Robinson+Cole

KENNETH C. BALDWIN

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Also admitted in Massachusetts and New York

April 18, 2024

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**
19 Main Street, Old Saybrook, 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 three (3) tower masts inside a faux chimney, on the roof of the existing building. Associated equipment is located inside the existing commercial building. Cellco's existing facility was approved by the Siting Council ("Council") in June of 2015 (Petition No. 1155). In April of 2016 the Council approved Cellco's request to install a generator on the roof of the building. Copies of the Council's Petition No. 1155 approval and generator approval are included in Attachment 1.

Cellco's proposed modification involves the installation of two (2) interference mitigation filters ("Filters") on its existing antenna mounting structure, inside the faux chimney. 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 Old Saybrook's Chief Elected Official and Land Use Officer and the owner of 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).

1. The proposed modifications will not result in an increase in the height of the

existing facility. The Filters will be installed on Cellco's existing antenna mounting structures inside the faux chimney.

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 Cellco's 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 host building, antenna mounting assemblies and enclosure frame can support Cellco's proposed modifications. A copy of the SA and MA[1] 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:
Carl Fortuna, Old Saybrook First Selectman
Christina Costa, Town Planner/Zoning Enforcement Officer
231st SRS LLC, Property Owner
Aleksey Tyurin, Verizon Wireless

[1] Please note that the model number listed for the Filters in the SA (KA-6030) and MA (BSF0020F3V1) are the same filter. *See* correspondence from Kaelus included in Attachment 2.

ATTACHMENT 1

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 1, 2015

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

RE: **PETITION NO. 1155 -** Cellco Partnership d/b/a Verizon Wireless petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a small cell telecommunications facility on the roof of an existing commercial building located at 19 Main Street, Old Saybrook, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on May 28, 2015, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
- If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the facilityr and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period; and
- This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated April 28, 2015.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,

Robert Stein HAB

Robert Stein
Chairman

RS/RM/lm

Enclosure: Staff Report dated May 28, 2015

c: The Honorable Carl P. Fortuna, Jr., First Selectman, Town of Old Saybrook
Christine Nelson, Town Planner, Town of Old Saybrook
Prospect Realty Partners LLC c/o Alex Wagner

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

Petition No. 1155
Cellco Partnership d/b/a Verizon Wireless
19 Main Street, Old Saybrook
Staff Report
May 28, 2015

On April 28, 2015, the Connecticut Siting Council (Council) received a petition from Cellco Partnership d/b/a Verizon Wireless (Cellco) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a small cell telecommunications facility on a commercial building at 19 Main Street (Route 154) in Old Saybrook. Cellco seeks to improve 700 MHz and 2100 MHz services in the surrounding area.

The target service area consists of a heavily developed, mostly commercial area centered around the intersection of Route 1 and Route 154 in Old Saybrook. Due to the high volume of data traffic, two adjacent Cellco sites that provide wireless service to this area are beyond their capacity limits. The proposed site would alleviate capacity issues at these two sites as well as provide some coverage to existing 2100 MHz service gaps in the area.

Cellco would install six antennas with six remote radio heads on three tower masts mounted to the roof of the building. The masts and antennas would be concealed by a RF transparent enclosure designed to appear as a rooftop penthouse. It would extend 12 feet above a roof parapet and would have a stucco finish to match the existing building exterior.

Radio equipment would be installed within a room on the first floor of the building. Power and telephone service would be connected to existing service inside the building.

The power density would be 41 percent of the applicable limit as established by the Federal Communications Commission (FCC), based on a far-field calculations in accordance with methodology prescribed by the FCC Office of Engineering and Technology Bulletin No. 65E, Edition 97-01 (August 1997).

The visual impact of the project is expected to be negligible as the faux penthouse appears similar to the building structure. The building is located in a commercial zone. The small cell would not be an aviation hazard.

Notice was provided to the Town of Old Saybrook, the property owner, and abutting property owners. No comments have been received to date.

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
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www.ct.gov/csc

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 15, 2016

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

RE: **PETITION NO. 1155 -** Cellco Partnership d/b/a Verizon Wireless petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a small cell telecommunications facility on the roof of an existing commercial building located at 19 Main Street, Old Saybrook, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on April 14, 2016, the Connecticut Siting Council (Council) considered and approved the revisions to this petition submitted on April 4, 2016.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated April 28, 2015 and in the revision submission dated April 1, 2016.

Very truly yours,

Robert Stein MAB

Robert Stein
Chairman

RS/CH/lm

Enclosure: Staff Report dated April 14, 2016

c: The Honorable Carl P. Fortuna, Jr., First Selectman, Town of Old Saybrook
Christine Nelson, Town Planner, Town of Old Saybrook
Prospect Realty Partners LLC c/o Alex Wagner

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

Petition No. 1155 Modification
Cellco
19 Main Street, Old Saybrook
Small Cell Facility
Staff Report
April 14, 2016

On May 28, 2015 the Connecticut Siting Council (Council) approved a Cellco Partnership d/b/a Verizon Wireless (Cellco) small cell telecommunications facility at 934 Boston Post Road, Guilford, Connecticut. On April 4, 2016, the Council received a filing to modify this petition. The proposed facility modifications involve the installation of a 25 kilowatt back-up generator and a single air conditioning condensing unit, both located on a 8-foot by 14-foot steel platform in the center of the roof of the building. The generator would be fueled by natural gas, connecting to existing service at the property. At the request of the building owner, Cellco would also relocate its equipment to a new 12-foot by 13-foot equipment room inside the building.

The remainder of the proposed facility remains unchanged. Cellco would install six antennas with six remote radio heads on three tower masts mounted to the roof of the building. The masts and antennas would be concealed by a RF transparent enclosure designed to appear as a rooftop penthouse. It would extend 12 feet above a roof parapet and would have a stucco finish to match the existing building exterior. Due to existing architectural features on the building, the proposed modifications have no additional visual impact.

The target service area consists of a heavily developed, mostly commercial area centered around the intersection of Route 1 and Route 154 in Old Saybrook. Due to the high volume of data traffic, two adjacent Cellco sites that provide wireless service to this area are beyond their capacity limits. The proposed site would alleviate capacity issues at these two sites as well as provide some coverage to existing 2100 MHz service gaps in the area.

Cellco provided a noise evaluation report concluding noise levels from the emergency generator and condenser comply with the Town of Old Saybrook noise regulations, and are consistent with state noise control regulations when projected to the nearest commercial zone property line. Also, noise created as a result of, or relating to, an emergency, such as an emergency backup power generator, is exempt from the state noise control regulations.

The site would have a maximum cumulative power density of 40.93 percent of the applicable limit using a Far Field Approximation with downtilt variation. No notice to the Federal Aviation Administration is required.

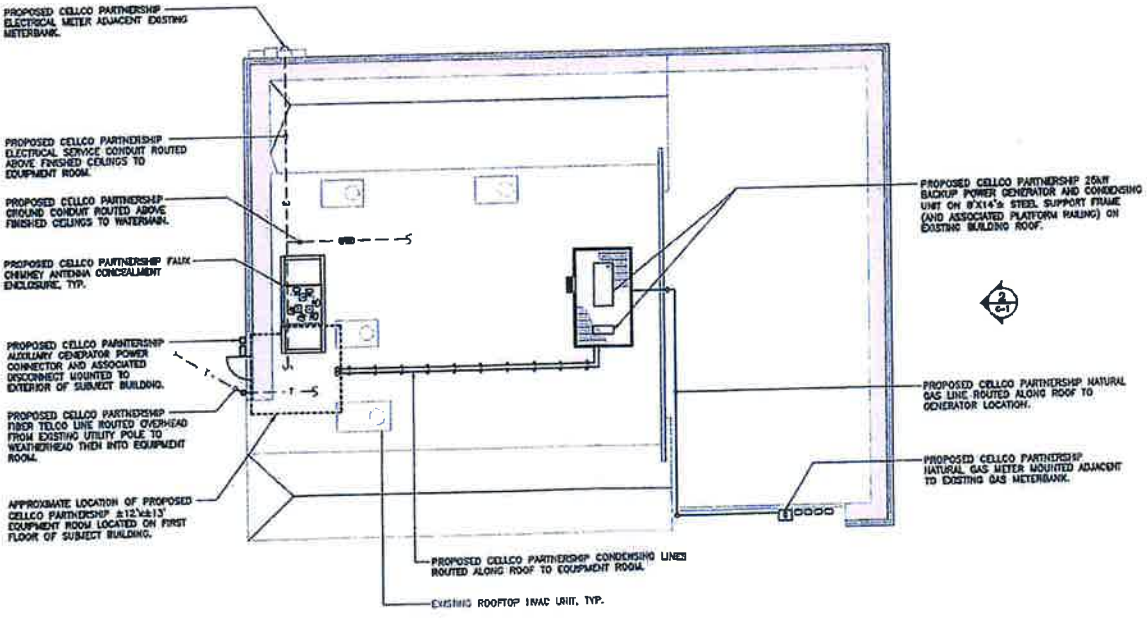
Notice was provided to the Town of Old Saybrook, the property owner, and abutting property owners. No comments have been received to date.

Cellco contends that this proposed project would not have a substantial adverse environmental impact.

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	BOSTON POST ROAD	NORTHEAST	+/- 268 FEET

ALL-POINTS



1 C-2 **PARTIAL SITE PLAN**

SCALE: 1" = 10'

GRAPHIC SCALE

(IN FEET)

1 inch = 10 ft.

ATTACHMENT 2

Janunary 4, 2024

SAI Communication LLC
c/o Edward Onessimo
68 Avalon Road
Milton, MA 02186

Ref: 900 MHz Interference Mitigation Filter Part Numbers

Mr, Onessimo,

Thank you very much for reaching out to us regarding your question related to Kaelus 900 MHz Interference Mitigation Filter Part Numbers: KA-6030-2032 & BSF0020F3V1-1.

The respective part numbers are the same product only marked/labeled with difference model numbers. Kaelus developed part number: BSF0020F3V1-1 at the request of Verizon Wireless for mitigating interference associated with 900 MHz Up Link Band while allowing the 700 & 850 Up Link & Down Link to pass thru the filter. Kaelus part number BSF0020F3V1-1 was marked/labeled with part number KA-6030-2032 at the request of Verizon Wireless for inventory management & accounting purposes related to 900 MHz Interference Issues at the low end of the frequency band with Electric Companies related to deployment of certain Samsung Radios.

Attached, please find the data sheets for both Kaelus Part Numbers: KA-6030-2032 & BSF0020F3V1-1. Please review the information and contact me with any additional questions.

Again, thank you very much for contacting Kaelus.

Sincerely,

Steve Graham
Regional Sales Manager
(717) 714-4499
Steve.Graham@kaelus.com

KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 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	

Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

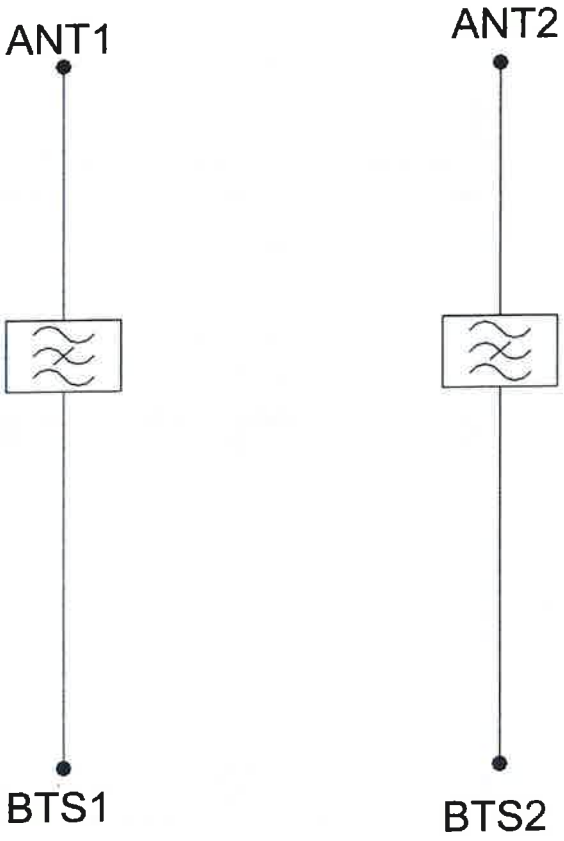
MECHANICAL	
Dimensions H x D x W	269 x 277 x 80mm | 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg | 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

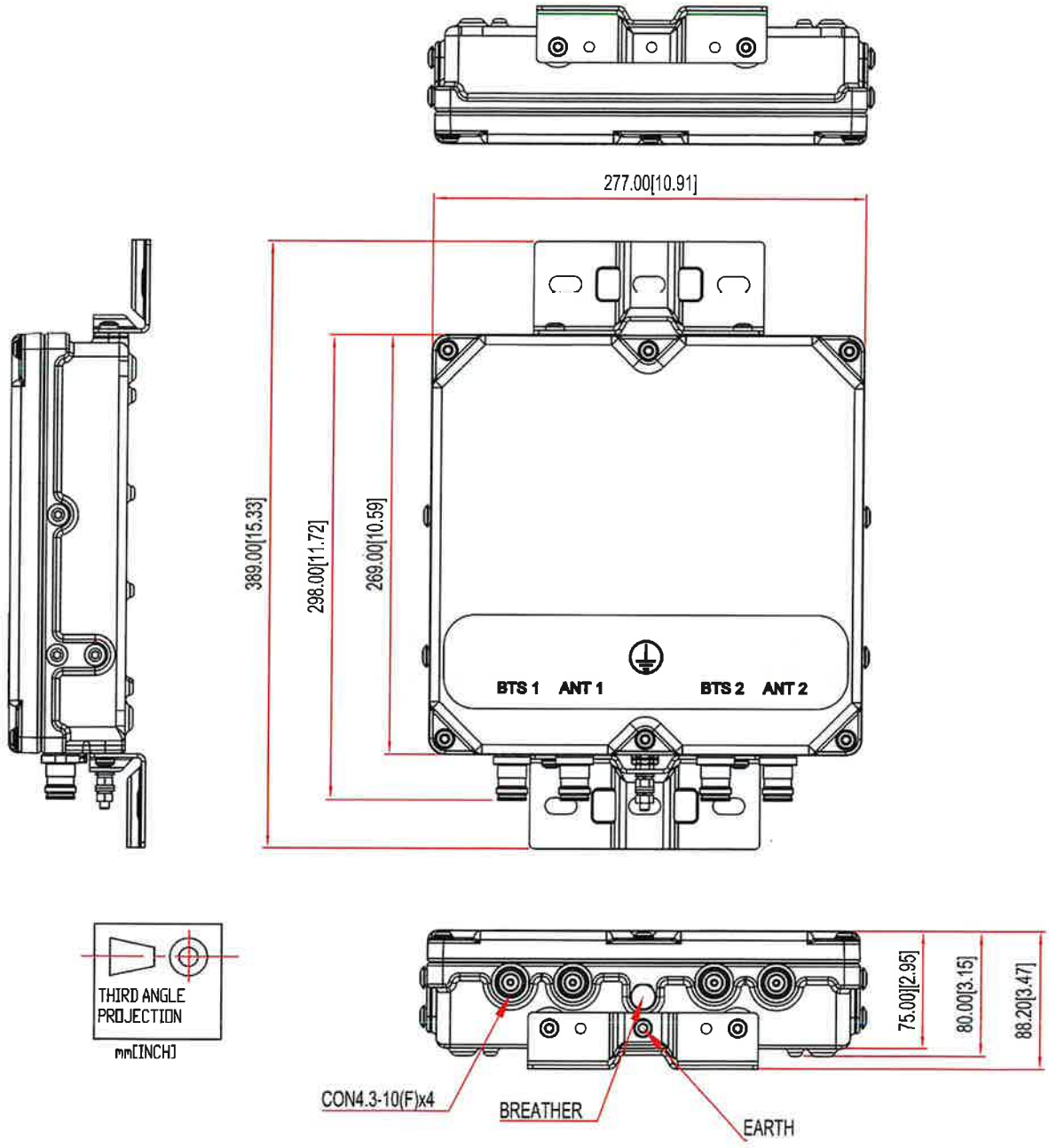
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ELECTRICAL BLOCK DIAGRAM



Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

MECHANICAL BLOCK DIAGRAM



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.	

