	Z	-93.205	1
9	MP3B	Mx	0.026	1
10	MP3B	X	53.812	5
11	MP3B	Z	-93.205	5
12	MP3B	Mx	0.026	5
13	MP3C	X	70.587	1
14	MP3C	Z	-122.261	1
15	MP3C	Mx	-0.117	1
16	MP3C	X	70.587	5
17	MP3C	Z	-122.261	5
18	MP3C	Mx	-0.117	5
19	MP3A	X	70.587	1
20	MP3A	Z	-122.261	1
21	MP3A	Mx	-0.117	1
22	MP3A	X	70.587	5
23	MP3A	Z	-122.261	5
24	MP3A	Mx	-0.117	5
25	MP3B	X	53.812	1
26	MP3B	Z	-93.205	1
27	MP3B	Mx	0.075	1
28	MP3B	X	53.812	5
29	MP3B	Z	-93.205	5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
30	MP3B	Mx	0.075	5
31	MP3C	X	70.587	1
32	MP3C	Z	-122.261	1
33	MP3C	Mx	0.046	1
34	MP3C	X	70.587	5
35	MP3C	Z	-122.261	5
36	MP3C	Mx	0.046	5
37	MP3A	X	24.113	2
38	MP3A	Z	-41.765	2
39	MP3A	Mx	0.012	2
40	MP3B	X	18.641	2
41	MP3B	Z	-32.286	2
42	MP3B	Mx	-0.018	2
43	MP3C	X	24.113	2
44	MP3C	Z	-41.765	2
45	MP3C	Mx	0.012	2
46	MP4A	X	23.308	2
47	MP4A	Z	-40.37	2
48	MP4A	Mx	0.012	2
49	MP4B	X	15.797	2
50	MP4B	Z	-27.36	2
51	MP4B	Mx	-0.015	2
52	MP4C	X	23.308	2
53	MP4C	Z	-40.37	2
54	MP4C	Mx	0.012	2
55	M128A	X	44.073	1
56	M128A	Z	-76.337	1
57	M128A	Mx	0	1
58	MP3C	X	16.285	3.5
59	MP3C	Z	-28.207	3.5
60	MP3C	Mx	0.001	3.5
61	MP3C	X	16.285	3.5
62	MP3C	Z	-28.207	3.5
63	MP3C	Mx	0.015	3.5
64	MP1A	X	28.031	1.25
65	MP1A	Z	-48.55	1.25
66	MP1A	Mx	-0.014	1.25
67	MP1A	X	28.031	4.25
68	MP1A	Z	-48.55	4.25
69	MP1A	Mx	-0.014	4.25
70	MP1B	X	42.993	1.25
71	MP1B	Z	-74.467	1.25
72	MP1B	Mx	0.04	1.25
73	MP1B	X	42.993	4.25
74	MP1B	Z	-74.467	4.25
75	MP1B	Mx	0.04	4.25
76	MP1C	X	28.031	1.25
77	MP1C	Z	-48.55	1.25
78	MP1C	Mx	-0.014	1.25
79	MP1C	X	28.031	4.25
80	MP1C	Z	-48.55	4.25
81	MP1C	Mx	-0.014	4.25
82	MP5A	X	28.031	1.25
83	MP5A	Z	-48.55	1.25
84	MP5A	Mx	-0.014	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
85	MP5A	X	28.031	4.25
86	MP5A	Z	-48.55	4.25
87	MP5A	Mx	-0.014	4.25
88	MP5B	X	42.993	1.25
89	MP5B	Z	-74.467	1.25
90	MP5B	Mx	0.04	1.25
91	MP5B	X	42.993	4.25
92	MP5B	Z	-74.467	4.25
93	MP5B	Mx	0.04	4.25
94	MP5C	X	28.031	1.25
95	MP5C	Z	-48.55	1.25
96	MP5C	Mx	-0.014	1.25
97	MP5C	X	28.031	4.25
98	MP5C	Z	-48.55	4.25
99	MP5C	Mx	-0.014	4.25
100	MP3A	X	5.789	5.5
101	MP3A	Z	-10.027	5.5
102	MP3A	Mx	0.003	5.5
103	MP3B	X	4.566	5.5
104	MP3B	Z	-7.908	5.5
105	MP3B	Mx	-0.004	5.5
106	MP3C	X	5.789	5.5
107	MP3C	Z	-10.027	5.5
108	MP3C	Mx	0.003	5.5
109	M128A	X	44.073	1
110	M128A	Z	-76.337	1
111	M128A	Mx	0	1
112	MP2A	X	27.779	3.75
113	MP2A	Z	-48.114	3.75
114	MP2A	Mx	-0.014	3.75
115	MP2A	X	27.779	5.75
116	MP2A	Z	-48.114	5.75
117	MP2A	Mx	-0.014	5.75
118	M137	Mx	-0.014	5.75
119	M137	X	27.779	5.75
120	M137	X	27.779	3.75
121	M137	Mx	-0.014	3.75
122	M137	Z	-48.114	3.75
123	M137	Z	-48.114	5.75
124	M140	Mx	-0.014	5.75
125	M140	X	27.779	5.75
126	M140	X	27.779	3.75
127	M140	Mx	-0.014	3.75
128	M140	Z	-48.114	3.75
129	M140	Z	-48.114	5.75
130	M141	Mx	0	1
131	M141	X	44.073	1
132	M141	Z	-76.337	1
133	M141	Mx	0	1
134	M141	X	44.073	1
135	M141	Z	-76.337	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	99.311	1
2	MP3A	Z	-57.337	1
3	MP3A	Mx	-0.011	1
4	MP3A	X	99.311	5
5	MP3A	Z	-57.337	5
6	MP3A	Mx	-0.011	5
7	MP3B	X	89.22	1
8	MP3B	Z	-51.511	1
9	MP3B	Mx	0.063	1
10	MP3B	X	89.22	5
11	MP3B	Z	-51.511	5
12	MP3B	Mx	0.063	5
13	MP3C	X	133.736	1
14	MP3C	Z	-77.213	1
15	MP3C	Mx	-0.103	1
16	MP3C	X	133.736	5
17	MP3C	Z	-77.213	5
18	MP3C	Mx	-0.103	5
19	MP3A	X	99.311	1
20	MP3A	Z	-57.337	1
21	MP3A	Mx	-0.088	1
22	MP3A	X	99.311	5
23	MP3A	Z	-57.337	5
24	MP3A	Mx	-0.088	5
25	MP3B	X	89.22	1
26	MP3B	Z	-51.511	1
27	MP3B	Mx	0.039	1
28	MP3B	X	89.22	5
29	MP3B	Z	-51.511	5
30	MP3B	Mx	0.039	5
31	MP3C	X	133.736	1
32	MP3C	Z	-77.213	1
33	MP3C	Mx	0.103	1
34	MP3C	X	133.736	5
35	MP3C	Z	-77.213	5
36	MP3C	Mx	0.103	5
37	MP3A	X	34.278	2
38	MP3A	Z	-19.79	2
39	MP3A	Mx	0.017	2
40	MP3B	X	30.986	2
41	MP3B	Z	-17.89	2
42	MP3B	Mx	-0.018	2
43	MP3C	X	45.508	2
44	MP3C	Z	-26.274	2
45	MP3C	Mx	0	2
46	MP4A	X	30.094	2
47	MP4A	Z	-17.375	2
48	MP4A	Mx	0.015	2
49	MP4B	X	25.576	2
50	MP4B	Z	-14.766	2
51	MP4B	Mx	-0.015	2
52	MP4C	X	45.508	2
53	MP4C	Z	-26.274	2
54	MP4C	Mx	0	2
55	M128A	X	70.758	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-40.852	1
57	M128A	Mx	0	1
58	MP3C	X	28.186	3.5
59	MP3C	Z	-16.273	3.5
60	MP3C	Mx	-0.008	3.5
61	MP3C	X	28.186	3.5
62	MP3C	Z	-16.273	3.5
63	MP3C	Mx	0.008	3.5
64	MP1A	X	69.021	1.25
65	MP1A	Z	-39.849	1.25
66	MP1A	Mx	-0.035	1.25
67	MP1A	X	69.021	4.25
68	MP1A	Z	-39.849	4.25
69	MP1A	Mx	-0.035	4.25
70	MP1B	X	78.022	1.25
71	MP1B	Z	-45.046	1.25
72	MP1B	Mx	0.044	1.25
73	MP1B	X	78.022	4.25
74	MP1B	Z	-45.046	4.25
75	MP1B	Mx	0.044	4.25
76	MP1C	X	38.315	1.25
77	MP1C	Z	-22.121	1.25
78	MP1C	Mx	0	1.25
79	MP1C	X	38.315	4.25
80	MP1C	Z	-22.121	4.25
81	MP1C	Mx	0	4.25
82	MP5A	X	69.021	1.25
83	MP5A	Z	-39.849	1.25
84	MP5A	Mx	-0.035	1.25
85	MP5A	X	69.021	4.25
86	MP5A	Z	-39.849	4.25
87	MP5A	Mx	-0.035	4.25
88	MP5B	X	78.022	1.25
89	MP5B	Z	-45.046	1.25
90	MP5B	Mx	0.044	1.25
91	MP5B	X	78.022	4.25
92	MP5B	Z	-45.046	4.25
93	MP5B	Mx	0.044	4.25
94	MP5C	X	38.315	1.25
95	MP5C	Z	-22.121	1.25
96	MP5C	Mx	0	1.25
97	MP5C	X	38.315	4.25
98	MP5C	Z	-22.121	4.25
99	MP5C	Mx	0	4.25
100	MP3A	X	8.353	5.5
101	MP3A	Z	-4.823	5.5
102	MP3A	Mx	0.004	5.5
103	MP3B	X	7.617	5.5
104	MP3B	Z	-4.398	5.5
105	MP3B	Mx	-0.004	5.5
106	MP3C	X	10.863	5.5
107	MP3C	Z	-6.272	5.5
108	MP3C	Mx	0	5.5
109	M128A	X	70.758	1
110	M128A	Z	-40.852	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	29.25	3.75
113	MP2A	Z	-16.888	3.75
114	MP2A	Mx	-0.015	3.75
115	MP2A	X	29.25	5.75
116	MP2A	Z	-16.888	5.75
117	MP2A	Mx	-0.015	5.75
118	M137	Mx	-0.015	5.75
119	M137	X	29.25	3.75
120	M137	Z	-16.888	5.75
121	M137	Mx	-0.015	3.75
122	M137	Z	-16.888	3.75
123	M137	X	29.25	5.75
124	M140	Mx	-0.015	5.75
125	M140	X	29.25	3.75
126	M140	Z	-16.888	5.75
127	M140	Mx	-0.015	3.75
128	M140	Z	-16.888	3.75
129	M140	X	29.25	5.75
130	M141	Z	-40.852	1
131	M141	Mx	0	1
132	M141	Mx	0	1
133	M141	X	70.758	1
134	M141	X	70.758	1
135	M141	Z	-40.852	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	101.424	1
2	MP3A	Z	0	1
3	MP3A	Mx	-0.051	1
4	MP3A	X	101.424	5
5	MP3A	Z	0	5
6	MP3A	Mx	-0.051	5
7	MP3B	X	123.323	1
8	MP3B	Z	0	1
9	MP3B	Mx	0.1	1
10	MP3B	X	123.323	5
11	MP3B	Z	0	5
12	MP3B	Mx	0.1	5
13	MP3C	X	141.175	1
14	MP3C	Z	0	1
15	MP3C	Mx	-0.046	1
16	MP3C	X	141.175	5
17	MP3C	Z	0	5
18	MP3C	Mx	-0.046	5
19	MP3A	X	101.424	1
20	MP3A	Z	0	1
21	MP3A	Mx	-0.051	1
22	MP3A	X	101.424	5
23	MP3A	Z	0	5
24	MP3A	Mx	-0.051	5
25	MP3B	X	123.323	1
26	MP3B	Z	0	1
27	MP3B	Mx	-0.006	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	123.323	5
29	MP3B	Z	0	5
30	MP3B	Mx	-0.006	5
31	MP3C	X	141.175	1
32	MP3C	Z	0	1
33	MP3C	Mx	0.117	1
34	MP3C	X	141.175	5
35	MP3C	Z	0	5
36	MP3C	Mx	0.117	5
37	MP3A	X	35.258	2
38	MP3A	Z	0	2
39	MP3A	Mx	0.018	2
40	MP3B	X	42.402	2
41	MP3B	Z	0	2
42	MP3B	Mx	-0.016	2
43	MP3C	X	48.226	2
44	MP3C	Z	0	2
45	MP3C	Mx	-0.012	2
46	MP4A	X	28.817	2
47	MP4A	Z	0	2
48	MP4A	Mx	0.014	2
49	MP4B	X	38.622	2
50	MP4B	Z	0	2
51	MP4B	Mx	-0.015	2
52	MP4C	X	46.616	2
53	MP4C	Z	0	2
54	MP4C	Mx	-0.012	2
55	M128A	X	88.146	1
56	M128A	Z	0	1
57	M128A	Mx	0	1
58	MP3C	X	32.57	3.5
59	MP3C	Z	0	3.5
60	MP3C	Mx	-0.015	3.5
61	MP3C	X	32.57	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	-0.001	3.5
64	MP1A	X	91.517	1.25
65	MP1A	Z	0	1.25
66	MP1A	Mx	-0.046	1.25
67	MP1A	X	91.517	4.25
68	MP1A	Z	0	4.25
69	MP1A	Mx	-0.046	4.25
70	MP1B	X	71.984	1.25
71	MP1B	Z	0	1.25
72	MP1B	Mx	0.028	1.25
73	MP1B	X	71.984	4.25
74	MP1B	Z	0	4.25
75	MP1B	Mx	0.028	4.25
76	MP1C	X	56.061	1.25
77	MP1C	Z	0	1.25
78	MP1C	Mx	0.014	1.25
79	MP1C	X	56.061	4.25
80	MP1C	Z	0	4.25
81	MP1C	Mx	0.014	4.25
82	MP5A	X	91.517	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	0	1.25
84	MP5A	Mx	-0.046	1.25
85	MP5A	X	91.517	4.25
86	MP5A	Z	0	4.25
87	MP5A	Mx	-0.046	4.25
88	MP5B	X	71.984	1.25
89	MP5B	Z	0	1.25
90	MP5B	Mx	0.028	1.25
91	MP5B	X	71.984	4.25
92	MP5B	Z	0	4.25
93	MP5B	Mx	0.028	4.25
94	MP5C	X	56.061	1.25
95	MP5C	Z	0	1.25
96	MP5C	Mx	0.014	1.25
97	MP5C	X	56.061	4.25
98	MP5C	Z	0	4.25
99	MP5C	Mx	0.014	4.25
100	MP3A	X	8.679	5.5
101	MP3A	Z	0	5.5
102	MP3A	Mx	0.004	5.5
103	MP3B	X	10.276	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	-0.004	5.5
106	MP3C	X	11.578	5.5
107	MP3C	Z	0	5.5
108	MP3C	Mx	-0.003	5.5
109	M128A	X	88.146	1
110	M128A	Z	0	1
111	M128A	Mx	0	1
112	MP2A	X	22.884	3.75
113	MP2A	Z	0	3.75
114	MP2A	Mx	-0.011	3.75
115	MP2A	X	22.884	5.75
116	MP2A	Z	0	5.75
117	MP2A	Mx	-0.011	5.75
118	M137	Z	0	5.75
119	M137	X	22.884	5.75
120	M137	Mx	-0.011	3.75
121	M137	Z	0	3.75
122	M137	Mx	-0.011	5.75
123	M137	X	22.884	3.75
124	M140	Z	0	5.75
125	M140	X	22.884	5.75
126	M140	Mx	-0.011	3.75
127	M140	Z	0	3.75
128	M140	Mx	-0.011	5.75
129	M140	X	22.884	3.75
130	M141	Z	0	1
131	M141	Mx	0	1
132	M141	Z	0	1
133	M141	X	88.146	1
134	M141	X	88.146	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	99.311	1
2	MP3A	Z	57.337	1
3	MP3A	Mx	-0.088	1
4	MP3A	X	99.311	5
5	MP3A	Z	57.337	5
6	MP3A	Mx	-0.088	5
7	MP3B	X	128.367	1
8	MP3B	Z	74.113	1
9	MP3B	Mx	0.118	1
10	MP3B	X	128.367	5
11	MP3B	Z	74.113	5
12	MP3B	Mx	0.118	5
13	MP3C	X	99.311	1
14	MP3C	Z	57.337	1
15	MP3C	Mx	0.011	1
16	MP3C	X	99.311	5
17	MP3C	Z	57.337	5
18	MP3C	Mx	0.011	5
19	MP3A	X	99.311	1
20	MP3A	Z	57.337	1
21	MP3A	Mx	-0.011	1
22	MP3A	X	99.311	5
23	MP3A	Z	57.337	5
24	MP3A	Mx	-0.011	5
25	MP3B	X	128.367	1
26	MP3B	Z	74.113	1
27	MP3B	Mx	-0.068	1
28	MP3B	X	128.367	5
29	MP3B	Z	74.113	5
30	MP3B	Mx	-0.068	5
31	MP3C	X	99.311	1
32	MP3C	Z	57.337	1
33	MP3C	Mx	0.088	1
34	MP3C	X	99.311	5
35	MP3C	Z	57.337	5
36	MP3C	Mx	0.088	5
37	MP3A	X	34.278	2
38	MP3A	Z	19.79	2
39	MP3A	Mx	0.017	2
40	MP3B	X	43.757	2
41	MP3B	Z	25.263	2
42	MP3B	Mx	-0.009	2
43	MP3C	X	34.278	2
44	MP3C	Z	19.79	2
45	MP3C	Mx	-0.017	2
46	MP4A	X	30.094	2
47	MP4A	Z	17.375	2
48	MP4A	Mx	0.015	2
49	MP4B	X	43.104	2
50	MP4B	Z	24.886	2
51	MP4B	Mx	-0.009	2
52	MP4C	X	30.094	2
53	MP4C	Z	17.375	2
54	MP4C	Mx	-0.015	2
55	M128A	X	87.494	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	50.514	1
57	M128A	Mx	0	1
58	MP3C	X	28.248	3.5
59	MP3C	Z	16.309	3.5
60	MP3C	Mx	-0.018	3.5
61	MP3C	X	28.248	3.5
62	MP3C	Z	16.309	3.5
63	MP3C	Mx	-0.01	3.5
64	MP1A	X	69.021	1.25
65	MP1A	Z	39.849	1.25
66	MP1A	Mx	-0.035	1.25
67	MP1A	X	69.021	4.25
68	MP1A	Z	39.849	4.25
69	MP1A	Mx	-0.035	4.25
70	MP1B	X	43.104	1.25
71	MP1B	Z	24.886	1.25
72	MP1B	Mx	0.009	1.25
73	MP1B	X	43.104	4.25
74	MP1B	Z	24.886	4.25
75	MP1B	Mx	0.009	4.25
76	MP1C	X	69.021	1.25
77	MP1C	Z	39.849	1.25
78	MP1C	Mx	0.035	1.25
79	MP1C	X	69.021	4.25
80	MP1C	Z	39.849	4.25
81	MP1C	Mx	0.035	4.25
82	MP5A	X	69.021	1.25
83	MP5A	Z	39.849	1.25
84	MP5A	Mx	-0.035	1.25
85	MP5A	X	69.021	4.25
86	MP5A	Z	39.849	4.25
87	MP5A	Mx	-0.035	4.25
88	MP5B	X	43.104	1.25
89	MP5B	Z	24.886	1.25
90	MP5B	Mx	0.009	1.25
91	MP5B	X	43.104	4.25
92	MP5B	Z	24.886	4.25
93	MP5B	Mx	0.009	4.25
94	MP5C	X	69.021	1.25
95	MP5C	Z	39.849	1.25
96	MP5C	Mx	0.035	1.25
97	MP5C	X	69.021	4.25
98	MP5C	Z	39.849	4.25
99	MP5C	Mx	0.035	4.25
100	MP3A	X	8.353	5.5
101	MP3A	Z	4.823	5.5
102	MP3A	Mx	0.004	5.5
103	MP3B	X	10.472	5.5
104	MP3B	Z	6.046	5.5
105	MP3B	Mx	-0.002	5.5
106	MP3C	X	8.353	5.5
107	MP3C	Z	4.823	5.5
108	MP3C	Mx	-0.004	5.5
109	M128A	X	87.494	1
110	M128A	Z	50.514	1



Company :
 Designer :
 Job Number :
 Model Name :

3/10/2025
 3:12:18 PM
 Checked By : _____

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	29.25	3.75
113	MP2A	Z	16.888	3.75
114	MP2A	Mx	-0.015	3.75
115	MP2A	X	29.25	5.75
116	MP2A	Z	16.888	5.75
117	MP2A	Mx	-0.015	5.75
118	M137	X	29.25	3.75
119	M137	Mx	-0.015	5.75
120	M137	Z	16.888	3.75
121	M137	X	29.25	5.75
122	M137	Z	16.888	5.75
123	M137	Mx	-0.015	3.75
124	M140	X	29.25	3.75
125	M140	Mx	-0.015	5.75
126	M140	Z	16.888	3.75
127	M140	X	29.25	5.75
128	M140	Z	16.888	5.75
129	M140	Mx	-0.015	3.75
130	M141	Mx	0	1
131	M141	Mx	0	1
132	M141	X	87.494	1
133	M141	Z	50.514	1
134	M141	Z	50.514	1
135	M141	X	87.494	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	70.587	1
2	MP3A	Z	122.261	1
3	MP3A	Mx	-0.117	1
4	MP3A	X	70.587	5
5	MP3A	Z	122.261	5
6	MP3A	Mx	-0.117	5
7	MP3B	X	76.413	1
8	MP3B	Z	132.352	1
9	MP3B	Mx	0.087	1
10	MP3B	X	76.413	5
11	MP3B	Z	132.352	5
12	MP3B	Mx	0.087	5
13	MP3C	X	50.712	1
14	MP3C	Z	87.836	1
15	MP3C	Mx	0.051	1
16	MP3C	X	50.712	5
17	MP3C	Z	87.836	5
18	MP3C	Mx	0.051	5
19	MP3A	X	70.587	1
20	MP3A	Z	122.261	1
21	MP3A	Mx	0.046	1
22	MP3A	X	70.587	5
23	MP3A	Z	122.261	5
24	MP3A	Mx	0.046	5
25	MP3B	X	76.413	1
26	MP3B	Z	132.352	1
27	MP3B	Mx	-0.114	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	76.413	5
29	MP3B	Z	132.352	5
30	MP3B	Mx	-0.114	5
31	MP3C	X	50.712	1
32	MP3C	Z	87.836	1
33	MP3C	Mx	0.051	1
34	MP3C	X	50.712	5
35	MP3C	Z	87.836	5
36	MP3C	Mx	0.051	5
37	MP3A	X	24.113	2
38	MP3A	Z	41.765	2
39	MP3A	Mx	0.012	2
40	MP3B	X	26.014	2
41	MP3B	Z	45.057	2
42	MP3B	Mx	0.005	2
43	MP3C	X	17.629	2
44	MP3C	Z	30.535	2
45	MP3C	Mx	-0.018	2
46	MP4A	X	23.308	2
47	MP4A	Z	40.37	2
48	MP4A	Mx	0.012	2
49	MP4B	X	25.917	2
50	MP4B	Z	44.889	2
51	MP4B	Mx	0.004	2
52	MP4C	X	14.408	2
53	MP4C	Z	24.956	2
54	MP4C	Mx	-0.014	2
55	M128A	X	53.735	1
56	M128A	Z	93.072	1
57	M128A	Mx	0	1
58	MP3C	X	16.321	3.5
59	MP3C	Z	28.269	3.5
60	MP3C	Mx	-0.016	3.5
61	MP3C	X	16.321	3.5
62	MP3C	Z	28.269	3.5
63	MP3C	Mx	-0.016	3.5
64	MP1A	X	28.031	1.25
65	MP1A	Z	48.55	1.25
66	MP1A	Mx	-0.014	1.25
67	MP1A	X	28.031	4.25
68	MP1A	Z	48.55	4.25
69	MP1A	Mx	-0.014	4.25
70	MP1B	X	22.834	1.25
71	MP1B	Z	39.55	1.25
72	MP1B	Mx	-0.004	1.25
73	MP1B	X	22.834	4.25
74	MP1B	Z	39.55	4.25
75	MP1B	Mx	-0.004	4.25
76	MP1C	X	45.759	1.25
77	MP1C	Z	79.256	1.25
78	MP1C	Mx	0.046	1.25
79	MP1C	X	45.759	4.25
80	MP1C	Z	79.256	4.25
81	MP1C	Mx	0.046	4.25
82	MP5A	X	28.031	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	48.55	1.25
84	MP5A	Mx	-0.014	1.25
85	MP5A	X	28.031	4.25
86	MP5A	Z	48.55	4.25
87	MP5A	Mx	-0.014	4.25
88	MP5B	X	22.834	1.25
89	MP5B	Z	39.55	1.25
90	MP5B	Mx	-0.004	1.25
91	MP5B	X	22.834	4.25
92	MP5B	Z	39.55	4.25
93	MP5B	Mx	-0.004	4.25
94	MP5C	X	45.759	1.25
95	MP5C	Z	79.256	1.25
96	MP5C	Mx	0.046	1.25
97	MP5C	X	45.759	4.25
98	MP5C	Z	79.256	4.25
99	MP5C	Mx	0.046	4.25
100	MP3A	X	5.789	5.5
101	MP3A	Z	10.027	5.5
102	MP3A	Mx	0.003	5.5
103	MP3B	X	6.214	5.5
104	MP3B	Z	10.762	5.5
105	MP3B	Mx	0.001	5.5
106	MP3C	X	4.339	5.5
107	MP3C	Z	7.516	5.5
108	MP3C	Mx	-0.004	5.5
109	M128A	X	53.735	1
110	M128A	Z	93.072	1
111	M128A	Mx	0	1
112	MP2A	X	27.779	3.75
113	MP2A	Z	48.114	3.75
114	MP2A	Mx	-0.014	3.75
115	MP2A	X	27.779	5.75
116	MP2A	Z	48.114	5.75
117	MP2A	Mx	-0.014	5.75
118	M137	X	27.779	3.75
119	M137	X	27.779	5.75
120	M137	Z	48.114	5.75
121	M137	Mx	-0.014	5.75
122	M137	Mx	-0.014	3.75
123	M137	Z	48.114	3.75
124	M140	X	27.779	3.75
125	M140	X	27.779	5.75
126	M140	Z	48.114	5.75
127	M140	Mx	-0.014	5.75
128	M140	Mx	-0.014	3.75
129	M140	Z	48.114	3.75
130	M141	X	53.735	1
131	M141	Mx	0	1
132	M141	Z	93.072	1
133	M141	X	53.735	1
134	M141	Z	93.072	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1
2	MP3A	Z	154.425	1
3	MP3A	Mx	-0.103	1
4	MP3A	X	0	5
5	MP3A	Z	154.425	5
6	MP3A	Mx	-0.103	5
7	MP3B	X	0	1
8	MP3B	Z	132.527	1
9	MP3B	Mx	0.025	1
10	MP3B	X	0	5
11	MP3B	Z	132.527	5
12	MP3B	Mx	0.025	5
13	MP3C	X	0	1
14	MP3C	Z	114.675	1
15	MP3C	Mx	0.088	1
16	MP3C	X	0	5
17	MP3C	Z	114.675	5
18	MP3C	Mx	0.088	5
19	MP3A	X	0	1
20	MP3A	Z	154.425	1
21	MP3A	Mx	0.103	1
22	MP3A	X	0	5
23	MP3A	Z	154.425	5
24	MP3A	Mx	0.103	5
25	MP3B	X	0	1
26	MP3B	Z	132.527	1
27	MP3B	Mx	-0.11	1
28	MP3B	X	0	5
29	MP3B	Z	132.527	5
30	MP3B	Mx	-0.11	5
31	MP3C	X	0	1
32	MP3C	Z	114.675	1
33	MP3C	Mx	0.011	1
34	MP3C	X	0	5
35	MP3C	Z	114.675	5
36	MP3C	Mx	0.011	5
37	MP3A	X	0	2
38	MP3A	Z	52.549	2
39	MP3A	Mx	0	2
40	MP3B	X	0	2
41	MP3B	Z	45.405	2
42	MP3B	Mx	0.015	2
43	MP3C	X	0	2
44	MP3C	Z	39.581	2
45	MP3C	Mx	-0.017	2
46	MP4A	X	0	2
47	MP4A	Z	52.549	2
48	MP4A	Mx	0	2
49	MP4B	X	0	2
50	MP4B	Z	42.743	2
51	MP4B	Mx	0.014	2
52	MP4C	X	0	2
53	MP4C	Z	34.75	2
54	MP4C	Mx	-0.015	2
55	M128A	X	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	101.029	1
57	M128A	Mx	0	1
58	MP3C	X	0	3.5
59	MP3C	Z	32.618	3.5
60	MP3C	Mx	-0.01	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	32.618	3.5
63	MP3C	Mx	-0.018	3.5
64	MP1A	X	0	1.25
65	MP1A	Z	44.243	1.25
66	MP1A	Mx	0	1.25
67	MP1A	X	0	4.25
68	MP1A	Z	44.243	4.25
69	MP1A	Mx	0	4.25
70	MP1B	X	0	1.25
71	MP1B	Z	63.775	1.25
72	MP1B	Mx	-0.02	1.25
73	MP1B	X	0	4.25
74	MP1B	Z	63.775	4.25
75	MP1B	Mx	-0.02	4.25
76	MP1C	X	0	1.25
77	MP1C	Z	79.698	1.25
78	MP1C	Mx	0.035	1.25
79	MP1C	X	0	4.25
80	MP1C	Z	79.698	4.25
81	MP1C	Mx	0.035	4.25
82	MP5A	X	0	1.25
83	MP5A	Z	44.243	1.25
84	MP5A	Mx	0	1.25
85	MP5A	X	0	4.25
86	MP5A	Z	44.243	4.25
87	MP5A	Mx	0	4.25
88	MP5B	X	0	1.25
89	MP5B	Z	63.775	1.25
90	MP5B	Mx	-0.02	1.25
91	MP5B	X	0	4.25
92	MP5B	Z	63.775	4.25
93	MP5B	Mx	-0.02	4.25
94	MP5C	X	0	1.25
95	MP5C	Z	79.698	1.25
96	MP5C	Mx	0.035	1.25
97	MP5C	X	0	4.25
98	MP5C	Z	79.698	4.25
99	MP5C	Mx	0.035	4.25
100	MP3A	X	0	5.5
101	MP3A	Z	12.544	5.5
102	MP3A	Mx	0	5.5
103	MP3B	X	0	5.5
104	MP3B	Z	10.947	5.5
105	MP3B	Mx	0.004	5.5
106	MP3C	X	0	5.5
107	MP3C	Z	9.645	5.5
108	MP3C	Mx	-0.004	5.5
109	M128A	X	0	1
110	M128A	Z	101.029	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	0	3.75
113	MP2A	Z	66.449	3.75
114	MP2A	Mx	0	3.75
115	MP2A	X	0	5.75
116	MP2A	Z	66.449	5.75
117	MP2A	Mx	0	5.75
118	M137	X	0	3.75
119	M137	Mx	0	3.75
120	M137	Z	66.449	5.75
121	M137	Z	66.449	3.75
122	M137	X	0	5.75
123	M137	Mx	0	5.75
124	M140	X	0	3.75
125	M140	Mx	0	3.75
126	M140	Z	66.449	5.75
127	M140	Z	66.449	3.75
128	M140	X	0	5.75
129	M140	Mx	0	5.75
130	M141	Z	101.029	1
131	M141	Mx	0	1
132	M141	Z	101.029	1
133	M141	X	0	1
134	M141	X	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-70.587	1
2	MP3A	Z	122.261	1
3	MP3A	Mx	-0.046	1
4	MP3A	X	-70.587	5
5	MP3A	Z	122.261	5
6	MP3A	Mx	-0.046	5
7	MP3B	X	-53.812	1
8	MP3B	Z	93.205	1
9	MP3B	Mx	-0.026	1
10	MP3B	X	-53.812	5
11	MP3B	Z	93.205	5
12	MP3B	Mx	-0.026	5
13	MP3C	X	-70.587	1
14	MP3C	Z	122.261	1
15	MP3C	Mx	0.117	1
16	MP3C	X	-70.587	5
17	MP3C	Z	122.261	5
18	MP3C	Mx	0.117	5
19	MP3A	X	-70.587	1
20	MP3A	Z	122.261	1
21	MP3A	Mx	0.117	1
22	MP3A	X	-70.587	5
23	MP3A	Z	122.261	5
24	MP3A	Mx	0.117	5
25	MP3B	X	-53.812	1
26	MP3B	Z	93.205	1
27	MP3B	Mx	-0.075	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-53.812	5
29	MP3B	Z	93.205	5
30	MP3B	Mx	-0.075	5
31	MP3C	X	-70.587	1
32	MP3C	Z	122.261	1
33	MP3C	Mx	-0.046	1
34	MP3C	X	-70.587	5
35	MP3C	Z	122.261	5
36	MP3C	Mx	-0.046	5
37	MP3A	X	-24.113	2
38	MP3A	Z	41.765	2
39	MP3A	Mx	-0.012	2
40	MP3B	X	-18.641	2
41	MP3B	Z	32.286	2
42	MP3B	Mx	0.018	2
43	MP3C	X	-24.113	2
44	MP3C	Z	41.765	2
45	MP3C	Mx	-0.012	2
46	MP4A	X	-23.308	2
47	MP4A	Z	40.37	2
48	MP4A	Mx	-0.012	2
49	MP4B	X	-15.797	2
50	MP4B	Z	27.36	2
51	MP4B	Mx	0.015	2
52	MP4C	X	-23.308	2
53	MP4C	Z	40.37	2
54	MP4C	Mx	-0.012	2
55	M128A	X	-44.073	1
56	M128A	Z	76.337	1
57	M128A	Mx	0	1
58	MP3C	X	-16.285	3.5
59	MP3C	Z	28.207	3.5
60	MP3C	Mx	-0.001	3.5
61	MP3C	X	-16.285	3.5
62	MP3C	Z	28.207	3.5
63	MP3C	Mx	-0.015	3.5
64	MP1A	X	-28.031	1.25
65	MP1A	Z	48.55	1.25
66	MP1A	Mx	0.014	1.25
67	MP1A	X	-28.031	4.25
68	MP1A	Z	48.55	4.25
69	MP1A	Mx	0.014	4.25
70	MP1B	X	-42.993	1.25
71	MP1B	Z	74.467	1.25
72	MP1B	Mx	-0.04	1.25
73	MP1B	X	-42.993	4.25
74	MP1B	Z	74.467	4.25
75	MP1B	Mx	-0.04	4.25
76	MP1C	X	-28.031	1.25
77	MP1C	Z	48.55	1.25
78	MP1C	Mx	0.014	1.25
79	MP1C	X	-28.031	4.25
80	MP1C	Z	48.55	4.25
81	MP1C	Mx	0.014	4.25
82	MP5A	X	-28.031	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	48.55	1.25
84	MP5A	Mx	0.014	1.25
85	MP5A	X	-28.031	4.25
86	MP5A	Z	48.55	4.25
87	MP5A	Mx	0.014	4.25
88	MP5B	X	-42.993	1.25
89	MP5B	Z	74.467	1.25
90	MP5B	Mx	-0.04	1.25
91	MP5B	X	-42.993	4.25
92	MP5B	Z	74.467	4.25
93	MP5B	Mx	-0.04	4.25
94	MP5C	X	-28.031	1.25
95	MP5C	Z	48.55	1.25
96	MP5C	Mx	0.014	1.25
97	MP5C	X	-28.031	4.25
98	MP5C	Z	48.55	4.25
99	MP5C	Mx	0.014	4.25
100	MP3A	X	-5.789	5.5
101	MP3A	Z	10.027	5.5
102	MP3A	Mx	-0.003	5.5
103	MP3B	X	-4.566	5.5
104	MP3B	Z	7.908	5.5
105	MP3B	Mx	0.004	5.5
106	MP3C	X	-5.789	5.5
107	MP3C	Z	10.027	5.5
108	MP3C	Mx	-0.003	5.5
109	M128A	X	-44.073	1
110	M128A	Z	76.337	1
111	M128A	Mx	0	1
112	MP2A	X	-27.779	3.75
113	MP2A	Z	48.114	3.75
114	MP2A	Mx	0.014	3.75
115	MP2A	X	-27.779	5.75
116	MP2A	Z	48.114	5.75
117	MP2A	Mx	0.014	5.75
118	M137	X	-27.779	5.75
119	M137	Z	48.114	3.75
120	M137	Z	48.114	5.75
121	M137	Mx	0.014	5.75
122	M137	X	-27.779	3.75
123	M137	Mx	0.014	3.75
124	M140	X	-27.779	5.75
125	M140	Z	48.114	3.75
126	M140	Z	48.114	5.75
127	M140	Mx	0.014	5.75
128	M140	X	-27.779	3.75
129	M140	Mx	0.014	3.75
130	M141	Z	76.337	1
131	M141	X	-44.073	1
132	M141	Mx	0	1
133	M141	X	-44.073	1
134	M141	Mx	0	1
135	M141	Z	76.337	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-99.311	1
2	MP3A	Z	57.337	1
3	MP3A	Mx	0.011	1
4	MP3A	X	-99.311	5
5	MP3A	Z	57.337	5
6	MP3A	Mx	0.011	5
7	MP3B	X	-89.22	1
8	MP3B	Z	51.511	1
9	MP3B	Mx	-0.063	1
10	MP3B	X	-89.22	5
11	MP3B	Z	51.511	5
12	MP3B	Mx	-0.063	5
13	MP3C	X	-133.736	1
14	MP3C	Z	77.213	1
15	MP3C	Mx	0.103	1
16	MP3C	X	-133.736	5
17	MP3C	Z	77.213	5
18	MP3C	Mx	0.103	5
19	MP3A	X	-99.311	1
20	MP3A	Z	57.337	1
21	MP3A	Mx	0.088	1
22	MP3A	X	-99.311	5
23	MP3A	Z	57.337	5
24	MP3A	Mx	0.088	5
25	MP3B	X	-89.22	1
26	MP3B	Z	51.511	1
27	MP3B	Mx	-0.039	1
28	MP3B	X	-89.22	5
29	MP3B	Z	51.511	5
30	MP3B	Mx	-0.039	5
31	MP3C	X	-133.736	1
32	MP3C	Z	77.213	1
33	MP3C	Mx	-0.103	1
34	MP3C	X	-133.736	5
35	MP3C	Z	77.213	5
36	MP3C	Mx	-0.103	5
37	MP3A	X	-34.278	2
38	MP3A	Z	19.79	2
39	MP3A	Mx	-0.017	2
40	MP3B	X	-30.986	2
41	MP3B	Z	17.89	2
42	MP3B	Mx	0.018	2
43	MP3C	X	-45.508	2
44	MP3C	Z	26.274	2
45	MP3C	Mx	0	2
46	MP4A	X	-30.094	2
47	MP4A	Z	17.375	2
48	MP4A	Mx	-0.015	2
49	MP4B	X	-25.576	2
50	MP4B	Z	14.766	2
51	MP4B	Mx	0.015	2
52	MP4C	X	-45.508	2
53	MP4C	Z	26.274	2
54	MP4C	Mx	0	2
55	M128A	X	-70.758	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	40.852	1
57	M128A	Mx	0	1
58	MP3C	X	-28.186	3.5
59	MP3C	Z	16.273	3.5
60	MP3C	Mx	0.008	3.5
61	MP3C	X	-28.186	3.5
62	MP3C	Z	16.273	3.5
63	MP3C	Mx	-0.008	3.5
64	MP1A	X	-69.021	1.25
65	MP1A	Z	39.849	1.25
66	MP1A	Mx	0.035	1.25
67	MP1A	X	-69.021	4.25
68	MP1A	Z	39.849	4.25
69	MP1A	Mx	0.035	4.25
70	MP1B	X	-78.022	1.25
71	MP1B	Z	45.046	1.25
72	MP1B	Mx	-0.044	1.25
73	MP1B	X	-78.022	4.25
74	MP1B	Z	45.046	4.25
75	MP1B	Mx	-0.044	4.25
76	MP1C	X	-38.315	1.25
77	MP1C	Z	22.121	1.25
78	MP1C	Mx	0	1.25
79	MP1C	X	-38.315	4.25
80	MP1C	Z	22.121	4.25
81	MP1C	Mx	0	4.25
82	MP5A	X	-69.021	1.25
83	MP5A	Z	39.849	1.25
84	MP5A	Mx	0.035	1.25
85	MP5A	X	-69.021	4.25
86	MP5A	Z	39.849	4.25
87	MP5A	Mx	0.035	4.25
88	MP5B	X	-78.022	1.25
89	MP5B	Z	45.046	1.25
90	MP5B	Mx	-0.044	1.25
91	MP5B	X	-78.022	4.25
92	MP5B	Z	45.046	4.25
93	MP5B	Mx	-0.044	4.25
94	MP5C	X	-38.315	1.25
95	MP5C	Z	22.121	1.25
96	MP5C	Mx	0	1.25
97	MP5C	X	-38.315	4.25
98	MP5C	Z	22.121	4.25
99	MP5C	Mx	0	4.25
100	MP3A	X	-8.353	5.5
101	MP3A	Z	4.823	5.5
102	MP3A	Mx	-0.004	5.5
103	MP3B	X	-7.617	5.5
104	MP3B	Z	4.398	5.5
105	MP3B	Mx	0.004	5.5
106	MP3C	X	-10.863	5.5
107	MP3C	Z	6.272	5.5
108	MP3C	Mx	0	5.5
109	M128A	X	-70.758	1
110	M128A	Z	40.852	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	-29.25	3.75
113	MP2A	Z	16.888	3.75
114	MP2A	Mx	0.015	3.75
115	MP2A	X	-29.25	5.75
116	MP2A	Z	16.888	5.75
117	MP2A	Mx	0.015	5.75
118	M137	Z	16.888	5.75
119	M137	Mx	0.015	5.75
120	M137	Mx	0.015	3.75
121	M137	X	-29.25	3.75
122	M137	Z	16.888	3.75
123	M137	X	-29.25	5.75
124	M140	Z	16.888	5.75
125	M140	Mx	0.015	5.75
126	M140	Mx	0.015	3.75
127	M140	X	-29.25	3.75
128	M140	Z	16.888	3.75
129	M140	X	-29.25	5.75
130	M141	Mx	0	1
131	M141	Mx	0	1
132	M141	Z	40.852	1
133	M141	Z	40.852	1
134	M141	X	-70.758	1
135	M141	X	-70.758	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-101.424	1
2	MP3A	Z	0	1
3	MP3A	Mx	0.051	1
4	MP3A	X	-101.424	5
5	MP3A	Z	0	5
6	MP3A	Mx	0.051	5
7	MP3B	X	-123.323	1
8	MP3B	Z	0	1
9	MP3B	Mx	-0.1	1
10	MP3B	X	-123.323	5
11	MP3B	Z	0	5
12	MP3B	Mx	-0.1	5
13	MP3C	X	-141.175	1
14	MP3C	Z	0	1
15	MP3C	Mx	0.046	1
16	MP3C	X	-141.175	5
17	MP3C	Z	0	5
18	MP3C	Mx	0.046	5
19	MP3A	X	-101.424	1
20	MP3A	Z	0	1
21	MP3A	Mx	0.051	1
22	MP3A	X	-101.424	5
23	MP3A	Z	0	5
24	MP3A	Mx	0.051	5
25	MP3B	X	-123.323	1
26	MP3B	Z	0	1
27	MP3B	Mx	0.006	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-123.323	5
29	MP3B	Z	0	5
30	MP3B	Mx	0.006	5
31	MP3C	X	-141.175	1
32	MP3C	Z	0	1
33	MP3C	Mx	-0.117	1
34	MP3C	X	-141.175	5
35	MP3C	Z	0	5
36	MP3C	Mx	-0.117	5
37	MP3A	X	-35.258	2
38	MP3A	Z	0	2
39	MP3A	Mx	-0.018	2
40	MP3B	X	-42.402	2
41	MP3B	Z	0	2
42	MP3B	Mx	0.016	2
43	MP3C	X	-48.226	2
44	MP3C	Z	0	2
45	MP3C	Mx	0.012	2
46	MP4A	X	-28.817	2
47	MP4A	Z	0	2
48	MP4A	Mx	-0.014	2
49	MP4B	X	-38.622	2
50	MP4B	Z	0	2
51	MP4B	Mx	0.015	2
52	MP4C	X	-46.616	2
53	MP4C	Z	0	2
54	MP4C	Mx	0.012	2
55	M128A	X	-88.146	1
56	M128A	Z	0	1
57	M128A	Mx	0	1
58	MP3C	X	-32.57	3.5
59	MP3C	Z	0	3.5
60	MP3C	Mx	0.015	3.5
61	MP3C	X	-32.57	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	0.001	3.5
64	MP1A	X	-91.517	1.25
65	MP1A	Z	0	1.25
66	MP1A	Mx	0.046	1.25
67	MP1A	X	-91.517	4.25
68	MP1A	Z	0	4.25
69	MP1A	Mx	0.046	4.25
70	MP1B	X	-71.984	1.25
71	MP1B	Z	0	1.25
72	MP1B	Mx	-0.028	1.25
73	MP1B	X	-71.984	4.25
74	MP1B	Z	0	4.25
75	MP1B	Mx	-0.028	4.25
76	MP1C	X	-56.061	1.25
77	MP1C	Z	0	1.25
78	MP1C	Mx	-0.014	1.25
79	MP1C	X	-56.061	4.25
80	MP1C	Z	0	4.25
81	MP1C	Mx	-0.014	4.25
82	MP5A	X	-91.517	1.25



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	0	1.25
84	MP5A	Mx	0.046	1.25
85	MP5A	X	-91.517	4.25
86	MP5A	Z	0	4.25
87	MP5A	Mx	0.046	4.25
88	MP5B	X	-71.984	1.25
89	MP5B	Z	0	1.25
90	MP5B	Mx	-0.028	1.25
91	MP5B	X	-71.984	4.25
92	MP5B	Z	0	4.25
93	MP5B	Mx	-0.028	4.25
94	MP5C	X	-56.061	1.25
95	MP5C	Z	0	1.25
96	MP5C	Mx	-0.014	1.25
97	MP5C	X	-56.061	4.25
98	MP5C	Z	0	4.25
99	MP5C	Mx	-0.014	4.25
100	MP3A	X	-8.679	5.5
101	MP3A	Z	0	5.5
102	MP3A	Mx	-0.004	5.5
103	MP3B	X	-10.276	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	0.004	5.5
106	MP3C	X	-11.578	5.5
107	MP3C	Z	0	5.5
108	MP3C	Mx	0.003	5.5
109	M128A	X	-88.146	1
110	M128A	Z	0	1
111	M128A	Mx	0	1
112	MP2A	X	-22.884	3.75
113	MP2A	Z	0	3.75
114	MP2A	Mx	0.011	3.75
115	MP2A	X	-22.884	5.75
116	MP2A	Z	0	5.75
117	MP2A	Mx	0.011	5.75
118	M137	X	-22.884	5.75
119	M137	X	-22.884	3.75
120	M137	Z	0	3.75
121	M137	Mx	0.011	3.75
122	M137	Mx	0.011	5.75
123	M137	Z	0	5.75
124	M140	X	-22.884	5.75
125	M140	X	-22.884	3.75
126	M140	Z	0	3.75
127	M140	Mx	0.011	3.75
128	M140	Mx	0.011	5.75
129	M140	Z	0	5.75
130	M141	X	-88.146	1
131	M141	Z	0	1
132	M141	Z	0	1
133	M141	Mx	0	1
134	M141	Mx	0	1
135	M141	X	-88.146	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-99.311	1
2	MP3A	Z	-57.337	1
3	MP3A	Mx	0.088	1
4	MP3A	X	-99.311	5
5	MP3A	Z	-57.337	5
6	MP3A	Mx	0.088	5
7	MP3B	X	-128.367	1
8	MP3B	Z	-74.113	1
9	MP3B	Mx	-0.118	1
10	MP3B	X	-128.367	5
11	MP3B	Z	-74.113	5
12	MP3B	Mx	-0.118	5
13	MP3C	X	-99.311	1
14	MP3C	Z	-57.337	1
15	MP3C	Mx	-0.011	1
16	MP3C	X	-99.311	5
17	MP3C	Z	-57.337	5
18	MP3C	Mx	-0.011	5
19	MP3A	X	-99.311	1
20	MP3A	Z	-57.337	1
21	MP3A	Mx	0.011	1
22	MP3A	X	-99.311	5
23	MP3A	Z	-57.337	5
24	MP3A	Mx	0.011	5
25	MP3B	X	-128.367	1
26	MP3B	Z	-74.113	1
27	MP3B	Mx	0.068	1
28	MP3B	X	-128.367	5
29	MP3B	Z	-74.113	5
30	MP3B	Mx	0.068	5
31	MP3C	X	-99.311	1
32	MP3C	Z	-57.337	1
33	MP3C	Mx	-0.088	1
34	MP3C	X	-99.311	5
35	MP3C	Z	-57.337	5
36	MP3C	Mx	-0.088	5
37	MP3A	X	-34.278	2
38	MP3A	Z	-19.79	2
39	MP3A	Mx	-0.017	2
40	MP3B	X	-43.757	2
41	MP3B	Z	-25.263	2
42	MP3B	Mx	0.009	2
43	MP3C	X	-34.278	2
44	MP3C	Z	-19.79	2
45	MP3C	Mx	0.017	2
46	MP4A	X	-30.094	2
47	MP4A	Z	-17.375	2
48	MP4A	Mx	-0.015	2
49	MP4B	X	-43.104	2
50	MP4B	Z	-24.886	2
51	MP4B	Mx	0.009	2
52	MP4C	X	-30.094	2
53	MP4C	Z	-17.375	2
54	MP4C	Mx	0.015	2
55	M128A	X	-87.494	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-50.514	1
57	M128A	Mx	0	1
58	MP3C	X	-28.248	3.5
59	MP3C	Z	-16.309	3.5
60	MP3C	Mx	0.018	3.5
61	MP3C	X	-28.248	3.5
62	MP3C	Z	-16.309	3.5
63	MP3C	Mx	0.01	3.5
64	MP1A	X	-69.021	1.25
65	MP1A	Z	-39.849	1.25
66	MP1A	Mx	0.035	1.25
67	MP1A	X	-69.021	4.25
68	MP1A	Z	-39.849	4.25
69	MP1A	Mx	0.035	4.25
70	MP1B	X	-43.104	1.25
71	MP1B	Z	-24.886	1.25
72	MP1B	Mx	-0.009	1.25
73	MP1B	X	-43.104	4.25
74	MP1B	Z	-24.886	4.25
75	MP1B	Mx	-0.009	4.25
76	MP1C	X	-69.021	1.25
77	MP1C	Z	-39.849	1.25
78	MP1C	Mx	-0.035	1.25
79	MP1C	X	-69.021	4.25
80	MP1C	Z	-39.849	4.25
81	MP1C	Mx	-0.035	4.25
82	MP5A	X	-69.021	1.25
83	MP5A	Z	-39.849	1.25
84	MP5A	Mx	0.035	1.25
85	MP5A	X	-69.021	4.25
86	MP5A	Z	-39.849	4.25
87	MP5A	Mx	0.035	4.25
88	MP5B	X	-43.104	1.25
89	MP5B	Z	-24.886	1.25
90	MP5B	Mx	-0.009	1.25
91	MP5B	X	-43.104	4.25
92	MP5B	Z	-24.886	4.25
93	MP5B	Mx	-0.009	4.25
94	MP5C	X	-69.021	1.25
95	MP5C	Z	-39.849	1.25
96	MP5C	Mx	-0.035	1.25
97	MP5C	X	-69.021	4.25
98	MP5C	Z	-39.849	4.25
99	MP5C	Mx	-0.035	4.25
100	MP3A	X	-8.353	5.5
101	MP3A	Z	-4.823	5.5
102	MP3A	Mx	-0.004	5.5
103	MP3B	X	-10.472	5.5
104	MP3B	Z	-6.046	5.5
105	MP3B	Mx	0.002	5.5
106	MP3C	X	-8.353	5.5
107	MP3C	Z	-4.823	5.5
108	MP3C	Mx	0.004	5.5
109	M128A	X	-87.494	1
110	M128A	Z	-50.514	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	-29.25	3.75
113	MP2A	Z	-16.888	3.75
114	MP2A	Mx	0.015	3.75
115	MP2A	X	-29.25	5.75
116	MP2A	Z	-16.888	5.75
117	MP2A	Mx	0.015	5.75
118	M137	Mx	0.015	5.75
119	M137	Z	-16.888	5.75
120	M137	Z	-16.888	3.75
121	M137	X	-29.25	3.75
122	M137	X	-29.25	5.75
123	M137	Mx	0.015	3.75
124	M140	Mx	0.015	5.75
125	M140	Z	-16.888	5.75
126	M140	Z	-16.888	3.75
127	M140	X	-29.25	3.75
128	M140	X	-29.25	5.75
129	M140	Mx	0.015	3.75
130	M141	X	-87.494	1
131	M141	Mx	0	1
132	M141	X	-87.494	1
133	M141	Z	-50.514	1
134	M141	Mx	0	1
135	M141	Z	-50.514	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-70.587	1
2	MP3A	Z	-122.261	1
3	MP3A	Mx	0.117	1
4	MP3A	X	-70.587	5
5	MP3A	Z	-122.261	5
6	MP3A	Mx	0.117	5
7	MP3B	X	-76.413	1
8	MP3B	Z	-132.352	1
9	MP3B	Mx	-0.087	1
10	MP3B	X	-76.413	5
11	MP3B	Z	-132.352	5
12	MP3B	Mx	-0.087	5
13	MP3C	X	-50.712	1
14	MP3C	Z	-87.836	1
15	MP3C	Mx	-0.051	1
16	MP3C	X	-50.712	5
17	MP3C	Z	-87.836	5
18	MP3C	Mx	-0.051	5
19	MP3A	X	-70.587	1
20	MP3A	Z	-122.261	1
21	MP3A	Mx	-0.046	1
22	MP3A	X	-70.587	5
23	MP3A	Z	-122.261	5
24	MP3A	Mx	-0.046	5
25	MP3B	X	-76.413	1
26	MP3B	Z	-132.352	1
27	MP3B	Mx	0.114	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-76.413	5
29	MP3B	Z	-132.352	5
30	MP3B	Mx	0.114	5
31	MP3C	X	-50.712	1
32	MP3C	Z	-87.836	1
33	MP3C	Mx	-0.051	1
34	MP3C	X	-50.712	5
35	MP3C	Z	-87.836	5
36	MP3C	Mx	-0.051	5
37	MP3A	X	-24.113	2
38	MP3A	Z	-41.765	2
39	MP3A	Mx	-0.012	2
40	MP3B	X	-26.014	2
41	MP3B	Z	-45.057	2
42	MP3B	Mx	-0.005	2
43	MP3C	X	-17.629	2
44	MP3C	Z	-30.535	2
45	MP3C	Mx	0.018	2
46	MP4A	X	-23.308	2
47	MP4A	Z	-40.37	2
48	MP4A	Mx	-0.012	2
49	MP4B	X	-25.917	2
50	MP4B	Z	-44.889	2
51	MP4B	Mx	-0.004	2
52	MP4C	X	-14.408	2
53	MP4C	Z	-24.956	2
54	MP4C	Mx	0.014	2
55	M128A	X	-53.735	1
56	M128A	Z	-93.072	1
57	M128A	Mx	0	1
58	MP3C	X	-16.321	3.5
59	MP3C	Z	-28.269	3.5
60	MP3C	Mx	0.016	3.5
61	MP3C	X	-16.321	3.5
62	MP3C	Z	-28.269	3.5
63	MP3C	Mx	0.016	3.5
64	MP1A	X	-28.031	1.25
65	MP1A	Z	-48.55	1.25
66	MP1A	Mx	0.014	1.25
67	MP1A	X	-28.031	4.25
68	MP1A	Z	-48.55	4.25
69	MP1A	Mx	0.014	4.25
70	MP1B	X	-22.834	1.25
71	MP1B	Z	-39.55	1.25
72	MP1B	Mx	0.004	1.25
73	MP1B	X	-22.834	4.25
74	MP1B	Z	-39.55	4.25
75	MP1B	Mx	0.004	4.25
76	MP1C	X	-45.759	1.25
77	MP1C	Z	-79.256	1.25
78	MP1C	Mx	-0.046	1.25
79	MP1C	X	-45.759	4.25
80	MP1C	Z	-79.256	4.25
81	MP1C	Mx	-0.046	4.25
82	MP5A	X	-28.031	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	-48.55	1.25
84	MP5A	Mx	0.014	1.25
85	MP5A	X	-28.031	4.25
86	MP5A	Z	-48.55	4.25
87	MP5A	Mx	0.014	4.25
88	MP5B	X	-22.834	1.25
89	MP5B	Z	-39.55	1.25
90	MP5B	Mx	0.004	1.25
91	MP5B	X	-22.834	4.25
92	MP5B	Z	-39.55	4.25
93	MP5B	Mx	0.004	4.25
94	MP5C	X	-45.759	1.25
95	MP5C	Z	-79.256	1.25
96	MP5C	Mx	-0.046	1.25
97	MP5C	X	-45.759	4.25
98	MP5C	Z	-79.256	4.25
99	MP5C	Mx	-0.046	4.25
100	MP3A	X	-5.789	5.5
101	MP3A	Z	-10.027	5.5
102	MP3A	Mx	-0.003	5.5
103	MP3B	X	-6.214	5.5
104	MP3B	Z	-10.762	5.5
105	MP3B	Mx	-0.001	5.5
106	MP3C	X	-4.339	5.5
107	MP3C	Z	-7.516	5.5
108	MP3C	Mx	0.004	5.5
109	M128A	X	-53.735	1
110	M128A	Z	-93.072	1
111	M128A	Mx	0	1
112	MP2A	X	-27.779	3.75
113	MP2A	Z	-48.114	3.75
114	MP2A	Mx	0.014	3.75
115	MP2A	X	-27.779	5.75
116	MP2A	Z	-48.114	5.75
117	MP2A	Mx	0.014	5.75
118	M137	X	-27.779	5.75
119	M137	Z	-48.114	3.75
120	M137	Z	-48.114	5.75
121	M137	Mx	0.014	3.75
122	M137	Mx	0.014	5.75
123	M137	X	-27.779	3.75
124	M140	X	-27.779	5.75
125	M140	Z	-48.114	3.75
126	M140	Z	-48.114	5.75
127	M140	Mx	0.014	3.75
128	M140	Mx	0.014	5.75
129	M140	X	-27.779	3.75
130	M141	Mx	0	1
131	M141	Z	-93.072	1
132	M141	X	-53.735	1
133	M141	Mx	0	1
134	M141	X	-53.735	1
135	M141	Z	-93.072	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1
2	MP3A	Z	-29.888	1
3	MP3A	Mx	0.02	1
4	MP3A	X	0	5
5	MP3A	Z	-29.888	5
6	MP3A	Mx	0.02	5
7	MP3B	X	0	1
8	MP3B	Z	-25.964	1
9	MP3B	Mx	-0.005	1
10	MP3B	X	0	5
11	MP3B	Z	-25.964	5
12	MP3B	Mx	-0.005	5
13	MP3C	X	0	1
14	MP3C	Z	-22.765	1
15	MP3C	Mx	-0.017	1
16	MP3C	X	0	5
17	MP3C	Z	-22.765	5
18	MP3C	Mx	-0.017	5
19	MP3A	X	0	1
20	MP3A	Z	-29.888	1
21	MP3A	Mx	-0.02	1
22	MP3A	X	0	5
23	MP3A	Z	-29.888	5
24	MP3A	Mx	-0.02	5
25	MP3B	X	0	1
26	MP3B	Z	-25.964	1
27	MP3B	Mx	0.022	1
28	MP3B	X	0	5
29	MP3B	Z	-25.964	5
30	MP3B	Mx	0.022	5
31	MP3C	X	0	1
32	MP3C	Z	-22.765	1
33	MP3C	Mx	-0.002	1
34	MP3C	X	0	5
35	MP3C	Z	-22.765	5
36	MP3C	Mx	-0.002	5
37	MP3A	X	0	2
38	MP3A	Z	-13.403	2
39	MP3A	Mx	0	2
40	MP3B	X	0	2
41	MP3B	Z	-11.718	2
42	MP3B	Mx	-0.004	2
43	MP3C	X	0	2
44	MP3C	Z	-10.344	2
45	MP3C	Mx	0.004	2
46	MP4A	X	0	2
47	MP4A	Z	-13.403	2
48	MP4A	Mx	0	2
49	MP4B	X	0	2
50	MP4B	Z	-11.078	2
51	MP4B	Mx	-0.004	2
52	MP4C	X	0	2
53	MP4C	Z	-9.182	2
54	MP4C	Mx	0.004	2
55	M128A	X	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-26.037	1
57	M128A	Mx	0	1
58	MP3C	X	0	3.5
59	MP3C	Z	-6.222	3.5
60	MP3C	Mx	0.002	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	-6.222	3.5
63	MP3C	Mx	0.003	3.5
64	MP1A	X	0	1.25
65	MP1A	Z	-9.475	1.25
66	MP1A	Mx	0	1.25
67	MP1A	X	0	4.25
68	MP1A	Z	-9.475	4.25
69	MP1A	Mx	0	4.25
70	MP1B	X	0	1.25
71	MP1B	Z	-13.038	1.25
72	MP1B	Mx	0.004	1.25
73	MP1B	X	0	4.25
74	MP1B	Z	-13.038	4.25
75	MP1B	Mx	0.004	4.25
76	MP1C	X	0	1.25
77	MP1C	Z	-15.942	1.25
78	MP1C	Mx	-0.007	1.25
79	MP1C	X	0	4.25
80	MP1C	Z	-15.942	4.25
81	MP1C	Mx	-0.007	4.25
82	MP5A	X	0	1.25
83	MP5A	Z	-9.475	1.25
84	MP5A	Mx	0	1.25
85	MP5A	X	0	4.25
86	MP5A	Z	-9.475	4.25
87	MP5A	Mx	0	4.25
88	MP5B	X	0	1.25
89	MP5B	Z	-13.038	1.25
90	MP5B	Mx	0.004	1.25
91	MP5B	X	0	4.25
92	MP5B	Z	-13.038	4.25
93	MP5B	Mx	0.004	4.25
94	MP5C	X	0	1.25
95	MP5C	Z	-15.942	1.25
96	MP5C	Mx	-0.007	1.25
97	MP5C	X	0	4.25
98	MP5C	Z	-15.942	4.25
99	MP5C	Mx	-0.007	4.25
100	MP3A	X	0	5.5
101	MP3A	Z	-3.256	5.5
102	MP3A	Mx	0	5.5
103	MP3B	X	0	5.5
104	MP3B	Z	-2.921	5.5
105	MP3B	Mx	-0.000939	5.5
106	MP3C	X	0	5.5
107	MP3C	Z	-2.647	5.5
108	MP3C	Mx	0.001	5.5
109	M128A	X	0	1
110	M128A	Z	-26.037	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	0	3.75
113	MP2A	Z	-15.898	3.75
114	MP2A	Mx	0	3.75
115	MP2A	X	0	5.75
116	MP2A	Z	-15.898	5.75
117	MP2A	Mx	0	5.75
118	M137	Z	-15.898	3.75
119	M137	Mx	0	3.75
120	M137	Z	-15.898	5.75
121	M137	Mx	0	5.75
122	M137	X	0	3.75
123	M137	X	0	5.75
124	M140	Z	-15.898	3.75
125	M140	Mx	0	3.75
126	M140	Z	-15.898	5.75
127	M140	Mx	0	5.75
128	M140	X	0	3.75
129	M140	X	0	5.75
130	M141	Z	-26.037	1
131	M141	X	0	1
132	M141	Mx	0	1
133	M141	X	0	1
134	M141	Z	-26.037	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	13.757	1
2	MP3A	Z	-23.827	1
3	MP3A	Mx	0.009	1
4	MP3A	X	13.757	5
5	MP3A	Z	-23.827	5
6	MP3A	Mx	0.009	5
7	MP3B	X	10.751	1
8	MP3B	Z	-18.621	1
9	MP3B	Mx	0.005	1
10	MP3B	X	10.751	5
11	MP3B	Z	-18.621	5
12	MP3B	Mx	0.005	5
13	MP3C	X	13.757	1
14	MP3C	Z	-23.827	1
15	MP3C	Mx	-0.023	1
16	MP3C	X	13.757	5
17	MP3C	Z	-23.827	5
18	MP3C	Mx	-0.023	5
19	MP3A	X	13.757	1
20	MP3A	Z	-23.827	1
21	MP3A	Mx	-0.023	1
22	MP3A	X	13.757	5
23	MP3A	Z	-23.827	5
24	MP3A	Mx	-0.023	5
25	MP3B	X	10.751	1
26	MP3B	Z	-18.621	1
27	MP3B	Mx	0.015	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	10.751	5
29	MP3B	Z	-18.621	5
30	MP3B	Mx	0.015	5
31	MP3C	X	13.757	1
32	MP3C	Z	-23.827	1
33	MP3C	Mx	0.009	1
34	MP3C	X	13.757	5
35	MP3C	Z	-23.827	5
36	MP3C	Mx	0.009	5
37	MP3A	X	6.192	2
38	MP3A	Z	-10.724	2
39	MP3A	Mx	0.003	2
40	MP3B	X	4.901	2
41	MP3B	Z	-8.489	2
42	MP3B	Mx	-0.005	2
43	MP3C	X	6.192	2
44	MP3C	Z	-10.724	2
45	MP3C	Mx	0.003	2
46	MP4A	X	5.998	2
47	MP4A	Z	-10.389	2
48	MP4A	Mx	0.003	2
49	MP4B	X	4.217	2
50	MP4B	Z	-7.304	2
51	MP4B	Mx	-0.004	2
52	MP4C	X	5.998	2
53	MP4C	Z	-10.389	2
54	MP4C	Mx	0.003	2
55	M128A	X	11.518	1
56	M128A	Z	-19.95	1
57	M128A	Mx	0	1
58	MP3C	X	1.964	3.5
59	MP3C	Z	-3.401	3.5
60	MP3C	Mx	0.000131	3.5
61	MP3C	X	1.964	3.5
62	MP3C	Z	-3.401	3.5
63	MP3C	Mx	0.002	3.5
64	MP1A	X	5.815	1.25
65	MP1A	Z	-10.072	1.25
66	MP1A	Mx	-0.003	1.25
67	MP1A	X	5.815	4.25
68	MP1A	Z	-10.072	4.25
69	MP1A	Mx	-0.003	4.25
70	MP1B	X	8.544	1.25
71	MP1B	Z	-14.799	1.25
72	MP1B	Mx	0.008	1.25
73	MP1B	X	8.544	4.25
74	MP1B	Z	-14.799	4.25
75	MP1B	Mx	0.008	4.25
76	MP1C	X	5.815	1.25
77	MP1C	Z	-10.072	1.25
78	MP1C	Mx	-0.003	1.25
79	MP1C	X	5.815	4.25
80	MP1C	Z	-10.072	4.25
81	MP1C	Mx	-0.003	4.25
82	MP5A	X	5.815	1.25