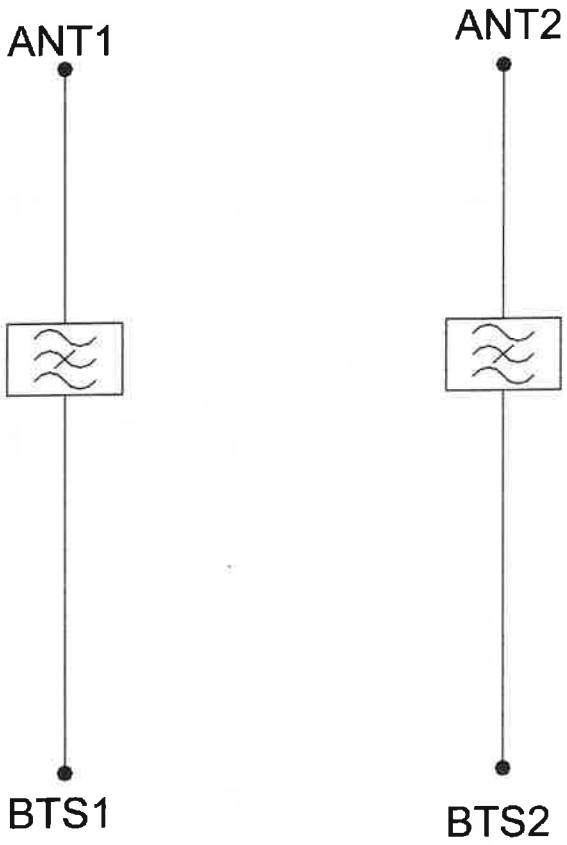
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

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)

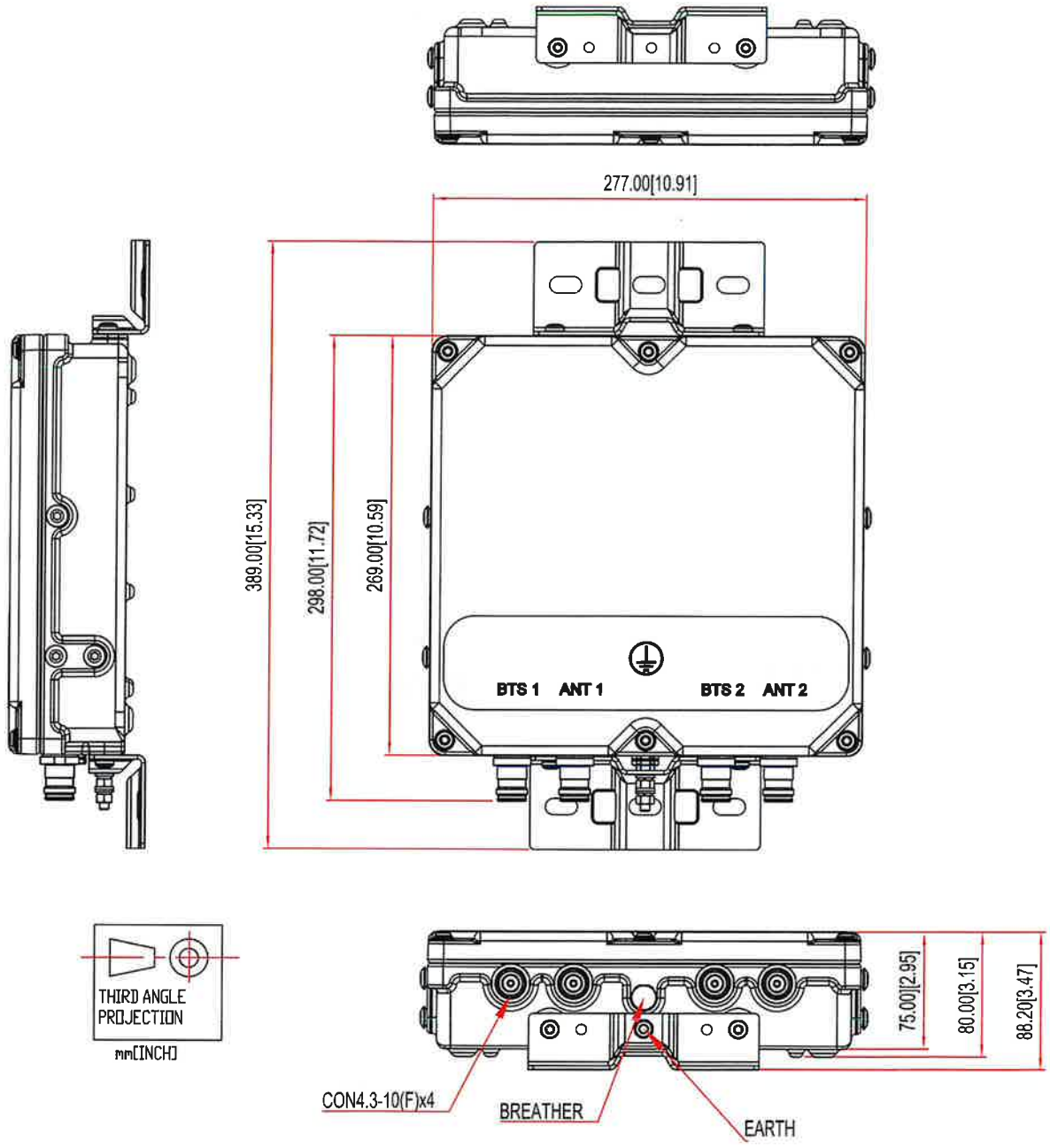
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ELECTRICAL BLOCK DIAGRAM



Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

MECHANICAL BLOCK DIAGRAM



ATTACHMENT 3

CENTEK engineering

Centered on Solutions℠

Structural Analysis Report

Antenna Screen Enclosure/Host Building

Proposed Verizon Wireless
Antenna Upgrade

Site Ref: Old Saybrook CTR CT - A

19 Main Street
Old Saybrook, CT

CENTEK Project No. 24006.02

~~Date: January 26, 2024~~
Rev 1: March 7, 2024

Prepared for:

Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

63-2 North Branford Road, Branford, CT 06405 203.488.0580 Fax 203.488.8587 www.CentekEng.com

Table of Contents

Introduction

The purpose of this structural analysis report (SAR) is to summarize the results of the impacted structural components, by the equipment upgrade proposed by Verizon Wireless on the existing host building located in Old Saybrook, CT.

The antennas are mounted within one (1) existing RF transparent screen enclosure supported on a steel dunnage frame on the roof of the host building. The existing dunnage is supported on two (2) steel wide flange roof girders.

Primary Assumptions Used in the Analysis

- The host structure's theoretical capacity not including any assessment of the condition of the host structure.
- The existing elevated steel antenna frames carry the horizontal and vertical loads due to the weight of equipment, and wind and transfers into host structure.
- Structure is in plumb condition.
- Loading for equipment and enclosure as listed in this report.
- All bolts are appropriately tightened providing the necessary connection continuity.
- All welds are fabricated with ER-70S-6 electrodes.
- All members are assumed to be as observed during roof framing mapping.
- All members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- All member protective coatings are in good condition.

Antenna and Equipment Summary

Location	Appurtenance / Equipment	Rad Center Elevation (AGL)	Mount Type
Alpha Sector	(1) JMA MX14FIT465-01Antenna (1) JMA MX06FIT465-02 Antennas	29.7-ft	Within RF Transparent enclosure supported on steel dunnage frame on host building roof
Beta Sector	(1) JMA MX14FIT465-01Antenna (1) JMA MX06FIT465-02 Antennas	29.7-ft	Within RF Transparent enclosure supported on steel dunnage frame on host building roof
Gamma Sector	(1) JMA MX14FIT465-01Antenna (1) JMA MX06FIT465-02 Antennas	29.7-ft	Within RF Transparent enclosure supported on steel dunnage frame on host building roof
Appurtenances	(3) Samsung RF4439d-25A RRH (3) Samsung RF4440d-13A RRH (3) Samsung RT-8808-77A RRH (1) RAYCAP OVP-12 Box **(2) KAELUS KA-6030 Filters**	-	Pipe mounted to RF enclosure dunnage frame

Equipment – Indicates equipment to be installed.
Equipment – Indicates equipment to remain.

Analysis

The antenna enclosure framing and roof framing were analyzed using a comprehensive computer program titled Risa3D. The program analyzes the equipment platform and antenna mounts considering the worst case code prescribed loading condition. The structures were considered to be loaded by concentric forces, and the model assumes that the members are subjected to bending, axial, and shear forces.

Design Loading

Loading was determined per the requirements of the 2021 International Building Code amended by the 2022 CSBC and ASCE 7-16 "Minimum Design Loads for Buildings and Other Structures".

Wind Speed:	V_{ult} = 130 mph	*Appendix P of the 2022 CT State Building Code*
Risk Category:	II	*2021 IBC; Table 1604.05*
Exposure Category:	Surface Roughness C	*ASCE 7-16; Section 26.7.2*
Ground Snow Load	30 psf	*Appendix P of the 2022 CT State Building Code*
Dead Load	Equipment and framing self-weight	*Identified within SAR design calculations*
Live Load	20 psf	*ASCE 7-16; Table 4-1 "Roofs – All Other Construction"*

Reference Standards

2021 International Building Code:

1. ACI 318-14, *Building Code Requirements for Structural Concrete.*
2. ACI 530-13, *Building Code Requirements for Masonry Structures.*
3. AISC 360-10, *Specification for Structural Steel Buildings*

Results

Structure stresses were calculated utilizing the structural analysis software RISA 3D. The stresses were determined based on the AISC standard.

- Calculated stresses for the antenna mounts and host building were found to **be within allowable** limits.

Sector	Component	Stress Ratio (percentage of capacity)	Result
Antenna mount and Enclosure	HSS4x4 Existing Screen Wall Member	70%	**PASS**
	L3x3x1/4 Screen Wall Existing Bracing Member	67%	**PASS**
	W8x24 Existing Dunnage Beam	47%	**PASS**
	Pipe 3.5 Std. Existing Dunnage Post	98%	**PASS**
Host Building	W27x84 Existing Roof Framing	90%	**PASS**

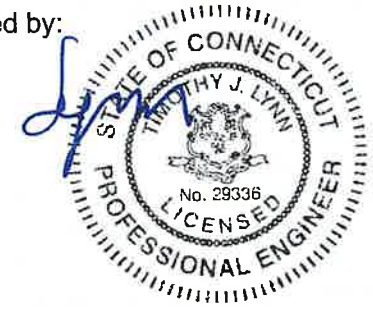
Conclusion

This analysis shows that the subject antenna enclosure frame & host roof structure **HAVE SUFFICIENT CAPACITY** to support the proposed modified antenna configuration.

The analysis is based, in part, on the information provided to this office by Verizon Wireless. If the existing conditions are different than the information in this report, Centek Engineering, Inc. must be contacted for resolution of any potential issues.

Please feel free to call with any questions or comments.

Respectfully Submitted by:



Timothy J. Lynn, PE
Structural Engineer

Standard Conditions for Furnishing of Professional Engineering Services on Existing Structures

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

- Information supplied by the client regarding the structure itself, its foundations, the soil conditions, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from the field and/or drawings in the possession of Centek Engineering, Inc. or generated by field inspections or measurements of the structure.
- It is the responsibility of the client to ensure that the information provided to Centek Engineering, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated. It is therefore assumed that its capacity has not significantly changed from the "as new" condition.
- All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest revision of ANSI/ASCE16 & ANSI/EIA-222
- All services performed, results obtained, and recommendations made are in accordance with generally accepted engineering principles and practices. Centek Engineering, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

CENTEK engineering
Centered on Solutions℠ www.centekeng.com
63-2 North Branford Road P: (203) 488-0580
Branford, CT 06405 F: (203) 488-8587

Subject: Wind Load on Equipment per ASCE 7-16

Location: Old Saybrook, CT

Rev. 0: 01/25/2024

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Job No. 24006.02

Design Wind Load on Other Structures:

(Based on IBC 2021, CSBC 2022 and ASCE 7-16)

Wind Speed =	$V := 130$	mph	(User Input)	(CSBC Appendix-P)
Risk Category =	$BC := II$		(User Input)	(IBC Table 1604.5)
Exposure Category =	$Exp := B$		(User Input)	
Height Above Grade =	$Z := 29.7$	ft	(User Input)	
Structure Type =	$Structuretype := Square\_Chimney$			
Structure Height =	$Height := 13.3$	ft	(User Input)	
Horizontal Dimension of Structure =	$Width := 6.0$	ft	(User Input)	

Terrain Exposure Constants:

Nominal Height of the Atmospheric Boundary Layer = (Table 26.11-1)

$$zg := \begin{cases} 1.2 \cdot 10^3 & \text{if } Exp = B \\ 1200 & \\ & \text{if } Exp = C \\ 900 & \\ & \text{if } Exp = D \\ 700 & \end{cases}$$

3-Sec Gust Speed Power Law Exponent = (Table 26.11-1)

$$\alpha := \begin{cases} 7 & \text{if } Exp = B \\ 7 & \\ & \text{if } Exp = C \\ 9.5 & \\ & \text{if } Exp = D \\ 11.5 & \end{cases}$$

Exposure Coefficient = (Table 26.10-1)

$$K_z := \begin{cases} 0.7 & \text{if } 15 \le Z \le zg \\ 2.01 \cdot \left(\frac{Z}{zg}\right)^{\left(\frac{2}{\alpha}\right)} & \\ & \text{if } Z < 15 \\ 2.01 \cdot \left(\frac{15}{zg}\right)^{\left(\frac{2}{\alpha}\right)} & \end{cases}$$

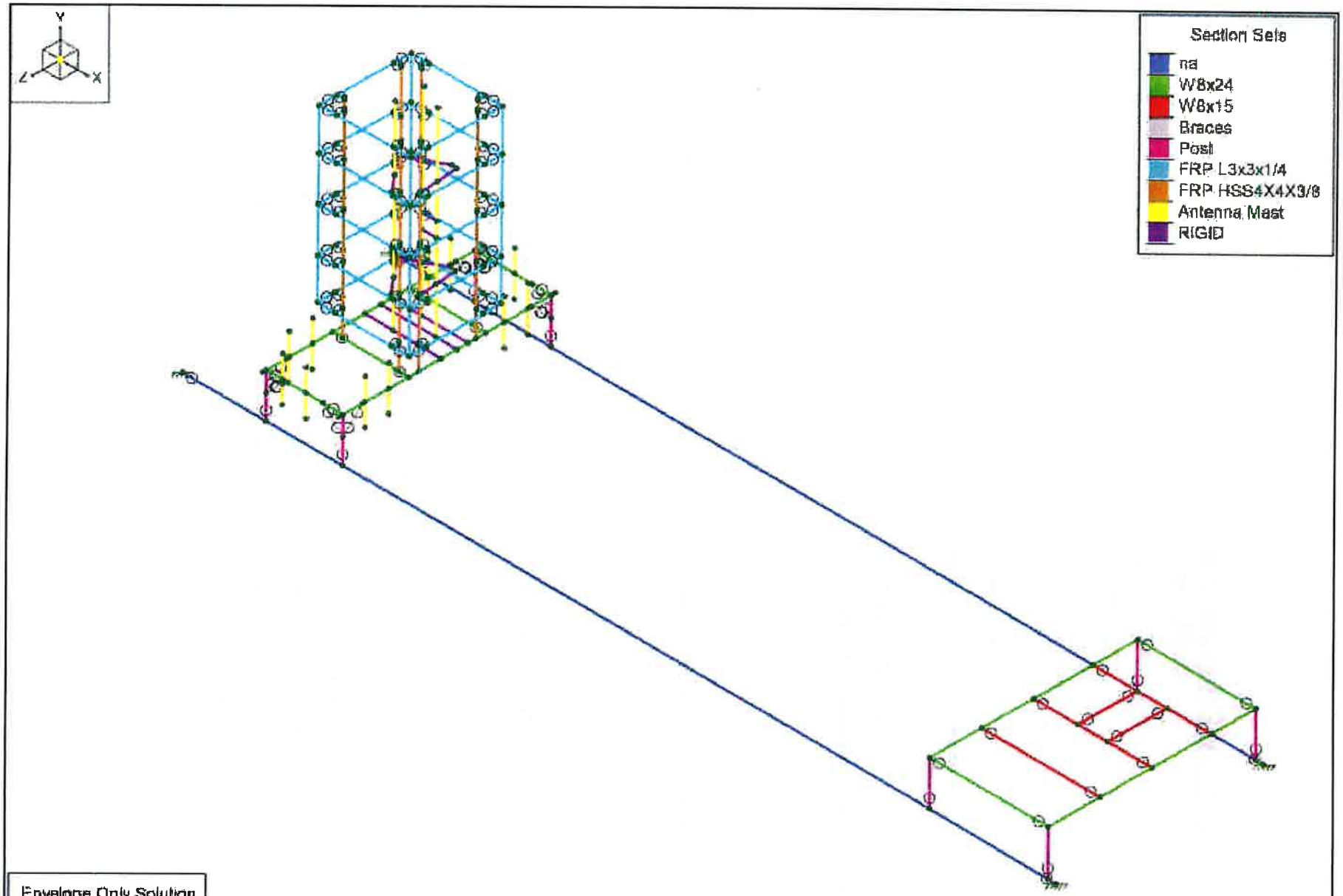
Topographic Factor = $K_{zt} := 1$ (Eq. 26.8-2)

Wind Directionality Factor = $K_d = 0.9$ (Table 26.6-1)

Velocity Pressure = $q_z := 0.00256 \cdot K_z \cdot K_{zt} \cdot K_d \cdot V^2 = 27.2$ (Eq. 29.3-1)

Force Coefficient = $GC_r := 1.9$ (Section 29.5-1-29.5-3)

Wind Force = $F := q_z \cdot GC_r = 52$ psf



RISA	Centek Engineering	Old Saybrook CTR CT - AMA	SK-2
	CMT		Old Saybrook CTR - Faux Chimney D...
	24006.02		

Model Settings

Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in^2)	144
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes
Approximate Mesh Size (in)	12
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
Single	No
Multiple (Optimum)	Yes
Maximum	No

Global Axis corresponding to vertical direction	Y
Convert Existing Data	Yes
Default Global Plane for z-axis	XZ
Plate Local Axis Orientation	Nodal