Company :
 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	-10.072	1.25
84	MP5A	Mx	-0.003	1.25
85	MP5A	X	5.815	4.25
86	MP5A	Z	-10.072	4.25
87	MP5A	Mx	-0.003	4.25
88	MP5B	X	8.544	1.25
89	MP5B	Z	-14.799	1.25
90	MP5B	Mx	0.008	1.25
91	MP5B	X	8.544	4.25
92	MP5B	Z	-14.799	4.25
93	MP5B	Mx	0.008	4.25
94	MP5C	X	5.815	1.25
95	MP5C	Z	-10.072	1.25
96	MP5C	Mx	-0.003	1.25
97	MP5C	X	5.815	4.25
98	MP5C	Z	-10.072	4.25
99	MP5C	Mx	-0.003	4.25
100	MP3A	X	1.527	5.5
101	MP3A	Z	-2.644	5.5
102	MP3A	Mx	0.000764	5.5
103	MP3B	X	1.27	5.5
104	MP3B	Z	-2.199	5.5
105	MP3B	Mx	-0.001	5.5
106	MP3C	X	1.527	5.5
107	MP3C	Z	-2.644	5.5
108	MP3C	Mx	0.000763	5.5
109	M128A	X	11.518	1
110	M128A	Z	-19.95	1
111	M128A	Mx	0	1
112	MP2A	X	6.809	3.75
113	MP2A	Z	-11.793	3.75
114	MP2A	Mx	-0.003	3.75
115	MP2A	X	6.809	5.75
116	MP2A	Z	-11.793	5.75
117	MP2A	Mx	-0.003	5.75
118	M137	Mx	-0.003	3.75
119	M137	X	6.809	3.75
120	M137	Z	-11.793	3.75
121	M137	Mx	-0.003	5.75
122	M137	X	6.809	5.75
123	M137	Z	-11.793	5.75
124	M140	Mx	-0.003	3.75
125	M140	X	6.809	3.75
126	M140	Z	-11.793	3.75
127	M140	Mx	-0.003	5.75
128	M140	X	6.809	5.75
129	M140	Z	-11.793	5.75
130	M141	Mx	0	1
131	M141	Mx	0	1
132	M141	X	11.518	1
133	M141	Z	-19.95	1
134	M141	Z	-19.95	1
135	M141	X	11.518	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	19.715	1
2	MP3A	Z	-11.383	1
3	MP3A	Mx	-0.002	1
4	MP3A	X	19.715	5
5	MP3A	Z	-11.383	5
6	MP3A	Mx	-0.002	5
7	MP3B	X	17.907	1
8	MP3B	Z	-10.339	1
9	MP3B	Mx	0.013	1
10	MP3B	X	17.907	5
11	MP3B	Z	-10.339	5
12	MP3B	Mx	0.013	5
13	MP3C	X	25.883	1
14	MP3C	Z	-14.944	1
15	MP3C	Mx	-0.02	1
16	MP3C	X	25.883	5
17	MP3C	Z	-14.944	5
18	MP3C	Mx	-0.02	5
19	MP3A	X	19.715	1
20	MP3A	Z	-11.383	1
21	MP3A	Mx	-0.017	1
22	MP3A	X	19.715	5
23	MP3A	Z	-11.383	5
24	MP3A	Mx	-0.017	5
25	MP3B	X	17.907	1
26	MP3B	Z	-10.339	1
27	MP3B	Mx	0.008	1
28	MP3B	X	17.907	5
29	MP3B	Z	-10.339	5
30	MP3B	Mx	0.008	5
31	MP3C	X	25.883	1
32	MP3C	Z	-14.944	1
33	MP3C	Mx	0.02	1
34	MP3C	X	25.883	5
35	MP3C	Z	-14.944	5
36	MP3C	Mx	0.02	5
37	MP3A	X	8.958	2
38	MP3A	Z	-5.172	2
39	MP3A	Mx	0.004	2
40	MP3B	X	8.182	2
41	MP3B	Z	-4.724	2
42	MP3B	Mx	-0.005	2
43	MP3C	X	11.607	2
44	MP3C	Z	-6.701	2
45	MP3C	Mx	0	2
46	MP4A	X	7.952	2
47	MP4A	Z	-4.591	2
48	MP4A	Mx	0.004	2
49	MP4B	X	6.88	2
50	MP4B	Z	-3.972	2
51	MP4B	Mx	-0.004	2
52	MP4C	X	11.607	2
53	MP4C	Z	-6.701	2
54	MP4C	Mx	0	2
55	M128A	X	18.651	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-10.768	1
57	M128A	Mx	0	1
58	MP3C	X	2.407	3.5
59	MP3C	Z	-1.39	3.5
60	MP3C	Mx	-0.000695	3.5
61	MP3C	X	2.407	3.5
62	MP3C	Z	-1.39	3.5
63	MP3C	Mx	0.000695	3.5
64	MP1A	X	13.806	1.25
65	MP1A	Z	-7.971	1.25
66	MP1A	Mx	-0.007	1.25
67	MP1A	X	13.806	4.25
68	MP1A	Z	-7.971	4.25
69	MP1A	Mx	-0.007	4.25
70	MP1B	X	15.448	1.25
71	MP1B	Z	-8.919	1.25
72	MP1B	Mx	0.009	1.25
73	MP1B	X	15.448	4.25
74	MP1B	Z	-8.919	4.25
75	MP1B	Mx	0.009	4.25
76	MP1C	X	8.206	1.25
77	MP1C	Z	-4.738	1.25
78	MP1C	Mx	0	1.25
79	MP1C	X	8.206	4.25
80	MP1C	Z	-4.738	4.25
81	MP1C	Mx	0	4.25
82	MP5A	X	13.806	1.25
83	MP5A	Z	-7.971	1.25
84	MP5A	Mx	-0.007	1.25
85	MP5A	X	13.806	4.25
86	MP5A	Z	-7.971	4.25
87	MP5A	Mx	-0.007	4.25
88	MP5B	X	15.448	1.25
89	MP5B	Z	-8.919	1.25
90	MP5B	Mx	0.009	1.25
91	MP5B	X	15.448	4.25
92	MP5B	Z	-8.919	4.25
93	MP5B	Mx	0.009	4.25
94	MP5C	X	8.206	1.25
95	MP5C	Z	-4.738	1.25
96	MP5C	Mx	0	1.25
97	MP5C	X	8.206	4.25
98	MP5C	Z	-4.738	4.25
99	MP5C	Mx	0	4.25
100	MP3A	X	2.293	5.5
101	MP3A	Z	-1.324	5.5
102	MP3A	Mx	0.001	5.5
103	MP3B	X	2.138	5.5
104	MP3B	Z	-1.234	5.5
105	MP3B	Mx	-0.001	5.5
106	MP3C	X	2.82	5.5
107	MP3C	Z	-1.628	5.5
108	MP3C	Mx	0	5.5
109	M128A	X	18.651	1
110	M128A	Z	-10.768	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	7.842	3.75
113	MP2A	Z	-4.528	3.75
114	MP2A	Mx	-0.004	3.75
115	MP2A	X	7.842	5.75
116	MP2A	Z	-4.528	5.75
117	MP2A	Mx	-0.004	5.75
118	M137	Z	-4.528	3.75
119	M137	Z	-4.528	5.75
120	M137	X	7.842	5.75
121	M137	Mx	-0.004	3.75
122	M137	X	7.842	3.75
123	M137	Mx	-0.004	5.75
124	M140	Z	-4.528	3.75
125	M140	Z	-4.528	5.75
126	M140	X	7.842	5.75
127	M140	Mx	-0.004	3.75
128	M140	X	7.842	3.75
129	M140	Mx	-0.004	5.75
130	M141	Z	-10.768	1
131	M141	X	18.651	1
132	M141	X	18.651	1
133	M141	Z	-10.768	1
134	M141	Mx	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	20.391	1
2	MP3A	Z	0	1
3	MP3A	Mx	-0.01	1
4	MP3A	X	20.391	5
5	MP3A	Z	0	5
6	MP3A	Mx	-0.01	5
7	MP3B	X	24.315	1
8	MP3B	Z	0	1
9	MP3B	Mx	0.02	1
10	MP3B	X	24.315	5
11	MP3B	Z	0	5
12	MP3B	Mx	0.02	5
13	MP3C	X	27.514	1
14	MP3C	Z	0	1
15	MP3C	Mx	-0.009	1
16	MP3C	X	27.514	5
17	MP3C	Z	0	5
18	MP3C	Mx	-0.009	5
19	MP3A	X	20.391	1
20	MP3A	Z	0	1
21	MP3A	Mx	-0.01	1
22	MP3A	X	20.391	5
23	MP3A	Z	0	5
24	MP3A	Mx	-0.01	5
25	MP3B	X	24.315	1
26	MP3B	Z	0	1
27	MP3B	Mx	-0.001	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	24.315	5
29	MP3B	Z	0	5
30	MP3B	Mx	-0.001	5
31	MP3C	X	27.514	1
32	MP3C	Z	0	1
33	MP3C	Mx	0.023	1
34	MP3C	X	27.514	5
35	MP3C	Z	0	5
36	MP3C	Mx	0.023	5
37	MP3A	X	9.325	2
38	MP3A	Z	0	2
39	MP3A	Mx	0.005	2
40	MP3B	X	11.01	2
41	MP3B	Z	0	2
42	MP3B	Mx	-0.004	2
43	MP3C	X	12.383	2
44	MP3C	Z	0	2
45	MP3C	Mx	-0.003	2
46	MP4A	X	7.775	2
47	MP4A	Z	0	2
48	MP4A	Mx	0.004	2
49	MP4B	X	10.1	2
50	MP4B	Z	0	2
51	MP4B	Mx	-0.004	2
52	MP4C	X	11.996	2
53	MP4C	Z	0	2
54	MP4C	Mx	-0.003	2
55	M128A	X	23.036	1
56	M128A	Z	0	1
57	M128A	Mx	0	1
58	MP3C	X	3.927	3.5
59	MP3C	Z	0	3.5
60	MP3C	Mx	-0.002	3.5
61	MP3C	X	3.927	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	-0.000132	3.5
64	MP1A	X	18.097	1.25
65	MP1A	Z	0	1.25
66	MP1A	Mx	-0.009	1.25
67	MP1A	X	18.097	4.25
68	MP1A	Z	0	4.25
69	MP1A	Mx	-0.009	4.25
70	MP1B	X	14.535	1.25
71	MP1B	Z	0	1.25
72	MP1B	Mx	0.006	1.25
73	MP1B	X	14.535	4.25
74	MP1B	Z	0	4.25
75	MP1B	Mx	0.006	4.25
76	MP1C	X	11.631	1.25
77	MP1C	Z	0	1.25
78	MP1C	Mx	0.003	1.25
79	MP1C	X	11.631	4.25
80	MP1C	Z	0	4.25
81	MP1C	Mx	0.003	4.25
82	MP5A	X	18.097	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	0	1.25
84	MP5A	Mx	-0.009	1.25
85	MP5A	X	18.097	4.25
86	MP5A	Z	0	4.25
87	MP5A	Mx	-0.009	4.25
88	MP5B	X	14.535	1.25
89	MP5B	Z	0	1.25
90	MP5B	Mx	0.006	1.25
91	MP5B	X	14.535	4.25
92	MP5B	Z	0	4.25
93	MP5B	Mx	0.006	4.25
94	MP5C	X	11.631	1.25
95	MP5C	Z	0	1.25
96	MP5C	Mx	0.003	1.25
97	MP5C	X	11.631	4.25
98	MP5C	Z	0	4.25
99	MP5C	Mx	0.003	4.25
100	MP3A	X	2.444	5.5
101	MP3A	Z	0	5.5
102	MP3A	Mx	0.001	5.5
103	MP3B	X	2.78	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	-0.001	5.5
106	MP3C	X	3.053	5.5
107	MP3C	Z	0	5.5
108	MP3C	Mx	-0.000763	5.5
109	M128A	X	23.036	1
110	M128A	Z	0	1
111	M128A	Mx	0	1
112	MP2A	X	6.775	3.75
113	MP2A	Z	0	3.75
114	MP2A	Mx	-0.003	3.75
115	MP2A	X	6.775	5.75
116	MP2A	Z	0	5.75
117	MP2A	Mx	-0.003	5.75
118	M137	Mx	-0.003	5.75
119	M137	X	6.775	5.75
120	M137	X	6.775	3.75
121	M137	Z	0	3.75
122	M137	Mx	-0.003	3.75
123	M137	Z	0	5.75
124	M140	Mx	-0.003	5.75
125	M140	X	6.775	5.75
126	M140	X	6.775	3.75
127	M140	Z	0	3.75
128	M140	Mx	-0.003	3.75
129	M140	Z	0	5.75
130	M141	Z	0	1
131	M141	Mx	0	1
132	M141	X	23.036	1
133	M141	Z	0	1
134	M141	Mx	0	1
135	M141	X	23.036	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	19.715	1
2	MP3A	Z	11.383	1
3	MP3A	Mx	-0.017	1
4	MP3A	X	19.715	5
5	MP3A	Z	11.383	5
6	MP3A	Mx	-0.017	5
7	MP3B	X	24.921	1
8	MP3B	Z	14.388	1
9	MP3B	Mx	0.023	1
10	MP3B	X	24.921	5
11	MP3B	Z	14.388	5
12	MP3B	Mx	0.023	5
13	MP3C	X	19.715	1
14	MP3C	Z	11.383	1
15	MP3C	Mx	0.002	1
16	MP3C	X	19.715	5
17	MP3C	Z	11.383	5
18	MP3C	Mx	0.002	5
19	MP3A	X	19.715	1
20	MP3A	Z	11.383	1
21	MP3A	Mx	-0.002	1
22	MP3A	X	19.715	5
23	MP3A	Z	11.383	5
24	MP3A	Mx	-0.002	5
25	MP3B	X	24.921	1
26	MP3B	Z	14.388	1
27	MP3B	Mx	-0.013	1
28	MP3B	X	24.921	5
29	MP3B	Z	14.388	5
30	MP3B	Mx	-0.013	5
31	MP3C	X	19.715	1
32	MP3C	Z	11.383	1
33	MP3C	Mx	0.017	1
34	MP3C	X	19.715	5
35	MP3C	Z	11.383	5
36	MP3C	Mx	0.017	5
37	MP3A	X	8.958	2
38	MP3A	Z	5.172	2
39	MP3A	Mx	0.004	2
40	MP3B	X	11.194	2
41	MP3B	Z	6.463	2
42	MP3B	Mx	-0.002	2
43	MP3C	X	8.958	2
44	MP3C	Z	5.172	2
45	MP3C	Mx	-0.004	2
46	MP4A	X	7.952	2
47	MP4A	Z	4.591	2
48	MP4A	Mx	0.004	2
49	MP4B	X	11.037	2
50	MP4B	Z	6.372	2
51	MP4B	Mx	-0.002	2
52	MP4C	X	7.952	2
53	MP4C	Z	4.591	2
54	MP4C	Mx	-0.004	2
55	M128A	X	22.549	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	13.019	1
57	M128A	Mx	0	1
58	MP3C	X	5.389	3.5
59	MP3C	Z	3.111	3.5
60	MP3C	Mx	-0.003	3.5
61	MP3C	X	5.389	3.5
62	MP3C	Z	3.111	3.5
63	MP3C	Mx	-0.002	3.5
64	MP1A	X	13.806	1.25
65	MP1A	Z	7.971	1.25
66	MP1A	Mx	-0.007	1.25
67	MP1A	X	13.806	4.25
68	MP1A	Z	7.971	4.25
69	MP1A	Mx	-0.007	4.25
70	MP1B	X	9.079	1.25
71	MP1B	Z	5.242	1.25
72	MP1B	Mx	0.002	1.25
73	MP1B	X	9.079	4.25
74	MP1B	Z	5.242	4.25
75	MP1B	Mx	0.002	4.25
76	MP1C	X	13.806	1.25
77	MP1C	Z	7.971	1.25
78	MP1C	Mx	0.007	1.25
79	MP1C	X	13.806	4.25
80	MP1C	Z	7.971	4.25
81	MP1C	Mx	0.007	4.25
82	MP5A	X	13.806	1.25
83	MP5A	Z	7.971	1.25
84	MP5A	Mx	-0.007	1.25
85	MP5A	X	13.806	4.25
86	MP5A	Z	7.971	4.25
87	MP5A	Mx	-0.007	4.25
88	MP5B	X	9.079	1.25
89	MP5B	Z	5.242	1.25
90	MP5B	Mx	0.002	1.25
91	MP5B	X	9.079	4.25
92	MP5B	Z	5.242	4.25
93	MP5B	Mx	0.002	4.25
94	MP5C	X	13.806	1.25
95	MP5C	Z	7.971	1.25
96	MP5C	Mx	0.007	1.25
97	MP5C	X	13.806	4.25
98	MP5C	Z	7.971	4.25
99	MP5C	Mx	0.007	4.25
100	MP3A	X	2.293	5.5
101	MP3A	Z	1.324	5.5
102	MP3A	Mx	0.001	5.5
103	MP3B	X	2.738	5.5
104	MP3B	Z	1.581	5.5
105	MP3B	Mx	-0.000541	5.5
106	MP3C	X	2.293	5.5
107	MP3C	Z	1.324	5.5
108	MP3C	Mx	-0.001	5.5
109	M128A	X	22.549	1
110	M128A	Z	13.019	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	7.842	3.75
113	MP2A	Z	4.528	3.75
114	MP2A	Mx	-0.004	3.75
115	MP2A	X	7.842	5.75
116	MP2A	Z	4.528	5.75
117	MP2A	Mx	-0.004	5.75
118	M137	X	7.842	5.75
119	M137	X	7.842	3.75
120	M137	Z	4.528	3.75
121	M137	Mx	-0.004	3.75
122	M137	Z	4.528	5.75
123	M137	Mx	-0.004	5.75
124	M140	X	7.842	5.75
125	M140	X	7.842	3.75
126	M140	Z	4.528	3.75
127	M140	Mx	-0.004	3.75
128	M140	Z	4.528	5.75
129	M140	Mx	-0.004	5.75
130	M141	Z	13.019	1
131	M141	Z	13.019	1
132	M141	Mx	0	1
133	M141	X	22.549	1
134	M141	Mx	0	1
135	M141	X	22.549	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	13.757	1
2	MP3A	Z	23.827	1
3	MP3A	Mx	-0.023	1
4	MP3A	X	13.757	5
5	MP3A	Z	23.827	5
6	MP3A	Mx	-0.023	5
7	MP3B	X	14.801	1
8	MP3B	Z	25.635	1
9	MP3B	Mx	0.017	1
10	MP3B	X	14.801	5
11	MP3B	Z	25.635	5
12	MP3B	Mx	0.017	5
13	MP3C	X	10.196	1
14	MP3C	Z	17.659	1
15	MP3C	Mx	0.01	1
16	MP3C	X	10.196	5
17	MP3C	Z	17.659	5
18	MP3C	Mx	0.01	5
19	MP3A	X	13.757	1
20	MP3A	Z	23.827	1
21	MP3A	Mx	0.009	1
22	MP3A	X	13.757	5
23	MP3A	Z	23.827	5
24	MP3A	Mx	0.009	5
25	MP3B	X	14.801	1
26	MP3B	Z	25.635	1
27	MP3B	Mx	-0.022	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	14.801	5
29	MP3B	Z	25.635	5
30	MP3B	Mx	-0.022	5
31	MP3C	X	10.196	1
32	MP3C	Z	17.659	1
33	MP3C	Mx	0.01	1
34	MP3C	X	10.196	5
35	MP3C	Z	17.659	5
36	MP3C	Mx	0.01	5
37	MP3A	X	6.192	2
38	MP3A	Z	10.724	2
39	MP3A	Mx	0.003	2
40	MP3B	X	6.64	2
41	MP3B	Z	11.501	2
42	MP3B	Mx	0.001	2
43	MP3C	X	4.662	2
44	MP3C	Z	8.075	2
45	MP3C	Mx	-0.005	2
46	MP4A	X	5.998	2
47	MP4A	Z	10.389	2
48	MP4A	Mx	0.003	2
49	MP4B	X	6.617	2
50	MP4B	Z	11.46	2
51	MP4B	Mx	0.001	2
52	MP4C	X	3.888	2
53	MP4C	Z	6.733	2
54	MP4C	Mx	-0.004	2
55	M128A	X	13.769	1
56	M128A	Z	23.848	1
57	M128A	Mx	0	1
58	MP3C	X	3.685	3.5
59	MP3C	Z	6.382	3.5
60	MP3C	Mx	-0.004	3.5
61	MP3C	X	3.685	3.5
62	MP3C	Z	6.382	3.5
63	MP3C	Mx	-0.004	3.5
64	MP1A	X	5.815	1.25
65	MP1A	Z	10.072	1.25
66	MP1A	Mx	-0.003	1.25
67	MP1A	X	5.815	4.25
68	MP1A	Z	10.072	4.25
69	MP1A	Mx	-0.003	4.25
70	MP1B	X	4.868	1.25
71	MP1B	Z	8.431	1.25
72	MP1B	Mx	-0.000845	1.25
73	MP1B	X	4.868	4.25
74	MP1B	Z	8.431	4.25
75	MP1B	Mx	-0.000845	4.25
76	MP1C	X	9.049	1.25
77	MP1C	Z	15.673	1.25
78	MP1C	Mx	0.009	1.25
79	MP1C	X	9.049	4.25
80	MP1C	Z	15.673	4.25
81	MP1C	Mx	0.009	4.25
82	MP5A	X	5.815	1.25



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	10.072	1.25
84	MP5A	Mx	-0.003	1.25
85	MP5A	X	5.815	4.25
86	MP5A	Z	10.072	4.25
87	MP5A	Mx	-0.003	4.25
88	MP5B	X	4.868	1.25
89	MP5B	Z	8.431	1.25
90	MP5B	Mx	-0.000845	1.25
91	MP5B	X	4.868	4.25
92	MP5B	Z	8.431	4.25
93	MP5B	Mx	-0.000845	4.25
94	MP5C	X	9.049	1.25
95	MP5C	Z	15.673	1.25
96	MP5C	Mx	0.009	1.25
97	MP5C	X	9.049	4.25
98	MP5C	Z	15.673	4.25
99	MP5C	Mx	0.009	4.25
100	MP3A	X	1.527	5.5
101	MP3A	Z	2.644	5.5
102	MP3A	Mx	0.000764	5.5
103	MP3B	X	1.616	5.5
104	MP3B	Z	2.799	5.5
105	MP3B	Mx	0.000281	5.5
106	MP3C	X	1.222	5.5
107	MP3C	Z	2.117	5.5
108	MP3C	Mx	-0.001	5.5
109	M128A	X	13.769	1
110	M128A	Z	23.848	1
111	M128A	Mx	0	1
112	MP2A	X	6.809	3.75
113	MP2A	Z	11.793	3.75
114	MP2A	Mx	-0.003	3.75
115	MP2A	X	6.809	5.75
116	MP2A	Z	11.793	5.75
117	MP2A	Mx	-0.003	5.75
118	M137	X	6.809	3.75
119	M137	Z	11.793	3.75
120	M137	Mx	-0.003	5.75
121	M137	Mx	-0.003	3.75
122	M137	X	6.809	5.75
123	M137	Z	11.793	5.75
124	M140	X	6.809	3.75
125	M140	Z	11.793	3.75
126	M140	Mx	-0.003	5.75
127	M140	Mx	-0.003	3.75
128	M140	X	6.809	5.75
129	M140	Z	11.793	5.75
130	M141	Mx	0	1
131	M141	Z	23.848	1
132	M141	Z	23.848	1
133	M141	Mx	0	1
134	M141	X	13.769	1
135	M141	X	13.769	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1
2	MP3A	Z	29.888	1
3	MP3A	Mx	-0.02	1
4	MP3A	X	0	5
5	MP3A	Z	29.888	5
6	MP3A	Mx	-0.02	5
7	MP3B	X	0	1
8	MP3B	Z	25.964	1
9	MP3B	Mx	0.005	1
10	MP3B	X	0	5
11	MP3B	Z	25.964	5
12	MP3B	Mx	0.005	5
13	MP3C	X	0	1
14	MP3C	Z	22.765	1
15	MP3C	Mx	0.017	1
16	MP3C	X	0	5
17	MP3C	Z	22.765	5
18	MP3C	Mx	0.017	5
19	MP3A	X	0	1
20	MP3A	Z	29.888	1
21	MP3A	Mx	0.02	1
22	MP3A	X	0	5
23	MP3A	Z	29.888	5
24	MP3A	Mx	0.02	5
25	MP3B	X	0	1
26	MP3B	Z	25.964	1
27	MP3B	Mx	-0.022	1
28	MP3B	X	0	5
29	MP3B	Z	25.964	5
30	MP3B	Mx	-0.022	5
31	MP3C	X	0	1
32	MP3C	Z	22.765	1
33	MP3C	Mx	0.002	1
34	MP3C	X	0	5
35	MP3C	Z	22.765	5
36	MP3C	Mx	0.002	5
37	MP3A	X	0	2
38	MP3A	Z	13.403	2
39	MP3A	Mx	0	2
40	MP3B	X	0	2
41	MP3B	Z	11.718	2
42	MP3B	Mx	0.004	2
43	MP3C	X	0	2
44	MP3C	Z	10.344	2
45	MP3C	Mx	-0.004	2
46	MP4A	X	0	2
47	MP4A	Z	13.403	2
48	MP4A	Mx	0	2
49	MP4B	X	0	2
50	MP4B	Z	11.078	2
51	MP4B	Mx	0.004	2
52	MP4C	X	0	2
53	MP4C	Z	9.182	2
54	MP4C	Mx	-0.004	2
55	M128A	X	0	1