Hot Rolled Steel	AISC 15th (360-16): ASD
Stiffness Adjustment	Yes (Iterative)
Notional Annex	None
Connections	AISC 14th (360-10): ASD
Cold Formed Steel	AISI S100-10: ASD
Stiffness Adjustment	Yes (Iterative)
Wood	AWC NDS-12: ASD
Temperature	< 100F
Concrete	ACI 318-11
Masonry	ACI 530-11: ASD
Aluminum	AA ADM1-10: ASD
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	AISC 14th (360-10): ASD
Stiffness Adjustment	Yes (Iterative)

Analysis Methodology	Exact Integration Method
Parme Beta Factor	0.65

Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	Yes
List forces which were ignored for design in the Detail Report	Yes

Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No
Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4

Code	ASCE 7-10

Model Settings (Continued)

Risk Category	I or II
Drift Cat	Other
Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
S_1 (g)	1
SD_1 (g)	1
SD_s (g)	1
T_L (sec)	5
T Z (sec)	
T X (sec)	
C_tZ	0.02
C_tX	0.02
C_tExp. Z	0.75
C_tExp. X	0.75
R Z	3
R X	3
Ω_0Z	1
Ω_0X	1
C_dZ	4
C_dX	4
ρ Z	1
ρ X	1

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e^{6}°F^{-1}]	Density [k/ft^{3}]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	58	1.2
3	A992	29000	11154	0.3	0.65	0.49	50	1.1	58	1.2
4	A500 Gr.42	29000	11154	0.3	0.65	0.49	42	1.3	58	1.1
5	A500 Gr.46	29000	11154	0.3	0.65	0.49	46	1.2	58	1.1
6	FRP	2800	450	0.35	0.44	0.11	16.67	1.5	50	1.3
7	A53 Grade B	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in^{2}]	Iyy [in^{4}]	Izz [in^{4}]	J [in^{4}]
1	W8x24	W8X24	Beam	Wide Flange	A992	Typical	7.08	18.3	82.7	0.346
2	W8x15	W8X15	Beam	Wide Flange	A992	Typical	4.44	3.41	48	0.137
3	Braces	L3.5X3.5X4	VBrace	Single Angle	A36 Gr.36	Typical	1.7	2	2	0.039
4	Post	PIPE 3.5	Column	Tube	A53 Grade B	Typical	2.5	4.52	4.52	9.04
5	FRP L6x6x1/4	L8X6X8	Column	Single Angle	FRP	Typical	6.8	21.7	44.4	0.584
6	FRP L3x3x1/4	L3X3X4	Beam	Single Angle	FRP	Typical	1.44	1.23	1.23	0.031
7	FRP HSS4X4X3/8	HSS4X4X6	Column	Tube	FRP	Typical	4.78	10.3	10.3	17.5
8	HR8	HSS4X4X6	Column	Tube	FRP	Typical	4.78	10.3	10.3	17.5
9	Brace	L3.5X3.5X4	Beam	Single Angle	A36 Gr.36	Typical	1.7	2	2	0.039
10	Antenna Mast	PIPE 2.0	Column	Tube	A53 Grade B	Typical	1.02	0.627	0.627	1.25

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Lcomp bot [ft]	Channel Conn.	a [ft]	Function
1	M1	Post	3	Segment		Lbyy		N/A	N/A	Lateral
2	M2	Post	3	Segment		Lbyy		N/A	N/A	Lateral
3	M3	Post	3	Segment		Lbyy		N/A	N/A	Lateral
4	M4	Post	3	Segment		Lbyy		N/A	N/A	Lateral
5	M5	W8x24	14.542	Segment		Lbyy		N/A	N/A	Lateral
6	M6	W8x24	14.542	Segment		Lbyy		N/A	N/A	Lateral
7	M7	W8x24	5.167	Segment		Lbyy		N/A	N/A	Lateral
8	M8	W8x24	5.167	Segment		Lbyy		N/A	N/A	Lateral
9	M9	W8x24	5.167	Segment		Lbyy		N/A	N/A	Lateral
10	M10	W8x24	5.167	Segment		Lbyy		N/A	N/A	Lateral
11	M11	Braces	1.886			Lbyy		N/A	N/A	Lateral
12	M12	Braces	1.886			Lbyy		N/A	N/A	Lateral
13	M13	Braces	1.886			Lbyy		N/A	N/A	Lateral
14	M14	Braces	1.886			Lbyy		N/A	N/A	Lateral
15	M15	Braces	1.886			Lbyy		N/A	N/A	Lateral
16	M16	Braces	1.856			Lbyy		N/A	N/A	Lateral
17	M17	Braces	1.886			Lbyy		N/A	N/A	Lateral
18	M18	Braces	1.886			Lbyy		N/A	N/A	Lateral
19	M19	FRP HSS4X4X3/8	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
20	M20	FRP HSS4X4X3/8	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
21	M21	FRP HSS4X4X3/8	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
22	M22	FRP HSS4X4X3/8	13.5	Segment		Lbyy		N/A	N/A	Lateral
23	M23	FRP HSS4X4X3/8	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
24	M24	FRP HSS4X4X3/8	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
25	M25	FRP HSS4X4X3/8	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
26	M26	FRP HSS4X4X3/8	13.5	Segment		Lbyy		N/A	N/A	Lateral
27	M27	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
28	M28	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
29	M29	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Lcomp bot [ft]	Channel Conn.	a [ft]	Function
30	M30	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
31	M31	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
32	M32	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
33	M33	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
34	M34	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
35	M35	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
36	M36	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
37	M37	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
38	M38	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
39	M39	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
40	M40	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
41	M41	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
42	M42	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
43	M43	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
44	M44	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
45	M45	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
46	M46	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
47	M47	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
48	M48	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
49	M49	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
50	M50	FRP L3x3x1/4	0.521	0.167	0.167	Lbyy		N/A	N/A	Lateral
51	M51	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
52	M52	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
53	M53	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
54	M54	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
55	M55	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
56	M56	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
57	M57	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
58	M58	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
59	M59	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
60	M60	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
61	M61	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
62	M62	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
63	M63	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
64	M64	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
65	M65	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
66	M66	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
67	M67	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
68	M68	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
69	M69	FRP L3x3x1/4	6.208	Segment	Segment	Lbyy		N/A	N/A	Lateral
70	M70	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
71	M71	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
72	M72	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
73	M73	FRP L3x3x1/4	6.208	Segment	Segment	Lbyy		N/A	N/A	Lateral
74	M74	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
75	M75	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
76	M76	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
77	M77	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
78	M78	FRP L3x3x1/4	6.208	Segment	Segment	Lbyy		N/A	N/A	Lateral
79	M79	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
80	M80	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
81	M81	FRP L3x3x1/4	6.208	Segment		Lbyy		N/A	N/A	Lateral
82	M82	FRP L3x3x1/4	6.208	Segment	Segment	Lbyy		N/A	N/A	Lateral
83	M83	FRP L3x3x1/4	6.208	Segment	Segment	Lbyy		N/A	N/A	Lateral
84	M84	Antenna Mast	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Lcomp bot [ft]	Channel Conn.	a [ft]	Function
85	M85	Antenna Mast	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
86	M86	Antenna Mast	13.5	Segment	Segment	Lbyy		N/A	N/A	Lateral
87	M96	FRP L3x3x1/4	11.646	Segment	Segment	Segment	Segment	N/A	N/A	Lateral
88	M97	FRP L3x3x1/4	11.646	Segment	Segment	Segment	Segment	N/A	N/A	Lateral
89	M98	FRP L3x3x1/4	11.646	Segment	Segment	Segment	Segment	N/A	N/A	Lateral
90	M99	FRP L3x3x1/4	11.646	Segment	Segment	Segment	Segment	N/A	N/A	Lateral
91	M100	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
92	M101	FRP L3x3x1/4	0.521	0.167		Lbyy		N/A	N/A	Lateral
93	M102	FRP L3x3x1/4	6.208	Segment	Segment	Lbyy		N/A	N/A	Lateral
94	M103	Post	3			Lbyy		N/A	N/A	Lateral
95	M104	Post	3			Lbyy		N/A	N/A	Lateral
96	M105	Post	3			Lbyy		N/A	N/A	Lateral
97	M106	Post	3			Lbyy		N/A	N/A	Lateral
98	M107	W8x24	14			Lbyy		N/A	N/A	Lateral
99	M108	W8x24	8			Lbyy		N/A	N/A	Lateral
100	M109	W8x24	14			Lbyy		N/A	N/A	Lateral
101	M110	W8x24	8			Lbyy		N/A	N/A	Lateral
102	M111	W8x15	8			Lbyy		N/A	N/A	Lateral
103	M112	W8x15	8			Lbyy		N/A	N/A	Lateral
104	M113	W8x15	8			Lbyy		N/A	N/A	Lateral
105	M114	W8x15	4			Lbyy		N/A	N/A	Lateral
106	M115	W8x15	4			Lbyy		N/A	N/A	Lateral
107	M124	W27X84	59.25	1		Lbyy		N/A	N/A	Lateral
108	M125	W27X84	59.25	1		Lbyy		N/A	N/A	Lateral
109	BR.1	Antenna Mast	3					N/A	N/A	Lateral
110	AR.1	Antenna Mast	3					N/A	N/A	Lateral
111	BR.2	Antenna Mast	3					N/A	N/A	Lateral
112	BR.3	Antenna Mast	3					N/A	N/A	Lateral
113	AR.2	Antenna Mast	3					N/A	N/A	Lateral
114	AR.3	Antenna Mast	3					N/A	N/A	Lateral
115	GR.3	Antenna Mast	3					N/A	N/A	Lateral
116	GR.2	Antenna Mast	3					N/A	N/A	Lateral
117	GR.1	Antenna Mast	3					N/A	N/A	Lateral
118	M135	Antenna Mast	3	Segment		Lbyy		N/A	N/A	Lateral
119	M130	Antenna Mast	3	Segment		Lbyy		N/A	N/A	Lateral

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N2	N17		Post	Column	Tube	A53 Grade B	Typical
2	M2	N4	N36		Post	Column	Tube	A53 Grade B	Typical
3	M3	N1	N10		Post	Column	Tube	A53 Grade B	Typical
4	M4	N3	N29		Post	Column	Tube	A53 Grade B	Typical
5	M5	N18	N9		W8x24	Beam	Wide Flange	A992	Typical
6	M6	N37	N28		W8x24	Beam	Wide Flange	A992	Typical
7	M7	N17	N36		W8x24	Beam	Wide Flange	A992	Typical
8	M8	N10	N29		W8x24	Beam	Wide Flange	A992	Typical
9	M9	N15	N34		W8x24	Beam	Wide Flange	A992	Typical
10	M10	N12	N31		W8x24	Beam	Wide Flange	A992	Typical
11	M11	N6	N22		Braces	VBrace	Single Angle	A36 Gr.36	Typical
12	M12	N6	N16		Braces	VBrace	Single Angle	A36 Gr.36	Typical
13	M13	N8	N24		Braces	VBrace	Single Angle	A36 Gr.36	Typical
14	M14	N8	N35		Braces	VBrace	Single Angle	A36 Gr.36	Typical
15	M15	N7	N30		Braces	VBrace	Single Angle	A36 Gr.36	Typical
16	M16	N7	N25		Braces	VBrace	Single Angle	A36 Gr.36	Typical
17	M17	N5	N21		Braces	VBrace	Single Angle	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
18	M18	N5	N11		Braces	VBrace	Single Angle	A36 Gr.36	Typical
19	M19	N27	N165	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
20	M20	N20	N163	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
21	M21	N26	N166	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
22	M22	N19	N164	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
23	M23	N14	N161	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
24	M24	N13	N162	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
25	M25	N33	N167	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
26	M26	N32	N168	90	FRP HSS4X4X3/8	Column	Tube	FRP	Typical
27	M27	N136	N139		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
28	M28	N135	N140	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
29	M29	N107	N110		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
30	M30	N106	N111	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
31	M31	N62	N65		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
32	M32	N61	N66	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
33	M33	N156	N159	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
34	M34	N155	N160	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
35	M35	N122	N126		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
36	M36	N121	N125	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
37	M37	N93	N97		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
38	M38	N92	N96	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
39	M39	N77	N81		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
40	M40	N76	N80	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
41	M41	N48	N52		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
42	M42	N47	N51	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
43	M43	N142	N146	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
44	M44	N141	N145	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
45	M45	N127	N128		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
46	M46	N131	N132	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
47	M47	N98	N99		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
48	M48	N102	N103	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
49	M49	N82	N83		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
50	M50	N86	N87	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
51	M51	N53	N54		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
52	M52	N57	N58	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
53	M53	N147	N148	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
54	M54	N151	N152	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
55	M55	N129	N130		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
56	M56	N133	N134	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
57	M57	N100	N101		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
58	M58	N104	N105	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
59	M59	N84	N85		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
60	M60	N88	N89	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
61	M61	N55	N56		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
62	M62	N59	N60	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
63	M63	N149	N150	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
64	M64	N153	N154	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
65	M65	N144	N143	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
66	M66	N124	N123	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
67	M67	N95	N94	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
68	M68	N79	N78	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
69	M69	N50	N49	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
70	M70	N158	N157	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
71	M71	N138	N137	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
72	M72	N109	N108	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
73	M73	N64	N63	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
74	M74	N144	N158	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
75	M75	N124	N138	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
76	M76	N95	N109	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
77	M77	N79	N91	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
78	M78	N50	N64	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
79	M79	N143	N157	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
80	M80	N123	N137	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
81	M81	N94	N108	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
82	M82	N78	N90	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
83	M83	N49	N63	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
84	M84	N38	N169	90	Antenna Mast	Column	Tube	A53 Grade B	Typical
85	M85	N39	N170	90	Antenna Mast	Column	Tube	A53 Grade B	Typical
86	M86	N40	N171	90	Antenna Mast	Column	Tube	A53 Grade B	Typical
87	M87	N115	N116		RIGID	None	None	RIGID	Typical
88	M88	N70	N71		RIGID	None	None	RIGID	Typical
89	M89	N117	N118		RIGID	None	None	RIGID	Typical
90	M90	N72	N73		RIGID	None	None	RIGID	Typical
91	M91	N120	N119		RIGID	None	None	RIGID	Typical
92	M92	N75	N74		RIGID	None	None	RIGID	Typical
93	M93	N43	N44		RIGID	None	None	RIGID	Typical
94	M94	N46	N45		RIGID	None	None	RIGID	Typical
95	M95	N42	N41		RIGID	None	None	RIGID	Typical
96	M96	N143	N49	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
97	M97	N157	N63		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
98	M98	N158	N64	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
99	M99	N144	N50	180	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
100	M100	N173	N174		FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
101	M101	N172	N175	270	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
102	M102	N91	N90	90	FRP L3x3x1/4	Beam	Single Angle	FRP	Typical
103	M103	N178	N182		Post	Column	Tube	A53 Grade B	Typical
104	M104	N176	N180		Post	Column	Tube	A53 Grade B	Typical
105	M105	N177	N181		Post	Column	Tube	A53 Grade B	Typical
106	M106	N179	N183		Post	Column	Tube	A53 Grade B	Typical
107	M107	N182	N180		W8x24	Beam	Wide Flange	A992	Typical
108	M108	N180	N181		W8x24	Beam	Wide Flange	A992	Typical
109	M109	N181	N183		W8x24	Beam	Wide Flange	A992	Typical
110	M110	N183	N182		W8x24	Beam	Wide Flange	A992	Typical
111	M111	N186	N189		W8x15	Beam	Wide Flange	A992	Typical
112	M112	N185	N188		W8x15	Beam	Wide Flange	A992	Typical
113	M113	N184	N187		W8x15	Beam	Wide Flange	A992	Typical
114	M114	N192	N190		W8x15	Beam	Wide Flange	A992	Typical
115	M115	N193	N191		W8x15	Beam	Wide Flange	A992	Typical
116	M124	N206	N207		W27X84	Beam	Wide Flange	A36 Gr.36	Typical
117	M125	N208	N209		W27X84	Beam	Wide Flange	A36 Gr.36	Typical
118	BR.1	N216	N217		Antenna Mast	Column	Tube	A53 Grade B	Typical
119	AR.1	N220	N221		Antenna Mast	Column	Tube	A53 Grade B	Typical
120	BR.2	N222	N223		Antenna Mast	Column	Tube	A53 Grade B	Typical
121	BR.3	N222A	N223A		Antenna Mast	Column	Tube	A53 Grade B	Typical
122	AR.2	N224	N225		Antenna Mast	Column	Tube	A53 Grade B	Typical
123	AR.3	N226	N227		Antenna Mast	Column	Tube	A53 Grade B	Typical
124	GR.3	N228	N229		Antenna Mast	Column	Tube	A53 Grade B	Typical
125	GR.2	N230	N231		Antenna Mast	Column	Tube	A53 Grade B	Typical
126	GR.1	N232	N233		Antenna Mast	Column	Tube	A53 Grade B	Typical
127	M135	N238	N239		Antenna Mast	Column	Tube	A53 Grade B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
128	M128	N241	N242		RIGID	None	None	RIGID	Typical
129	M129	N243	N244		RIGID	None	None	RIGID	Typical
130	M130	N245	N246		Antenna Mast	Column	Tube	A53 Grade B	Typical

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	0	-3	0	
2	N2	0	-3	14	
3	N3	5.166667	-3	0	
4	N4	5.166667	-3	14	
5	N5	0	-1.333333	0	
6	N6	0	-1.333333	14	
7	N7	5.166667	-1.333333	0	
8	N8	5.166667	-1.333333	14	
9	N9	0	0	-0.270833	
10	N10	0	0	0	
11	N11	0	0	1.333333	
12	N12	0	0	4.416667	
13	N13	0	0	5.083333	
14	N14	0	0	8.9275	
15	N15	0	0	9.583333	
16	N16	0	0	12.666667	
17	N17	0	0	14	
18	N18	0	0	14.270833	
19	N19	0.666667	0	4.416667	
20	N20	0.666667	0	9.583333	
21	N21	1.333333	0	0	
22	N22	1.333333	0	14	
23	N23	3.833333	0	0	
24	N24	3.833333	0	14	
25	N25	3.875	0	0	
26	N26	4.5	0	4.416667	
27	N27	4.5	0	9.583333	
28	N28	5.166667	0	-0.270833	
29	N29	5.166667	0	0	
30	N30	5.166667	0	1.333333	
31	N31	5.166667	0	4.416667	
32	N32	5.166667	0	5.083333	
33	N33	5.166667	0	8.9275	
34	N34	5.166667	0	9.583333	
35	N35	5.166667	0	12.666667	
36	N36	5.166667	0	14	
37	N37	5.166667	0	14.270833	
38	N38	3.75	0	6.354167	
39	N39	2.020833	0	5.59375	
40	N40	1.916667	0	7.416667	
41	N41	5.166667	0	7.416667	
42	N42	0	0	7.416667	
43	N43	0	0	5.59375	
44	N44	5.166667	0	5.59375	
45	N45	5.166667	0	6.354167	
46	N46	0	0	6.354167	
47	N47	-0.520833	1.708333	5.083333	
48	N48	-0.520833	1.708333	8.9275	
49	N49	-0.520833	1.708333	10.104167	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
50	N50	-0.520833	1.708333	3.895833	
51	N51	0	1.708333	5.083333	
52	N52	0	1.708333	8.9275	
53	N53	0.666667	1.708333	9.583333	
54	N54	0.666667	1.708333	10.104167	
55	N55	0.666667	1.708333	3.895833	
56	N56	0.666667	1.708333	4.416667	
57	N57	4.5	1.708333	9.583333	
58	N58	4.5	1.708333	10.104167	
59	N59	4.5	1.708333	3.895833	
60	N60	4.5	1.708333	4.416667	
61	N61	5.166667	1.708333	5.083333	
62	N62	5.166667	1.708333	8.9275	
63	N63	5.6875	1.708333	10.104167	
64	N64	5.6875	1.708333	3.895833	
65	N65	5.6875	1.708333	8.9275	
66	N66	5.6875	1.708333	5.083333	
67	N67	3.75	3.083333	6.354167	
68	N68	2.020833	3.083333	5.59375	
69	N69	1.916667	3.083333	7.416667	
70	N70	3.873471	3.083333	7.765442	
71	N71	3.626529	3.083333	4.942891	
72	N72	3.247703	3.083333	4.885417	
73	N73	0.793964	3.083333	6.302083	
74	N74	2.827282	3.083333	8.501896	
75	N75	1.006051	3.083333	6.331437	
76	N76	-0.520833	4.458333	5.083333	
77	N77	-0.520833	4.458333	8.9275	
78	N78	-0.520833	4.458333	10.104167	
79	N79	-0.520833	4.458333	3.895833	
80	N80	0	4.458333	5.083333	
81	N81	0	4.458333	8.9275	
82	N82	0.666667	4.458333	9.583333	
83	N83	0.666667	4.458333	10.104167	
84	N84	0.666667	4.458333	3.895833	
85	N85	0.666667	4.458333	4.416667	
86	N86	4.5	4.458333	9.583333	
87	N87	4.5	4.458333	10.104167	
88	N88	4.5	4.458333	3.895833	
89	N89	4.5	4.458333	4.416667	
90	N90	5.6875	4.458333	10.104167	
91	N91	5.6875	4.458333	3.895833	
92	N92	-0.520833	7.458333	5.083333	
93	N93	-0.520833	7.458333	8.9275	
94	N94	-0.520833	7.458333	10.104167	
95	N95	-0.520833	7.458333	3.895833	
96	N96	0	7.458333	5.083333	
97	N97	0	7.458333	8.9275	
98	N98	0.666667	7.458333	9.583333	
99	N99	0.666667	7.458333	10.104167	
100	N100	0.666667	7.458333	3.895833	
101	N101	0.666667	7.458333	4.416667	
102	N102	4.5	7.458333	9.583333	
103	N103	4.5	7.458333	10.104167	
104	N104	4.5	7.458333	3.895833	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
105	N105	4.5	7.458333	4.416667	
106	N106	5.166667	7.458333	5.083333	
107	N107	5.166667	7.458333	8.9275	
108	N108	5.6875	7.458333	10.104167	
109	N109	5.6875	7.458333	3.895833	
110	N110	5.6875	7.458333	8.9275	
111	N111	5.6875	7.458333	5.083333	
112	N112	3.75	9.083333	6.354167	
113	N113	2.020833	9.083333	5.59375	
114	N114	1.916667	9.083333	7.416667	
115	N115	3.873471	9.083333	7.765442	
116	N116	3.626529	9.083333	4.942891	
117	N117	3.247703	9.083333	4.885417	
118	N118	0.793964	9.083333	6.302083	
119	N119	2.827282	9.083333	8.501896	
120	N120	1.006051	9.083333	6.331437	
121	N121	-0.520833	10.458333	5.083333	
122	N122	-0.520833	10.458333	8.9275	
123	N123	-0.520833	10.458333	10.104167	
124	N124	-0.520833	10.458333	3.895833	
125	N125	0	10.458333	5.083333	
126	N126	0	10.458333	8.9275	
127	N127	0.666667	10.458333	9.583333	
128	N128	0.666667	10.458333	10.104167	
129	N129	0.666667	10.458333	3.895833	
130	N130	0.666667	10.458333	4.416667	
131	N131	4.5	10.458333	9.583333	
132	N132	4.5	10.458333	10.104167	
133	N133	4.5	10.458333	3.895833	
134	N134	4.5	10.458333	4.416667	
135	N135	5.166667	10.458333	5.083333	
136	N136	5.166667	10.458333	8.9275	
137	N137	5.6875	10.458333	10.104167	
138	N138	5.6875	10.458333	3.895833	
139	N139	5.6875	10.458333	8.9275	
140	N140	5.6875	10.458333	5.083333	
141	N141	-0.520833	13.354167	5.083333	
142	N142	-0.520833	13.354167	8.9275	
143	N143	-0.520833	13.354167	10.104167	
144	N144	-0.520833	13.354167	3.895833	
145	N145	0	13.354167	5.083333	
146	N146	0	13.354167	8.9275	
147	N147	0.666667	13.354167	9.583333	
148	N148	0.666667	13.354167	10.104167	
149	N149	0.666667	13.354167	3.895833	
150	N150	0.666667	13.354167	4.416667	
151	N151	4.5	13.354167	9.583333	
152	N152	4.5	13.354167	10.104167	
153	N153	4.5	13.354167	3.895833	
154	N154	4.5	13.354167	4.416667	
155	N155	5.166667	13.354167	5.083333	
156	N156	5.166667	13.354167	8.9275	
157	N157	5.6875	13.354167	10.104167	
158	N158	5.6875	13.354167	3.895833	
159	N159	5.6875	13.354167	8.9275	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
160	N160	5.6875	13.354167	5.083333	
161	N161	0	13.5	8.9275	
162	N162	0	13.5	5.083333	
163	N163	0.666667	13.5	9.583333	
164	N164	0.666667	13.5	4.416667	
165	N165	4.5	13.5	9.583333	
166	N166	4.5	13.5	4.416667	
167	N167	5.166667	13.5	8.9275	
168	N168	5.166667	13.5	5.083333	
169	N169	3.75	13.5	6.354167	
170	N170	2.020833	13.5	5.59375	
171	N171	1.916667	13.5	7.416667	
172	N172	5.166667	4.458333	5.083333	
173	N173	5.166667	4.458333	8.9275	
174	N174	5.6875	4.458333	8.9275	
175	N175	5.6875	4.458333	5.083333	
176	N176	45	-3	0	
177	N177	53	-3	0	
178	N178	45	-3	14	
179	N179	53	-3	14	
180	N180	45	0	0	
181	N181	53	0	0	
182	N182	45	0	14	
183	N183	53	0	14	
184	N184	45	0	3	
185	N185	45	0	7	
186	N186	45	0	10.5	
187	N187	53	0	3	
188	N188	53	0	7	
189	N189	53	0	10.5	
190	N190	48	0	3	
191	N191	50	0	3	
192	N192	48	0	7	
193	N193	50	0	7	
194	N206	-5.666667	-3	0	
195	N207	53.583333	-3	0	
196	N208	-5.666667	-3	14	
197	N209	53.583333	-3	14	
198	N210	0	0	10.916667	
199	N211	5.166667	0	10.916667	
200	N212	0	0	12.5	
201	N213	5.166667	0	12.5	
202	N214	2.666667	0	14	
203	N215	1.083333	0	14	
204	N216	1.083333	1.5	14	
205	N217	1.083333	-1.5	14	
206	N220	2.666667	1.5	14	
207	N221	2.666667	-1.5	14	
208	N222	0	1.5	12.5	
209	N223	0	-1.5	12.5	
210	N222A	0	1.5	10.916667	
211	N223A	0	-1.5	10.916667	
212	N224	5.166667	1.5	12.5	
213	N225	5.166667	-1.5	12.5	
214	N226	5.166667	1.5	10.916667	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
215	N227	5.166667	-1.5	10.916667	
216	N228	5.166667	1.5	3.166667	
217	N229	5.166667	-1.5	3.166667	
218	N230	5.166667	1.5	1.583333	
219	N231	5.166667	-1.5	1.583333	
220	N232	2.666667	1.5	0	
221	N233	2.666667	-1.5	0	
222	N234	5.166667	0	3.166667	
223	N235	5.166667	0	1.583333	
224	N236	2.666667	0	0	
225	N237	1.083333	-0.25	14	
226	N238	0	1.5	3.166667	
227	N239	0	-1.5	3.166667	
228	N240	0	0	3.166667	
229	N241	3.75	6.75	6.354167	
230	N242	2.75	6.75	6.354167	
231	N243	3.75	5.75	6.354167	
232	N244	2.75	5.75	6.354167	
233	N245	0	1.5	1.666667	
234	N246	0	-1.5	1.666667	
235	N247	0	0	1.666667	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N2						
2	N4						
3	N1						
4	N3						
5	N178						
6	N179						
7	N177						
8	N176						
9	N206	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
10	N207	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
11	N208	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
12	N209	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Point Loads (BLC 2 : Dead: Equip.)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	M87	Y	-0.016	2.125
2	M88	Y	-0.016	2.125
3	M89	Y	-0.016	2.125
4	M90	Y	-0.016	2.125
5	M91	Y	-0.016	2.125
6	M92	Y	-0.016	2.125
7	M87	Y	-0.032	0.708
8	M88	Y	-0.032	0.708
9	M89	Y	-0.032	0.708
10	M90	Y	-0.032	0.708
11	M91	Y	-0.032	0.708
12	M92	Y	-0.032	0.708
13	M111	Y	-0.1	3
14	M111	Y	-0.1	5

Member Point Loads (BLC 2 : Dead: Equip.) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
15	M112	Y	-0.15	3
16	M113	Y	-0.15	3
17	M112	Y	-0.15	5
18	M113	Y	-0.15	5
19	M124	Y	-0.002	11.333
20	M124	Y	-0.002	13.367
21	M125	Y	-0.002	11.333
22	M125	Y	-0.002	13.367
23	BR.1	Y	-0.06	1.667
24	AR.1	Y	-0.06	1.667
25	GR.1	Y	-0.06	1.667
26	BR.2	Y	-0.07	1.667
27	AR.2	Y	-0.07	1.667
28	GR.2	Y	-0.07	1.667
29	BR.3	Y	-0.075	1.667
30	AR.3	Y	-0.075	1.667
31	GR.3	Y	-0.075	1.667
32	M135	Y	-0.032	1.667
33	M130	Y	-0.036	1.667

Member Point Loads (BLC 7 : Wind X-Dir)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	M112	X	0.062	3
2	M113	X	0.062	3
3	M112	X	0.062	5
4	M113	X	0.062	5
5	M112	Y	0.037	3
6	M113	Y	0.037	3
7	M112	Y	-0.037	5
8	M113	Y	-0.037	5
9	BR.1	X	0.035	1.667
10	AR.1	X	0.035	1.667
11	GR.1	X	0.035	1.667
12	BR.2	X	0.076	1.667
13	AR.2	X	0.076	1.667
14	GR.2	X	0.076	1.667
15	BR.3	X	0.076	1.667
16	AR.3	X	0.076	1.667
17	GR.3	X	0.076	1.667
18	M135	X	0.165	1.667
19	M130	X	0.04	1.667

Member Point Loads (BLC 8 : Wind Z-Dir)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	M112	Z	0.118	3
2	M113	Z	0.118	3
3	M112	Z	0.118	5
4	M113	Z	0.118	5
5	M112	Y	-0.134	3
6	M113	Y	0.134	3
7	M112	Y	-0.134	5
8	M113	Y	0.134	5
9	BR.1	Z	0.076	1.667

Member Point Loads (BLC 8 : Wind Z-Dir) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
10	AR.1	Z	0.076	1.667
11	GR.1	Z	0.076	1.667
12	BR.2	Z	0.046	1.667
13	AR.2	Z	0.046	1.667
14	GR.2	Z	0.046	1.667
15	BR.3	Z	0.051	1.667
16	AR.3	Z	0.051	1.667
17	GR.3	Z	0.051	1.667
18	M135	Z	0.126	1.667
19	M130	Z	0.04	1.667

Member Distributed Loads (BLC 5 : Dead Roof (13psf))

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M124	Y	-0.182	-0.182	0	%100
2	M125	Y	-0.182	-0.182	0	%100

Member Distributed Loads (BLC 6 : Snow Load (30 psf))

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M124	Y	-0.42	-0.42	0	%100
2	M125	Y	-0.42	-0.42	0	%100

Member Distributed Loads (BLC 8 : Wind Z-Dir)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M7	Z	0.033	0.033	0	%100
2	M8	Z	0.033	0.033	0	%100
3	M108	Z	0.033	0.033	0	%100
4	M110	Z	0.033	0.033	0	%100
5	M1	Z	0.016	0.016	0	%100
6	M2	Z	0.016	0.016	0	%100
7	M3	Z	0.016	0.016	0	%100
8	M4	Z	0.016	0.016	0	%100
9	M103	Z	0.016	0.016	0	%100
10	M104	Z	0.016	0.016	0	%100
11	M105	Z	0.016	0.016	0	%100
12	M106	Z	0.016	0.016	0	%100

Member Distributed Loads (BLC 9 : Live Load)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M124	Y	-0.28	-0.28	0	%100
2	M125	Y	-0.28	-0.28	0	%100

Member Distributed Loads (BLC 10 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M68	Y	-0.026	-0.026	1.11e-16	6.208
2	M69	Y	-0.012	-0.012	7.772e-16	6.208
3	M74	Y	-0.013	-0.013	2.22e-16	6.208
4	M75	Y	-0.027	-0.027	3.331e-16	6.208
5	M76	Y	-0.027	-0.027	5.551e-16	6.208
6	M77	Y	-0.026	-0.026	1.11e-16	6.208

Member Distributed Loads (BLC 10 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
7	M78	Y	-0.012	-0.012	1.221e-15	6.208
8	M70	Y	-0.013	-0.013	1.665e-15	6.208
9	M71	Y	-0.027	-0.027	1.887e-15	6.208
10	M72	Y	-0.027	-0.027	1.887e-15	6.208
11	M73	Y	-0.012	-0.012	5.551e-16	6.208
12	M102	Y	-0.026	-0.026	1.221e-15	6.208
13	M79	Y	-0.013	-0.013	2.22e-16	6.208
14	M80	Y	-0.027	-0.027	3.331e-16	6.208
15	M81	Y	-0.027	-0.027	5.551e-16	6.208
16	M82	Y	-0.026	-0.026	1.11e-16	6.208
17	M83	Y	-0.012	-0.012	1.221e-15	6.208
18	M65	Y	-0.013	-0.013	1.221e-15	6.208
19	M66	Y	-0.027	-0.027	1.332e-15	6.208
20	M67	Y	-0.027	-0.027	5.551e-16	6.208