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 Model Name :

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	26.037	1
57	M128A	Mx	0	1
58	MP3C	X	0	3.5
59	MP3C	Z	6.222	3.5
60	MP3C	Mx	-0.002	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	6.222	3.5
63	MP3C	Mx	-0.003	3.5
64	MP1A	X	0	1.25
65	MP1A	Z	9.475	1.25
66	MP1A	Mx	0	1.25
67	MP1A	X	0	4.25
68	MP1A	Z	9.475	4.25
69	MP1A	Mx	0	4.25
70	MP1B	X	0	1.25
71	MP1B	Z	13.038	1.25
72	MP1B	Mx	-0.004	1.25
73	MP1B	X	0	4.25
74	MP1B	Z	13.038	4.25
75	MP1B	Mx	-0.004	4.25
76	MP1C	X	0	1.25
77	MP1C	Z	15.942	1.25
78	MP1C	Mx	0.007	1.25
79	MP1C	X	0	4.25
80	MP1C	Z	15.942	4.25
81	MP1C	Mx	0.007	4.25
82	MP5A	X	0	1.25
83	MP5A	Z	9.475	1.25
84	MP5A	Mx	0	1.25
85	MP5A	X	0	4.25
86	MP5A	Z	9.475	4.25
87	MP5A	Mx	0	4.25
88	MP5B	X	0	1.25
89	MP5B	Z	13.038	1.25
90	MP5B	Mx	-0.004	1.25
91	MP5B	X	0	4.25
92	MP5B	Z	13.038	4.25
93	MP5B	Mx	-0.004	4.25
94	MP5C	X	0	1.25
95	MP5C	Z	15.942	1.25
96	MP5C	Mx	0.007	1.25
97	MP5C	X	0	4.25
98	MP5C	Z	15.942	4.25
99	MP5C	Mx	0.007	4.25
100	MP3A	X	0	5.5
101	MP3A	Z	3.256	5.5
102	MP3A	Mx	0	5.5
103	MP3B	X	0	5.5
104	MP3B	Z	2.921	5.5
105	MP3B	Mx	0.000939	5.5
106	MP3C	X	0	5.5
107	MP3C	Z	2.647	5.5
108	MP3C	Mx	-0.001	5.5
109	M128A	X	0	1
110	M128A	Z	26.037	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	0	3.75
113	MP2A	Z	15.898	3.75
114	MP2A	Mx	0	3.75
115	MP2A	X	0	5.75
116	MP2A	Z	15.898	5.75
117	MP2A	Mx	0	5.75
118	M137	Z	15.898	3.75
119	M137	X	0	5.75
120	M137	Z	15.898	5.75
121	M137	X	0	3.75
122	M137	Mx	0	5.75
123	M137	Mx	0	3.75
124	M140	Z	15.898	3.75
125	M140	X	0	5.75
126	M140	Z	15.898	5.75
127	M140	X	0	3.75
128	M140	Mx	0	5.75
129	M140	Mx	0	3.75
130	M141	Mx	0	1
131	M141	Z	26.037	1
132	M141	X	0	1
133	M141	Z	26.037	1
134	M141	X	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-13.757	1
2	MP3A	Z	23.827	1
3	MP3A	Mx	-0.009	1
4	MP3A	X	-13.757	5
5	MP3A	Z	23.827	5
6	MP3A	Mx	-0.009	5
7	MP3B	X	-10.751	1
8	MP3B	Z	18.621	1
9	MP3B	Mx	-0.005	1
10	MP3B	X	-10.751	5
11	MP3B	Z	18.621	5
12	MP3B	Mx	-0.005	5
13	MP3C	X	-13.757	1
14	MP3C	Z	23.827	1
15	MP3C	Mx	0.023	1
16	MP3C	X	-13.757	5
17	MP3C	Z	23.827	5
18	MP3C	Mx	0.023	5
19	MP3A	X	-13.757	1
20	MP3A	Z	23.827	1
21	MP3A	Mx	0.023	1
22	MP3A	X	-13.757	5
23	MP3A	Z	23.827	5
24	MP3A	Mx	0.023	5
25	MP3B	X	-10.751	1
26	MP3B	Z	18.621	1
27	MP3B	Mx	-0.015	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-10.751	5
29	MP3B	Z	18.621	5
30	MP3B	Mx	-0.015	5
31	MP3C	X	-13.757	1
32	MP3C	Z	23.827	1
33	MP3C	Mx	-0.009	1
34	MP3C	X	-13.757	5
35	MP3C	Z	23.827	5
36	MP3C	Mx	-0.009	5
37	MP3A	X	-6.192	2
38	MP3A	Z	10.724	2
39	MP3A	Mx	-0.003	2
40	MP3B	X	-4.901	2
41	MP3B	Z	8.489	2
42	MP3B	Mx	0.005	2
43	MP3C	X	-6.192	2
44	MP3C	Z	10.724	2
45	MP3C	Mx	-0.003	2
46	MP4A	X	-5.998	2
47	MP4A	Z	10.389	2
48	MP4A	Mx	-0.003	2
49	MP4B	X	-4.217	2
50	MP4B	Z	7.304	2
51	MP4B	Mx	0.004	2
52	MP4C	X	-5.998	2
53	MP4C	Z	10.389	2
54	MP4C	Mx	-0.003	2
55	M128A	X	-11.518	1
56	M128A	Z	19.95	1
57	M128A	Mx	0	1
58	MP3C	X	-1.964	3.5
59	MP3C	Z	3.401	3.5
60	MP3C	Mx	-0.000131	3.5
61	MP3C	X	-1.964	3.5
62	MP3C	Z	3.401	3.5
63	MP3C	Mx	-0.002	3.5
64	MP1A	X	-5.815	1.25
65	MP1A	Z	10.072	1.25
66	MP1A	Mx	0.003	1.25
67	MP1A	X	-5.815	4.25
68	MP1A	Z	10.072	4.25
69	MP1A	Mx	0.003	4.25
70	MP1B	X	-8.544	1.25
71	MP1B	Z	14.799	1.25
72	MP1B	Mx	-0.008	1.25
73	MP1B	X	-8.544	4.25
74	MP1B	Z	14.799	4.25
75	MP1B	Mx	-0.008	4.25
76	MP1C	X	-5.815	1.25
77	MP1C	Z	10.072	1.25
78	MP1C	Mx	0.003	1.25
79	MP1C	X	-5.815	4.25
80	MP1C	Z	10.072	4.25
81	MP1C	Mx	0.003	4.25
82	MP5A	X	-5.815	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	10.072	1.25
84	MP5A	Mx	0.003	1.25
85	MP5A	X	-5.815	4.25
86	MP5A	Z	10.072	4.25
87	MP5A	Mx	0.003	4.25
88	MP5B	X	-8.544	1.25
89	MP5B	Z	14.799	1.25
90	MP5B	Mx	-0.008	1.25
91	MP5B	X	-8.544	4.25
92	MP5B	Z	14.799	4.25
93	MP5B	Mx	-0.008	4.25
94	MP5C	X	-5.815	1.25
95	MP5C	Z	10.072	1.25
96	MP5C	Mx	0.003	1.25
97	MP5C	X	-5.815	4.25
98	MP5C	Z	10.072	4.25
99	MP5C	Mx	0.003	4.25
100	MP3A	X	-1.527	5.5
101	MP3A	Z	2.644	5.5
102	MP3A	Mx	-0.000764	5.5
103	MP3B	X	-1.27	5.5
104	MP3B	Z	2.199	5.5
105	MP3B	Mx	0.001	5.5
106	MP3C	X	-1.527	5.5
107	MP3C	Z	2.644	5.5
108	MP3C	Mx	-0.000763	5.5
109	M128A	X	-11.518	1
110	M128A	Z	19.95	1
111	M128A	Mx	0	1
112	MP2A	X	-6.809	3.75
113	MP2A	Z	11.793	3.75
114	MP2A	Mx	0.003	3.75
115	MP2A	X	-6.809	5.75
116	MP2A	Z	11.793	5.75
117	MP2A	Mx	0.003	5.75
118	M137	Z	11.793	5.75
119	M137	Z	11.793	3.75
120	M137	X	-6.809	3.75
121	M137	X	-6.809	5.75
122	M137	Mx	0.003	5.75
123	M137	Mx	0.003	3.75
124	M140	Z	11.793	5.75
125	M140	Z	11.793	3.75
126	M140	X	-6.809	3.75
127	M140	X	-6.809	5.75
128	M140	Mx	0.003	5.75
129	M140	Mx	0.003	3.75
130	M141	X	-11.518	1
131	M141	Z	19.95	1
132	M141	Mx	0	1
133	M141	Z	19.95	1
134	M141	X	-11.518	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-19.715	1
2	MP3A	Z	11.383	1
3	MP3A	Mx	0.002	1
4	MP3A	X	-19.715	5
5	MP3A	Z	11.383	5
6	MP3A	Mx	0.002	5
7	MP3B	X	-17.907	1
8	MP3B	Z	10.339	1
9	MP3B	Mx	-0.013	1
10	MP3B	X	-17.907	5
11	MP3B	Z	10.339	5
12	MP3B	Mx	-0.013	5
13	MP3C	X	-25.883	1
14	MP3C	Z	14.944	1
15	MP3C	Mx	0.02	1
16	MP3C	X	-25.883	5
17	MP3C	Z	14.944	5
18	MP3C	Mx	0.02	5
19	MP3A	X	-19.715	1
20	MP3A	Z	11.383	1
21	MP3A	Mx	0.017	1
22	MP3A	X	-19.715	5
23	MP3A	Z	11.383	5
24	MP3A	Mx	0.017	5
25	MP3B	X	-17.907	1
26	MP3B	Z	10.339	1
27	MP3B	Mx	-0.008	1
28	MP3B	X	-17.907	5
29	MP3B	Z	10.339	5
30	MP3B	Mx	-0.008	5
31	MP3C	X	-25.883	1
32	MP3C	Z	14.944	1
33	MP3C	Mx	-0.02	1
34	MP3C	X	-25.883	5
35	MP3C	Z	14.944	5
36	MP3C	Mx	-0.02	5
37	MP3A	X	-8.958	2
38	MP3A	Z	5.172	2
39	MP3A	Mx	-0.004	2
40	MP3B	X	-8.182	2
41	MP3B	Z	4.724	2
42	MP3B	Mx	0.005	2
43	MP3C	X	-11.607	2
44	MP3C	Z	6.701	2
45	MP3C	Mx	0	2
46	MP4A	X	-7.952	2
47	MP4A	Z	4.591	2
48	MP4A	Mx	-0.004	2
49	MP4B	X	-6.88	2
50	MP4B	Z	3.972	2
51	MP4B	Mx	0.004	2
52	MP4C	X	-11.607	2
53	MP4C	Z	6.701	2
54	MP4C	Mx	0	2
55	M128A	X	-18.651	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	10.768	1
57	M128A	Mx	0	1
58	MP3C	X	-2.407	3.5
59	MP3C	Z	1.39	3.5
60	MP3C	Mx	0.000695	3.5
61	MP3C	X	-2.407	3.5
62	MP3C	Z	1.39	3.5
63	MP3C	Mx	-0.000695	3.5
64	MP1A	X	-13.806	1.25
65	MP1A	Z	7.971	1.25
66	MP1A	Mx	0.007	1.25
67	MP1A	X	-13.806	4.25
68	MP1A	Z	7.971	4.25
69	MP1A	Mx	0.007	4.25
70	MP1B	X	-15.448	1.25
71	MP1B	Z	8.919	1.25
72	MP1B	Mx	-0.009	1.25
73	MP1B	X	-15.448	4.25
74	MP1B	Z	8.919	4.25
75	MP1B	Mx	-0.009	4.25
76	MP1C	X	-8.206	1.25
77	MP1C	Z	4.738	1.25
78	MP1C	Mx	0	1.25
79	MP1C	X	-8.206	4.25
80	MP1C	Z	4.738	4.25
81	MP1C	Mx	0	4.25
82	MP5A	X	-13.806	1.25
83	MP5A	Z	7.971	1.25
84	MP5A	Mx	0.007	1.25
85	MP5A	X	-13.806	4.25
86	MP5A	Z	7.971	4.25
87	MP5A	Mx	0.007	4.25
88	MP5B	X	-15.448	1.25
89	MP5B	Z	8.919	1.25
90	MP5B	Mx	-0.009	1.25
91	MP5B	X	-15.448	4.25
92	MP5B	Z	8.919	4.25
93	MP5B	Mx	-0.009	4.25
94	MP5C	X	-8.206	1.25
95	MP5C	Z	4.738	1.25
96	MP5C	Mx	0	1.25
97	MP5C	X	-8.206	4.25
98	MP5C	Z	4.738	4.25
99	MP5C	Mx	0	4.25
100	MP3A	X	-2.293	5.5
101	MP3A	Z	1.324	5.5
102	MP3A	Mx	-0.001	5.5
103	MP3B	X	-2.138	5.5
104	MP3B	Z	1.234	5.5
105	MP3B	Mx	0.001	5.5
106	MP3C	X	-2.82	5.5
107	MP3C	Z	1.628	5.5
108	MP3C	Mx	0	5.5
109	M128A	X	-18.651	1
110	M128A	Z	10.768	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	-7.842	3.75
113	MP2A	Z	4.528	3.75
114	MP2A	Mx	0.004	3.75
115	MP2A	X	-7.842	5.75
116	MP2A	Z	4.528	5.75
117	MP2A	Mx	0.004	5.75
118	M137	X	-7.842	3.75
119	M137	Z	4.528	5.75
120	M137	Mx	0.004	5.75
121	M137	Mx	0.004	3.75
122	M137	X	-7.842	5.75
123	M137	Z	4.528	3.75
124	M140	X	-7.842	3.75
125	M140	Z	4.528	5.75
126	M140	Mx	0.004	5.75
127	M140	Mx	0.004	3.75
128	M140	X	-7.842	5.75
129	M140	Z	4.528	3.75
130	M141	Mx	0	1
131	M141	X	-18.651	1
132	M141	Mx	0	1
133	M141	X	-18.651	1
134	M141	Z	10.768	1
135	M141	Z	10.768	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-20.391	1
2	MP3A	Z	0	1
3	MP3A	Mx	0.01	1
4	MP3A	X	-20.391	5
5	MP3A	Z	0	5
6	MP3A	Mx	0.01	5
7	MP3B	X	-24.315	1
8	MP3B	Z	0	1
9	MP3B	Mx	-0.02	1
10	MP3B	X	-24.315	5
11	MP3B	Z	0	5
12	MP3B	Mx	-0.02	5
13	MP3C	X	-27.514	1
14	MP3C	Z	0	1
15	MP3C	Mx	0.009	1
16	MP3C	X	-27.514	5
17	MP3C	Z	0	5
18	MP3C	Mx	0.009	5
19	MP3A	X	-20.391	1
20	MP3A	Z	0	1
21	MP3A	Mx	0.01	1
22	MP3A	X	-20.391	5
23	MP3A	Z	0	5
24	MP3A	Mx	0.01	5
25	MP3B	X	-24.315	1
26	MP3B	Z	0	1
27	MP3B	Mx	0.001	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-24.315	5
29	MP3B	Z	0	5
30	MP3B	Mx	0.001	5
31	MP3C	X	-27.514	1
32	MP3C	Z	0	1
33	MP3C	Mx	-0.023	1
34	MP3C	X	-27.514	5
35	MP3C	Z	0	5
36	MP3C	Mx	-0.023	5
37	MP3A	X	-9.325	2
38	MP3A	Z	0	2
39	MP3A	Mx	-0.005	2
40	MP3B	X	-11.01	2
41	MP3B	Z	0	2
42	MP3B	Mx	0.004	2
43	MP3C	X	-12.383	2
44	MP3C	Z	0	2
45	MP3C	Mx	0.003	2
46	MP4A	X	-7.775	2
47	MP4A	Z	0	2
48	MP4A	Mx	-0.004	2
49	MP4B	X	-10.1	2
50	MP4B	Z	0	2
51	MP4B	Mx	0.004	2
52	MP4C	X	-11.996	2
53	MP4C	Z	0	2
54	MP4C	Mx	0.003	2
55	M128A	X	-23.036	1
56	M128A	Z	0	1
57	M128A	Mx	0	1
58	MP3C	X	-3.927	3.5
59	MP3C	Z	0	3.5
60	MP3C	Mx	0.002	3.5
61	MP3C	X	-3.927	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	0.000132	3.5
64	MP1A	X	-18.097	1.25
65	MP1A	Z	0	1.25
66	MP1A	Mx	0.009	1.25
67	MP1A	X	-18.097	4.25
68	MP1A	Z	0	4.25
69	MP1A	Mx	0.009	4.25
70	MP1B	X	-14.535	1.25
71	MP1B	Z	0	1.25
72	MP1B	Mx	-0.006	1.25
73	MP1B	X	-14.535	4.25
74	MP1B	Z	0	4.25
75	MP1B	Mx	-0.006	4.25
76	MP1C	X	-11.631	1.25
77	MP1C	Z	0	1.25
78	MP1C	Mx	-0.003	1.25
79	MP1C	X	-11.631	4.25
80	MP1C	Z	0	4.25
81	MP1C	Mx	-0.003	4.25
82	MP5A	X	-18.097	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	0	1.25
84	MP5A	Mx	0.009	1.25
85	MP5A	X	-18.097	4.25
86	MP5A	Z	0	4.25
87	MP5A	Mx	0.009	4.25
88	MP5B	X	-14.535	1.25
89	MP5B	Z	0	1.25
90	MP5B	Mx	-0.006	1.25
91	MP5B	X	-14.535	4.25
92	MP5B	Z	0	4.25
93	MP5B	Mx	-0.006	4.25
94	MP5C	X	-11.631	1.25
95	MP5C	Z	0	1.25
96	MP5C	Mx	-0.003	1.25
97	MP5C	X	-11.631	4.25
98	MP5C	Z	0	4.25
99	MP5C	Mx	-0.003	4.25
100	MP3A	X	-2.444	5.5
101	MP3A	Z	0	5.5
102	MP3A	Mx	-0.001	5.5
103	MP3B	X	-2.78	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	0.001	5.5
106	MP3C	X	-3.053	5.5
107	MP3C	Z	0	5.5
108	MP3C	Mx	0.000763	5.5
109	M128A	X	-23.036	1
110	M128A	Z	0	1
111	M128A	Mx	0	1
112	MP2A	X	-6.775	3.75
113	MP2A	Z	0	3.75
114	MP2A	Mx	0.003	3.75
115	MP2A	X	-6.775	5.75
116	MP2A	Z	0	5.75
117	MP2A	Mx	0.003	5.75
118	M137	X	-6.775	5.75
119	M137	Z	0	3.75
120	M137	Z	0	5.75
121	M137	Mx	0.003	5.75
122	M137	X	-6.775	3.75
123	M137	Mx	0.003	3.75
124	M140	X	-6.775	5.75
125	M140	Z	0	3.75
126	M140	Z	0	5.75
127	M140	Mx	0.003	5.75
128	M140	X	-6.775	3.75
129	M140	Mx	0.003	3.75
130	M141	Z	0	1
131	M141	X	-23.036	1
132	M141	Z	0	1
133	M141	X	-23.036	1
134	M141	Mx	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-19.715	1
2	MP3A	Z	-11.383	1
3	MP3A	Mx	0.017	1
4	MP3A	X	-19.715	5
5	MP3A	Z	-11.383	5
6	MP3A	Mx	0.017	5
7	MP3B	X	-24.921	1
8	MP3B	Z	-14.388	1
9	MP3B	Mx	-0.023	1
10	MP3B	X	-24.921	5
11	MP3B	Z	-14.388	5
12	MP3B	Mx	-0.023	5
13	MP3C	X	-19.715	1
14	MP3C	Z	-11.383	1
15	MP3C	Mx	-0.002	1
16	MP3C	X	-19.715	5
17	MP3C	Z	-11.383	5
18	MP3C	Mx	-0.002	5
19	MP3A	X	-19.715	1
20	MP3A	Z	-11.383	1
21	MP3A	Mx	0.002	1
22	MP3A	X	-19.715	5
23	MP3A	Z	-11.383	5
24	MP3A	Mx	0.002	5
25	MP3B	X	-24.921	1
26	MP3B	Z	-14.388	1
27	MP3B	Mx	0.013	1
28	MP3B	X	-24.921	5
29	MP3B	Z	-14.388	5
30	MP3B	Mx	0.013	5
31	MP3C	X	-19.715	1
32	MP3C	Z	-11.383	1
33	MP3C	Mx	-0.017	1
34	MP3C	X	-19.715	5
35	MP3C	Z	-11.383	5
36	MP3C	Mx	-0.017	5
37	MP3A	X	-8.958	2
38	MP3A	Z	-5.172	2
39	MP3A	Mx	-0.004	2
40	MP3B	X	-11.194	2
41	MP3B	Z	-6.463	2
42	MP3B	Mx	0.002	2
43	MP3C	X	-8.958	2
44	MP3C	Z	-5.172	2
45	MP3C	Mx	0.004	2
46	MP4A	X	-7.952	2
47	MP4A	Z	-4.591	2
48	MP4A	Mx	-0.004	2
49	MP4B	X	-11.037	2
50	MP4B	Z	-6.372	2
51	MP4B	Mx	0.002	2
52	MP4C	X	-7.952	2
53	MP4C	Z	-4.591	2
54	MP4C	Mx	0.004	2
55	M128A	X	-22.549	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-13.019	1
57	M128A	Mx	0	1
58	MP3C	X	-5.389	3.5
59	MP3C	Z	-3.111	3.5
60	MP3C	Mx	0.003	3.5
61	MP3C	X	-5.389	3.5
62	MP3C	Z	-3.111	3.5
63	MP3C	Mx	0.002	3.5
64	MP1A	X	-13.806	1.25
65	MP1A	Z	-7.971	1.25
66	MP1A	Mx	0.007	1.25
67	MP1A	X	-13.806	4.25
68	MP1A	Z	-7.971	4.25
69	MP1A	Mx	0.007	4.25
70	MP1B	X	-9.079	1.25
71	MP1B	Z	-5.242	1.25
72	MP1B	Mx	-0.002	1.25
73	MP1B	X	-9.079	4.25
74	MP1B	Z	-5.242	4.25
75	MP1B	Mx	-0.002	4.25
76	MP1C	X	-13.806	1.25
77	MP1C	Z	-7.971	1.25
78	MP1C	Mx	-0.007	1.25
79	MP1C	X	-13.806	4.25
80	MP1C	Z	-7.971	4.25
81	MP1C	Mx	-0.007	4.25
82	MP5A	X	-13.806	1.25
83	MP5A	Z	-7.971	1.25
84	MP5A	Mx	0.007	1.25
85	MP5A	X	-13.806	4.25
86	MP5A	Z	-7.971	4.25
87	MP5A	Mx	0.007	4.25
88	MP5B	X	-9.079	1.25
89	MP5B	Z	-5.242	1.25
90	MP5B	Mx	-0.002	1.25
91	MP5B	X	-9.079	4.25
92	MP5B	Z	-5.242	4.25
93	MP5B	Mx	-0.002	4.25
94	MP5C	X	-13.806	1.25
95	MP5C	Z	-7.971	1.25
96	MP5C	Mx	-0.007	1.25
97	MP5C	X	-13.806	4.25
98	MP5C	Z	-7.971	4.25
99	MP5C	Mx	-0.007	4.25
100	MP3A	X	-2.293	5.5
101	MP3A	Z	-1.324	5.5
102	MP3A	Mx	-0.001	5.5
103	MP3B	X	-2.738	5.5
104	MP3B	Z	-1.581	5.5
105	MP3B	Mx	0.000541	5.5
106	MP3C	X	-2.293	5.5
107	MP3C	Z	-1.324	5.5
108	MP3C	Mx	0.001	5.5
109	M128A	X	-22.549	1
110	M128A	Z	-13.019	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	-7.842	3.75
113	MP2A	Z	-4.528	3.75
114	MP2A	Mx	0.004	3.75
115	MP2A	X	-7.842	5.75
116	MP2A	Z	-4.528	5.75
117	MP2A	Mx	0.004	5.75
118	M137	X	-7.842	5.75
119	M137	X	-7.842	3.75
120	M137	Z	-4.528	3.75
121	M137	Z	-4.528	5.75
122	M137	Mx	0.004	3.75
123	M137	Mx	0.004	5.75
124	M140	X	-7.842	5.75
125	M140	X	-7.842	3.75
126	M140	Z	-4.528	3.75
127	M140	Z	-4.528	5.75
128	M140	Mx	0.004	3.75
129	M140	Mx	0.004	5.75
130	M141	X	-22.549	1
131	M141	Mx	0	1
132	M141	Mx	0	1
133	M141	Z	-13.019	1
134	M141	X	-22.549	1
135	M141	Z	-13.019	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-13.757	1
2	MP3A	Z	-23.827	1
3	MP3A	Mx	0.023	1
4	MP3A	X	-13.757	5
5	MP3A	Z	-23.827	5
6	MP3A	Mx	0.023	5
7	MP3B	X	-14.801	1
8	MP3B	Z	-25.635	1
9	MP3B	Mx	-0.017	1
10	MP3B	X	-14.801	5
11	MP3B	Z	-25.635	5
12	MP3B	Mx	-0.017	5
13	MP3C	X	-10.196	1
14	MP3C	Z	-17.659	1
15	MP3C	Mx	-0.01	1
16	MP3C	X	-10.196	5
17	MP3C	Z	-17.659	5
18	MP3C	Mx	-0.01	5
19	MP3A	X	-13.757	1
20	MP3A	Z	-23.827	1
21	MP3A	Mx	-0.009	1
22	MP3A	X	-13.757	5
23	MP3A	Z	-23.827	5
24	MP3A	Mx	-0.009	5
25	MP3B	X	-14.801	1
26	MP3B	Z	-25.635	1
27	MP3B	Mx	0.022	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-14.801	5
29	MP3B	Z	-25.635	5
30	MP3B	Mx	0.022	5
31	MP3C	X	-10.196	1
32	MP3C	Z	-17.659	1
33	MP3C	Mx	-0.01	1
34	MP3C	X	-10.196	5
35	MP3C	Z	-17.659	5
36	MP3C	Mx	-0.01	5
37	MP3A	X	-6.192	2
38	MP3A	Z	-10.724	2
39	MP3A	Mx	-0.003	2
40	MP3B	X	-6.64	2
41	MP3B	Z	-11.501	2
42	MP3B	Mx	-0.001	2
43	MP3C	X	-4.662	2
44	MP3C	Z	-8.075	2
45	MP3C	Mx	0.005	2
46	MP4A	X	-5.998	2
47	MP4A	Z	-10.389	2
48	MP4A	Mx	-0.003	2
49	MP4B	X	-6.617	2
50	MP4B	Z	-11.46	2
51	MP4B	Mx	-0.001	2
52	MP4C	X	-3.888	2
53	MP4C	Z	-6.733	2
54	MP4C	Mx	0.004	2
55	M128A	X	-13.769	1
56	M128A	Z	-23.848	1
57	M128A	Mx	0	1
58	MP3C	X	-3.685	3.5
59	MP3C	Z	-6.382	3.5
60	MP3C	Mx	0.004	3.5
61	MP3C	X	-3.685	3.5
62	MP3C	Z	-6.382	3.5
63	MP3C	Mx	0.004	3.5
64	MP1A	X	-5.815	1.25
65	MP1A	Z	-10.072	1.25
66	MP1A	Mx	0.003	1.25
67	MP1A	X	-5.815	4.25
68	MP1A	Z	-10.072	4.25
69	MP1A	Mx	0.003	4.25
70	MP1B	X	-4.868	1.25
71	MP1B	Z	-8.431	1.25
72	MP1B	Mx	0.000845	1.25
73	MP1B	X	-4.868	4.25
74	MP1B	Z	-8.431	4.25
75	MP1B	Mx	0.000845	4.25
76	MP1C	X	-9.049	1.25
77	MP1C	Z	-15.673	1.25
78	MP1C	Mx	-0.009	1.25
79	MP1C	X	-9.049	4.25
80	MP1C	Z	-15.673	4.25
81	MP1C	Mx	-0.009	4.25
82	MP5A	X	-5.815	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	-10.072	1.25
84	MP5A	Mx	0.003	1.25
85	MP5A	X	-5.815	4.25
86	MP5A	Z	-10.072	4.25
87	MP5A	Mx	0.003	4.25
88	MP5B	X	-4.868	1.25
89	MP5B	Z	-8.431	1.25
90	MP5B	Mx	0.000845	1.25
91	MP5B	X	-4.868	4.25
92	MP5B	Z	-8.431	4.25
93	MP5B	Mx	0.000845	4.25
94	MP5C	X	-9.049	1.25
95	MP5C	Z	-15.673	1.25
96	MP5C	Mx	-0.009	1.25
97	MP5C	X	-9.049	4.25
98	MP5C	Z	-15.673	4.25
99	MP5C	Mx	-0.009	4.25
100	MP3A	X	-1.527	5.5
101	MP3A	Z	-2.644	5.5
102	MP3A	Mx	-0.000764	5.5
103	MP3B	X	-1.616	5.5
104	MP3B	Z	-2.799	5.5
105	MP3B	Mx	-0.000281	5.5
106	MP3C	X	-1.222	5.5
107	MP3C	Z	-2.117	5.5
108	MP3C	Mx	0.001	5.5
109	M128A	X	-13.769	1
110	M128A	Z	-23.848	1
111	M128A	Mx	0	1
112	MP2A	X	-6.809	3.75
113	MP2A	Z	-11.793	3.75
114	MP2A	Mx	0.003	3.75
115	MP2A	X	-6.809	5.75
116	MP2A	Z	-11.793	5.75
117	MP2A	Mx	0.003	5.75
118	M137	Z	-11.793	3.75
119	M137	X	-6.809	5.75
120	M137	Z	-11.793	5.75
121	M137	Mx	0.003	3.75
122	M137	Mx	0.003	5.75
123	M137	X	-6.809	3.75
124	M140	Z	-11.793	3.75
125	M140	X	-6.809	5.75
126	M140	Z	-11.793	5.75
127	M140	Mx	0.003	3.75
128	M140	Mx	0.003	5.75
129	M140	X	-6.809	3.75
130	M141	Z	-23.848	1
131	M141	Mx	0	1
132	M141	X	-13.769	1
133	M141	X	-13.769	1
134	M141	Mx	0	1
135	M141	Z	-23.848	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1
2	MP3A	Z	-9.814	1
3	MP3A	Mx	0.007	1
4	MP3A	X	0	5
5	MP3A	Z	-9.814	5
6	MP3A	Mx	0.007	5
7	MP3B	X	0	1
8	MP3B	Z	-8.423	1
9	MP3B	Mx	-0.002	1
10	MP3B	X	0	5
11	MP3B	Z	-8.423	5
12	MP3B	Mx	-0.002	5
13	MP3C	X	0	1
14	MP3C	Z	-7.288	1
15	MP3C	Mx	-0.006	1
16	MP3C	X	0	5
17	MP3C	Z	-7.288	5
18	MP3C	Mx	-0.006	5
19	MP3A	X	0	1
20	MP3A	Z	-9.814	1
21	MP3A	Mx	-0.007	1
22	MP3A	X	0	5
23	MP3A	Z	-9.814	5
24	MP3A	Mx	-0.007	5
25	MP3B	X	0	1
26	MP3B	Z	-8.423	1
27	MP3B	Mx	0.007	1
28	MP3B	X	0	5
29	MP3B	Z	-8.423	5
30	MP3B	Mx	0.007	5
31	MP3C	X	0	1
32	MP3C	Z	-7.288	1
33	MP3C	Mx	-0.000726	1
34	MP3C	X	0	5
35	MP3C	Z	-7.288	5
36	MP3C	Mx	-0.000726	5
37	MP3A	X	0	2
38	MP3A	Z	-3.34	2
39	MP3A	Mx	0	2
40	MP3B	X	0	2
41	MP3B	Z	-2.886	2
42	MP3B	Mx	-0.000928	2
43	MP3C	X	0	2
44	MP3C	Z	-2.516	2
45	MP3C	Mx	0.001	2
46	MP4A	X	0	2
47	MP4A	Z	-3.34	2
48	MP4A	Mx	0	2
49	MP4B	X	0	2
50	MP4B	Z	-2.717	2
51	MP4B	Mx	-0.000873	2
52	MP4C	X	0	2
53	MP4C	Z	-2.209	2
54	MP4C	Mx	0.000957	2
55	M128A	X	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-6.421	1
57	M128A	Mx	0	1
58	MP3C	X	0	3.5
59	MP3C	Z	-2.073	3.5
60	MP3C	Mx	0.000639	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	-2.073	3.5
63	MP3C	Mx	0.001	3.5
64	MP1A	X	0	1.25
65	MP1A	Z	-2.812	1.25
66	MP1A	Mx	0	1.25
67	MP1A	X	0	4.25
68	MP1A	Z	-2.812	4.25
69	MP1A	Mx	0	4.25
70	MP1B	X	0	1.25
71	MP1B	Z	-4.053	1.25
72	MP1B	Mx	0.001	1.25
73	MP1B	X	0	4.25
74	MP1B	Z	-4.053	4.25
75	MP1B	Mx	0.001	4.25
76	MP1C	X	0	1.25
77	MP1C	Z	-5.065	1.25
78	MP1C	Mx	-0.002	1.25
79	MP1C	X	0	4.25
80	MP1C	Z	-5.065	4.25
81	MP1C	Mx	-0.002	4.25
82	MP5A	X	0	1.25
83	MP5A	Z	-2.812	1.25
84	MP5A	Mx	0	1.25
85	MP5A	X	0	4.25
86	MP5A	Z	-2.812	4.25
87	MP5A	Mx	0	4.25
88	MP5B	X	0	1.25
89	MP5B	Z	-4.053	1.25
90	MP5B	Mx	0.001	1.25
91	MP5B	X	0	4.25
92	MP5B	Z	-4.053	4.25
93	MP5B	Mx	0.001	4.25
94	MP5C	X	0	1.25
95	MP5C	Z	-5.065	1.25
96	MP5C	Mx	-0.002	1.25
97	MP5C	X	0	4.25
98	MP5C	Z	-5.065	4.25
99	MP5C	Mx	-0.002	4.25
100	MP3A	X	0	5.5
101	MP3A	Z	-0.797	5.5
102	MP3A	Mx	0	5.5
103	MP3B	X	0	5.5
104	MP3B	Z	-0.696	5.5
105	MP3B	Mx	-0.000224	5.5
106	MP3C	X	0	5.5
107	MP3C	Z	-0.613	5.5
108	MP3C	Mx	0.000265	5.5
109	M128A	X	0	1
110	M128A	Z	-6.421	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	0	3.75
113	MP2A	Z	-4.223	3.75
114	MP2A	Mx	0	3.75
115	MP2A	X	0	5.75
116	MP2A	Z	-4.223	5.75
117	MP2A	Mx	0	5.75
118	M137	Z	-4.223	5.75
119	M137	X	0	5.75
120	M137	X	0	3.75
121	M137	Mx	0	3.75
122	M137	Z	-4.223	3.75
123	M137	Mx	0	5.75
124	M140	Z	-4.223	5.75
125	M140	X	0	5.75
126	M140	X	0	3.75
127	M140	Mx	0	3.75
128	M140	Z	-4.223	3.75
129	M140	Mx	0	5.75
130	M141	X	0	1
131	M141	Mx	0	1
132	M141	Z	-6.421	1
133	M141	Z	-6.421	1
134	M141	Mx	0	1
135	M141	X	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	4.486	1
2	MP3A	Z	-7.77	1
3	MP3A	Mx	0.003	1
4	MP3A	X	4.486	5
5	MP3A	Z	-7.77	5
6	MP3A	Mx	0.003	5
7	MP3B	X	3.42	1
8	MP3B	Z	-5.924	1
9	MP3B	Mx	0.002	1
10	MP3B	X	3.42	5
11	MP3B	Z	-5.924	5
12	MP3B	Mx	0.002	5
13	MP3C	X	4.486	1
14	MP3C	Z	-7.77	1
15	MP3C	Mx	-0.007	1
16	MP3C	X	4.486	5
17	MP3C	Z	-7.77	5
18	MP3C	Mx	-0.007	5
19	MP3A	X	4.486	1
20	MP3A	Z	-7.77	1
21	MP3A	Mx	-0.007	1
22	MP3A	X	4.486	5
23	MP3A	Z	-7.77	5
24	MP3A	Mx	-0.007	5
25	MP3B	X	3.42	1
26	MP3B	Z	-5.924	1
27	MP3B	Mx	0.005	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	3.42	5
29	MP3B	Z	-5.924	5
30	MP3B	Mx	0.005	5
31	MP3C	X	4.486	1
32	MP3C	Z	-7.77	1
33	MP3C	Mx	0.003	1
34	MP3C	X	4.486	5
35	MP3C	Z	-7.77	5
36	MP3C	Mx	0.003	5
37	MP3A	X	1.533	2
38	MP3A	Z	-2.654	2
39	MP3A	Mx	0.000766	2
40	MP3B	X	1.185	2
41	MP3B	Z	-2.052	2
42	MP3B	Mx	-0.001	2
43	MP3C	X	1.533	2
44	MP3C	Z	-2.654	2
45	MP3C	Mx	0.000766	2
46	MP4A	X	1.481	2
47	MP4A	Z	-2.566	2
48	MP4A	Mx	0.00074	2
49	MP4B	X	1.004	2
50	MP4B	Z	-1.739	2
51	MP4B	Mx	-0.000943	2
52	MP4C	X	1.481	2
53	MP4C	Z	-2.566	2
54	MP4C	Mx	0.000741	2
55	M128A	X	2.801	1
56	M128A	Z	-4.852	1
57	M128A	Mx	0	1
58	MP3C	X	1.035	3.5
59	MP3C	Z	-1.793	3.5
60	MP3C	Mx	6.9e-5	3.5
61	MP3C	X	1.035	3.5
62	MP3C	Z	-1.793	3.5
63	MP3C	Mx	0.000966	3.5
64	MP1A	X	1.781	1.25
65	MP1A	Z	-3.086	1.25
66	MP1A	Mx	-0.00089	1.25
67	MP1A	X	1.781	4.25
68	MP1A	Z	-3.086	4.25
69	MP1A	Mx	-0.00089	4.25
70	MP1B	X	2.732	1.25
71	MP1B	Z	-4.733	1.25
72	MP1B	Mx	0.003	1.25
73	MP1B	X	2.732	4.25
74	MP1B	Z	-4.733	4.25
75	MP1B	Mx	0.003	4.25
76	MP1C	X	1.781	1.25
77	MP1C	Z	-3.086	1.25
78	MP1C	Mx	-0.000891	1.25
79	MP1C	X	1.781	4.25
80	MP1C	Z	-3.086	4.25
81	MP1C	Mx	-0.000891	4.25
82	MP5A	X	1.781	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	-3.086	1.25
84	MP5A	Mx	-0.00089	1.25
85	MP5A	X	1.781	4.25
86	MP5A	Z	-3.086	4.25
87	MP5A	Mx	-0.00089	4.25
88	MP5B	X	2.732	1.25
89	MP5B	Z	-4.733	1.25
90	MP5B	Mx	0.003	1.25
91	MP5B	X	2.732	4.25
92	MP5B	Z	-4.733	4.25
93	MP5B	Mx	0.003	4.25
94	MP5C	X	1.781	1.25
95	MP5C	Z	-3.086	1.25
96	MP5C	Mx	-0.000891	1.25
97	MP5C	X	1.781	4.25
98	MP5C	Z	-3.086	4.25
99	MP5C	Mx	-0.000891	4.25
100	MP3A	X	0.368	5.5
101	MP3A	Z	-0.637	5.5
102	MP3A	Mx	0.000184	5.5
103	MP3B	X	0.29	5.5
104	MP3B	Z	-0.503	5.5
105	MP3B	Mx	-0.000273	5.5
106	MP3C	X	0.368	5.5
107	MP3C	Z	-0.637	5.5
108	MP3C	Mx	0.000184	5.5
109	M128A	X	2.801	1
110	M128A	Z	-4.852	1
111	M128A	Mx	0	1
112	MP2A	X	1.765	3.75
113	MP2A	Z	-3.058	3.75
114	MP2A	Mx	-0.000882	3.75
115	MP2A	X	1.765	5.75
116	MP2A	Z	-3.058	5.75
117	MP2A	Mx	-0.000882	5.75
118	M137	X	1.765	5.75
119	M137	Z	-3.058	3.75
120	M137	Mx	-0.000882	3.75
121	M137	X	1.765	3.75
122	M137	Z	-3.058	5.75
123	M137	Mx	-0.000882	5.75
124	M140	X	1.765	5.75
125	M140	Z	-3.058	3.75
126	M140	Mx	-0.000882	3.75
127	M140	X	1.765	3.75
128	M140	Z	-3.058	5.75
129	M140	Mx	-0.000882	5.75
130	M141	Z	-4.852	1
131	M141	Mx	0	1
132	M141	Z	-4.852	1
133	M141	X	2.801	1
134	M141	X	2.801	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	6.312	1
2	MP3A	Z	-3.644	1
3	MP3A	Mx	-0.000727	1
4	MP3A	X	6.312	5
5	MP3A	Z	-3.644	5
6	MP3A	Mx	-0.000727	5
7	MP3B	X	5.67	1
8	MP3B	Z	-3.274	1
9	MP3B	Mx	0.004	1
10	MP3B	X	5.67	5
11	MP3B	Z	-3.274	5
12	MP3B	Mx	0.004	5
13	MP3C	X	8.5	1
14	MP3C	Z	-4.907	1
15	MP3C	Mx	-0.007	1
16	MP3C	X	8.5	5
17	MP3C	Z	-4.907	5
18	MP3C	Mx	-0.007	5
19	MP3A	X	6.312	1
20	MP3A	Z	-3.644	1
21	MP3A	Mx	-0.006	1
22	MP3A	X	6.312	5
23	MP3A	Z	-3.644	5
24	MP3A	Mx	-0.006	5
25	MP3B	X	5.67	1
26	MP3B	Z	-3.274	1
27	MP3B	Mx	0.002	1
28	MP3B	X	5.67	5
29	MP3B	Z	-3.274	5
30	MP3B	Mx	0.002	5
31	MP3C	X	8.5	1
32	MP3C	Z	-4.907	1
33	MP3C	Mx	0.007	1
34	MP3C	X	8.5	5
35	MP3C	Z	-4.907	5
36	MP3C	Mx	0.007	5
37	MP3A	X	2.179	2
38	MP3A	Z	-1.258	2
39	MP3A	Mx	0.001	2
40	MP3B	X	1.969	2
41	MP3B	Z	-1.137	2
42	MP3B	Mx	-0.001	2
43	MP3C	X	2.892	2
44	MP3C	Z	-1.67	2
45	MP3C	Mx	0	2
46	MP4A	X	1.913	2
47	MP4A	Z	-1.104	2
48	MP4A	Mx	0.000956	2
49	MP4B	X	1.625	2
50	MP4B	Z	-0.938	2
51	MP4B	Mx	-0.000924	2
52	MP4C	X	2.892	2
53	MP4C	Z	-1.67	2
54	MP4C	Mx	0	2
55	M128A	X	4.497	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-2.596	1
57	M128A	Mx	0	1
58	MP3C	X	1.791	3.5
59	MP3C	Z	-1.034	3.5
60	MP3C	Mx	-0.000517	3.5
61	MP3C	X	1.791	3.5
62	MP3C	Z	-1.034	3.5
63	MP3C	Mx	0.000517	3.5
64	MP1A	X	4.387	1.25
65	MP1A	Z	-2.533	1.25
66	MP1A	Mx	-0.002	1.25
67	MP1A	X	4.387	4.25
68	MP1A	Z	-2.533	4.25
69	MP1A	Mx	-0.002	4.25
70	MP1B	X	4.959	1.25
71	MP1B	Z	-2.863	1.25
72	MP1B	Mx	0.003	1.25
73	MP1B	X	4.959	4.25
74	MP1B	Z	-2.863	4.25
75	MP1B	Mx	0.003	4.25
76	MP1C	X	2.435	1.25
77	MP1C	Z	-1.406	1.25
78	MP1C	Mx	0	1.25
79	MP1C	X	2.435	4.25
80	MP1C	Z	-1.406	4.25
81	MP1C	Mx	0	4.25
82	MP5A	X	4.387	1.25
83	MP5A	Z	-2.533	1.25
84	MP5A	Mx	-0.002	1.25
85	MP5A	X	4.387	4.25
86	MP5A	Z	-2.533	4.25
87	MP5A	Mx	-0.002	4.25
88	MP5B	X	4.959	1.25
89	MP5B	Z	-2.863	1.25
90	MP5B	Mx	0.003	1.25
91	MP5B	X	4.959	4.25
92	MP5B	Z	-2.863	4.25
93	MP5B	Mx	0.003	4.25
94	MP5C	X	2.435	1.25
95	MP5C	Z	-1.406	1.25
96	MP5C	Mx	0	1.25
97	MP5C	X	2.435	4.25
98	MP5C	Z	-1.406	4.25
99	MP5C	Mx	0	4.25
100	MP3A	X	0.531	5.5
101	MP3A	Z	-0.307	5.5
102	MP3A	Mx	0.000266	5.5
103	MP3B	X	0.484	5.5
104	MP3B	Z	-0.279	5.5
105	MP3B	Mx	-0.000275	5.5
106	MP3C	X	0.69	5.5
107	MP3C	Z	-0.399	5.5
108	MP3C	Mx	0	5.5
109	M128A	X	4.497	1
110	M128A	Z	-2.596	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	1.859	3.75
113	MP2A	Z	-1.073	3.75
114	MP2A	Mx	-0.00093	3.75
115	MP2A	X	1.859	5.75
116	MP2A	Z	-1.073	5.75
117	MP2A	Mx	-0.00093	5.75
118	M137	X	1.859	3.75
119	M137	Mx	-0.00093	5.75
120	M137	Mx	-0.00093	3.75
121	M137	X	1.859	5.75
122	M137	Z	-1.073	5.75
123	M137	Z	-1.073	3.75
124	M140	X	1.859	3.75
125	M140	Mx	-0.00093	5.75
126	M140	Mx	-0.00093	3.75
127	M140	X	1.859	5.75
128	M140	Z	-1.073	5.75
129	M140	Z	-1.073	3.75
130	M141	Z	-2.596	1
131	M141	X	4.497	1
132	M141	X	4.497	1
133	M141	Z	-2.596	1
134	M141	Mx	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	6.446	1
2	MP3A	Z	0	1
3	MP3A	Mx	-0.003	1
4	MP3A	X	6.446	5
5	MP3A	Z	0	5
6	MP3A	Mx	-0.003	5
7	MP3B	X	7.838	1
8	MP3B	Z	0	1
9	MP3B	Mx	0.006	1
10	MP3B	X	7.838	5
11	MP3B	Z	0	5
12	MP3B	Mx	0.006	5
13	MP3C	X	8.972	1
14	MP3C	Z	0	1
15	MP3C	Mx	-0.003	1
16	MP3C	X	8.972	5
17	MP3C	Z	0	5
18	MP3C	Mx	-0.003	5
19	MP3A	X	6.446	1
20	MP3A	Z	0	1
21	MP3A	Mx	-0.003	1
22	MP3A	X	6.446	5
23	MP3A	Z	0	5
24	MP3A	Mx	-0.003	5
25	MP3B	X	7.838	1
26	MP3B	Z	0	1
27	MP3B	Mx	-0.000357	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	7.838	5
29	MP3B	Z	0	5
30	MP3B	Mx	-0.000357	5
31	MP3C	X	8.972	1
32	MP3C	Z	0	1
33	MP3C	Mx	0.007	1
34	MP3C	X	8.972	5
35	MP3C	Z	0	5
36	MP3C	Mx	0.007	5
37	MP3A	X	2.241	2
38	MP3A	Z	0	2
39	MP3A	Mx	0.001	2
40	MP3B	X	2.695	2
41	MP3B	Z	0	2
42	MP3B	Mx	-0.001	2
43	MP3C	X	3.065	2
44	MP3C	Z	0	2
45	MP3C	Mx	-0.000766	2
46	MP4A	X	1.831	2
47	MP4A	Z	0	2
48	MP4A	Mx	0.000916	2
49	MP4B	X	2.455	2
50	MP4B	Z	0	2
51	MP4B	Mx	-0.00094	2
52	MP4C	X	2.963	2
53	MP4C	Z	0	2
54	MP4C	Mx	-0.000741	2
55	M128A	X	5.602	1
56	M128A	Z	0	1
57	M128A	Mx	0	1
58	MP3C	X	2.07	3.5
59	MP3C	Z	0	3.5
60	MP3C	Mx	-0.000966	3.5
61	MP3C	X	2.07	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	-6.9e-5	3.5
64	MP1A	X	5.816	1.25
65	MP1A	Z	0	1.25
66	MP1A	Mx	-0.003	1.25
67	MP1A	X	5.816	4.25
68	MP1A	Z	0	4.25
69	MP1A	Mx	-0.003	4.25
70	MP1B	X	4.575	1.25
71	MP1B	Z	0	1.25
72	MP1B	Mx	0.002	1.25
73	MP1B	X	4.575	4.25
74	MP1B	Z	0	4.25
75	MP1B	Mx	0.002	4.25
76	MP1C	X	3.563	1.25
77	MP1C	Z	0	1.25
78	MP1C	Mx	0.000891	1.25
79	MP1C	X	3.563	4.25
80	MP1C	Z	0	4.25
81	MP1C	Mx	0.000891	4.25
82	MP5A	X	5.816	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	0	1.25
84	MP5A	Mx	-0.003	1.25
85	MP5A	X	5.816	4.25
86	MP5A	Z	0	4.25
87	MP5A	Mx	-0.003	4.25
88	MP5B	X	4.575	1.25
89	MP5B	Z	0	1.25
90	MP5B	Mx	0.002	1.25
91	MP5B	X	4.575	4.25
92	MP5B	Z	0	4.25
93	MP5B	Mx	0.002	4.25
94	MP5C	X	3.563	1.25
95	MP5C	Z	0	1.25
96	MP5C	Mx	0.000891	1.25
97	MP5C	X	3.563	4.25
98	MP5C	Z	0	4.25
99	MP5C	Mx	0.000891	4.25
100	MP3A	X	0.552	5.5
101	MP3A	Z	0	5.5
102	MP3A	Mx	0.000276	5.5
103	MP3B	X	0.653	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	-0.00025	5.5
106	MP3C	X	0.736	5.5
107	MP3C	Z	0	5.5
108	MP3C	Mx	-0.000184	5.5
109	M128A	X	5.602	1
110	M128A	Z	0	1
111	M128A	Mx	0	1
112	MP2A	X	1.454	3.75
113	MP2A	Z	0	3.75
114	MP2A	Mx	-0.000727	3.75
115	MP2A	X	1.454	5.75
116	MP2A	Z	0	5.75
117	MP2A	Mx	-0.000727	5.75
118	M137	X	1.454	5.75
119	M137	Mx	-0.000727	3.75
120	M137	X	1.454	3.75
121	M137	Mx	-0.000727	5.75
122	M137	Z	0	3.75
123	M137	Z	0	5.75
124	M140	X	1.454	5.75
125	M140	Mx	-0.000727	3.75
126	M140	X	1.454	3.75
127	M140	Mx	-0.000727	5.75
128	M140	Z	0	3.75
129	M140	Z	0	5.75
130	M141	Mx	0	1
131	M141	X	5.602	1
132	M141	Z	0	1
133	M141	Mx	0	1
134	M141	Z	0	1
135	M141	X	5.602	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	6.312	1
2	MP3A	Z	3.644	1
3	MP3A	Mx	-0.006	1
4	MP3A	X	6.312	5
5	MP3A	Z	3.644	5
6	MP3A	Mx	-0.006	5
7	MP3B	X	8.158	1
8	MP3B	Z	4.71	1
9	MP3B	Mx	0.008	1
10	MP3B	X	8.158	5
11	MP3B	Z	4.71	5
12	MP3B	Mx	0.008	5
13	MP3C	X	6.312	1
14	MP3C	Z	3.644	1
15	MP3C	Mx	0.000726	1
16	MP3C	X	6.312	5
17	MP3C	Z	3.644	5
18	MP3C	Mx	0.000726	5
19	MP3A	X	6.312	1
20	MP3A	Z	3.644	1
21	MP3A	Mx	-0.000727	1
22	MP3A	X	6.312	5
23	MP3A	Z	3.644	5
24	MP3A	Mx	-0.000727	5
25	MP3B	X	8.158	1
26	MP3B	Z	4.71	1
27	MP3B	Mx	-0.004	1
28	MP3B	X	8.158	5
29	MP3B	Z	4.71	5
30	MP3B	Mx	-0.004	5
31	MP3C	X	6.312	1
32	MP3C	Z	3.644	1
33	MP3C	Mx	0.006	1
34	MP3C	X	6.312	5
35	MP3C	Z	3.644	5
36	MP3C	Mx	0.006	5
37	MP3A	X	2.179	2
38	MP3A	Z	1.258	2
39	MP3A	Mx	0.001	2
40	MP3B	X	2.781	2
41	MP3B	Z	1.606	2
42	MP3B	Mx	-0.000549	2
43	MP3C	X	2.179	2
44	MP3C	Z	1.258	2
45	MP3C	Mx	-0.001	2
46	MP4A	X	1.913	2
47	MP4A	Z	1.104	2
48	MP4A	Mx	0.000956	2
49	MP4B	X	2.739	2
50	MP4B	Z	1.582	2
51	MP4B	Mx	-0.000541	2
52	MP4C	X	1.913	2
53	MP4C	Z	1.104	2
54	MP4C	Mx	-0.000956	2
55	M128A	X	5.561	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	3.21	1
57	M128A	Mx	0	1
58	MP3C	X	1.795	3.5
59	MP3C	Z	1.037	3.5
60	MP3C	Mx	-0.001	3.5
61	MP3C	X	1.795	3.5
62	MP3C	Z	1.037	3.5
63	MP3C	Mx	-0.000639	3.5
64	MP1A	X	4.387	1.25
65	MP1A	Z	2.533	1.25
66	MP1A	Mx	-0.002	1.25
67	MP1A	X	4.387	4.25
68	MP1A	Z	2.533	4.25
69	MP1A	Mx	-0.002	4.25
70	MP1B	X	2.739	1.25
71	MP1B	Z	1.582	1.25
72	MP1B	Mx	0.000541	1.25
73	MP1B	X	2.739	4.25
74	MP1B	Z	1.582	4.25
75	MP1B	Mx	0.000541	4.25
76	MP1C	X	4.387	1.25
77	MP1C	Z	2.533	1.25
78	MP1C	Mx	0.002	1.25
79	MP1C	X	4.387	4.25
80	MP1C	Z	2.533	4.25
81	MP1C	Mx	0.002	4.25
82	MP5A	X	4.387	1.25
83	MP5A	Z	2.533	1.25
84	MP5A	Mx	-0.002	1.25
85	MP5A	X	4.387	4.25
86	MP5A	Z	2.533	4.25
87	MP5A	Mx	-0.002	4.25
88	MP5B	X	2.739	1.25
89	MP5B	Z	1.582	1.25
90	MP5B	Mx	0.000541	1.25
91	MP5B	X	2.739	4.25
92	MP5B	Z	1.582	4.25
93	MP5B	Mx	0.000541	4.25
94	MP5C	X	4.387	1.25
95	MP5C	Z	2.533	1.25
96	MP5C	Mx	0.002	1.25
97	MP5C	X	4.387	4.25
98	MP5C	Z	2.533	4.25
99	MP5C	Mx	0.002	4.25
100	MP3A	X	0.531	5.5
101	MP3A	Z	0.307	5.5
102	MP3A	Mx	0.000266	5.5
103	MP3B	X	0.666	5.5
104	MP3B	Z	0.384	5.5
105	MP3B	Mx	-0.000132	5.5
106	MP3C	X	0.531	5.5
107	MP3C	Z	0.307	5.5
108	MP3C	Mx	-0.000266	5.5
109	M128A	X	5.561	1
110	M128A	Z	3.21	1