Member Distributed Loads (BLC 11 : BLC 4 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M6	Y	-0.023	-0.02	7.852	9.016
2	M6	Y	-0.02	-0.008	9.016	10.179
3	M108	Y	-0.009	-0.014	0	1.6
4	M108	Y	-0.014	-0.015	1.6	3.2
5	M108	Y	-0.015	-0.014	3.2	4.8
6	M108	Y	-0.014	-0.015	4.8	6.4
7	M108	Y	-0.015	-0.014	6.4	8
8	M110	Y	-0.016	-0.016	2.22e-16	8
9	M111	Y	-0.045	-0.026	0	1.6
10	M111	Y	-0.026	-0.027	1.6	3.2
11	M111	Y	-0.027	-0.03	3.2	4.8
12	M111	Y	-0.03	-0.029	4.8	6.4
13	M111	Y	-0.029	-0.039	6.4	8
14	M112	Y	-0.03	-0.035	0	1.6
15	M112	Y	-0.035	-0.038	1.6	3.2
16	M112	Y	-0.038	-0.037	3.2	4.8
17	M112	Y	-0.037	-0.033	4.8	6.4
18	M112	Y	-0.033	-0.028	6.4	8
19	M113	Y	-0.032	-0.029	0	1.6
20	M113	Y	-0.029	-0.033	1.6	3.2
21	M113	Y	-0.033	-0.035	3.2	4.8
22	M113	Y	-0.035	-0.03	4.8	6.4
23	M113	Y	-0.03	-0.026	6.4	8
24	M5	Y	-0.02	-0.022	4.362	5.526
25	M5	Y	-0.022	-0.023	5.526	6.689
26	M5	Y	-0.023	-0.025	6.689	7.852
27	M5	Y	-0.025	-0.02	7.852	9.016
28	M5	Y	-0.02	-0.008	9.016	10.179
29	M6	Y	-0.019	-0.023	4.362	5.526
30	M6	Y	-0.023	-0.023	5.526	6.689
31	M6	Y	-0.023	-0.023	6.689	7.852

Member Distributed Loads (BLC 12 : BLC 6 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M108	Y	-0.029	-0.048	0	1.6
2	M108	Y	-0.048	-0.049	1.6	3.2

Member Distributed Loads (BLC 12 : BLC 6 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
3	M108	Y	-0.049	-0.047	3.2	4.8
4	M108	Y	-0.047	-0.051	4.8	6.4
5	M108	Y	-0.051	-0.046	6.4	8
6	M110	Y	-0.052	-0.052	2.22e-16	8
7	M111	Y	-0.152	-0.088	0	1.6
8	M111	Y	-0.088	-0.089	1.6	3.2
9	M111	Y	-0.089	-0.101	3.2	4.8
10	M111	Y	-0.101	-0.096	4.8	6.4
11	M111	Y	-0.096	-0.13	6.4	8
12	M112	Y	-0.099	-0.115	0	1.6
13	M112	Y	-0.115	-0.127	1.6	3.2
14	M112	Y	-0.127	-0.124	3.2	4.8
15	M112	Y	-0.124	-0.11	4.8	6.4
16	M112	Y	-0.11	-0.093	6.4	8
17	M113	Y	-0.107	-0.098	0	1.6
18	M113	Y	-0.098	-0.11	1.6	3.2
19	M113	Y	-0.11	-0.116	3.2	4.8
20	M113	Y	-0.116	-0.098	4.8	6.4
21	M113	Y	-0.098	-0.086	6.4	8

Member Distributed Loads (BLC 13 : BLC 7 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M96	X	0.161	0.147	8.734	11.646
2	M99	X	0.159	0.165	0	2.911
3	M99	X	0.165	0.168	2.911	5.823
4	M99	X	0.168	0.161	5.823	8.734
5	M99	X	0.161	0.147	8.734	11.646
6	M96	X	0.159	0.165	0	2.911
7	M96	X	0.165	0.168	2.911	5.823
8	M96	X	0.168	0.161	5.823	8.734

Member Distributed Loads (BLC 14 : BLC 8 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M98	Z	0.159	0.165	0	2.911
2	M98	Z	0.165	0.168	2.911	5.823
3	M98	Z	0.168	0.161	5.823	8.734
4	M98	Z	0.161	0.147	8.734	11.646
5	M99	Z	0.159	0.165	0	2.911
6	M99	Z	0.165	0.168	2.911	5.823
7	M99	Z	0.168	0.161	5.823	8.734
8	M99	Z	0.161	0.147	8.734	11.646

Member Distributed Loads (BLC 15 : BLC 9 Transient Area Loads)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M110	Y	-0.035	-0.035	2.22e-16	8
2	M111	Y	-0.07	-0.07	0	8
3	M112	Y	-0.035	-0.035	2.22e-16	8
4	M112	Y	-0.04	-0.04	5.551e-16	3
5	M113	Y	-0.04	-0.04	0	3
6	M112	Y	-0.04	-0.04	5	8
7	M113	Y	-0.04	-0.04	5	8
8	M108	Y	-0.03	-0.03	5.551e-16	8

Member Distributed Loads (BLC 15 : BLC 9 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
9	M113	Y	-0.03	-0.03	5.551e-16	8

Basic Load Cases

	BLC Description	Category	Y Gravity	Point	Distributed	Area(Member)
1	Dead: Self	DL	-1			
2	Dead: Equip.	DL		33		
3	Dead: Enclosure	DL				4
4	Dead:Grating (9psf)	DL				2
5	Dead Roof (13psf)	DL			2	
6	Snow Load (30 psf)	SL			2	1
7	Wind X-Dir	WLX		19		1
8	Wind Z-Dir	WLZ		19	12	1
9	Live Load	LL			2	4
10	BLC 3 Transient Area Loads	None			20	
11	BLC 4 Transient Area Loads	None			31	
12	BLC 6 Transient Area Loads	None			21	
13	BLC 7 Transient Area Loads	None			8	
14	BLC 8 Transient Area Loads	None			8	
15	BLC 9 Transient Area Loads	None			9	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	IBC 16-8	Yes	Y	DL	1										
2	IBC 16-9	Yes	Y	DL	1	LL	1	LLS	1						
3	IBC 16-10 (a)	Yes	Y	DL	1	RLL	1								
4	IBC 16-10 (b)	Yes	Y	DL	1	SL	1	SLN	1						
5	IBC 16-10 (c)	Yes	Y	DL	1	RL	1								
6	IBC 16-11 (a)	Yes	Y	DL	1	LL	0.75	LLS	0.75	RLL	0.75				
7	IBC 16-11 (b)	Yes	Y	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
8	IBC 16-11 (c)	Yes	Y	DL	1	LL	0.75	LLS	0.75	RL	0.75				
9	IBC 16-12 (a) (a)	Yes	Y	DL	1	WLX	0.6								
10	IBC 16-12 (a) (b)	Yes	Y	DL	1	WLZ	0.6								
11	IBC 16-13 (a) (a)	Yes	Y	DL	1	WLX	0.45	LL	0.75	LLS	0.75	RLL	0.75		
12	IBC 16-13 (a) (b)	Yes	Y	DL	1	WLZ	0.45	LL	0.75	LLS	0.75	RLL	0.75		
13	IBC 16-13 (b) (a)	Yes	Y	DL	1	WLX	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
14	IBC 16-13 (b) (b)	Yes	Y	DL	1	WLZ	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
15	IBC 16-13 (c) (a)	Yes	Y	DL	1	WLX	0.45	LL	0.75	LLS	0.75	RL	0.75		
16	IBC 16-13 (c) (b)	Yes	Y	DL	1	WLZ	0.45	LL	0.75	LLS	0.75	RL	0.75		
17	IBC 16-15 (a)	Yes	Y	DL	0.6	WLX	0.6								
18	IBC 16-15 (b)	Yes	Y	DL	0.6	WLZ	0.6								

Envelope Node Reactions

	Node Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
0	N206	max	0	5	26.285	7	0.181	5	0	18	0	18	0	18
1		min	-1.215	9	4.535	18	-1.331	18	0	1	0	1	0	1
2	N207	max	-0.002	7	27.572	13	0.396	7	0	18	0	18	0	18
3		min	-0.185	17	5.668	18	-0.298	18	0	1	0	1	0	1
4	N208	max	1	10	27.772	14	0.277	17	0	18	0	18	0	18
5		min	-1.126	17	6.2	17	-1.64	10	0	1	0	1	0	1
6	N209	max	0.192	14	27.535	14	-0.059	17	0	18	0	18	0	18
7		min	-0.186	17	6.109	17	-0.688	14	0	1	0	1	0	1
8	N50	max	NC		NC		NC		NC		LOCKED		NC	

Envelope Node Reactions (Continued)

	Node Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
9		min	NC		NC		NC		NC		LOCKED		NC	
10	N181	max	LOCKED		NC		NC		NC		NC		NC	
11		min	LOCKED		NC		NC		NC		NC		NC	
12	N49	max	NC		NC		NC		NC		LOCKED		NC	
13		min	NC		NC		NC		NC		LOCKED		NC	
14	N64	max	NC		NC		NC		NC		LOCKED		NC	
15		min	NC		NC		NC		NC		LOCKED		NC	
16	N63	max	NC		NC		NC		NC		LOCKED		NC	
17		min	NC		NC		NC		NC		LOCKED		NC	
18	Totals:	max	0.13	14	107.341	7	0	5						
19		min	-2.708	17	24.629	17	-3.7	10						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
0	N1	max	0	9	-0.222	18	0.367	18	0	18	1.062e-3	9	-3.133e-3	18
1		min	0	1	-1.111	13	-0.062	9	0	1	-4.556e-3	18	-1.559e-2	13
2	N2	max	0	17	-0.266	17	0.448	10	0	18	-6.165e-4	17	-3.686e-3	18
3		min	0	10	-1.109	14	0.03	17	0	1	-5.535e-3	10	-1.553e-2	13
4	N3	max	0	9	-0.407	18	0.596	18	0	18	1.002e-3	9	-2.726e-3	18
5		min	0	7	-2.027	13	-0.13	9	0	1	-2.953e-3	18	-1.345e-2	13
6	N4	max	0	17	-0.48	18	0.724	10	0	18	-3.788e-4	5	-3.087e-3	18
7		min	0	10	-2.02	13	0.073	17	0	1	-3.538e-3	10	-1.34e-2	13
8	N5	max	0.326	13	-0.221	18	0.492	18	4.498e-3	10	2.015e-3	9	-3.823e-3	18
9		min	0.091	18	-1.111	13	-0.028	2	7.955e-4	17	-2.151e-3	18	-1.558e-2	13
10	N6	max	0.322	13	-0.265	17	0.538	10	2.14e-3	18	-3.72e-4	5	-2.615e-3	18
11		min	0.037	18	-1.11	14	-0.002	17	-1.497e-3	7	-2.42e-3	10	-1.544e-2	13
12	N7	max	0.327	13	-0.408	18	0.602	18	3.355e-3	9	1.989e-3	9	-3.814e-3	18
13		min	0.092	18	-2.029	13	-0.076	9	8.7e-4	18	-1.352e-3	18	-1.557e-2	13
14	N8	max	0.323	13	-0.48	18	0.658	10	-1.7e-3	18	-2.538e-4	5	-2.61e-3	18
15		min	0.037	18	-2.021	13	0.031	17	-3.523e-3	9	-1.916e-3	9	-1.542e-2	13
16	N9	max	0.56	13	-0.217	18	0.527	10	2.237e-3	10	2.783e-3	9	-2.989e-3	18
17		min	0.144	18	-1.109	13	-0.005	17	-1.743e-4	17	-2.275e-4	18	-1.486e-2	13
18	N10	max	0.567	13	-0.222	18	0.527	10	2.237e-3	10	2.783e-3	9	-2.989e-3	18
19		min	0.143	18	-1.111	13	-0.005	17	-1.743e-4	17	-2.275e-4	18	-1.486e-2	13
20	N11	max	0.601	13	-0.249	18	0.527	10	2.048e-3	10	2.761e-3	9	-3.281e-3	18
21		min	0.142	18	-1.124	13	-0.005	17	-2.007e-4	17	4.602e-5	18	-1.82e-2	13
22	N12	max	0.662	13	-0.26	17	0.527	10	1.374e-3	10	1.167e-3	9	-3.834e-3	18
23		min	0.136	18	-1.173	7	-0.005	17	7.998e-5	17	-7.587e-4	18	-2.656e-2	13
24	N13	max	0.667	13	-0.262	17	0.527	10	1.27e-3	10	5.993e-4	9	-3.954e-3	18
25		min	0.128	18	-1.18	7	-0.005	17	2.383e-4	17	-1.175e-3	18	-2.847e-2	13
26	N14	max	0.666	13	-0.263	17	0.527	10	-5.987e-5	17	-3.023e-5	5	-2.75e-3	18
27		min	0.068	18	-1.189	14	-0.005	17	-7.505e-4	1	-9.249e-4	9	-3.444e-2	13
28	N15	max	0.659	13	-0.263	17	0.527	10	-5.91e-6	17	-2.859e-5	18	-2.834e-3	18
29		min	0.067	18	-1.183	14	-0.005	17	-9.885e-4	1	-1.401e-3	9	-3.18e-2	13
30	N16	max	0.595	13	-0.266	17	0.526	10	3.285e-5	17	5.268e-4	18	-3.235e-3	18
31		min	0.083	18	-1.131	14	-0.004	17	-1.665e-3	1	-2.759e-3	9	-1.973e-2	13
32	N17	max	0.561	13	-0.266	17	0.527	10	-8.424e-6	17	1.404e-4	18	-3.483e-3	18
33		min	0.089	18	-1.11	14	-0.005	17	-1.725e-3	1	-2.749e-3	9	-1.485e-2	13
34	N18	max	0.554	13	-0.266	18	0.527	10	-8.42e-6	17	1.404e-4	18	-3.483e-3	18
35		min	0.089	18	-1.105	14	-0.005	17	-1.725e-3	1	-2.749e-3	9	-1.485e-2	13
36	N19	max	0.662	13	-0.309	17	0.539	10	2.668e-2	10	1.218e-4	17	-3.2e-3	18
37		min	0.136	18	-1.292	7	-0.006	17	5.639e-4	1	-1.549e-3	18	-1.701e-2	13
38	N20	max	0.659	13	-0.31	17	0.539	10	2.535e-2	10	2.18e-4	17	-3.375e-3	18
39		min	0.067	18	-1.301	14	-0.006	17	-1.463e-3	9	-1.567e-3	18	-1.688e-2	13
40	N21	max	0.566	13	-0.271	18	0.553	10	2.116e-3	10	1.586e-4	17	-2.991e-3	18

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
41		min	0.143	18	-1.349	13	-0.007	17	6.639e-4	17	-1.629e-3	10	-1.481e-2	13
42	N22	max	0.561	13	-0.322	18	0.553	10	-2.934e-4	18	1.686e-4	17	-3.445e-3	18
43		min	0.089	18	-1.345	13	-0.007	17	-1.731e-3	1	-1.645e-3	10	-1.474e-2	13
44	N23	max	0.566	13	-0.359	18	0.601	10	2.96e-3	9	1.63e-4	17	-2.982e-3	18
45		min	0.143	18	-1.791	13	-0.012	17	1.258e-3	18	-1.541e-3	10	-1.479e-2	13
46	N24	max	0.561	13	-0.427	18	0.601	10	-8.973e-4	18	1.651e-4	17	-3.43e-3	18
47		min	0.089	18	-1.785	13	-0.012	17	-2.816e-3	9	-1.535e-3	10	-1.472e-2	13
48	N25	max	0.566	13	-0.36	18	0.601	10	2.987e-3	9	1.631e-4	17	-2.985e-3	18
49		min	0.143	18	-1.799	13	-0.012	17	1.262e-3	18	-1.539e-3	10	-1.479e-2	13
50	N26	max	0.662	13	-0.457	18	0.612	10	2.674e-2	10	1.363e-4	17	-3.077e-3	18
51		min	0.136	18	-2.056	13	-0.014	17	-7.467e-5	17	-1.619e-3	10	-1.692e-2	13
52	N27	max	0.659	13	-0.488	18	0.612	10	2.544e-2	10	2.002e-4	17	-3.386e-3	18
53		min	0.067	18	-2.051	13	-0.013	17	-5.794e-4	1	-1.607e-3	10	-1.679e-2	13
54	N28	max	0.56	13	-0.403	18	0.625	10	3.87e-3	9	2.784e-3	9	-2.912e-3	18
55		min	0.143	18	-2.018	13	-0.015	17	1.414e-3	18	-7.443e-5	18	-1.478e-2	13
56	N29	max	0.567	13	-0.408	18	0.625	10	3.87e-3	9	2.784e-3	9	-2.912e-3	18
57		min	0.143	18	-2.029	13	-0.015	17	1.414e-3	18	-7.443e-5	18	-1.478e-2	13
58	N30	max	0.601	13	-0.43	18	0.625	10	3.704e-3	9	2.76e-3	9	-2.838e-3	18
59		min	0.143	18	-2.086	13	-0.015	17	1.42e-3	18	7.186e-5	18	-1.803e-2	13
60	N31	max	0.662	13	-0.482	18	0.625	10	1.813e-3	9	1.169e-3	9	-2.564e-3	18
61		min	0.136	18	-2.191	13	-0.015	17	1.123e-3	1	-7.831e-4	18	-2.623e-2	13
62	N32	max	0.667	13	-0.491	18	0.625	10	1.435e-3	10	6.03e-4	9	-2.506e-3	18
63		min	0.128	18	-2.202	13	-0.015	17	7.944e-4	17	-1.212e-3	18	-2.807e-2	13
64	N33	max	0.666	13	-0.515	18	0.625	10	2.305e-4	18	-3.448e-5	5	-4.204e-3	18
65		min	0.068	18	-2.197	13	-0.015	17	-1.518e-3	9	-9.292e-4	9	-3.377e-2	13
66	N34	max	0.659	13	-0.516	18	0.625	10	2.598e-5	18	-5.098e-5	5	-4.099e-3	18
67		min	0.067	18	-2.184	13	-0.015	17	-2.066e-3	9	-1.401e-3	9	-3.121e-2	13
68	N35	max	0.595	13	-0.497	18	0.625	10	-8.491e-4	18	5.627e-4	18	-3.61e-3	18
69		min	0.081	18	-2.078	13	-0.015	17	-3.69e-3	9	-2.76e-3	9	-1.948e-2	13
70	N36	max	0.561	13	-0.481	18	0.625	10	-9.783e-4	18	3.292e-4	18	-3.464e-3	18
71		min	0.089	18	-2.022	13	-0.015	17	-3.84e-3	9	-2.753e-3	9	-1.475e-2	13
72	N37	max	0.554	13	-0.476	17	0.625	10	-9.783e-4	18	3.292e-4	18	-3.464e-3	18
73		min	0.09	18	-2.012	14	-0.015	17	-3.84e-3	9	-2.753e-3	9	-1.475e-2	13
74	N38	max	0.67	13	-0.449	18	0.598	10	7.408e-4	10	1.639e-4	17	-3.21e-3	18
75		min	0.105	18	-1.923	13	-0.012	17	1.467e-4	17	-1.579e-3	10	-1.7e-2	13
76	N39	max	0.669	13	-0.376	18	0.565	10	1.099e-3	10	1.643e-4	17	-3.194e-3	18
77		min	0.12	18	-1.566	13	-0.009	17	3.69e-4	17	-1.579e-3	10	-1.7e-2	13
78	N40	max	0.671	13	-0.384	18	0.563	10	3.303e-4	18	1.632e-4	17	-3.232e-3	18
79		min	0.086	18	-1.549	13	-0.008	17	-2.4e-4	9	-1.579e-3	10	-1.7e-2	13
80	N41	max	0.671	13	-0.51	18	0.625	10	3.303e-4	18	1.632e-4	17	-3.232e-3	18
81		min	0.086	18	-2.212	13	-0.015	17	-2.4e-4	9	-1.579e-3	10	-1.7e-2	13
82	N42	max	0.671	13	-0.265	17	0.527	10	3.303e-4	18	1.632e-4	17	-3.232e-3	18
83		min	0.086	18	-1.193	14	-0.005	17	-2.4e-4	9	-1.579e-3	10	-1.7e-2	13
84	N43	max	0.669	13	-0.263	17	0.527	10	1.099e-3	10	1.643e-4	17	-3.194e-3	18
85		min	0.12	18	-1.184	7	-0.005	17	3.69e-4	17	-1.579e-3	10	-1.7e-2	13
86	N44	max	0.669	13	-0.497	18	0.625	10	1.099e-3	10	1.643e-4	17	-3.194e-3	18
87		min	0.12	18	-2.208	13	-0.015	17	3.69e-4	17	-1.579e-3	10	-1.7e-2	13
88	N45	max	0.67	13	-0.504	18	0.625	10	7.408e-4	10	1.639e-4	17	-3.21e-3	18
89		min	0.105	18	-2.212	13	-0.015	17	1.467e-4	17	-1.579e-3	10	-1.7e-2	13
90	N46	max	0.67	13	-0.266	17	0.527	10	7.408e-4	10	1.639e-4	17	-3.21e-3	18
91		min	0.105	18	-1.189	14	-0.005	17	1.467e-4	17	-1.579e-3	10	-1.7e-2	13
92	N47	max	1.389	13	-0.043	17	0.953	10	7.47e-3	10	8.697e-3	9	-4.93e-3	18
93		min	0.217	18	-1.083	7	-0.006	17	-3.138e-3	17	-3.106e-4	18	-5.594e-2	9
94	N48	max	1.462	13	-0.034	17	0.951	10	5.091e-3	10	-6.459e-4	18	-4.002e-3	18
95		min	0.122	18	-1.102	14	-0.006	9	-8.33e-4	1	-8.933e-3	9	-5.81e-2	9