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	1.859	3.75
113	MP2A	Z	1.073	3.75
114	MP2A	Mx	-0.00093	3.75
115	MP2A	X	1.859	5.75
116	MP2A	Z	1.073	5.75
117	MP2A	Mx	-0.00093	5.75
118	M137	Mx	-0.00093	3.75
119	M137	X	1.859	5.75
120	M137	X	1.859	3.75
121	M137	Z	1.073	5.75
122	M137	Z	1.073	3.75
123	M137	Mx	-0.00093	5.75
124	M140	Mx	-0.00093	3.75
125	M140	X	1.859	5.75
126	M140	X	1.859	3.75
127	M140	Z	1.073	5.75
128	M140	Z	1.073	3.75
129	M140	Mx	-0.00093	5.75
130	M141	X	5.561	1
131	M141	X	5.561	1
132	M141	Mx	0	1
133	M141	Z	3.21	1
134	M141	Z	3.21	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	4.486	1
2	MP3A	Z	7.77	1
3	MP3A	Mx	-0.007	1
4	MP3A	X	4.486	5
5	MP3A	Z	7.77	5
6	MP3A	Mx	-0.007	5
7	MP3B	X	4.856	1
8	MP3B	Z	8.412	1
9	MP3B	Mx	0.006	1
10	MP3B	X	4.856	5
11	MP3B	Z	8.412	5
12	MP3B	Mx	0.006	5
13	MP3C	X	3.223	1
14	MP3C	Z	5.582	1
15	MP3C	Mx	0.003	1
16	MP3C	X	3.223	5
17	MP3C	Z	5.582	5
18	MP3C	Mx	0.003	5
19	MP3A	X	4.486	1
20	MP3A	Z	7.77	1
21	MP3A	Mx	0.003	1
22	MP3A	X	4.486	5
23	MP3A	Z	7.77	5
24	MP3A	Mx	0.003	5
25	MP3B	X	4.856	1
26	MP3B	Z	8.412	1
27	MP3B	Mx	-0.007	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	4.856	5
29	MP3B	Z	8.412	5
30	MP3B	Mx	-0.007	5
31	MP3C	X	3.223	1
32	MP3C	Z	5.582	1
33	MP3C	Mx	0.003	1
34	MP3C	X	3.223	5
35	MP3C	Z	5.582	5
36	MP3C	Mx	0.003	5
37	MP3A	X	1.533	2
38	MP3A	Z	2.654	2
39	MP3A	Mx	0.000766	2
40	MP3B	X	1.653	2
41	MP3B	Z	2.864	2
42	MP3B	Mx	0.000287	2
43	MP3C	X	1.12	2
44	MP3C	Z	1.941	2
45	MP3C	Mx	-0.001	2
46	MP4A	X	1.481	2
47	MP4A	Z	2.566	2
48	MP4A	Mx	0.00074	2
49	MP4B	X	1.647	2
50	MP4B	Z	2.853	2
51	MP4B	Mx	0.000286	2
52	MP4C	X	0.916	2
53	MP4C	Z	1.586	2
54	MP4C	Mx	-0.000916	2
55	M128A	X	3.415	1
56	M128A	Z	5.915	1
57	M128A	Mx	0	1
58	MP3C	X	1.037	3.5
59	MP3C	Z	1.797	3.5
60	MP3C	Mx	-0.001	3.5
61	MP3C	X	1.037	3.5
62	MP3C	Z	1.797	3.5
63	MP3C	Mx	-0.001	3.5
64	MP1A	X	1.781	1.25
65	MP1A	Z	3.086	1.25
66	MP1A	Mx	-0.00089	1.25
67	MP1A	X	1.781	4.25
68	MP1A	Z	3.086	4.25
69	MP1A	Mx	-0.00089	4.25
70	MP1B	X	1.451	1.25
71	MP1B	Z	2.514	1.25
72	MP1B	Mx	-0.000252	1.25
73	MP1B	X	1.451	4.25
74	MP1B	Z	2.514	4.25
75	MP1B	Mx	-0.000252	4.25
76	MP1C	X	2.908	1.25
77	MP1C	Z	5.037	1.25
78	MP1C	Mx	0.003	1.25
79	MP1C	X	2.908	4.25
80	MP1C	Z	5.037	4.25
81	MP1C	Mx	0.003	4.25
82	MP5A	X	1.781	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	3.086	1.25
84	MP5A	Mx	-0.00089	1.25
85	MP5A	X	1.781	4.25
86	MP5A	Z	3.086	4.25
87	MP5A	Mx	-0.00089	4.25
88	MP5B	X	1.451	1.25
89	MP5B	Z	2.514	1.25
90	MP5B	Mx	-0.000252	1.25
91	MP5B	X	1.451	4.25
92	MP5B	Z	2.514	4.25
93	MP5B	Mx	-0.000252	4.25
94	MP5C	X	2.908	1.25
95	MP5C	Z	5.037	1.25
96	MP5C	Mx	0.003	1.25
97	MP5C	X	2.908	4.25
98	MP5C	Z	5.037	4.25
99	MP5C	Mx	0.003	4.25
100	MP3A	X	0.368	5.5
101	MP3A	Z	0.637	5.5
102	MP3A	Mx	0.000184	5.5
103	MP3B	X	0.395	5.5
104	MP3B	Z	0.684	5.5
105	MP3B	Mx	6.9e-5	5.5
106	MP3C	X	0.276	5.5
107	MP3C	Z	0.478	5.5
108	MP3C	Mx	-0.000276	5.5
109	M128A	X	3.415	1
110	M128A	Z	5.915	1
111	M128A	Mx	0	1
112	MP2A	X	1.765	3.75
113	MP2A	Z	3.058	3.75
114	MP2A	Mx	-0.000882	3.75
115	MP2A	X	1.765	5.75
116	MP2A	Z	3.058	5.75
117	MP2A	Mx	-0.000882	5.75
118	M137	X	1.765	3.75
119	M137	Mx	-0.000882	3.75
120	M137	X	1.765	5.75
121	M137	Z	3.058	3.75
122	M137	Mx	-0.000882	5.75
123	M137	Z	3.058	5.75
124	M140	X	1.765	3.75
125	M140	Mx	-0.000882	3.75
126	M140	X	1.765	5.75
127	M140	Z	3.058	3.75
128	M140	Mx	-0.000882	5.75
129	M140	Z	3.058	5.75
130	M141	Mx	0	1
131	M141	Z	5.915	1
132	M141	X	3.415	1
133	M141	X	3.415	1
134	M141	Z	5.915	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	1
2	MP3A	Z	9.814	1
3	MP3A	Mx	-0.007	1
4	MP3A	X	0	5
5	MP3A	Z	9.814	5
6	MP3A	Mx	-0.007	5
7	MP3B	X	0	1
8	MP3B	Z	8.423	1
9	MP3B	Mx	0.002	1
10	MP3B	X	0	5
11	MP3B	Z	8.423	5
12	MP3B	Mx	0.002	5
13	MP3C	X	0	1
14	MP3C	Z	7.288	1
15	MP3C	Mx	0.006	1
16	MP3C	X	0	5
17	MP3C	Z	7.288	5
18	MP3C	Mx	0.006	5
19	MP3A	X	0	1
20	MP3A	Z	9.814	1
21	MP3A	Mx	0.007	1
22	MP3A	X	0	5
23	MP3A	Z	9.814	5
24	MP3A	Mx	0.007	5
25	MP3B	X	0	1
26	MP3B	Z	8.423	1
27	MP3B	Mx	-0.007	1
28	MP3B	X	0	5
29	MP3B	Z	8.423	5
30	MP3B	Mx	-0.007	5
31	MP3C	X	0	1
32	MP3C	Z	7.288	1
33	MP3C	Mx	0.000726	1
34	MP3C	X	0	5
35	MP3C	Z	7.288	5
36	MP3C	Mx	0.000726	5
37	MP3A	X	0	2
38	MP3A	Z	3.34	2
39	MP3A	Mx	0	2
40	MP3B	X	0	2
41	MP3B	Z	2.886	2
42	MP3B	Mx	0.000928	2
43	MP3C	X	0	2
44	MP3C	Z	2.516	2
45	MP3C	Mx	-0.001	2
46	MP4A	X	0	2
47	MP4A	Z	3.34	2
48	MP4A	Mx	0	2
49	MP4B	X	0	2
50	MP4B	Z	2.717	2
51	MP4B	Mx	0.000873	2
52	MP4C	X	0	2
53	MP4C	Z	2.209	2
54	MP4C	Mx	-0.000957	2
55	M128A	X	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	6.421	1
57	M128A	Mx	0	1
58	MP3C	X	0	3.5
59	MP3C	Z	2.073	3.5
60	MP3C	Mx	-0.000639	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	2.073	3.5
63	MP3C	Mx	-0.001	3.5
64	MP1A	X	0	1.25
65	MP1A	Z	2.812	1.25
66	MP1A	Mx	0	1.25
67	MP1A	X	0	4.25
68	MP1A	Z	2.812	4.25
69	MP1A	Mx	0	4.25
70	MP1B	X	0	1.25
71	MP1B	Z	4.053	1.25
72	MP1B	Mx	-0.001	1.25
73	MP1B	X	0	4.25
74	MP1B	Z	4.053	4.25
75	MP1B	Mx	-0.001	4.25
76	MP1C	X	0	1.25
77	MP1C	Z	5.065	1.25
78	MP1C	Mx	0.002	1.25
79	MP1C	X	0	4.25
80	MP1C	Z	5.065	4.25
81	MP1C	Mx	0.002	4.25
82	MP5A	X	0	1.25
83	MP5A	Z	2.812	1.25
84	MP5A	Mx	0	1.25
85	MP5A	X	0	4.25
86	MP5A	Z	2.812	4.25
87	MP5A	Mx	0	4.25
88	MP5B	X	0	1.25
89	MP5B	Z	4.053	1.25
90	MP5B	Mx	-0.001	1.25
91	MP5B	X	0	4.25
92	MP5B	Z	4.053	4.25
93	MP5B	Mx	-0.001	4.25
94	MP5C	X	0	1.25
95	MP5C	Z	5.065	1.25
96	MP5C	Mx	0.002	1.25
97	MP5C	X	0	4.25
98	MP5C	Z	5.065	4.25
99	MP5C	Mx	0.002	4.25
100	MP3A	X	0	5.5
101	MP3A	Z	0.797	5.5
102	MP3A	Mx	0	5.5
103	MP3B	X	0	5.5
104	MP3B	Z	0.696	5.5
105	MP3B	Mx	0.000224	5.5
106	MP3C	X	0	5.5
107	MP3C	Z	0.613	5.5
108	MP3C	Mx	-0.000265	5.5
109	M128A	X	0	1
110	M128A	Z	6.421	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	0	3.75
113	MP2A	Z	4.223	3.75
114	MP2A	Mx	0	3.75
115	MP2A	X	0	5.75
116	MP2A	Z	4.223	5.75
117	MP2A	Mx	0	5.75
118	M137	Mx	0	5.75
119	M137	Z	4.223	3.75
120	M137	X	0	3.75
121	M137	X	0	5.75
122	M137	Mx	0	3.75
123	M137	Z	4.223	5.75
124	M140	Mx	0	5.75
125	M140	Z	4.223	3.75
126	M140	X	0	3.75
127	M140	X	0	5.75
128	M140	Mx	0	3.75
129	M140	Z	4.223	5.75
130	M141	X	0	1
131	M141	Z	6.421	1
132	M141	Z	6.421	1
133	M141	Mx	0	1
134	M141	X	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-4.486	1
2	MP3A	Z	7.77	1
3	MP3A	Mx	-0.003	1
4	MP3A	X	-4.486	5
5	MP3A	Z	7.77	5
6	MP3A	Mx	-0.003	5
7	MP3B	X	-3.42	1
8	MP3B	Z	5.924	1
9	MP3B	Mx	-0.002	1
10	MP3B	X	-3.42	5
11	MP3B	Z	5.924	5
12	MP3B	Mx	-0.002	5
13	MP3C	X	-4.486	1
14	MP3C	Z	7.77	1
15	MP3C	Mx	0.007	1
16	MP3C	X	-4.486	5
17	MP3C	Z	7.77	5
18	MP3C	Mx	0.007	5
19	MP3A	X	-4.486	1
20	MP3A	Z	7.77	1
21	MP3A	Mx	0.007	1
22	MP3A	X	-4.486	5
23	MP3A	Z	7.77	5
24	MP3A	Mx	0.007	5
25	MP3B	X	-3.42	1
26	MP3B	Z	5.924	1
27	MP3B	Mx	-0.005	1