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
96	N49	max	1.325	13	-0.081	17	0.951	10	4.84e-2	10	0	18	-3.718e-3	18
97		min	0.127	18	-1.192	14	-0.006	9	-2.027e-3	9	0	1	-5.876e-2	9
98	N50	max	1.286	13	-0.104	17	0.953	10	5.205e-2	10	0	18	-5.217e-3	18
99		min	0.212	18	-1.076	7	-0.006	17	-5.889e-6	4	0	1	-5.527e-2	9
100	N51	max	1.389	13	-0.263	17	0.897	10	3.195e-2	10	8.634e-3	18	-4.517e-3	18
101		min	0.217	18	-1.181	7	-0.006	17	-1.995e-4	17	-7.54e-4	1	-4.13e-2	13
102	N52	max	1.462	13	-0.265	17	0.883	10	3.187e-2	10	1.004e-2	10	-2.586e-3	18
103		min	0.123	18	-1.19	14	0.007	7	-7.412e-5	1	-3.39e-4	17	-4.344e-2	13
104	N53	max	1.271	13	-0.309	17	1.175	10	3.692e-2	10	1.056e-2	9	-3.482e-3	18
105		min	0.137	18	-1.301	14	-0.04	9	-1.664e-3	9	-1.484e-3	18	-4.05e-2	13
106	N54	max	1.325	13	-0.295	17	1.175	10	4.844e-2	10	1.664e-3	9	-6.212e-3	5
107		min	0.127	18	-1.472	14	-0.04	9	-1.658e-3	9	-1.276e-2	10	-2.235e-2	13
108	N55	max	1.286	13	-0.098	18	1.198	10	5.21e-2	10	-7.195e-4	5	2.087e-4	18
109		min	0.212	18	-1.293	7	0.008	1	-7.324e-6	4	-1.443e-2	10	-2.157e-2	13
110	N56	max	1.25	13	-0.308	17	1.199	10	3.777e-2	10	8.518e-5	5	-3.223e-3	18
111		min	0.201	18	-1.292	7	0.008	1	2.99e-4	1	-7.789e-3	9	-3.855e-2	13
112	N57	max	1.274	13	-0.488	18	1.25	10	3.698e-2	10	9.897e-3	9	-3.434e-3	18
113		min	0.136	18	-2.053	13	-0.01	1	-2.838e-4	1	-1.694e-3	18	-4.08e-2	13
114	N58	max	1.324	13	-0.591	17	1.249	10	4.859e-2	10	9.791e-3	10	1.265e-3	18
115		min	0.127	18	-2.155	14	-0.01	1	-4.68e-4	17	-7.151e-4	1	-2.047e-2	13
116	N59	max	1.285	13	-0.243	18	1.272	10	5.225e-2	10	1.142e-2	10	-5.222e-3	5
117		min	0.212	18	-2.069	13	-0.021	17	-1.341e-5	1	1.789e-4	17	-1.987e-2	13
118	N60	max	1.252	13	-0.459	18	1.272	10	3.778e-2	10	-1.366e-4	5	-3.355e-3	18
119		min	0.203	18	-2.058	13	-0.021	17	-5.702e-4	17	-7.291e-3	9	-3.88e-2	13
120	N61	max	1.377	13	-0.49	18	0.998	10	3.211e-2	10	1.51e-3	9	-2.098e-3	18
121		min	0.173	18	-2.203	13	-0.006	17	9.093e-5	1	-1.092e-2	18	-4.071e-2	13
122	N62	max	1.446	13	-0.517	18	0.989	10	3.223e-2	10	-8.551e-4	5	-4.496e-3	18
123		min	0.159	18	-2.197	13	-0.031	9	-3.143e-4	9	-1.117e-2	10	-4.278e-2	13
124	N63	max	1.324	13	-0.672	18	1.066	10	4.864e-2	10	0	18	-3.322e-3	18
125		min	0.127	18	-2.398	13	-0.015	17	-1.e-4	17	0	1	-5.51e-2	9
126	N64	max	1.285	13	-0.354	18	1.068	10	5.23e-2	10	0	18	-1.483e-3	18
127		min	0.212	18	-2.387	13	-0.015	17	-1.634e-5	1	0	1	-5.161e-2	9
128	N65	max	1.446	13	-0.552	18	1.065	10	5.309e-3	18	3.66e-4	5	-2.973e-3	18
129		min	0.159	18	-2.461	13	-0.015	17	-4.829e-3	9	-7.726e-3	9	-5.444e-2	9
130	N66	max	1.377	13	-0.497	18	1.067	10	7.833e-3	10	7.593e-3	9	-1.834e-3	18
131		min	0.173	18	-2.457	13	-0.015	17	8.859e-4	1	-2.232e-3	10	-5.227e-2	9
132	N67	max	1.312	13	-0.449	18	0.639	10	1.476e-3	10	1.636e-4	17	-3.317e-3	18
133		min	0.226	18	-1.923	13	0.001	17	5.722e-4	17	-1.578e-3	10	-1.768e-2	13
134	N68	max	1.319	13	-0.376	18	0.6	10	7.717e-4	10	1.605e-4	17	-3.607e-3	18
135		min	0.245	18	-1.566	13	0.001	17	1.566e-4	17	-1.582e-3	10	-1.812e-2	13
136	N69	max	1.303	13	-0.384	18	0.568	18	1.393e-5	18	1.628e-4	17	-3.04e-3	18
137		min	0.202	18	-1.549	13	-0.027	9	-7.568e-4	9	-1.58e-3	10	-1.71e-2	13
138	N70	max	1.314	13	-0.471	18	0.642	10	1.476e-3	10	1.636e-4	17	-3.317e-3	18
139		min	0.2	18	-1.966	13	0.001	17	5.722e-4	17	-1.578e-3	10	-1.768e-2	13
140	N71	max	1.311	13	-0.427	18	0.637	10	1.476e-3	10	1.636e-4	17	-3.317e-3	18
141		min	0.253	18	-1.88	13	0.001	17	5.722e-4	17	-1.578e-3	10	-1.768e-2	13
142	N72	max	1.319	13	-0.424	18	0.623	10	7.717e-4	10	1.605e-4	17	-3.607e-3	18
143		min	0.259	18	-1.831	13	-0.001	17	1.566e-4	17	-1.582e-3	10	-1.812e-2	13
144	N73	max	1.32	13	-0.316	17	0.577	10	7.717e-4	10	1.605e-4	17	-3.607e-3	18
145		min	0.232	18	-1.312	14	0.003	17	1.566e-4	17	-1.582e-3	10	-1.812e-2	13
146	N74	max	1.304	13	-0.417	18	0.585	18	1.393e-5	18	1.628e-4	17	-3.04e-3	18
147		min	0.181	18	-1.727	13	-0.028	9	-7.568e-4	9	-1.58e-3	10	-1.71e-2	13
148	N75	max	1.302	13	-0.347	17	0.55	18	1.393e-5	18	1.628e-4	17	-3.04e-3	18
149		min	0.222	18	-1.377	7	-0.025	9	-7.568e-4	9	-1.58e-3	10	-1.71e-2	13
150	N76	max	3.033	13	0.07	17	2.666	10	8.503e-3	10	1.509e-3	14	-3.224e-3	18

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
151		min	0.355	18	-1.085	7	-0.014	9	-9.285e-3	17	-1.155e-4	17	-6.284e-2	9
152	N77	max	3.143	13	0.072	17	2.663	10	8.397e-3	17	3.366e-3	17	-3.482e-3	18
153		min	0.223	18	-1.098	14	-0.013	9	-1.505e-3	1	-1.187e-3	7	-6.499e-2	9
154	N78	max	3.162	13	-0.082	17	2.664	10	5.95e-2	10	0	18	-3.561e-3	18
155		min	0.244	18	-1.192	14	-0.013	9	-2.718e-5	9	0	1	-6.565e-2	9
156	N79	max	3.034	13	-0.104	17	2.668	10	5.912e-2	10	0	18	-3.144e-3	18
157		min	0.322	18	-1.076	7	-0.014	9	-5.628e-4	9	0	1	-6.217e-2	9
158	N80	max	3.033	13	-0.264	17	2.506	10	6.049e-2	10	2.253e-2	10	-3.986e-3	18
159		min	0.355	18	-1.182	7	-0.015	17	-4.053e-4	9	-1.026e-3	1	-6.e-2	9
160	N81	max	3.143	13	-0.266	17	2.505	10	6.105e-2	10	2.275e-2	10	-3.136e-3	18
161		min	0.223	18	-1.193	14	-0.008	9	-2.409e-4	9	-3.726e-4	17	-6.097e-2	9
162	N82	max	3.03	13	-0.308	17	2.7	10	5.475e-2	10	2.43e-2	9	-3.558e-3	18
163		min	0.253	18	-1.302	14	-0.077	9	-6.82e-4	9	-1.45e-3	18	-6.708e-2	9
164	N83	max	3.161	13	-0.307	17	2.7	10	5.955e-2	10	2.885e-3	9	-6.994e-3	5
165		min	0.244	18	-1.56	14	-0.077	9	4.35e-6	4	-1.883e-3	18	-2.438e-2	14
166	N84	max	3.033	13	0	18	2.743	10	5.916e-2	10	-1.227e-3	5	5.659e-3	18
167		min	0.322	18	-1.3	7	0.014	1	-4.147e-4	9	-4.928e-3	10	-2.269e-2	13
168	N85	max	2.925	13	-0.308	17	2.743	10	5.486e-2	10	7.278e-5	5	-3.4e-3	18
169		min	0.31	18	-1.293	7	0.014	1	-9.326e-5	1	-2.004e-2	9	-6.351e-2	9
170	N86	max	3.046	13	-0.488	18	2.777	10	5.485e-2	10	2.165e-2	9	-3.566e-3	18
171		min	0.252	18	-2.055	13	-0.015	1	1.001e-4	1	-1.618e-3	18	-6.76e-2	9
172	N87	max	3.159	13	-0.589	17	2.777	10	5.969e-2	10	2.072e-4	17	7.662e-3	18
173		min	0.243	18	-2.243	14	-0.015	1	-4.504e-6	1	-1.45e-3	10	-1.988e-2	13
174	N88	max	3.031	13	-0.144	18	2.818	10	5.93e-2	10	1.63e-3	10	-4.448e-3	5
175		min	0.323	18	-2.07	13	-0.032	17	-1.432e-5	1	-7.562e-5	17	-2.105e-2	14
176	N89	max	2.938	13	-0.46	18	2.818	10	5.495e-2	10	-2.225e-4	5	-3.447e-3	18
177		min	0.315	18	-2.06	13	-0.032	17	-4.018e-4	9	-1.793e-2	9	-6.395e-2	9
178	N90	max	3.16	13	-0.672	18	2.786	10	5.973e-2	10	0	18	-3.566e-3	18
179		min	0.243	18	-2.398	13	-0.012	17	-7.929e-6	1	0	1	-6.603e-2	9
180	N91	max	3.032	13	-0.354	18	2.79	10	5.934e-2	10	0	18	-3.666e-3	18
181		min	0.323	18	-2.387	13	-0.01	17	-1.778e-5	1	0	1	-6.255e-2	9
182	N92	max	5.29	13	0.146	17	5.129	10	8.6e-3	10	1.661e-3	10	-3.524e-3	18
183		min	0.486	18	-1.085	7	-0.027	9	-1.377e-2	17	-7.872e-3	17	-7.739e-2	9
184	N93	max	5.434	13	0.153	17	5.127	10	1.311e-2	17	1.495e-2	17	-3.523e-3	18
185		min	0.35	18	-1.101	14	-0.028	9	-1.62e-3	1	-9.491e-4	1	-7.944e-2	9
186	N94	max	5.62	13	-0.082	17	5.127	10	7.369e-2	10	0	18	-3.522e-3	18
187		min	0.373	18	-1.192	14	-0.028	9	-5.144e-4	9	0	1	-8.007e-2	9
188	N95	max	5.397	13	-0.104	17	5.13	10	7.359e-2	10	0	18	-3.524e-3	18
189		min	0.447	18	-1.076	7	-0.027	9	-4.441e-4	9	0	1	-7.676e-2	9
190	N96	max	5.29	13	-0.265	17	4.941	10	7.235e-2	10	2.911e-2	10	-3.499e-3	18
191		min	0.486	18	-1.183	7	-0.03	9	-4.67e-4	9	-9.982e-4	1	-7.315e-2	9
192	N97	max	5.434	13	-0.267	17	4.958	10	7.273e-2	10	2.717e-2	10	-3.442e-3	18
193		min	0.35	18	-1.194	14	-0.022	9	-4.759e-4	9	-5.028e-4	17	-7.47e-2	9
194	N98	max	5.469	13	-0.308	17	4.943	10	6.831e-2	10	3.065e-2	9	-3.609e-3	18
195		min	0.382	18	-1.302	14	-0.086	9	-1.455e-4	17	-1.46e-3	18	-7.887e-2	9
196	N99	max	5.619	13	-0.305	17	4.943	10	7.373e-2	10	1.074e-2	10	-7.152e-3	5
197		min	0.373	18	-1.625	14	-0.086	9	-3.24e-4	9	1.054e-3	1	-2.823e-2	14
198	N100	max	5.396	13	0.078	18	4.989	10	7.363e-2	10	7.849e-3	18	1.024e-2	18
199		min	0.447	18	-1.302	7	0.009	1	-3.065e-4	9	-2.949e-3	9	-2.286e-2	13
200	N101	max	5.267	13	-0.307	17	4.989	10	6.798e-2	10	6.07e-5	5	-3.501e-3	18
201		min	0.435	18	-1.294	7	0.009	1	-5.172e-4	9	-2.616e-2	9	-7.553e-2	9
202	N102	max	5.497	13	-0.488	18	5.025	10	6.844e-2	10	2.565e-2	9	-3.619e-3	18
203		min	0.382	18	-2.057	13	-0.011	1	3.167e-4	1	-1.532e-3	18	-7.925e-2	9
204	N103	max	5.617	13	-0.594	17	5.025	10	7.386e-2	10	6.538e-5	17	1.24e-2	18
205		min	0.373	18	-2.308	14	-0.011	1	-1.213e-5	1	-1.42e-2	10	-1.969e-2	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
206	N104	max	5.395	13	-0.065	18	5.068	10	7.375e-2	10	1.003e-3	5	-4.29e-3	5
207		min	0.447	18	-2.074	13	-0.033	17	-1.78e-5	1	-1.132e-2	18	-2.461e-2	14
208	N105	max	5.291	13	-0.461	18	5.068	10	6.811e-2	10	-2.064e-4	5	-3.471e-3	18
209		min	0.44	18	-2.062	13	-0.033	17	-3.373e-4	4	-2.212e-2	9	-7.585e-2	9
210	N106	max	5.249	13	-0.489	18	5.056	10	7.256e-2	10	1.887e-3	9	-3.51e-3	18
211		min	0.377	18	-2.203	13	0.002	1	-2.439e-5	1	-3.144e-2	10	-7.318e-2	9
212	N107	max	5.392	13	-0.52	18	5.081	10	7.293e-2	10	-1.129e-3	5	-3.742e-3	18
213		min	0.424	18	-2.198	13	-0.014	9	-6.155e-6	1	-2.826e-2	10	-7.477e-2	9
214	N108	max	5.617	13	-0.672	18	5.257	10	7.39e-2	10	0	18	-3.715e-3	18
215		min	0.373	18	-2.398	13	-0.002	4	-1.44e-5	1	0	1	-8.017e-2	9
216	N109	max	5.394	13	-0.354	18	5.261	10	7.379e-2	10	0	18	-3.459e-3	18
217		min	0.447	18	-2.388	13	-0.002	4	-2.114e-5	1	0	1	-7.686e-2	9
218	N110	max	5.392	13	-0.553	18	5.257	10	4.994e-3	18	1.832e-2	9	-3.666e-3	18
219		min	0.424	18	-2.627	13	-0.002	4	-1.771e-2	9	-1.552e-3	18	-7.954e-2	9
220	N111	max	5.249	13	-0.509	18	5.259	10	1.812e-2	9	-1.021e-3	7	-3.508e-3	18
221		min	0.377	18	-2.625	13	-0.002	4	1.951e-3	1	-1.062e-2	9	-7.749e-2	9
222	N112	max	2.608	13	-0.449	18	0.771	10	2.182e-3	10	1.634e-4	17	-3.4e-3	18
223		min	0.469	18	-1.923	13	0.057	17	9.855e-4	17	-1.578e-3	10	-1.817e-2	13
224	N113	max	2.663	13	-0.376	18	0.644	10	4.46e-4	10	1.556e-4	17	-3.996e-3	18
225		min	0.52	18	-1.567	13	0.005	17	-1.079e-4	7	-1.586e-3	10	-1.909e-2	13
226	N114	max	2.537	13	-0.384	18	0.557	18	-2.967e-4	18	1.622e-4	17	-2.831e-3	18
227		min	0.414	18	-1.549	13	-0.1	9	-1.268e-3	9	-1.581e-3	10	-1.706e-2	13
228	N115	max	2.61	13	-0.479	18	0.774	10	2.182e-3	10	1.634e-4	17	-3.4e-3	18
229		min	0.442	18	-1.979	13	0.057	17	9.855e-4	17	-1.578e-3	10	-1.817e-2	13
230	N116	max	2.606	13	-0.42	18	0.769	10	2.182e-3	10	1.634e-4	17	-3.4e-3	18
231		min	0.495	18	-1.868	13	0.058	17	9.855e-4	17	-1.578e-3	10	-1.817e-2	13
232	N117	max	2.662	13	-0.432	18	0.667	10	4.46e-4	10	1.556e-4	17	-3.996e-3	18
233		min	0.533	18	-1.848	13	0.002	17	-1.079e-4	7	-1.586e-3	10	-1.909e-2	13
234	N118	max	2.664	13	-0.309	17	0.621	10	4.46e-4	10	1.556e-4	17	-3.996e-3	18
235		min	0.506	18	-1.296	14	0.007	17	-1.079e-4	7	-1.586e-3	10	-1.909e-2	13
236	N119	max	2.538	13	-0.411	18	0.575	18	-2.967e-4	18	1.622e-4	17	-2.831e-3	18
237		min	0.393	18	-1.72	13	-0.101	9	-1.268e-3	9	-1.581e-3	10	-1.706e-2	13
238	N120	max	2.536	13	-0.353	17	0.54	18	-2.967e-4	18	1.622e-4	17	-2.831e-3	18
239		min	0.434	18	-1.384	7	-0.098	9	-1.268e-3	9	-1.581e-3	10	-1.706e-2	13
240	N121	max	7.911	9	0.178	17	7.83	10	8.612e-3	10	1.273e-3	10	-3.977e-3	18
241		min	0.607	18	-1.085	7	-0.046	9	-1.578e-2	9	-1.099e-2	17	-8.05e-2	9
242	N122	max	8.163	9	0.188	17	7.828	10	1.517e-2	9	2.165e-2	9	-3.733e-3	18
243		min	0.478	18	-1.102	14	-0.046	9	-1.639e-3	1	-3.733e-4	1	-8.246e-2	9
244	N123	max	8.528	9	-0.082	17	7.827	10	7.545e-2	10	0	18	-3.659e-3	18
245		min	0.503	18	-1.192	14	-0.046	9	-1.085e-3	9	0	1	-8.306e-2	9
246	N124	max	8.122	9	-0.104	17	7.831	10	7.636e-2	10	0	18	-4.053e-3	18
247		min	0.573	18	-1.077	7	-0.046	9	-6.997e-7	4	0	1	-7.989e-2	9
248	N125	max	7.911	9	-0.266	17	7.621	10	7.53e-2	10	3.251e-2	10	-3.439e-3	18
249		min	0.607	18	-1.183	7	-0.047	9	-4.998e-4	9	-1.012e-3	1	-7.853e-2	9
250	N126	max	8.163	9	-0.268	17	7.646	10	7.536e-2	10	2.911e-2	10	-3.237e-3	18
251		min	0.478	18	-1.196	14	-0.042	9	-6.022e-4	9	-5.144e-4	17	-8.047e-2	9
252	N127	max	8.307	9	-0.307	17	7.538	10	7.449e-2	10	3.413e-2	9	-3.633e-3	18
253		min	0.513	18	-1.302	14	-0.084	9	-1.313e-4	17	-1.451e-3	18	-8.191e-2	9
254	N128	max	8.526	9	-0.305	17	7.538	10	7.549e-2	10	1.673e-2	10	-7.182e-3	5
255		min	0.503	18	-1.654	14	-0.084	9	-7.971e-4	9	3.882e-4	1	-2.995e-2	14
256	N129	max	8.121	9	0.114	18	7.571	10	7.64e-2	10	1.414e-2	10	1.236e-2	18
257		min	0.573	18	-1.303	7	-0.003	1	-1.36e-6	4	-2.74e-3	9	-2.291e-2	13
258	N130	max	7.929	9	-0.307	17	7.571	10	7.379e-2	10	9.255e-5	5	-3.554e-3	18
259		min	0.562	18	-1.295	7	-0.003	1	-6.989e-4	9	-2.961e-2	9	-7.876e-2	9
260	N131	max	8.354	9	-0.488	18	7.624	10	7.463e-2	10	2.741e-2	9	-3.622e-3	18

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
261		min	0.513	18	-2.058	13	0.001	1	4.935e-4	1	-1.482e-3	18	-8.215e-2	9
262	N132	max	8.524	9	-0.596	17	7.624	10	7.562e-2	10	3.547e-5	17	1.454e-2	18
263		min	0.504	18	-2.338	14	0.001	1	-2.256e-6	1	-2.039e-2	10	-1.963e-2	13
264	N133	max	8.119	9	-0.03	18	7.655	10	7.653e-2	10	3.581e-4	5	-4.261e-3	5
265		min	0.573	18	-2.076	13	-0.033	9	-5.644e-6	1	-1.786e-2	10	-2.627e-2	14
266	N134	max	7.968	9	-0.462	18	7.655	10	7.392e-2	10	-2.235e-4	5	-3.477e-3	18
267		min	0.565	18	-2.063	13	-0.033	9	-5.081e-4	4	-2.42e-2	17	-7.895e-2	9
268	N135	max	7.869	9	-0.488	18	7.744	10	7.552e-2	10	1.87e-3	9	-3.598e-3	18
269		min	0.509	18	-2.203	13	0.002	1	1.671e-5	1	-3.484e-2	10	-7.9e-2	9
270	N136	max	8.121	9	-0.521	18	7.776	10	7.557e-2	10	-1.148e-3	5	-3.987e-3	18
271		min	0.555	18	-2.198	13	-0.008	4	-5.746e-5	1	-3.02e-2	10	-8.095e-2	9
272	N137	max	8.524	9	-0.672	18	7.965	10	7.566e-2	10	0	18	-3.635e-3	18
273		min	0.504	18	-2.398	13	-0.003	1	-4.92e-6	1	0	1	-8.215e-2	9
274	N138	max	8.118	9	-0.354	18	7.968	10	7.657e-2	10	0	18	-2.915e-3	18
275		min	0.573	18	-2.388	13	-0.003	1	-8.283e-6	1	0	1	-7.898e-2	9
276	N139	max	8.121	9	-0.556	18	7.965	10	4.917e-3	18	2.485e-2	9	-3.499e-3	18
277		min	0.555	18	-2.657	13	-0.003	1	-1.994e-2	9	-1.66e-3	18	-8.155e-2	9
278	N140	max	7.869	9	-0.509	18	7.967	10	2.025e-2	9	-6.247e-4	5	-3.053e-3	18
279		min	0.509	18	-2.653	13	-0.003	1	2.02e-3	1	-1.384e-2	9	-7.959e-2	9
280	N141	max	10.668	9	0.185	17	10.443	10	7.933e-3	10	5.943e-4	10	-1.322e-3	18
281		min	0.728	18	-1.082	7	-0.064	9	-1.664e-2	9	-9.453e-3	9	-7.464e-2	9
282	N142	max	10.989	9	0.195	17	10.442	10	1.604e-2	9	2.336e-2	9	-3.112e-3	18
283		min	0.589	18	-1.102	14	-0.064	9	-1.058e-3	1	6.75e-4	1	-7.659e-2	9
284	N143	max	11.374	9	-0.082	17	10.442	10	7.516e-2	10	0	18	-3.66e-3	18
285		min	0.63	18	-1.192	14	-0.064	9	2.019e-5	4	0	1	-7.718e-2	9
286	N144	max	10.858	9	-0.104	17	10.443	10	7.043e-2	10	0	18	-7.694e-4	18
287		min	0.693	18	-1.077	7	-0.064	9	-3.178e-3	9	0	1	-7.403e-2	9
288	N145	max	10.668	9	-0.266	17	10.238	10	7.527e-2	10	3.292e-2	10	-3.715e-3	18
289		min	0.728	18	-1.183	7	-0.064	9	-5.021e-4	9	-9.906e-4	1	-7.938e-2	9
290	N146	max	10.989	9	-0.268	17	10.26	10	7.512e-2	10	2.864e-2	10	-2.863e-3	18
291		min	0.589	18	-1.196	14	-0.064	9	-6.578e-4	9	-6.134e-4	17	-8.14e-2	9
292	N147	max	11.154	9	-0.307	17	10.157	10	7.565e-2	10	3.456e-2	9	-3.647e-3	18
293		min	0.639	18	-1.302	14	-0.086	9	-4.196e-4	17	-1.492e-3	18	-8.189e-2	9
294	N148	max	11.374	9	-0.299	17	10.157	10	7.52e-2	10	1.625e-2	10	-6.603e-3	5
295		min	0.631	18	-1.656	14	-0.086	9	1.943e-5	4	-7.318e-4	1	-2.965e-2	14
296	N149	max	10.858	9	0.121	18	10.167	10	7.047e-2	10	1.528e-2	10	1.304e-2	18
297		min	0.693	18	-1.301	7	-0.019	1	-2.488e-3	9	-2.146e-3	17	-2.224e-2	13
298	N150	max	10.668	9	-0.307	17	10.167	10	7.482e-2	10	6.569e-5	5	-3.578e-3	18
299		min	0.687	18	-1.295	7	-0.019	1	-5.554e-4	1	-3.002e-2	9	-7.877e-2	9
300	N151	max	11.209	9	-0.488	18	10.248	10	7.579e-2	10	2.712e-2	17	-3.606e-3	18
301		min	0.638	18	-2.058	13	0.017	1	5.692e-4	1	-1.426e-3	18	-8.208e-2	9
302	N152	max	11.373	9	-0.598	17	10.248	10	7.533e-2	10	8.704e-4	7	1.455e-2	18
303		min	0.631	18	-2.34	14	0.017	1	1.484e-5	1	-2.01e-2	10	-2.018e-2	13
304	N153	max	10.858	9	-0.022	18	10.255	10	7.06e-2	10	-8.137e-4	5	-4.841e-3	5
305		min	0.693	18	-2.076	13	-0.046	9	-2.933e-4	17	-1.92e-2	10	-2.712e-2	14
306	N154	max	10.712	9	-0.462	18	10.255	10	7.494e-2	10	-1.962e-4	5	-3.474e-3	18
307		min	0.685	18	-2.063	13	-0.046	9	-7.459e-4	9	-2.404e-2	17	-7.892e-2	9
308	N155	max	10.641	9	-0.488	18	10.369	10	7.548e-2	10	1.885e-3	9	-3.308e-3	18
309		min	0.633	18	-2.203	13	0.003	1	4.127e-5	1	-3.525e-2	10	-8.002e-2	9
310	N156	max	10.962	9	-0.522	18	10.398	10	7.533e-2	10	-1.119e-3	5	-4.381e-3	18
311		min	0.695	18	-2.198	13	-0.011	1	-8.976e-5	1	-2.975e-2	10	-8.203e-2	9
312	N157	max	11.373	9	-0.672	18	10.587	10	7.537e-2	10	0	18	-3.673e-3	18
313		min	0.631	18	-2.398	13	-0.003	1	1.21e-5	1	0	1	-8.19e-2	9
314	N158	max	10.857	9	-0.354	18	10.588	10	7.065e-2	10	0	18	-6.135e-3	18
315		min	0.693	18	-2.388	13	-0.003	1	5.847e-6	1	0	1	-7.875e-2	9