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 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-3.42	5
29	MP3B	Z	5.924	5
30	MP3B	Mx	-0.005	5
31	MP3C	X	-4.486	1
32	MP3C	Z	7.77	1
33	MP3C	Mx	-0.003	1
34	MP3C	X	-4.486	5
35	MP3C	Z	7.77	5
36	MP3C	Mx	-0.003	5
37	MP3A	X	-1.533	2
38	MP3A	Z	2.654	2
39	MP3A	Mx	-0.000766	2
40	MP3B	X	-1.185	2
41	MP3B	Z	2.052	2
42	MP3B	Mx	0.001	2
43	MP3C	X	-1.533	2
44	MP3C	Z	2.654	2
45	MP3C	Mx	-0.000766	2
46	MP4A	X	-1.481	2
47	MP4A	Z	2.566	2
48	MP4A	Mx	-0.00074	2
49	MP4B	X	-1.004	2
50	MP4B	Z	1.739	2
51	MP4B	Mx	0.000943	2
52	MP4C	X	-1.481	2
53	MP4C	Z	2.566	2
54	MP4C	Mx	-0.000741	2
55	M128A	X	-2.801	1
56	M128A	Z	4.852	1
57	M128A	Mx	0	1
58	MP3C	X	-1.035	3.5
59	MP3C	Z	1.793	3.5
60	MP3C	Mx	-6.9e-5	3.5
61	MP3C	X	-1.035	3.5
62	MP3C	Z	1.793	3.5
63	MP3C	Mx	-0.000966	3.5
64	MP1A	X	-1.781	1.25
65	MP1A	Z	3.086	1.25
66	MP1A	Mx	0.00089	1.25
67	MP1A	X	-1.781	4.25
68	MP1A	Z	3.086	4.25
69	MP1A	Mx	0.00089	4.25
70	MP1B	X	-2.732	1.25
71	MP1B	Z	4.733	1.25
72	MP1B	Mx	-0.003	1.25
73	MP1B	X	-2.732	4.25
74	MP1B	Z	4.733	4.25
75	MP1B	Mx	-0.003	4.25
76	MP1C	X	-1.781	1.25
77	MP1C	Z	3.086	1.25
78	MP1C	Mx	0.000891	1.25
79	MP1C	X	-1.781	4.25
80	MP1C	Z	3.086	4.25
81	MP1C	Mx	0.000891	4.25
82	MP5A	X	-1.781	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	3.086	1.25
84	MP5A	Mx	0.00089	1.25
85	MP5A	X	-1.781	4.25
86	MP5A	Z	3.086	4.25
87	MP5A	Mx	0.00089	4.25
88	MP5B	X	-2.732	1.25
89	MP5B	Z	4.733	1.25
90	MP5B	Mx	-0.003	1.25
91	MP5B	X	-2.732	4.25
92	MP5B	Z	4.733	4.25
93	MP5B	Mx	-0.003	4.25
94	MP5C	X	-1.781	1.25
95	MP5C	Z	3.086	1.25
96	MP5C	Mx	0.000891	1.25
97	MP5C	X	-1.781	4.25
98	MP5C	Z	3.086	4.25
99	MP5C	Mx	0.000891	4.25
100	MP3A	X	-0.368	5.5
101	MP3A	Z	0.637	5.5
102	MP3A	Mx	-0.000184	5.5
103	MP3B	X	-0.29	5.5
104	MP3B	Z	0.503	5.5
105	MP3B	Mx	0.000273	5.5
106	MP3C	X	-0.368	5.5
107	MP3C	Z	0.637	5.5
108	MP3C	Mx	-0.000184	5.5
109	M128A	X	-2.801	1
110	M128A	Z	4.852	1
111	M128A	Mx	0	1
112	MP2A	X	-1.765	3.75
113	MP2A	Z	3.058	3.75
114	MP2A	Mx	0.000882	3.75
115	MP2A	X	-1.765	5.75
116	MP2A	Z	3.058	5.75
117	MP2A	Mx	0.000882	5.75
118	M137	X	-1.765	5.75
119	M137	Mx	0.000882	5.75
120	M137	Mx	0.000882	3.75
121	M137	X	-1.765	3.75
122	M137	Z	3.058	3.75
123	M137	Z	3.058	5.75
124	M140	X	-1.765	5.75
125	M140	Mx	0.000882	5.75
126	M140	Mx	0.000882	3.75
127	M140	X	-1.765	3.75
128	M140	Z	3.058	3.75
129	M140	Z	3.058	5.75
130	M141	X	-2.801	1
131	M141	X	-2.801	1
132	M141	Z	4.852	1
133	M141	Z	4.852	1
134	M141	Mx	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-6.312	1
2	MP3A	Z	3.644	1
3	MP3A	Mx	0.000727	1
4	MP3A	X	-6.312	5
5	MP3A	Z	3.644	5
6	MP3A	Mx	0.000727	5
7	MP3B	X	-5.67	1
8	MP3B	Z	3.274	1
9	MP3B	Mx	-0.004	1
10	MP3B	X	-5.67	5
11	MP3B	Z	3.274	5
12	MP3B	Mx	-0.004	5
13	MP3C	X	-8.5	1
14	MP3C	Z	4.907	1
15	MP3C	Mx	0.007	1
16	MP3C	X	-8.5	5
17	MP3C	Z	4.907	5
18	MP3C	Mx	0.007	5
19	MP3A	X	-6.312	1
20	MP3A	Z	3.644	1
21	MP3A	Mx	0.006	1
22	MP3A	X	-6.312	5
23	MP3A	Z	3.644	5
24	MP3A	Mx	0.006	5
25	MP3B	X	-5.67	1
26	MP3B	Z	3.274	1
27	MP3B	Mx	-0.002	1
28	MP3B	X	-5.67	5
29	MP3B	Z	3.274	5
30	MP3B	Mx	-0.002	5
31	MP3C	X	-8.5	1
32	MP3C	Z	4.907	1
33	MP3C	Mx	-0.007	1
34	MP3C	X	-8.5	5
35	MP3C	Z	4.907	5
36	MP3C	Mx	-0.007	5
37	MP3A	X	-2.179	2
38	MP3A	Z	1.258	2
39	MP3A	Mx	-0.001	2
40	MP3B	X	-1.969	2
41	MP3B	Z	1.137	2
42	MP3B	Mx	0.001	2
43	MP3C	X	-2.892	2
44	MP3C	Z	1.67	2
45	MP3C	Mx	0	2
46	MP4A	X	-1.913	2
47	MP4A	Z	1.104	2
48	MP4A	Mx	-0.000956	2
49	MP4B	X	-1.625	2
50	MP4B	Z	0.938	2
51	MP4B	Mx	0.000924	2
52	MP4C	X	-2.892	2
53	MP4C	Z	1.67	2
54	MP4C	Mx	0	2
55	M128A	X	-4.497	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	2.596	1
57	M128A	Mx	0	1
58	MP3C	X	-1.791	3.5
59	MP3C	Z	1.034	3.5
60	MP3C	Mx	0.000517	3.5
61	MP3C	X	-1.791	3.5
62	MP3C	Z	1.034	3.5
63	MP3C	Mx	-0.000517	3.5
64	MP1A	X	-4.387	1.25
65	MP1A	Z	2.533	1.25
66	MP1A	Mx	0.002	1.25
67	MP1A	X	-4.387	4.25
68	MP1A	Z	2.533	4.25
69	MP1A	Mx	0.002	4.25
70	MP1B	X	-4.959	1.25
71	MP1B	Z	2.863	1.25
72	MP1B	Mx	-0.003	1.25
73	MP1B	X	-4.959	4.25
74	MP1B	Z	2.863	4.25
75	MP1B	Mx	-0.003	4.25
76	MP1C	X	-2.435	1.25
77	MP1C	Z	1.406	1.25
78	MP1C	Mx	0	1.25
79	MP1C	X	-2.435	4.25
80	MP1C	Z	1.406	4.25
81	MP1C	Mx	0	4.25
82	MP5A	X	-4.387	1.25
83	MP5A	Z	2.533	1.25
84	MP5A	Mx	0.002	1.25
85	MP5A	X	-4.387	4.25
86	MP5A	Z	2.533	4.25
87	MP5A	Mx	0.002	4.25
88	MP5B	X	-4.959	1.25
89	MP5B	Z	2.863	1.25
90	MP5B	Mx	-0.003	1.25
91	MP5B	X	-4.959	4.25
92	MP5B	Z	2.863	4.25
93	MP5B	Mx	-0.003	4.25
94	MP5C	X	-2.435	1.25
95	MP5C	Z	1.406	1.25
96	MP5C	Mx	0	1.25
97	MP5C	X	-2.435	4.25
98	MP5C	Z	1.406	4.25
99	MP5C	Mx	0	4.25
100	MP3A	X	-0.531	5.5
101	MP3A	Z	0.307	5.5
102	MP3A	Mx	-0.000266	5.5
103	MP3B	X	-0.484	5.5
104	MP3B	Z	0.279	5.5
105	MP3B	Mx	0.000275	5.5
106	MP3C	X	-0.69	5.5
107	MP3C	Z	0.399	5.5
108	MP3C	Mx	0	5.5
109	M128A	X	-4.497	1
110	M128A	Z	2.596	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	-1.859	3.75
113	MP2A	Z	1.073	3.75
114	MP2A	Mx	0.00093	3.75
115	MP2A	X	-1.859	5.75
116	MP2A	Z	1.073	5.75
117	MP2A	Mx	0.00093	5.75
118	M137	X	-1.859	5.75
119	M137	Z	1.073	3.75
120	M137	Mx	0.00093	3.75
121	M137	Z	1.073	5.75
122	M137	X	-1.859	3.75
123	M137	Mx	0.00093	5.75
124	M140	X	-1.859	5.75
125	M140	Z	1.073	3.75
126	M140	Mx	0.00093	3.75
127	M140	Z	1.073	5.75
128	M140	X	-1.859	3.75
129	M140	Mx	0.00093	5.75
130	M141	Mx	0	1
131	M141	Z	2.596	1
132	M141	X	-4.497	1
133	M141	Mx	0	1
134	M141	Z	2.596	1
135	M141	X	-4.497	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-6.446	1
2	MP3A	Z	0	1
3	MP3A	Mx	0.003	1
4	MP3A	X	-6.446	5
5	MP3A	Z	0	5
6	MP3A	Mx	0.003	5
7	MP3B	X	-7.838	1
8	MP3B	Z	0	1
9	MP3B	Mx	-0.006	1
10	MP3B	X	-7.838	5
11	MP3B	Z	0	5
12	MP3B	Mx	-0.006	5
13	MP3C	X	-8.972	1
14	MP3C	Z	0	1
15	MP3C	Mx	0.003	1
16	MP3C	X	-8.972	5
17	MP3C	Z	0	5
18	MP3C	Mx	0.003	5
19	MP3A	X	-6.446	1
20	MP3A	Z	0	1
21	MP3A	Mx	0.003	1
22	MP3A	X	-6.446	5
23	MP3A	Z	0	5
24	MP3A	Mx	0.003	5
25	MP3B	X	-7.838	1
26	MP3B	Z	0	1
27	MP3B	Mx	0.000357	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-7.838	5
29	MP3B	Z	0	5
30	MP3B	Mx	0.000357	5
31	MP3C	X	-8.972	1
32	MP3C	Z	0	1
33	MP3C	Mx	-0.007	1
34	MP3C	X	-8.972	5
35	MP3C	Z	0	5
36	MP3C	Mx	-0.007	5
37	MP3A	X	-2.241	2
38	MP3A	Z	0	2
39	MP3A	Mx	-0.001	2
40	MP3B	X	-2.695	2
41	MP3B	Z	0	2
42	MP3B	Mx	0.001	2
43	MP3C	X	-3.065	2
44	MP3C	Z	0	2
45	MP3C	Mx	0.000766	2
46	MP4A	X	-1.831	2
47	MP4A	Z	0	2
48	MP4A	Mx	-0.000916	2
49	MP4B	X	-2.455	2
50	MP4B	Z	0	2
51	MP4B	Mx	0.00094	2
52	MP4C	X	-2.963	2
53	MP4C	Z	0	2
54	MP4C	Mx	0.000741	2
55	M128A	X	-5.602	1
56	M128A	Z	0	1
57	M128A	Mx	0	1
58	MP3C	X	-2.07	3.5
59	MP3C	Z	0	3.5
60	MP3C	Mx	0.000966	3.5
61	MP3C	X	-2.07	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	6.9e-5	3.5
64	MP1A	X	-5.816	1.25
65	MP1A	Z	0	1.25
66	MP1A	Mx	0.003	1.25
67	MP1A	X	-5.816	4.25
68	MP1A	Z	0	4.25
69	MP1A	Mx	0.003	4.25
70	MP1B	X	-4.575	1.25
71	MP1B	Z	0	1.25
72	MP1B	Mx	-0.002	1.25
73	MP1B	X	-4.575	4.25
74	MP1B	Z	0	4.25
75	MP1B	Mx	-0.002	4.25
76	MP1C	X	-3.563	1.25
77	MP1C	Z	0	1.25
78	MP1C	Mx	-0.000891	1.25
79	MP1C	X	-3.563	4.25
80	MP1C	Z	0	4.25
81	MP1C	Mx	-0.000891	4.25
82	MP5A	X	-5.816	1.25



Company :
 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	0	1.25
84	MP5A	Mx	0.003	1.25
85	MP5A	X	-5.816	4.25
86	MP5A	Z	0	4.25
87	MP5A	Mx	0.003	4.25
88	MP5B	X	-4.575	1.25
89	MP5B	Z	0	1.25
90	MP5B	Mx	-0.002	1.25
91	MP5B	X	-4.575	4.25
92	MP5B	Z	0	4.25
93	MP5B	Mx	-0.002	4.25
94	MP5C	X	-3.563	1.25
95	MP5C	Z	0	1.25
96	MP5C	Mx	-0.000891	1.25
97	MP5C	X	-3.563	4.25
98	MP5C	Z	0	4.25
99	MP5C	Mx	-0.000891	4.25
100	MP3A	X	-0.552	5.5
101	MP3A	Z	0	5.5
102	MP3A	Mx	-0.000276	5.5
103	MP3B	X	-0.653	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	0.00025	5.5
106	MP3C	X	-0.736	5.5
107	MP3C	Z	0	5.5
108	MP3C	Mx	0.000184	5.5
109	M128A	X	-5.602	1
110	M128A	Z	0	1
111	M128A	Mx	0	1
112	MP2A	X	-1.454	3.75
113	MP2A	Z	0	3.75
114	MP2A	Mx	0.000727	3.75
115	MP2A	X	-1.454	5.75
116	MP2A	Z	0	5.75
117	MP2A	Mx	0.000727	5.75
118	M137	Z	0	3.75
119	M137	Mx	0.000727	5.75
120	M137	X	-1.454	5.75
121	M137	Z	0	5.75
122	M137	Mx	0.000727	3.75
123	M137	X	-1.454	3.75
124	M140	Z	0	3.75
125	M140	Mx	0.000727	5.75
126	M140	X	-1.454	5.75
127	M140	Z	0	5.75
128	M140	Mx	0.000727	3.75
129	M140	X	-1.454	3.75
130	M141	Z	0	1
131	M141	Mx	0	1
132	M141	Z	0	1
133	M141	X	-5.602	1
134	M141	Mx	0	1
135	M141	X	-5.602	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-6.312	1
2	MP3A	Z	-3.644	1
3	MP3A	Mx	0.006	1
4	MP3A	X	-6.312	5
5	MP3A	Z	-3.644	5
6	MP3A	Mx	0.006	5
7	MP3B	X	-8.158	1
8	MP3B	Z	-4.71	1
9	MP3B	Mx	-0.008	1
10	MP3B	X	-8.158	5
11	MP3B	Z	-4.71	5
12	MP3B	Mx	-0.008	5
13	MP3C	X	-6.312	1
14	MP3C	Z	-3.644	1
15	MP3C	Mx	-0.000726	1
16	MP3C	X	-6.312	5
17	MP3C	Z	-3.644	5
18	MP3C	Mx	-0.000726	5
19	MP3A	X	-6.312	1
20	MP3A	Z	-3.644	1
21	MP3A	Mx	0.000727	1
22	MP3A	X	-6.312	5
23	MP3A	Z	-3.644	5
24	MP3A	Mx	0.000727	5
25	MP3B	X	-8.158	1
26	MP3B	Z	-4.71	1
27	MP3B	Mx	0.004	1
28	MP3B	X	-8.158	5
29	MP3B	Z	-4.71	5
30	MP3B	Mx	0.004	5
31	MP3C	X	-6.312	1
32	MP3C	Z	-3.644	1
33	MP3C	Mx	-0.006	1
34	MP3C	X	-6.312	5
35	MP3C	Z	-3.644	5
36	MP3C	Mx	-0.006	5
37	MP3A	X	-2.179	2
38	MP3A	Z	-1.258	2
39	MP3A	Mx	-0.001	2
40	MP3B	X	-2.781	2
41	MP3B	Z	-1.606	2
42	MP3B	Mx	0.000549	2
43	MP3C	X	-2.179	2
44	MP3C	Z	-1.258	2
45	MP3C	Mx	0.001	2
46	MP4A	X	-1.913	2
47	MP4A	Z	-1.104	2
48	MP4A	Mx	-0.000956	2
49	MP4B	X	-2.739	2
50	MP4B	Z	-1.582	2
51	MP4B	Mx	0.000541	2
52	MP4C	X	-1.913	2
53	MP4C	Z	-1.104	2
54	MP4C	Mx	0.000956	2
55	M128A	X	-5.561	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	M128A	Z	-3.21	1
57	M128A	Mx	0	1
58	MP3C	X	-1.795	3.5
59	MP3C	Z	-1.037	3.5
60	MP3C	Mx	0.001	3.5
61	MP3C	X	-1.795	3.5
62	MP3C	Z	-1.037	3.5
63	MP3C	Mx	0.000639	3.5
64	MP1A	X	-4.387	1.25
65	MP1A	Z	-2.533	1.25
66	MP1A	Mx	0.002	1.25
67	MP1A	X	-4.387	4.25
68	MP1A	Z	-2.533	4.25
69	MP1A	Mx	0.002	4.25
70	MP1B	X	-2.739	1.25
71	MP1B	Z	-1.582	1.25
72	MP1B	Mx	-0.000541	1.25
73	MP1B	X	-2.739	4.25
74	MP1B	Z	-1.582	4.25
75	MP1B	Mx	-0.000541	4.25
76	MP1C	X	-4.387	1.25
77	MP1C	Z	-2.533	1.25
78	MP1C	Mx	-0.002	1.25
79	MP1C	X	-4.387	4.25
80	MP1C	Z	-2.533	4.25
81	MP1C	Mx	-0.002	4.25
82	MP5A	X	-4.387	1.25
83	MP5A	Z	-2.533	1.25
84	MP5A	Mx	0.002	1.25
85	MP5A	X	-4.387	4.25
86	MP5A	Z	-2.533	4.25
87	MP5A	Mx	0.002	4.25
88	MP5B	X	-2.739	1.25
89	MP5B	Z	-1.582	1.25
90	MP5B	Mx	-0.000541	1.25
91	MP5B	X	-2.739	4.25
92	MP5B	Z	-1.582	4.25
93	MP5B	Mx	-0.000541	4.25
94	MP5C	X	-4.387	1.25
95	MP5C	Z	-2.533	1.25
96	MP5C	Mx	-0.002	1.25
97	MP5C	X	-4.387	4.25
98	MP5C	Z	-2.533	4.25
99	MP5C	Mx	-0.002	4.25
100	MP3A	X	-0.531	5.5
101	MP3A	Z	-0.307	5.5
102	MP3A	Mx	-0.000266	5.5
103	MP3B	X	-0.666	5.5
104	MP3B	Z	-0.384	5.5
105	MP3B	Mx	0.000132	5.5
106	MP3C	X	-0.531	5.5
107	MP3C	Z	-0.307	5.5
108	MP3C	Mx	0.000266	5.5
109	M128A	X	-5.561	1
110	M128A	Z	-3.21	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	M128A	Mx	0	1
112	MP2A	X	-1.859	3.75
113	MP2A	Z	-1.073	3.75
114	MP2A	Mx	0.00093	3.75
115	MP2A	X	-1.859	5.75
116	MP2A	Z	-1.073	5.75
117	MP2A	Mx	0.00093	5.75
118	M137	X	-1.859	5.75
119	M137	Z	-1.073	5.75
120	M137	Mx	0.00093	3.75
121	M137	X	-1.859	3.75
122	M137	Mx	0.00093	5.75
123	M137	Z	-1.073	3.75
124	M140	X	-1.859	5.75
125	M140	Z	-1.073	5.75
126	M140	Mx	0.00093	3.75
127	M140	X	-1.859	3.75
128	M140	Mx	0.00093	5.75
129	M140	Z	-1.073	3.75
130	M141	X	-5.561	1
131	M141	Z	-3.21	1
132	M141	X	-5.561	1
133	M141	Z	-3.21	1
134	M141	Mx	0	1
135	M141	Mx	0	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	-4.486	1
2	MP3A	Z	-7.77	1
3	MP3A	Mx	0.007	1
4	MP3A	X	-4.486	5
5	MP3A	Z	-7.77	5
6	MP3A	Mx	0.007	5
7	MP3B	X	-4.856	1
8	MP3B	Z	-8.412	1
9	MP3B	Mx	-0.006	1
10	MP3B	X	-4.856	5
11	MP3B	Z	-8.412	5
12	MP3B	Mx	-0.006	5
13	MP3C	X	-3.223	1
14	MP3C	Z	-5.582	1
15	MP3C	Mx	-0.003	1
16	MP3C	X	-3.223	5
17	MP3C	Z	-5.582	5
18	MP3C	Mx	-0.003	5
19	MP3A	X	-4.486	1
20	MP3A	Z	-7.77	1
21	MP3A	Mx	-0.003	1
22	MP3A	X	-4.486	5
23	MP3A	Z	-7.77	5
24	MP3A	Mx	-0.003	5
25	MP3B	X	-4.856	1
26	MP3B	Z	-8.412	1
27	MP3B	Mx	0.007	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP3B	X	-4.856	5
29	MP3B	Z	-8.412	5
30	MP3B	Mx	0.007	5
31	MP3C	X	-3.223	1
32	MP3C	Z	-5.582	1
33	MP3C	Mx	-0.003	1
34	MP3C	X	-3.223	5
35	MP3C	Z	-5.582	5
36	MP3C	Mx	-0.003	5
37	MP3A	X	-1.533	2
38	MP3A	Z	-2.654	2
39	MP3A	Mx	-0.000766	2
40	MP3B	X	-1.653	2
41	MP3B	Z	-2.864	2
42	MP3B	Mx	-0.000287	2
43	MP3C	X	-1.12	2
44	MP3C	Z	-1.941	2
45	MP3C	Mx	0.001	2
46	MP4A	X	-1.481	2
47	MP4A	Z	-2.566	2
48	MP4A	Mx	-0.00074	2
49	MP4B	X	-1.647	2
50	MP4B	Z	-2.853	2
51	MP4B	Mx	-0.000286	2
52	MP4C	X	-0.916	2
53	MP4C	Z	-1.586	2
54	MP4C	Mx	0.000916	2
55	M128A	X	-3.415	1
56	M128A	Z	-5.915	1
57	M128A	Mx	0	1
58	MP3C	X	-1.037	3.5
59	MP3C	Z	-1.797	3.5
60	MP3C	Mx	0.001	3.5
61	MP3C	X	-1.037	3.5
62	MP3C	Z	-1.797	3.5
63	MP3C	Mx	0.001	3.5
64	MP1A	X	-1.781	1.25
65	MP1A	Z	-3.086	1.25
66	MP1A	Mx	0.00089	1.25
67	MP1A	X	-1.781	4.25
68	MP1A	Z	-3.086	4.25
69	MP1A	Mx	0.00089	4.25
70	MP1B	X	-1.451	1.25
71	MP1B	Z	-2.514	1.25
72	MP1B	Mx	0.000252	1.25
73	MP1B	X	-1.451	4.25
74	MP1B	Z	-2.514	4.25
75	MP1B	Mx	0.000252	4.25
76	MP1C	X	-2.908	1.25
77	MP1C	Z	-5.037	1.25
78	MP1C	Mx	-0.003	1.25
79	MP1C	X	-2.908	4.25
80	MP1C	Z	-5.037	4.25
81	MP1C	Mx	-0.003	4.25
82	MP5A	X	-1.781	1.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP5A	Z	-3.086	1.25
84	MP5A	Mx	0.00089	1.25
85	MP5A	X	-1.781	4.25
86	MP5A	Z	-3.086	4.25
87	MP5A	Mx	0.00089	4.25
88	MP5B	X	-1.451	1.25
89	MP5B	Z	-2.514	1.25
90	MP5B	Mx	0.000252	1.25
91	MP5B	X	-1.451	4.25
92	MP5B	Z	-2.514	4.25
93	MP5B	Mx	0.000252	4.25
94	MP5C	X	-2.908	1.25
95	MP5C	Z	-5.037	1.25
96	MP5C	Mx	-0.003	1.25
97	MP5C	X	-2.908	4.25
98	MP5C	Z	-5.037	4.25
99	MP5C	Mx	-0.003	4.25
100	MP3A	X	-0.368	5.5
101	MP3A	Z	-0.637	5.5
102	MP3A	Mx	-0.000184	5.5
103	MP3B	X	-0.395	5.5
104	MP3B	Z	-0.684	5.5
105	MP3B	Mx	-6.9e-5	5.5
106	MP3C	X	-0.276	5.5
107	MP3C	Z	-0.478	5.5
108	MP3C	Mx	0.000276	5.5
109	M128A	X	-3.415	1
110	M128A	Z	-5.915	1
111	M128A	Mx	0	1
112	MP2A	X	-1.765	3.75
113	MP2A	Z	-3.058	3.75
114	MP2A	Mx	0.000882	3.75
115	MP2A	X	-1.765	5.75
116	MP2A	Z	-3.058	5.75
117	MP2A	Mx	0.000882	5.75
118	M137	Z	-3.058	5.75
119	M137	X	-1.765	5.75
120	M137	Mx	0.000882	3.75
121	M137	Mx	0.000882	5.75
122	M137	X	-1.765	3.75
123	M137	Z	-3.058	3.75
124	M140	Z	-3.058	5.75
125	M140	X	-1.765	5.75
126	M140	Mx	0.000882	3.75
127	M140	Mx	0.000882	5.75
128	M140	X	-1.765	3.75
129	M140	Z	-3.058	3.75
130	M141	Mx	0	1
131	M141	Z	-5.915	1
132	M141	X	-3.415	1
133	M141	X	-3.415	1
134	M141	Z	-5.915	1
135	M141	Mx	0	1



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Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M12	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M8	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M1	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-1.357	1
2	MP3A	My	-0.000679	1
3	MP3A	Mz	-0.000905	1
4	MP3A	Y	-1.357	5
5	MP3A	My	-0.000679	5
6	MP3A	Mz	-0.000905	5
7	MP3B	Y	-1.357	1
8	MP3B	My	0.001	1
9	MP3B	Mz	0.000257	1
10	MP3B	Y	-1.357	5
11	MP3B	My	0.001	5
12	MP3B	Mz	0.000257	5
13	MP3C	Y	-1.357	1
14	MP3C	My	-0.000444	1
15	MP3C	Mz	0.001	1
16	MP3C	Y	-1.357	5
17	MP3C	My	-0.000444	5
18	MP3C	Mz	0.001	5
19	MP3A	Y	-1.357	1
20	MP3A	My	-0.000679	1
21	MP3A	Mz	0.000905	1
22	MP3A	Y	-1.357	5
23	MP3A	My	-0.000679	5
24	MP3A	Mz	0.000905	5
25	MP3B	Y	-1.357	1
26	MP3B	My	-6.2e-5	1
27	MP3B	Mz	-0.001	1
28	MP3B	Y	-1.357	5
29	MP3B	My	-6.2e-5	5
30	MP3B	Mz	-0.001	5
31	MP3C	Y	-1.357	1
32	MP3C	My	0.001	1
33	MP3C	Mz	0.000135	1

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP3C	Y	-1.357	5
35	MP3C	My	0.001	5
36	MP3C	Mz	0.000135	5
37	MP3A	Y	-3.619	2
38	MP3A	My	0.002	2
39	MP3A	Mz	0	2
40	MP3B	Y	-3.619	2
41	MP3B	My	-0.001	2
42	MP3B	Mz	0.001	2
43	MP3C	Y	-3.619	2
44	MP3C	My	-0.000905	2
45	MP3C	Mz	-0.002	2
46	MP4A	Y	-3.014	2
47	MP4A	My	0.002	2
48	MP4A	Mz	0	2
49	MP4B	Y	-3.014	2
50	MP4B	My	-0.001	2
51	MP4B	Mz	0.000969	2
52	MP4C	Y	-3.014	2
53	MP4C	My	-0.000754	2
54	MP4C	Mz	-0.001	2
55	M128A	Y	-1.372	1
56	M128A	My	0	1
57	M128A	Mz	0	1
58	MP3C	Y	-0.755	3.5
59	MP3C	My	-0.000352	3.5
60	MP3C	Mz	-0.000232	3.5
61	MP3C	Y	-0.755	3.5
62	MP3C	My	-2.5e-5	3.5
63	MP3C	Mz	-0.000421	3.5
64	MP1A	Y	-0.257	1.25
65	MP1A	My	-0.000129	1.25
66	MP1A	Mz	0	1.25
67	MP1A	Y	-0.257	4.25
68	MP1A	My	-0.000129	4.25
69	MP1A	Mz	0	4.25
70	MP1B	Y	-0.257	1.25
71	MP1B	My	9.9e-5	1.25
72	MP1B	Mz	-8.3e-5	1.25
73	MP1B	Y	-0.257	4.25
74	MP1B	My	9.9e-5	4.25
75	MP1B	Mz	-8.3e-5	4.25
76	MP1C	Y	-0.257	1.25
77	MP1C	My	6.4e-5	1.25
78	MP1C	Mz	0.000111	1.25
79	MP1C	Y	-0.257	4.25
80	MP1C	My	6.4e-5	4.25
81	MP1C	Mz	0.000111	4.25
82	MP5A	Y	-0.257	1.25
83	MP5A	My	-0.000129	1.25
84	MP5A	Mz	0	1.25
85	MP5A	Y	-0.257	4.25
86	MP5A	My	-0.000129	4.25
87	MP5A	Mz	0	4.25
88	MP5B	Y	-0.257	1.25



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Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP5B	My	9.9e-5	1.25
90	MP5B	Mz	-8.3e-5	1.25
91	MP5B	Y	-0.257	4.25
92	MP5B	My	9.9e-5	4.25
93	MP5B	Mz	-8.3e-5	4.25
94	MP5C	Y	-0.257	1.25
95	MP5C	My	6.4e-5	1.25
96	MP5C	Mz	0.000111	1.25
97	MP5C	Y	-0.257	4.25
98	MP5C	My	6.4e-5	4.25
99	MP5C	Mz	0.000111	4.25
100	MP3A	Y	-0.446	5.5
101	MP3A	My	0.000223	5.5
102	MP3A	Mz	0	5.5
103	MP3B	Y	-0.446	5.5
104	MP3B	My	-0.000171	5.5
105	MP3B	Mz	0.000143	5.5
106	MP3C	Y	-0.446	5.5
107	MP3C	My	-0.000111	5.5
108	MP3C	Mz	-0.000193	5.5
109	M128A	Y	-1.372	1
110	M128A	My	0	1
111	M128A	Mz	0	1
112	MP2A	Y	-1.867	3.75
113	MP2A	My	-0.000934	3.75
114	MP2A	Mz	0	3.75
115	MP2A	Y	-1.867	5.75
116	MP2A	My	-0.000934	5.75
117	MP2A	Mz	0	5.75
118	M137	Mz	0	5.75
119	M137	Y	-1.867	5.75
120	M137	My	-0.000934	3.75
121	M137	Mz	0	3.75
122	M137	Y	-1.867	3.75
123	M137	My	-0.000934	5.75
124	M140	Mz	0	5.75
125	M140	Y	-1.867	5.75
126	M140	My	-0.000934	3.75
127	M140	Mz	0	3.75
128	M140	Y	-1.867	3.75
129	M140	My	-0.000934	5.75
130	M141	My	0	1
131	M141	Y	-1.372	1
132	M141	Y	-1.372	1
133	M141	My	0	1
134	M141	Mz	0	1
135	M141	Mz	0	1

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Z	-3.393	1
2	MP3A	Mx	0.002	1
3	MP3A	Z	-3.393	5
4	MP3A	Mx	0.002	5
5	MP3B	Z	-3.393	1



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Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
6	MP3B	Mx	-0.000642	1
7	MP3B	Z	-3.393	5
8	MP3B	Mx	-0.000642	5
9	MP3C	Z	-3.393	1
10	MP3C	Mx	-0.003	1
11	MP3C	Z	-3.393	5
12	MP3C	Mx	-0.003	5
13	MP3A	Z	-3.393	1
14	MP3A	Mx	-0.002	1
15	MP3A	Z	-3.393	5
16	MP3A	Mx	-0.002	5
17	MP3B	Z	-3.393	1
18	MP3B	Mx	0.003	1
19	MP3B	Z	-3.393	5
20	MP3B	Mx	0.003	5
21	MP3C	Z	-3.393	1
22	MP3C	Mx	-0.000338	1
23	MP3C	Z	-3.393	5
24	MP3C	Mx	-0.000338	5
25	MP3A	Z	-9.048	2
26	MP3A	Mx	0	2
27	MP3B	Z	-9.048	2
28	MP3B	Mx	-0.003	2
29	MP3C	Z	-9.048	2
30	MP3C	Mx	0.004	2
31	MP4A	Z	-7.536	2
32	MP4A	Mx	0	2
33	MP4B	Z	-7.536	2
34	MP4B	Mx	-0.002	2
35	MP4C	Z	-7.536	2
36	MP4C	Mx	0.003	2
37	M128A	Z	-3.43	1
38	M128A	Mx	0	1
39	MP3C	Z	-1.887	3.5
40	MP3C	Mx	0.000581	3.5
41	MP3C	Z	-1.887	3.5
42	MP3C	Mx	0.001	3.5
43	MP1A	Z	-0.643	1.25
44	MP1A	Mx	0	1.25
45	MP1A	Z	-0.643	4.25
46	MP1A	Mx	0	4.25
47	MP1B	Z	-0.643	1.25
48	MP1B	Mx	0.000207	1.25
49	MP1B	Z	-0.643	4.25
50	MP1B	Mx	0.000207	4.25
51	MP1C	Z	-0.643	1.25
52	MP1C	Mx	-0.000279	1.25
53	MP1C	Z	-0.643	4.25
54	MP1C	Mx	-0.000279	4.25
55	MP5A	Z	-0.643	1.25
56	MP5A	Mx	0	1.25
57	MP5A	Z	-0.643	4.25
58	MP5A	Mx	0	4.25
59	MP5B	Z	-0.643	1.25
60	MP5B	Mx	0.000207	1.25

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
61	MP5B	Z	-0.643	4.25
62	MP5B	Mx	0.000207	4.25
63	MP5C	Z	-0.643	1.25
64	MP5C	Mx	-0.000279	1.25
65	MP5C	Z	-0.643	4.25
66	MP5C	Mx	-0.000279	4.25
67	MP3A	Z	-1.115	5.5
68	MP3A	Mx	0	5.5
69	MP3B	Z	-1.115	5.5
70	MP3B	Mx	-0.000358	5.5
71	MP3C	Z	-1.115	5.5
72	MP3C	Mx	0.000483	5.5
73	M128A	Z	-3.43	1
74	M128A	Mx	0	1
75	MP2A	Z	-4.669	3.75
76	MP2A	Mx	0	3.75
77	MP2A	Z	-4.669	5.75
78	MP2A	Mx	0	5.75
79	M137	Z	-4.669	3.75
80	M137	Z	-4.669	5.75
81	M137	Mx	0	5.75
82	M137	Mx	0	3.75
83	M140	Z	-4.669	3.75
84	M140	Z	-4.669	5.75
85	M140	Mx	0	5.75
86	M140	Mx	0	3.75
87	M141	Z	-3.43	1
88	M141	Z	-3.43	1
89	M141	Mx	0	1
90	M141	Mx	0	1

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.393	1
2	MP3A	Mx	-0.002	1
3	MP3A	X	3.393	5
4	MP3A	Mx	-0.002	5
5	MP3B	X	3.393	1
6	MP3B	Mx	0.003	1
7	MP3B	X	3.393	5
8	MP3B	Mx	0.003	5
9	MP3C	X	3.393	1
10	MP3C	Mx	-0.001	1
11	MP3C	X	3.393	5
12	MP3C	Mx	-0.001	5
13	MP3A	X	3.393	1
14	MP3A	Mx	-0.002	1
15	MP3A	X	3.393	5
16	MP3A	Mx	-0.002	5
17	MP3B	X	3.393	1
18	MP3B	Mx	-0.000154	1
19	MP3B	X	3.393	5
20	MP3B	Mx	-0.000154	5
21	MP3C	X	3.393	1
22	MP3C	Mx	0.003	1

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP3C	X	3.393	5
24	MP3C	Mx	0.003	5
25	MP3A	X	9.048	2
26	MP3A	Mx	0.005	2
27	MP3B	X	9.048	2
28	MP3B	Mx	-0.003	2
29	MP3C	X	9.048	2
30	MP3C	Mx	-0.002	2
31	MP4A	X	7.536	2
32	MP4A	Mx	0.004	2
33	MP4B	X	7.536	2
34	MP4B	Mx	-0.003	2
35	MP4C	X	7.536	2
36	MP4C	Mx	-0.002	2
37	M128A	X	3.43	1
38	M128A	Mx	0	1
39	MP3C	X	1.887	3.5
40	MP3C	Mx	-0.00088	3.5
41	MP3C	X	1.887	3.5
42	MP3C	Mx	-6.3e-5	3.5
43	MP1A	X	0.643	1.25
44	MP1A	Mx	-0.000322	1.25
45	MP1A	X	0.643	4.25
46	MP1A	Mx	-0.000322	4.25
47	MP1B	X	0.643	1.25
48	MP1B	Mx	0.000246	1.25
49	MP1B	X	0.643	4.25
50	MP1B	Mx	0.000246	4.25
51	MP1C	X	0.643	1.25
52	MP1C	Mx	0.000161	1.25
53	MP1C	X	0.643	4.25
54	MP1C	Mx	0.000161	4.25
55	MP5A	X	0.643	1.25
56	MP5A	Mx	-0.000322	1.25
57	MP5A	X	0.643	4.25
58	MP5A	Mx	-0.000322	4.25
59	MP5B	X	0.643	1.25
60	MP5B	Mx	0.000246	1.25
61	MP5B	X	0.643	4.25
62	MP5B	Mx	0.000246	4.25
63	MP5C	X	0.643	1.25
64	MP5C	Mx	0.000161	1.25
65	MP5C	X	0.643	4.25
66	MP5C	Mx	0.000161	4.25
67	MP3A	X	1.115	5.5
68	MP3A	Mx	0.000557	5.5
69	MP3B	X	1.115	5.5
70	MP3B	Mx	-0.000427	5.5
71	MP3C	X	1.115	5.5
72	MP3C	Mx	-0.000279	5.5
73	M128A	X	3.43	1
74	M128A	Mx	0	1
75	MP2A	X	4.669	3.75
76	MP2A	Mx	-0.002	3.75
77	MP2A	X	4.669	5.75



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Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2A	Mx	-0.002	5.75
79	M137	Mx	-0.002	5.75
80	M137	X	4.669	3.75
81	M137	X	4.669	5.75
82	M137	Mx	-0.002	3.75
83	M140	Mx	-0.002	5.75
84	M140	X	4.669	3.75
85	M140	X	4.669	5.75
86	M140	Mx	-0.002	3.75
87	M141	X	3.43	1
88	M141	Mx	0	1
89	M141	X	3.43	1
90	M141	Mx	0	1

Member Area Loads (BLC 39 : Structure D)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N189	N194	N193	N188	Y	Two Way		-0.005		-0.005		-0.005		-0.005	Yes
2	N170	N171	N176	N175	Y	Two Way		-0.005		-0.005		-0.005		-0.005	Yes
3	N180	N185	N184	N179	Y	Two Way		-0.005		-0.005		-0.005		-0.005	Yes

Member Area Loads (BLC 40 : Structure Di)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N189	N194	N193	N188	Y	Two Way		-0.01		-0.01		-0.01		-0.01	Yes
2	N170	N171	N176	N175	Y	Two Way		-0.01		-0.01		-0.01		-0.01	Yes
3	N180	N185	N184	N179	Y	Two Way		-0.01		-0.01		-0.01		-0.01	Yes

Member Area Loads (BLC 84 : Structure Ev)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N189	N194	N193	N188	Y	Two Way		-0.000223		-0.000223		-0.000223		-0.000223	Yes
2	N170	N171	N176	N175	Y	Two Way		-0.000223		-0.000223		-0.000223		-0.000223	Yes
3	N180	N185	N184	N179	Y	Two Way		-0.000223		-0.000223		-0.000223		-0.000223	Yes

Member Area Loads (BLC 85 : Structure Eh (0 Deg))

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N189	N194	N193	N188	Z	Two Way		-0.000557		-0.000557		-0.000557		-0.000557	Yes
2	N170	N171	N176	N175	Z	Two Way		-0.000557		-0.000557		-0.000557		-0.000557	Yes
3	N180	N185	N184	N179	Z	Two Way		-0.000557		-0.000557		-0.000557		-0.000557	Yes

Member Area Loads (BLC 86 : Structure Eh (90 Deg))

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [ksf]	Direction B	Magnitude [ksf]	Direction C	Magnitude [ksf]	Direction D	Magnitude [ksf]	Exclude Braces
1	N189	N194	N193	N188	X	Two Way		0.000557		0.000557		0.000557		0.000557	Yes
2	N170	N171	N176	N175	X	Two Way		0.000557		0.000557		0.000557		0.000557	Yes
3	N180	N185	N184	N179	X	Two Way		0.000557		0.000557		0.000557		0.000557	Yes

Envelope Node Reactions

Node Label	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N117A max	1125.467	10	2799.562	13	2337.825	1	5.863	1	0.988	4	0.732	4
2 min	-1128.55	4	54.956	7	-2468.617	7	-2.349	7	-0.967	10	-0.69	10
3 N119 max	1747.432	9	2476.647	21	1230.127	1	0.748	3	0.816	12	1.29	3
4 min	-1840.29	3	-3.356	3	-1177.634	7	-2.517	9	-0.798	6	-4.35	9
5 N121 max	2031.587	11	2831.52	17	1566.553	1	1.21	12	1	8	5.039	5
6 min	-1935.383	5	141.429	11	-1488.251	7	-3.015	6	-1.011	2	-1.779	11
7 Totals: max	4773.633	10	7318.735	18	5134.505	1						
8 min	-4773.632	4	2382.567	74	-5134.501	7						

Node Reactions

LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1 N117A	-18.787	2214.987	2337.825	5.863	0.011	0.033
2	1 N119	-751.919	478.556	1230.127	0.201	0.524	-0.154
3	1 N121	770.708	642.128	1566.553	0.707	-0.714	0.197
4	1 Totals:	0.002	3335.671	5134.505			
5	1 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
6	2 N117A	-422.078	2055.962	2016.47	5.184	0.129	0.391
7	2 N119	-1590.109	98.185	1217.123	0.707	0.057	0.942
8	2 N121	-488.033	1181.534	1096.925	-0.285	-1.011	2.001
9	2 Totals:	-2500.22	3335.681	4330.517			
10	2 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
11	3 N117A	-863.523	1652.774	1171.142	3.661	0.613	0.616
12	3 N119	-1840.29	-3.356	1038.363	0.748	-0.023	1.29
13	3 N121	-1470.43	1686.274	200.516	-1.337	-0.636	3.576
14	3 Totals:	-4174.243	3335.691	2410.021			
15	3 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
16	4 N117A	-1128.55	1147.411	-93.372	1.769	0.988	0.732
17	4 N119	-1748.253	148.424	714.083	0.39	-0.057	0.941
18	4 N121	-1896.829	2039.864	-620.692	-2.215	-0.093	4.647
19	4 Totals:	-4773.632	3335.699	0.019			
20	4 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
21	5 N117A	-941.892	635.876	-1383.8	-0.199	0.704	0.693
22	5 N119	-1372.923	510.216	50.806	-0.272	-0.476	0.01
23	5 N121	-1935.383	2189.613	-1120.829	-2.846	0.071	5.039
24	5 Totals:	-4250.198	3335.704	-2453.823			
25	5 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
26	6 N117A	-448.588	221.785	-2233.642	-1.785	0.181	0.422
27	6 N119	-502.366	1038.581	-744.306	-1.139	-0.798	-1.392
28	6 N121	-1593.119	2075.338	-1428.478	-3.015	0.213	4.503
29	6 Totals:	-2544.073	3335.704	-4406.427			
30	6 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
31	7 N117A	16.038	54.956	-2468.617	-2.349	0.009	0.009
32	7 N119	663.476	1596.177	-1177.634	-1.974	-0.503	-2.914
33	7 N121	-679.516	1684.565	-1488.251	-2.516	0.7	3.073
34	7 Totals:	-0.001	3335.698	-5134.501			
35	7 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
36	8 N117A	421.823	212.422	-2145.609	-1.665	-0.112	-0.349
37	8 N119	1499.148	1980.22	-1163.533	-2.477	-0.036	-4.004
38	8 N121	579.25	1143.046	-1021.372	-1.526	1	1.272
39	8 Totals:	2500.221	3335.689	-4330.514			
40	8 COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
41	9 N117A	862.667	612.437	-1296.851	-0.133	-0.595	-0.574
42	9 N119	1747.432	2083.173	-987.222	-2.517	0.041	-4.35
43	9 N121	1564.145	640.069	-125.946	-0.472	0.628	-0.307

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
44	9	Totals:	4174.244	3335.678	-2410.019			
45	9	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
46	10	N117A	1125.467	1116.144	-30.456	1.763	-0.967	-0.69
47	10	N119	1655.201	1929.897	-665.908	-2.161	0.073	-4.003
48	10	N121	1992.966	289.629	696.348	0.409	0.085	-1.384
49	10	Totals:	4773.633	3335.67	-0.017			
50	10	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
51	11	N117A	936.659	1629.31	1258.666	3.726	-0.679	-0.65
52	11	N119	1281.952	1564.927	-3.911	-1.503	0.491	-3.079
53	11	N121	2031.587	141.429	1199.07	1.042	-0.081	-1.779
54	11	Totals:	4250.199	3335.666	2453.825			
55	11	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
56	12	N117A	443.064	2046.626	2104.801	5.304	-0.158	-0.38
57	12	N119	413.961	1034.382	793.149	-0.637	0.816	-1.678
58	12	N121	1687.048	254.658	1508.48	1.21	-0.226	-1.241
59	12	Totals:	2544.074	3335.665	4406.43			
60	12	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
61	13	N117A	-5.374	2799.562	461.197	5.005	0.018	0.032
62	13	N119	-284.379	2074.811	358.467	-1.647	0.148	-2.982
63	13	N121	289.756	2444.353	459.645	-1.584	-0.19	3.256
64	13	Totals:	0.003	7318.727	1279.309			
65	13	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
66	14	N117A	-100.978	2760.277	378.211	4.834	0.04	0.127
67	14	N119	-496.13	1979.254	355.391	-1.521	0.02	-2.71
68	14	N121	-25.63	2579.198	345.007	-1.832	-0.276	3.712
69	14	Totals:	-622.737	7318.729	1078.61			
70	14	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
71	15	N117A	-215.349	2660.836	165.209	4.451	0.171	0.189
72	15	N119	-561.055	1952.592	317.574	-1.51	0.008	-2.621
73	15	N121	-267.022	2705.303	119.657	-2.099	-0.174	4.111
74	15	Totals:	-1043.426	7318.732	602.439			
75	15	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
76	16	N117A	-285.536	2534.578	-149.615	3.971	0.272	0.219
77	16	N119	-536.507	1989.945	239.084	-1.598	0.006	-2.705
78	16	N121	-376.015	2794.211	-89.462	-2.326	-0.029	4.384
79	16	Totals:	-1198.059	7318.734	0.007			
80	16	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
81	17	N117A	-234.142	2405.684	-471.845	3.472	0.19	0.207
82	17	N119	-439.564	2081.531	69.157	-1.764	-0.111	-2.938
83	17	N121	-393.138	2831.52	-213.255	-2.489	0.004	4.479
84	17	Totals:	-1066.843	7318.735	-615.944			
85	17	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
86	18	N117A	-107.176	2302.034	-686.337	3.075	0.049	0.135
87	18	N119	-221.491	2214.866	-130.511	-1.982	-0.202	-3.29
88	18	N121	-307.6	2801.834	-285.168	-2.533	0.033	4.338
89	18	Totals:	-636.267	7318.735	-1102.016			
90	18	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
91	19	N117A	2.831	2261.001	-745.614	2.936	0.015	0.026
92	19	N119	69.756	2354.109	-234.62	-2.19	-0.117	-3.669
93	19	N121	-72.584	2703.624	-299.07	-2.409	0.166	3.973
94	19	Totals:	0.002	7318.733	-1279.304			
95	19	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
96	20	N117A	98.588	2300.182	-662.527	3.107	-0.008	-0.069
97	20	N119	281.349	2449.889	-231.473	-2.315	0.011	-3.94
98	20	N121	242.806	2568.659	-184.604	-2.162	0.252	3.517

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
99	20	Totals:	622.742	7318.731	-1078.604			
100	20	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
101	21	N117A	212.926	2399.428	-449.315	3.49	-0.139	-0.13
102	21	N119	346.152	2476.647	-193.801	-2.326	0.023	-4.029
103	21	N121	484.352	2442.654	40.681	-1.895	0.15	3.117
104	21	Totals:	1043.43	7318.728	-602.434			
105	21	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
106	22	N117A	282.974	2525.591	-134.379	3.971	-0.24	-0.16
107	22	N119	321.59	2439.196	-115.494	-2.238	0.025	-3.945
108	22	N121	593.5	2353.939	249.872	-1.667	0.005	2.845
109	22	Totals:	1198.064	7318.726	-0.002			
110	22	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
111	23	N117A	231.441	2654.579	187.77	4.469	-0.157	-0.148
112	23	N119	224.781	2347.41	54.351	-2.072	0.141	-3.713
113	23	N121	610.627	2316.736	373.827	-1.504	-0.028	2.749
114	23	Totals:	1066.848	7318.725	615.949			
115	23	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
116	24	N117A	104.46	2758.429	402.035	4.866	-0.016	-0.076
117	24	N119	6.866	2213.949	254.137	-1.855	0.232	-3.361
118	24	N121	524.945	2346.347	445.849	-1.46	-0.057	2.891
119	24	Totals:	636.272	7318.725	1102.021			
120	24	COG (ft):	X: 0.103	Y: 1.539	Z: -0.067			
121	25	N117A	-2.21	1016.774	87.831	1.707	0.009	0.022
122	25	N119	-97.145	1475.153	102.506	-1.617	0.039	-1.78
123	25	N121	99.356	1593.765	135.987	-1.583	-0.047	1.858
124	25	Totals:	0.001	4085.692	326.324			
125	25	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
126	26	N117A	-27.907	1006.722	67.366	1.664	0.017	0.045
127	26	N119	-150.341	1450.868	101.642	-1.585	0.009	-1.71
128	26	N121	19.357	1628.103	106.227	-1.645	-0.066	1.972
129	26	Totals:	-158.891	4085.693	275.234			
130	26	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
131	27	N117A	-55.938	981.204	13.547	1.567	0.047	0.059
132	27	N119	-166.187	1444.357	90.344	-1.582	0.004	-1.688
133	27	N121	-43.171	1660.132	49.279	-1.712	-0.042	2.072
134	27	Totals:	-265.295	4085.694	153.17			
135	27	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
136	28	N117A	-72.717	949.148	-66.862	1.447	0.071	0.066
137	28	N119	-160.318	1454.038	69.816	-1.605	0.002	-1.71
138	28	N121	-70.349	1682.508	-2.95	-1.768	-0.008	2.14
139	28	Totals:	-303.383	4085.694	0.004			
140	28	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
141	29	N117A	-60.79	916.601	-148.824	1.322	0.053	0.064
142	29	N119	-136.514	1477.123	27.692	-1.647	-0.024	-1.769
143	29	N121	-72.82	1691.97	-34.821	-1.808	0.003	2.165
144	29	Totals:	-270.125	4085.695	-155.952			
145	29	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
146	30	N117A	-29.434	890.201	-202.715	1.221	0.02	0.047
147	30	N119	-81.248	1510.77	-22.905	-1.702	-0.045	-1.858
148	30	N121	-50.995	1684.724	-54.43	-1.819	0.012	2.131
149	30	Totals:	-161.677	4085.695	-280.05			
150	30	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
151	31	N117A	0.003	879.56	-217.585	1.185	0.009	0.02
152	31	N119	-7.152	1546.148	-50.549	-1.755	-0.026	-1.955
153	31	N121	7.15	1659.986	-58.185	-1.787	0.043	2.04

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
154	31	Totals:	0.001	4085.694	-326.319			
155	31	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
156	32	N117A	25.71	889.606	-197.114	1.229	0.001	-0.002
157	32	N119	46.033	1570.449	-49.68	-1.787	0.003	-2.025
158	32	N121	87.149	1625.639	-28.435	-1.724	0.062	1.926
159	32	Totals:	158.893	4085.694	-275.229			
160	32	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
161	33	N117A	53.738	915.111	-143.281	1.326	-0.029	-0.017
162	33	N119	61.871	1576.965	-38.392	-1.79	0.008	-2.047
163	33	N121	149.687	1593.617	28.508	-1.657	0.038	1.825
164	33	Totals:	265.297	4085.693	-153.164			
165	33	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
166	34	N117A	70.509	947.16	-62.864	1.446	-0.053	-0.024
167	34	N119	56.002	1567.278	-17.876	-1.767	0.01	-2.025
168	34	N121	176.875	1571.254	80.741	-1.601	0.004	1.757
169	34	Totals:	303.385	4085.692	0.002			
170	34	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
171	35	N117A	58.573	979.714	19.092	1.571	-0.035	-0.021
172	35	N119	32.207	1544.18	24.243	-1.725	0.037	-1.966
173	35	N121	179.347	1561.798	112.623	-1.561	-0.007	1.732
174	35	Totals:	270.127	4085.692	155.957			
175	35	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
176	36	N117A	27.216	1006.127	72.969	1.672	-0.002	-0.004
177	36	N119	-23.049	1510.525	74.848	-1.67	0.058	-1.877
178	36	N121	157.512	1569.04	132.239	-1.551	-0.016	1.766
179	36	Totals:	161.679	4085.692	280.056			
180	36	COG (ft):	X: 0.065	Y: 1.204	Z: 0.645			
181	37	N117A	-5.302	1034.676	84.875	1.663	0.013	0.044
182	37	N119	-100.47	1168.584	101.496	-1.119	0.032	-1.344
183	37	N121	105.775	1882.436	139.957	-2.076	-0.045	2.701
184	37	Totals:	0.003	4085.696	326.327			
185	37	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
186	38	N117A	-30.997	1024.612	64.389	1.62	0.021	0.067
187	38	N119	-153.688	1144.294	100.646	-1.087	0.003	-1.275
188	38	N121	25.796	1916.79	110.202	-2.139	-0.064	2.815
189	38	Totals:	-158.889	4085.696	275.237			
190	38	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
191	39	N117A	-59.019	999.084	10.545	1.523	0.052	0.081
192	39	N119	-169.552	1137.775	89.364	-1.084	-0.002	-1.252
193	39	N121	-36.722	1948.838	53.263	-2.205	-0.04	2.915
194	39	Totals:	-265.293	4085.697	153.172			
195	39	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
196	40	N117A	-75.789	967.025	-69.883	1.402	0.075	0.089
197	40	N119	-163.693	1147.446	68.847	-1.107	-0.004	-1.275
198	40	N121	-63.899	1971.226	1.043	-2.261	-0.006	2.984
199	40	Totals:	-303.382	4085.697	0.007			
200	40	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
201	41	N117A	-63.854	934.48	-151.857	1.277	0.057	0.086
202	41	N119	-139.892	1170.518	26.731	-1.149	-0.031	-1.334
203	41	N121	-66.378	1980.7	-30.822	-2.301	0.005	3.009
204	41	Totals:	-270.123	4085.698	-155.949			
205	41	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
206	42	N117A	-32.487	908.083	-205.755	1.177	0.024	0.069
207	42	N119	-84.619	1204.151	-23.863	-1.204	-0.052	-1.423
208	42	N121	-44.57	1973.464	-50.43	-2.312	0.014	2.974

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
209	42	Totals:	-161.676	4085.698	-280.048			
210	42	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
211	43	N117A	-3.043	897.45	-220.617	1.141	0.013	0.043
212	43	N119	-10.507	1239.522	-51.512	-1.257	-0.033	-1.519
213	43	N121	13.552	1948.726	-54.188	-2.28	0.045	2.883
214	43	Totals:	0.002	4085.697	-326.316			
215	43	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
216	44	N117A	22.662	907.507	-200.124	1.185	0.005	0.02
217	44	N119	42.701	1263.826	-50.657	-1.289	-0.003	-1.589
218	44	N121	93.531	1914.363	-24.445	-2.217	0.064	2.769
219	44	Totals:	158.894	4085.697	-275.226			
220	44	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
221	45	N117A	50.681	933.022	-146.266	1.282	-0.025	0.006
222	45	N119	58.557	1270.351	-39.386	-1.291	0.002	-1.611
223	45	N121	156.059	1882.323	32.49	-2.151	0.04	2.669
224	45	Totals:	265.298	4085.696	-153.162			
225	45	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
226	46	N117A	67.443	965.074	-65.83	1.402	-0.049	-0.002
227	46	N119	52.698	1260.674	-18.88	-1.269	0.004	-1.589
228	46	N121	183.246	1859.947	84.715	-2.095	0.006	2.601
229	46	Totals:	303.387	4085.695	0.004			
230	46	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
231	47	N117A	55.499	997.627	16.139	1.527	-0.031	0.001
232	47	N119	28.904	1237.589	23.231	-1.227	0.03	-1.53
233	47	N121	185.725	1850.479	116.591	-2.055	-0.005	2.576
234	47	Totals:	270.128	4085.695	155.96			
235	47	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
236	48	N117A	24.131	1024.037	70.021	1.628	0.002	0.018
237	48	N119	-26.358	1203.948	73.832	-1.172	0.051	-1.441
238	48	N121	163.907	1857.711	136.206	-2.044	-0.014	2.61
239	48	Totals:	161.681	4085.695	280.058			
240	48	COG (ft):	X: 0.562	Y: 1.204	Z: 0.645			
241	49	N117A	6.992	1067.704	-87.804	1.515	-0.006	-0.062
242	49	N119	-79.414	1543.009	46.219	-1.7	0.003	-2.811
243	49	N121	72.421	1099.971	41.586	-0.85	0.011	1.348
244	49	Totals:	-0.001	3710.684	0.001			
245	49	COG (ft):	X: -0.552	Y: 1.326	Z: 0.33			
246	50	N117A	-1.216	1040.744	-62.917	1.607	0.01	0.021
247	50	N119	-47.761	1271.734	24.853	-1.282	0.008	-1.697
248	50	N121	48.977	1398.211	38.066	-1.3	-0.004	1.798
249	50	Totals:	0.001	3710.689	0.002			
250	50	COG (ft):	X: 0.08	Y: 1.326	Z: 0.33			
251	51	N117A	-1.537	1322.213	-71.161	2.061	0.012	0.025
252	51	N119	-50.584	1211.388	27.703	-1.036	0.01	-1.793
253	51	N121	52.122	1358.031	43.46	-1.057	-0.006	1.91
254	51	Totals:	0.001	3891.632	0.002			
255	51	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
256	52	N117A	-2.128	1228.551	81.101	2.028	0.01	0.022
257	52	N119	-83.094	1047.436	94.449	-0.866	0.042	-1.521
258	52	N121	85.223	1178.893	122.423	-0.866	-0.047	1.624
259	52	Totals:	0.001	3454.88	297.974			
260	52	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
261	53	N117A	-31.751	1221.526	61.431	2.001	0.031	0.038
262	53	N119	-135.897	1027.02	103.234	-0.838	0.027	-1.463
263	53	N121	18.663	1206.334	93.38	-0.912	-0.053	1.712

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
264	53	Totals:	-148.986	3454.881	258.046			
265	53	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
266	54	N117A	-53.233	1201.725	8.382	1.929	0.048	0.049
267	54	N119	-164.322	1019.571	90.948	-0.832	0.007	-1.439
268	54	N121	-40.489	1233.584	49.659	-0.964	-0.046	1.796
269	54	Totals:	-258.044	3454.881	148.989			
270	54	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
271	55	N117A	-60.821	1174.454	-63.844	1.83	0.054	0.053
272	55	N119	-160.755	1027.083	60.88	-0.849	-0.013	-1.456
273	55	N121	-76.396	1253.345	2.966	-1.01	-0.029	1.853
274	55	Totals:	-297.972	3454.882	0.003			
275	55	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
276	56	N117A	-52.474	1147.022	-135.892	1.731	0.049	0.049
277	56	N119	-126.141	1047.548	21.091	-0.886	-0.027	-1.51
278	56	N121	-79.428	1260.312	-34.182	-1.037	-0.005	1.868
279	56	Totals:	-258.044	3454.882	-148.983			
280	56	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
281	57	N117A	-30.433	1126.78	-188.453	1.658	0.033	0.037
282	57	N119	-69.771	1075.48	-17.753	-0.932	-0.031	-1.585
283	57	N121	-48.782	1252.622	-51.836	-1.037	0.019	1.837
284	57	Totals:	-148.986	3454.882	-258.042			
285	57	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
286	58	N117A	-0.599	1119.144	-207.45	1.632	0.012	0.022
287	58	N119	-6.739	1103.402	-45.253	-0.974	-0.024	-1.662
288	58	N121	7.338	1232.335	-45.268	-1.011	0.036	1.768
289	58	Totals:	0	3454.881	-297.971			
290	58	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
291	59	N117A	29.03	1126.165	-187.777	1.658	-0.01	0.006
292	59	N119	46.057	1123.827	-54.035	-1.002	-0.009	-1.72
293	59	N121	73.899	1204.888	-16.232	-0.965	0.042	1.68
294	59	Totals:	148.987	3454.881	-258.043			
295	59	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
296	60	N117A	50.511	1145.957	-134.72	1.731	-0.026	-0.005
297	60	N119	74.475	1131.281	-41.753	-1.008	0.012	-1.743
298	60	N121	133.058	1177.642	27.487	-0.912	0.035	1.596
299	60	Totals:	258.045	3454.88	-148.986			
300	60	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
301	61	N117A	58.093	1173.224	-62.49	1.83	-0.033	-0.009
302	61	N119	70.908	1123.765	-11.694	-0.991	0.031	-1.726
303	61	N121	168.973	1157.891	74.183	-0.867	0.017	1.539
304	61	Totals:	297.973	3454.88	0			
305	61	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
306	62	N117A	49.74	1200.661	9.556	1.929	-0.028	-0.005
307	62	N119	36.301	1103.291	28.093	-0.954	0.045	-1.673
308	62	N121	172.004	1150.928	111.338	-0.84	-0.006	1.524
309	62	Totals:	258.045	3454.88	148.986			
310	62	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
311	63	N117A	27.7	1220.911	62.109	2.002	-0.012	0.007
312	63	N119	-20.063	1075.354	66.941	-0.908	0.049	-1.598
313	63	N121	141.35	1158.614	128.994	-0.84	-0.03	1.555
314	63	Totals:	148.987	3454.88	258.045			
315	63	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
316	64	N117A	-1.705	864.154	100.677	1.46	0.006	0.015
317	64	N119	-69.116	713.676	86.841	-0.58	0.04	-1.027
318	64	N121	70.822	804.737	110.455	-0.575	-0.045	1.097

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
319	64	Totals:	0.001	2382.567	297.973			
320	64	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
321	65	N117A	-31.352	857.142	81.02	1.433	0.028	0.031
322	65	N119	-121.911	693.298	95.597	-0.552	0.024	-0.969
323	65	N121	4.277	832.128	81.428	-0.62	-0.051	1.185
324	65	Totals:	-148.986	2382.568	258.046			
325	65	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
326	66	N117A	-52.851	837.378	27.994	1.361	0.045	0.042
327	66	N119	-150.343	685.863	83.282	-0.546	0.004	-0.945
328	66	N121	-54.85	859.328	37.712	-0.673	-0.045	1.269
329	66	Totals:	-258.044	2382.568	148.988			
330	66	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
331	67	N117A	-60.444	810.156	-44.205	1.262	0.051	0.046
332	67	N119	-146.797	693.36	53.194	-0.564	-0.016	-0.963
333	67	N121	-90.731	879.052	-8.987	-0.719	-0.027	1.326
334	67	Totals:	-297.972	2382.569	0.002			
335	67	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
336	68	N117A	-52.09	782.775	-116.231	1.163	0.046	0.042
337	68	N119	-112.213	713.787	13.398	-0.601	-0.03	-1.016
338	68	N121	-93.741	886.007	-46.151	-0.745	-0.003	1.341
339	68	Totals:	-258.044	2382.569	-148.984			
340	68	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
341	69	N117A	-30.03	762.57	-168.778	1.09	0.03	0.031
342	69	N119	-55.872	741.668	-25.438	-0.646	-0.034	-1.091
343	69	N121	-63.084	878.332	-63.826	-0.745	0.021	1.31
344	69	Totals:	-148.986	2382.569	-258.042			
345	69	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
346	70	N117A	-0.172	754.948	-187.775	1.064	0.008	0.015
347	70	N119	7.138	769.539	-52.915	-0.689	-0.027	-1.168
348	70	N121	-6.966	858.082	-57.28	-0.719	0.038	1.242
349	70	Totals:	0	2382.569	-297.971			
350	70	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
351	71	N117A	29.481	761.956	-168.116	1.091	-0.014	-0.001
352	71	N119	59.926	789.926	-61.668	-0.717	-0.011	-1.226
353	71	N121	59.58	830.686	-28.26	-0.674	0.044	1.154
354	71	Totals:	148.987	2382.568	-258.044			
355	71	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
356	72	N117A	50.978	781.711	-115.083	1.163	-0.03	-0.012
357	72	N119	88.352	797.366	-49.357	-0.723	0.009	-1.249
358	72	N121	118.715	803.49	15.454	-0.621	0.037	1.07
359	72	Totals:	258.045	2382.567	-148.986			
360	72	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
361	73	N117A	58.565	808.928	-42.879	1.262	-0.036	-0.016
362	73	N119	84.805	789.864	-19.278	-0.705	0.029	-1.232
363	73	N121	154.602	783.775	62.156	-0.575	0.019	1.013
364	73	Totals:	297.973	2382.567	0			
365	73	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
366	74	N117A	50.206	836.314	29.144	1.361	-0.031	-0.012
367	74	N119	50.228	769.428	20.515	-0.668	0.042	-1.179
368	74	N121	157.611	776.824	99.326	-0.549	-0.005	0.997
369	74	Totals:	258.045	2382.567	148.986			
370	74	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			
371	75	N117A	28.147	856.528	81.684	1.433	-0.015	0
372	75	N119	-6.107	741.543	59.356	-0.623	0.046	-1.104
373	75	N121	126.947	784.496	117.004	-0.549	-0.028	1.028

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
374	75	Totals:	148.987	2382.567	258.044			
375	75	COG (ft):	X: 0.089	Y: 1.475	Z: -0.057			

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

Member	Shape	Code	Check	Loc [ft]	LC	Shear	Check	Loc [ft]	Dir	LC	phi*	Pnc [lb]	phi*	Pnt [lb]	phi*	Mn y-y [k-ft]	phi*	Mn z-z [k-ft]	Cb	Eqn
1	M1	PIPE 3.0	0.13	4.948	8	0.093	8.984	7	28250.554	65205	5.749	5.749	1	H1-1b						
2	M2	PIPE 2.0	0.285	11.328	9	0.155	11.198	7	6295.422	32130	1.872	1.872	1	H1-1b						
3	MP5A	PIPE 2.0	0.289	4.5	5	0.186	1.125	6	20866.733	32130	1.872	1.872	1	H1-1b						
4	MP4A	PIPE 2.0	0.36	4.5	5	0.148	4.5	7	20866.733	32130	1.872	1.872	1	H1-1b						
5	MP3A	PIPE 2.0	0.362	4.688	10	0.091	1.938	10	20866.733	32130	1.872	1.872	1	H1-1b						
6	MP2A	PIPE 2.0	0.372	6.5	9	0.144	6.5	7	14916.096	32130	1.872	1.872	1	H1-1b						
7	MP1A	PIPE 2.0	0.286	4.5	9	0.195	1.125	7	20866.733	32130	1.872	1.872	1	H1-1b						
8	M18	PIPE 3.0	0.125	7.552	2	0.087	8.984	3	28250.554	65205	5.749	5.749	1	H1-1b						
9	M19	PIPE 2.0	0.281	1.172	7	0.145	11.198	3	6295.422	32130	1.872	1.872	1	H1-1b						
10	MP5C	PIPE 2.0	0.286	4.5	1	0.182	1.125	2	20866.733	32130	1.872	1.872	1	H1-1b						
11	MP4C	PIPE 2.0	0.36	4.5	1	0.141	4.5	3	20866.733	32130	1.872	1.872	1	H1-1b						
12	MP3C	PIPE 2.0	0.41	4.688	6	0.1	1.938	6	20866.733	32130	1.872	1.872	1	H1-1b						
13	MP1C	PIPE 2.0	0.289	4.5	5	0.178	1.125	3	20866.733	32130	1.872	1.872	1	H1-1b						
14	M35	PIPE 3.0	0.127	4.948	12	0.087	4.948	1	28250.554	65205	5.749	5.749	1	H1-1b						
15	M36	PIPE 2.0	0.282	1.172	9	0.14	11.198	11	6295.422	32130	1.872	1.872	1	H1-1b						
16	MP5B	PIPE 2.0	0.279	4.5	9	0.181	1.125	11	20866.733	32130	1.872	1.872	1	H1-1b						
17	MP4B	PIPE 2.0	0.352	4.5	9	0.14	4.5	11	20866.733	32130	1.872	1.872	1	H1-1b						
18	MP3B	PIPE 2.0	0.383	4.688	8	0.093	1.938	8	20866.733	32130	1.872	1.872	1	H1-1b						
19	MP1B	PIPE 2.0	0.301	4.5	1	0.18	1.125	12	20866.733	32130	1.872	1.872	1	H1-1b						
20	M52	L2.5X2.5X4	0.336	0	7	0.087	0.921	y	6	37502.553	38556	1.114	2.537	1.5	H2-1					
21	M53	L2.5X2.5X4	0.35	0	7	0.087	0.921	z	8	37502.553	38556	1.114	2.537	1.5	H2-1					
22	M54	L2.5X2.5X4	0.334	0	3	0.08	0.921	z	4	37502.553	38556	1.114	2.537	1.5	H2-1					
23	M58	HSS4X4X4	0.371	5.188	1	0.09	5.188	y	11	124657.752	139518	16.181	16.181	2.721	H1-1b					
24	M59	HSS4X4X4	0.32	5.187	9	0.08	5.187	y	32	124657.752	139518	16.181	16.181	2.506	H1-1b					
25	M60	HSS4X4X4	0.37	5.187	5	0.091	5.187	y	7	124657.752	139518	16.181	16.181	2.736	H1-1b					
26	M63	PL3/8X6	0.163	0	3	0.39	0.167	y	20	71601.728	72900	0.57	9.113	1.05	H1-1b					
27	M64	PL3/8X6	0.184	0	11	0.399	0.167	y	17	71601.728	72900	0.57	9.113	1.052	H1-1b					
28	M81	PL3/8X6	0.177	0	11	0.402	0.167	y	17	71601.728	72900	0.57	9.113	1.06	H1-1b					
29	M82	PL3/8X6	0.193	0	7	0.404	0.167	y	13	71601.728	72900	0.57	9.113	1.038	H1-1b					
30	M85	PL3/8X6	0.183	0	7	0.392	0.167	y	13	71601.728	72900	0.57	9.113	1.038	H1-1b					
31	M86	PL3/8X6	0.167	0	3	0.387	0.167	y	22	71601.728	72900	0.57	9.113	1.041	H1-1b					
32	M91	PL3/8X6	0.242	0.11	4	0.272	0.11	y	17	72336.094	72900	0.57	9.113	1.305	H1-1b					
33	M92	PL3/8X6	0.205	0.11	10	0.261	0.11	y	20	72336.094	72900	0.57	9.113	1.235	H1-1b					
34	M80A	HSS4X4X4	0.17	0	24	0.047	0	y	13	136286.812	139518	16.181	16.181	1.642	H1-1b					
35	M80B	HSS4X4X4	0.175	0	14	0.049	0	y	13	136286.812	139518	16.181	16.181	1.645	H1-1b					
36	M79A	PL3/8X6	0.24	0.11	12	0.262	0.11	y	13	72336.094	72900	0.57	9.113	1.321	H1-1b					
37	M80C	PL3/8X6	0.231	0.11	6	0.264	0.11	y	17	72336.094	72900	0.57	9.113	1.275	H1-1b					
38	M81B	HSS4X4X4	0.171	0	20	0.047	0	y	21	136286.812	139518	16.181	16.181	1.645	H1-1b					
39	M82B	HSS4X4X4	0.169	0	22	0.048	0	y	21	136286.812	139518	16.181	16.181	1.648	H1-1b					
40	M85A	PL3/8X6	0.239	0.11	8	0.267	0.11	y	21	72336.094	72900	0.57	9.113	1.28	H1-1b					
41	M86A	PL3/8X6	0.249	0.11	2	0.268	0.11	y	13	72336.094	72900	0.57	9.113	1.261	H1-1b					
42	M87	HSS4X4X4	0.174	0	16	0.048	0	y	17	136286.812	139518	16.181	16.181	1.642	H1-1b					
43	M88	HSS4X4X4	0.174	0	18	0.053	0	y	41	136286.812	139518	16.181	16.181	1.646	H1-1b					
44	M93	PL1/2X6	0.097	0.416	9	0.04	0	y	11	91275.02	97200	1.012	12.15	2.262	H1-1b					
45	M91A	PL1/2X6	0.083	0.243	5	0.051	0	y	40	95131.184	97200	1.012	12.15	1.607	H1-1b					
46	M93A	PL1/2X6	0.086	0.243	6	0.046	0	y	6	95131.184	97200	1.012	12.15	1.911	H1-1b					
47	M95	PL1/2X6	0.089	0.243	7	0.046	0	y	12	95131.184	97200	1.012	12.15	1.574	H1-1b					
48	M97	PL1/2X6	0.089	0.243	7	0.043	0	y	2	95131.184	97200	1.012	12.15	1.545	H1-1b					
49	M99	PL1/2X6	0.099	0.416	8	0.043	0	y	7	91275.02	97200	1.012	12.15	1.861	H1-1b					
50	M104	PL1/2X6	0.185	0.469	8	0.105	0.469	y	7	70582.642	97200	1.012	12.15	1.447	H1-1b					



Company :
 Designer :
 Job Number :
 Model Name :

3/10/2025
 3:12:18 PM
 Checked By : _____

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

	Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
51	M105	PL1/2X6	0.198	0.469	6		0.101	0.469	y	7	70582.642	97200	1.012		12.15	1.456	H1-1b
52	M106	PL1/2X6	0.195	0.469	12		0.095	0.469	y	3	70582.642	97200	1.012		12.15	1.458	H1-1b
53	M111	L2X2X3	0.122	1.573	12		0.012	0	z	22	10155.239	23392.8	0.558		1.145	1.5	H2-1
54	M112	L2X2X3	0.097	0	2		0.012	4.081	y	17	10155.239	23392.8	0.558		1.087	1.176	H2-1
55	M119	L2X2X3	0.114	1.573	8		0.012	0	z	18	10155.239	23392.8	0.558		1.145	1.5	H2-1
56	M120	L2X2X3	0.089	0	11		0.012	4.081	y	13	10155.239	23392.8	0.558		1.145	1.5	H2-1
57	M127	L2X2X3	0.118	1.573	4		0.012	0	z	13	10155.239	23392.8	0.558		1.145	1.5	H2-1
58	M128	L2X2X3	0.098	0	7		0.012	4.081	y	21	10155.239	23392.8	0.558		1.145	1.5	H2-1
59	M128A	PIPE 2.0	0.453	4.531	12		0.026	4.531		12	23808.54	32130	1.872		1.872	1	H1-1b
60	M137	PIPE 2.0	0.38	6.5	6		0.144	6.5		3	14916.096	32130	1.872		1.872	1	H1-1b
61	M140	PIPE 2.0	0.396	6.5	1		0.136	3.667		11	14916.096	32130	1.872		1.872	1	H1-1b
62	M141	PIPE 2.0	0.453	4.531	6		0.026	4.531		6	23808.54	32130	1.872		1.872	1	H1-1b

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

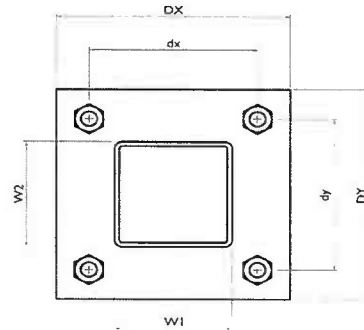
Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:
 d_x (in) (Delta X of typ. bolt config. sketch):
 d_y (in) (Delta Y of typ. bolt config. sketch):
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength / bolt (kips):
 Required Shear Strength / bolt (kips):
 Tensile Capacity / bolt (kips):
 Shear Capacity / bolt (kips):
 Bolt Overall Utilization:

4
7
7
A325N
0.625
5.6
0.6
20.7
12.4
27.1%

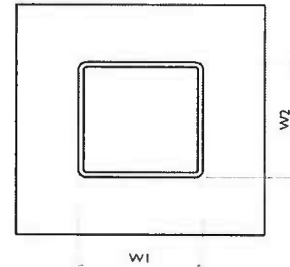


Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:
 Weld Stiffener Configuration:
 Plate Width, D_x (in):
 Plate Height, D_y (in):
 $W1$ (in):
 $W2$ (in):
 Member Thickness (in):
 Stiffener location a_1 (in):
 Stiffener location b_1 (in):
 Stiffener location a_2 (in):
 Stiffener location b_2 (in):
 F_y (ksi, plate):
 Plate Thickness (in):
 Length of Yield Line, L_y (in):
 Bolt Eccentricity, e (in):
 M_u (kip-in):
 ΦM_n (kip-in):
 Plate Bending Utilization:

Rect Tube
No Stiffeners
10
10
4
4
0.25
36
0.75
7.75
2.35
13.23
35.31
37.5%



VzW
SMART Tool®
Vendor

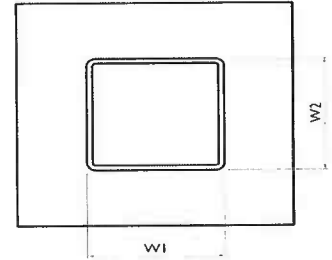
Client:	Verizon Wireless	Date:	3/10/2025
Site Name:	HAMDEN NORTH 2 CT		
MDG #:	5000382446		
Fuze ID #:	17390742	Page:	2

Version 2.00

Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Weld Size (1/16 in):
W1 (in):
W2 (in):
Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in):
 c_y (in):
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Rectangle
None
3
4
4
16.00
21.33
21.33
85.33
2.25
2.25
2.30
4.18
55.2%

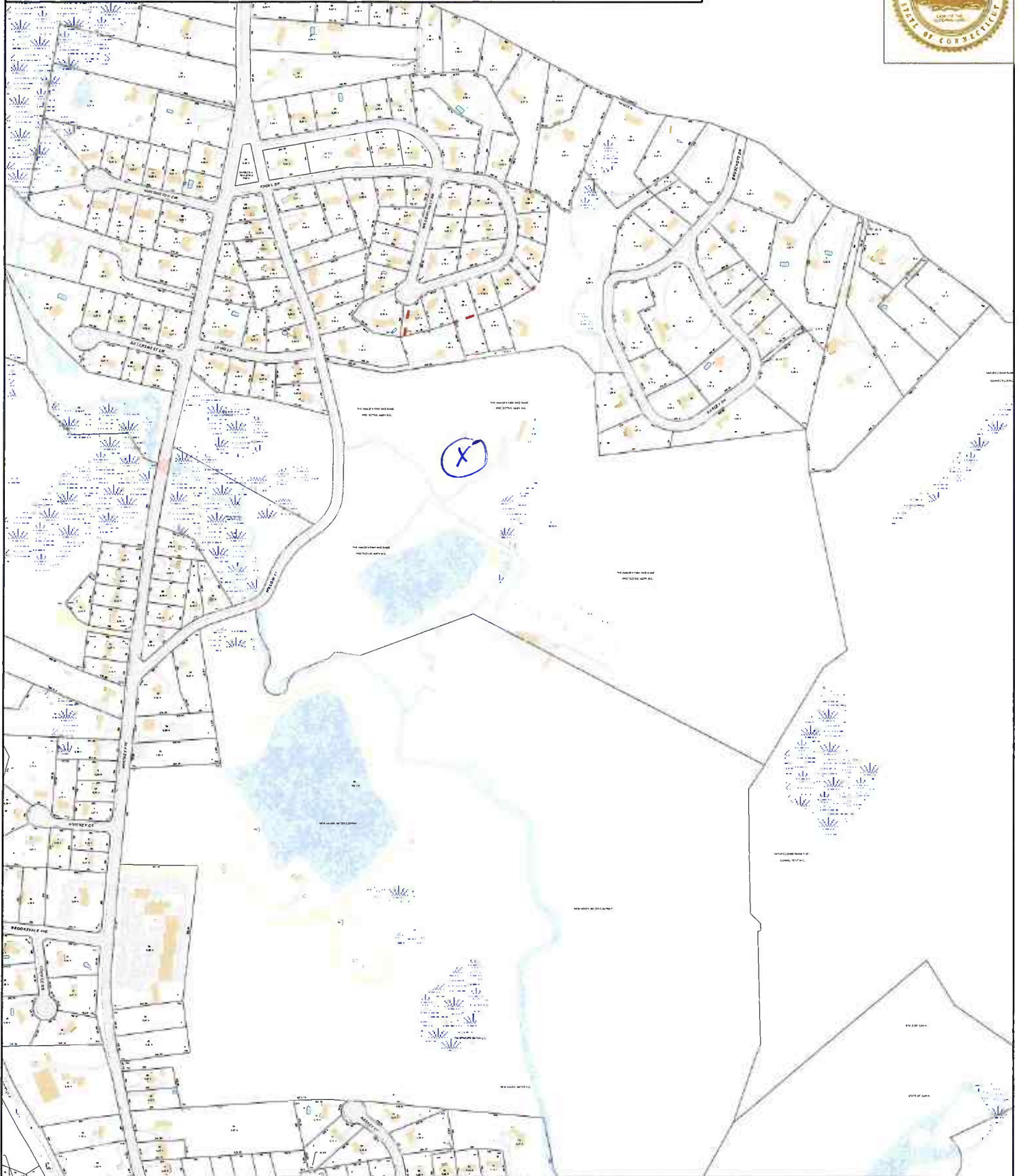


ATTACHMENT 4

Town of Hamden, Connecticut - Assessment Parcel Map

Parcel: 3430-001-00-0000

Address: 150 WILLOW ST



Property Information

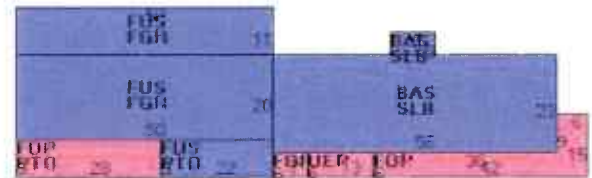
Property Location	150 WILLOW ST
Owner	HAMDEN FISH & GAME PROTECTIVE AS
Co-Owner	
Mailing Address	P O BOX 5619 HAMDEN CT 06518-0619
Land Use	3850 FISH&GAME
Land Class	C
Zoning Code	T1
Census Tract	2
Sub Lot	
Neighborhood	130
Acreage	85.58
Lot Setting/Desc	Suburban / Level
Survey Map	
Utilities	Public Water,Public Sewer,Gas/Electric
Additional Info	

Photo



3430-001-00-0000 04/23/2015

Sketch



Primary Construction Details

Year Built	1900
Stories	2
Building Style	Clubs/Lodges
Building Use	Comm/Ind
Building Condition	C
Floors	Vinyl/Asphalt
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Gable/Hip
Roof Cover	Asphalt

Exterior Walls	Vinyl Siding
Interior Walls	K PINE/A WD
Heating Type	Forced Air-Duc
Heating Fuel	Oil
AC Type	
Gross Bldg Area	5759
Total Living Area	3081

ATTACHMENT 5



Name and Address of Sender

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
One State Street
Hartford, CT 06103

TOTAL NO.
of Pieces Listed by Sender

4

TOTAL NO.
of Pieces Received at Post Office™

4

Affix Stamp Here
Postmark with Date of Receipt



USPS® Tracking Number
Firm-specific Identifier

Address
(Name, Street, City, State, and ZIP Code™)

Lauren Garretti, Mayor
Town of Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518
Eugene Livshits, Town Planner
Town of Hamden Government Center
2750 Dixwell Avenue
Hamden, CT 06518
Hamden Fish and Game Protective Association
P.O. Box 5619
Hamden, CT 06518

Vertical Bridge – VBT SUB 2, LLC
Attn: Leasing Administration
Site – US-CT-5019
750 Park of Commerce Drive, Suite 200
Boca Raton, FL 33487

Parcel Airlift

Special Handling

Fee

Postage

1.

2.

3.

4.

5.

6.