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
316	N159	max	10.962	9	-0.557	18	10.587	10	5.197e-3	18	2.533e-2	9	-4.14e-3	18
317		min	0.695	18	-2.659	13	-0.003	1	-1.969e-2	9	-2.3e-3	18	-8.13e-2	9
318	N160	max	10.641	9	-0.503	18	10.588	10	1.998e-2	9	3.798e-4	5	-5.664e-3	18
319		min	0.633	18	-2.655	13	-0.003	1	1.448e-3	1	-1.14e-2	9	-7.935e-2	9
320	N161	max	11.131	9	-0.268	17	10.392	10	7.512e-2	10	2.864e-2	10	-2.863e-3	18
321		min	0.594	18	-1.196	14	-0.066	9	-6.578e-4	9	-6.134e-4	17	-8.14e-2	9
322	N162	max	10.806	9	-0.266	17	10.37	10	7.527e-2	10	3.292e-2	10	-3.715e-3	18
323		min	0.734	18	-1.183	7	-0.065	9	-5.021e-4	9	-9.906e-4	1	-7.938e-2	9
324	N163	max	11.298	9	-0.307	17	10.289	10	7.565e-2	10	3.456e-2	9	-3.647e-3	18
325		min	0.645	18	-1.302	14	-0.086	9	-4.196e-4	17	-1.492e-3	18	-8.189e-2	9
326	N164	max	10.806	9	-0.307	17	10.298	10	7.482e-2	10	6.569e-5	5	-3.578e-3	18
327		min	0.693	18	-1.295	7	-0.02	1	-5.554e-4	1	-3.002e-2	9	-7.877e-2	9
328	N165	max	11.352	9	-0.488	18	10.38	10	7.579e-2	10	2.712e-2	17	-3.606e-3	18
329		min	0.645	18	-2.058	13	0.018	1	5.692e-4	1	-1.426e-3	18	-8.208e-2	9
330	N166	max	10.85	9	-0.462	18	10.386	10	7.494e-2	10	-1.962e-4	5	-3.474e-3	18
331		min	0.691	18	-2.063	13	-0.048	9	-7.459e-4	9	-2.404e-2	17	-7.892e-2	9
332	N167	max	11.106	9	-0.522	18	10.53	10	7.533e-2	10	-1.119e-3	5	-4.381e-3	18
333		min	0.703	18	-2.198	13	-0.011	1	-8.976e-5	1	-2.975e-2	10	-8.203e-2	9
334	N168	max	10.781	9	-0.488	18	10.501	10	7.548e-2	10	1.885e-3	9	-3.308e-3	18
335		min	0.638	18	-2.203	13	0.003	1	4.127e-5	1	-3.525e-2	10	-8.002e-2	9
336	N169	max	3.571	13	-0.449	18	0.887	10	2.185e-3	10	1.634e-4	17	-3.403e-3	18
337		min	0.649	18	-1.923	13	0.11	17	9.862e-4	17	-1.578e-3	10	-1.819e-2	13
338	N170	max	3.676	13	-0.377	18	0.668	10	4.466e-4	10	1.556e-4	17	-3.999e-3	18
339		min	0.731	18	-1.567	13	0.002	17	-1.081e-4	7	-1.586e-3	10	-1.912e-2	13
340	N171	max	3.442	13	-0.384	18	0.542	18	-2.969e-4	18	1.622e-4	17	-2.833e-3	18
341		min	0.564	18	-1.549	13	-0.167	9	-1.27e-3	9	-1.581e-3	10	-1.708e-2	13
342	N172	max	3.001	13	-0.489	18	2.614	10	6.07e-2	10	1.911e-3	9	-2.879e-3	18
343		min	0.257	18	-2.203	13	0	17	-8.804e-5	1	-2.485e-2	10	-5.963e-2	9
344	N173	max	3.108	13	-0.519	18	2.621	10	6.129e-2	10	-1.155e-3	5	-4.002e-3	18
345		min	0.293	18	-2.198	13	-0.027	9	6.098e-5	1	-2.384e-2	10	-6.068e-2	9
346	N174	max	3.108	13	-0.548	18	2.786	10	5.167e-3	18	5.464e-3	9	-3.585e-3	18
347		min	0.293	18	-2.557	13	-0.012	17	-1.247e-2	9	-1.651e-3	18	-6.537e-2	9
348	N175	max	3.001	13	-0.51	18	2.788	10	1.308e-2	9	-8.263e-4	7	-3.647e-3	18
349		min	0.257	18	-2.558	13	-0.011	17	1.719e-3	1	-3.513e-3	10	-6.322e-2	9
350	N176	max	0	17	-0.33	18	0.372	18	0	18	3.294e-3	18	1.44e-2	13
351		min	0	7	-1.629	13	-0.068	7	0	1	-5.716e-4	13	2.913e-3	18
352	N177	max	0	17	-0.023	18	0.026	18	0	18	3.759e-3	18	1.629e-2	13
353		min	0	7	-0.116	13	-0.005	7	0	1	-7.2e-4	7	3.298e-3	18
354	N178	max	0	17	-0.369	18	0.438	10	0	18	3.893e-3	10	1.435e-2	13
355		min	0	10	-1.624	13	0.037	1	0	1	3.401e-4	1	3.269e-3	18
356	N179	max	0	17	-0.026	18	0.031	10	0	18	4.435e-3	10	1.624e-2	13
357		min	0	14	-0.115	13	0.003	1	0	1	3.664e-4	1	3.687e-3	18
358	N180	max	0	9	-0.33	18	0.438	10	2.331e-3	14	4.087e-3	14	4.884e-7	7
359		min	0	7	-1.631	13	-0.001	7	6.443e-4	17	-2.345e-4	7	-1.134e-4	14
360	N181	max	0	9	-0.024	18	0.058	10	1.679e-3	14	4.11e-3	14	3.658e-7	7
361		min	0	7	-0.117	13	0	2	4.516e-4	17	-2.452e-4	7	-1.126e-4	14
362	N182	max	0.764	14	-0.369	18	0.438	10	-2.913e-4	18	4.527e-3	14	6.848e-5	7
363		min	-0.002	7	-1.625	13	-0.001	7	-2.153e-3	13	1.198e-4	1	-2.11e-2	14
364	N183	max	0.764	14	-0.027	18	0.058	10	-3.509e-4	18	4.576e-3	14	6.838e-5	7
365		min	-0.002	7	-0.116	13	0	2	-1.585e-3	13	1.218e-4	1	-2.11e-2	14
366	N184	max	0.154	14	-0.361	18	0.438	10	1.804e-3	14	4.419e-3	14	1.506e-5	7
367		min	-0.007	7	-1.703	13	-0.001	7	4.65e-4	17	-1.452e-4	7	-4.61e-3	14
368	N185	max	0.372	14	-0.384	18	0.438	10	2.06e-4	10	4.652e-3	14	3.448e-5	7
369		min	-0.011	7	-1.745	13	-0.001	7	-4.607e-5	9	-1.51e-5	7	-1.061e-2	14
370	N186	max	0.569	14	-0.382	18	0.438	10	-2.056e-4	18	4.692e-3	14	5.148e-5	7

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
371		min	-0.009	7	-1.71	13	-0.001	7	-1.518e-3	13	5.663e-5	1	-1.585e-2	14
372	N187	max	0.154	14	-0.042	18	0.058	10	1.356e-3	14	4.413e-3	14	1.494e-5	7
373		min	-0.007	7	-0.175	13	0	2	3.718e-4	17	-1.425e-4	7	-4.609e-3	14
374	N188	max	0.372	14	-0.052	18	0.058	10	5.232e-7	7	4.656e-3	14	3.437e-5	7
375		min	-0.011	7	-0.211	13	0	2	-1.992e-5	10	-1.502e-5	7	-1.06e-2	14
376	N189	max	0.569	14	-0.044	18	0.058	10	-3.433e-4	17	4.679e-3	14	5.137e-5	7
377		min	-0.009	7	-0.183	13	0	2	-1.219e-3	13	5.613e-5	1	-1.585e-2	14
378	N190	max	0.154	14	-0.245	18	0.323	10	1.636e-3	14	3.575e-3	10	1.568e-2	13
379		min	-0.007	7	-1.149	13	0	7	4.3e-4	17	-1.152e-5	7	3.281e-3	18
380	N191	max	0.154	14	-0.165	18	0.228	10	1.524e-3	14	4.347e-3	10	1.616e-2	13
381		min	-0.007	7	-0.767	13	0	2	4.067e-4	17	-1.232e-5	7	3.36e-3	18
382	N192	max	0.372	14	-0.268	18	0.323	10	1.213e-4	10	3.574e-3	10	1.572e-2	13
383		min	-0.011	7	-1.19	13	0	7	-3.255e-5	9	-1.201e-5	7	3.348e-3	18
384	N193	max	0.372	14	-0.185	18	0.228	10	6.478e-5	10	4.348e-3	10	1.624e-2	13
385		min	-0.011	7	-0.807	13	0	2	-2.354e-5	9	-1.121e-5	7	3.556e-3	18
386	N206	max	0	9	0	18	0	18	0	18	0	18	0	18
387		min	0	1	0	7	0	1	0	1	0	1	0	1
388	N207	max	0	17	0	18	0	18	0	18	0	18	0	18
389		min	0	7	0	13	0	7	0	1	0	1	0	1
390	N208	max	0	17	0	17	0	10	0	18	0	18	0	18
391		min	0	10	0	14	0	17	0	1	0	1	0	1
392	N209	max	0	17	0	17	0	14	0	18	0	18	0	18
393		min	0	14	0	14	0	17	0	1	0	1	0	1
394	N210	max	0.636	13	-0.264	17	0.527	10	7.626e-5	17	4.634e-4	18	-3.005e-3	18
395		min	0.071	18	-1.163	14	-0.005	17	-1.382e-3	1	-2.214e-3	9	-2.645e-2	13
396	N211	max	0.636	13	-0.512	18	0.625	10	-4.17e-4	18	4.015e-4	18	-3.884e-3	18
397		min	0.07	18	-2.145	13	-0.015	17	-3.004e-3	9	-2.211e-3	9	-2.601e-2	13
398	N212	max	0.6	13	-0.266	17	0.526	10	4.398e-5	17	5.492e-4	18	-3.212e-3	18
399		min	0.082	18	-1.134	14	-0.005	17	-1.65e-3	1	-2.734e-3	9	-2.035e-2	13
400	N213	max	0.6	13	-0.499	18	0.625	10	-8.157e-4	18	5.702e-4	18	-3.636e-3	18
401		min	0.08	18	-2.085	13	-0.015	17	-3.652e-3	9	-2.734e-3	9	-2.008e-2	13
402	N214	max	0.561	13	-0.378	18	0.579	10	-7.912e-4	18	1.675e-4	17	-3.475e-3	18
403		min	0.089	18	-1.58	13	-0.01	17	-1.967e-3	9	-1.584e-3	10	-1.469e-2	13
404	N215	max	0.561	13	-0.312	18	0.548	10	-1.887e-4	17	1.691e-4	17	-3.432e-3	18
405		min	0.089	18	-1.301	13	-0.007	17	-1.708e-3	1	-1.654e-3	10	-1.476e-2	13
406	N216	max	0.827	13	-0.312	18	0.542	18	-1.887e-4	17	1.691e-4	17	-3.432e-3	18
407		min	0.151	18	-1.301	13	-0.032	4	-1.708e-3	1	-1.654e-3	10	-1.476e-2	13
408	N217	max	0.294	13	-0.312	18	0.564	10	-1.656e-4	18	1.591e-4	17	-3.36e-3	18
409		min	0.028	18	-1.301	13	-0.004	17	-1.704e-3	1	-1.673e-3	10	-1.484e-2	13
410	N220	max	0.825	13	-0.378	18	0.563	18	-7.912e-4	18	1.675e-4	17	-3.475e-3	18
411		min	0.151	18	-1.58	13	-0.045	9	-1.968e-3	9	-1.584e-3	10	-1.469e-2	13
412	N221	max	0.297	13	-0.378	18	0.607	10	-7.971e-4	18	1.675e-4	17	-3.473e-3	18
413		min	0.026	18	-1.58	13	0.012	17	-1.966e-3	9	-1.584e-3	10	-1.468e-2	13
414	N222	max	0.966	13	-0.266	17	0.511	18	4.398e-5	17	5.492e-4	18	-3.213e-3	18
415		min	0.139	18	-1.134	14	-0.031	1	-1.65e-3	1	-2.734e-3	9	-2.035e-2	13
416	N223	max	0.259	7	-0.266	17	0.551	10	4.396e-5	17	5.492e-4	18	-3.211e-3	18
417		min	0.024	18	-1.134	14	-0.005	17	-1.649e-3	1	-2.734e-3	9	-2.033e-2	13
418	N222A	max	1.112	13	-0.264	17	0.511	18	7.626e-5	17	4.634e-4	18	-3.005e-3	18
419		min	0.125	18	-1.163	14	-0.026	1	-1.382e-3	1	-2.214e-3	9	-2.646e-2	13
420	N223A	max	0.254	7	-0.264	17	0.55	10	7.623e-5	17	4.634e-4	18	-3.003e-3	18
421		min	-0.055	17	-1.163	14	-0.006	17	-1.381e-3	1	-2.214e-3	9	-2.643e-2	13
422	N224	max	0.961	13	-0.499	18	0.608	18	-8.157e-4	18	5.702e-4	18	-3.636e-3	18
423		min	0.145	18	-2.085	13	-0.08	9	-3.652e-3	9	-2.734e-3	9	-2.008e-2	13
424	N225	max	0.262	7	-0.499	18	0.654	10	-8.192e-4	18	5.702e-4	18	-3.634e-3	18
425		min	0.014	18	-2.085	13	0.035	1	-3.65e-3	9	-2.734e-3	9	-2.007e-2	13

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
426	N226	max	1.104	13	-0.512	18	0.615	18	-4.171e-4	18	4.015e-4	18	-3.884e-3	18
427		min	0.14	18	-2.145	13	-0.069	9	-3.004e-3	9	-2.211e-3	9	-2.601e-2	13
428	N227	max	0.26	7	-0.512	18	0.644	10	-4.211e-4	18	4.015e-4	18	-3.883e-3	18
429		min	-0.05	17	-2.145	13	0.026	17	-3.002e-3	9	-2.211e-3	9	-2.599e-2	13
430	N228	max	1.053	13	-0.462	18	0.661	10	2.86e-3	9	2.058e-3	9	-2.673e-3	18
431		min	0.191	18	-2.156	13	0.024	17	1.358e-3	18	-2.36e-4	18	-2.278e-2	13
432	N229	max	0.289	14	-0.462	18	0.598	18	2.858e-3	9	2.058e-3	9	-2.672e-3	18
433		min	0.029	17	-2.156	13	-0.066	9	1.353e-3	18	-2.36e-4	18	-2.276e-2	13
434	N230	max	0.943	13	-0.434	18	0.665	10	3.638e-3	9	2.708e-3	9	-2.815e-3	18
435		min	0.194	18	-2.097	13	0.035	1	1.423e-3	18	6.451e-5	18	-1.865e-2	13
436	N231	max	0.289	14	-0.434	18	0.597	18	3.636e-3	9	2.708e-3	9	-2.813e-3	18
437		min	0.074	17	-2.097	13	-0.08	9	1.418e-3	18	6.451e-5	18	-1.863e-2	13
438	N232	max	0.832	13	-0.318	18	0.613	10	2.214e-3	9	1.603e-4	17	-2.948e-3	18
439		min	0.196	18	-1.585	13	0.016	17	1.141e-3	18	-1.582e-3	10	-1.476e-2	13
440	N233	max	0.301	13	-0.318	18	0.556	18	2.212e-3	9	1.603e-4	17	-2.947e-3	18
441		min	0.09	18	-1.585	13	-0.05	9	1.134e-3	18	-1.582e-3	10	-1.475e-2	13
442	N234	max	0.643	13	-0.462	18	0.625	10	2.86e-3	9	2.058e-3	9	-2.673e-3	18
443		min	0.143	18	-2.156	13	-0.015	17	1.358e-3	18	-2.36e-4	18	-2.278e-2	13
444	N235	max	0.607	13	-0.434	18	0.625	10	3.638e-3	9	2.708e-3	9	-2.815e-3	18
445		min	0.144	18	-2.097	13	-0.015	17	1.423e-3	18	6.451e-5	18	-1.865e-2	13
446	N236	max	0.566	13	-0.318	18	0.579	10	2.213e-3	9	1.603e-4	17	-2.948e-3	18
447		min	0.143	18	-1.585	13	-0.01	17	1.141e-3	18	-1.582e-3	10	-1.476e-2	13
448	N237	max	0.516	13	-0.312	18	0.551	10	-1.656e-4	18	1.591e-4	17	-3.36e-3	18
449		min	0.079	18	-1.301	13	-0.006	17	-1.704e-3	1	-1.673e-3	10	-1.484e-2	13
450	N238	max	1.056	13	-0.262	17	0.555	10	1.576e-3	10	2.059e-3	9	-3.608e-3	18
451		min	0.207	18	-1.154	7	-0.007	17	-1.42e-4	17	-1.875e-4	18	-2.297e-2	13
452	N239	max	0.272	14	-0.262	17	0.506	18	1.565e-3	10	2.059e-3	9	-3.607e-3	18
453		min	0.029	17	-1.154	7	-0.025	1	-1.42e-4	17	-1.875e-4	18	-2.295e-2	13
454	N240	max	0.643	13	-0.262	17	0.527	10	1.576e-3	10	2.059e-3	9	-3.608e-3	18
455		min	0.142	18	-1.154	7	-0.005	17	-1.42e-4	17	-1.875e-4	18	-2.297e-2	13
456	N241	max	2.1	13	-0.449	18	0.714	10	1.915e-3	10	1.635e-4	17	-3.378e-3	18
457		min	0.374	18	-1.923	13	0.032	17	8.269e-4	17	-1.578e-3	10	-1.807e-2	13
458	N242	max	2.1	13	-0.409	18	0.695	10	1.915e-3	10	1.635e-4	17	-3.378e-3	18
459		min	0.374	18	-1.706	13	0.034	17	8.269e-4	17	-1.578e-3	10	-1.807e-2	13
460	N243	max	1.884	13	-0.449	18	0.692	10	1.797e-3	10	1.635e-4	17	-3.365e-3	18
461		min	0.333	18	-1.923	13	0.022	17	7.581e-4	17	-1.578e-3	10	-1.8e-2	13
462	N244	max	1.884	13	-0.409	18	0.673	10	1.797e-3	10	1.635e-4	17	-3.365e-3	18
463		min	0.333	18	-1.707	13	0.024	17	7.581e-4	17	-1.578e-3	10	-1.8e-2	13
464	N245	max	0.952	13	-0.254	18	0.562	10	1.948e-3	10	2.691e-3	9	-3.34e-3	18
465		min	0.202	18	-1.126	13	-0.009	17	-2.131e-4	17	5.695e-5	18	-1.905e-2	13
466	N246	max	0.279	14	-0.254	18	0.501	18	1.944e-3	10	2.691e-3	9	-3.339e-3	18
467		min	0.071	17	-1.126	13	-0.03	1	-2.13e-4	17	5.695e-5	18	-1.904e-2	13
468	N247	max	0.609	13	-0.254	18	0.527	10	1.948e-3	10	2.691e-3	9	-3.34e-3	18
469		min	0.142	18	-1.126	13	-0.005	17	-2.131e-4	17	5.695e-5	18	-1.905e-2	13

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eqn
0	M1	PIPE 3.5	0.983	1.688	10	0.487	3		10	50.508	52.395	5.292	5.292	1	H3-6
1	M2	PIPE 3.5	0.281	1.656	9	0.247	1.688		10	50.508	52.395	5.292	5.292	1	H1-1b
2	M3	PIPE 3.5	0.78	1.688	18	0.378	3		18	50.508	52.395	5.292	5.292	1	H3-6
3	M4	PIPE 3.5	0.327	1.656	9	0.203	1.688		18	50.508	52.395	5.292	5.292	1	H1-1b
4	M5	W8X24	0.285	9.089	17	0.845	8.786	z	9	151.508	211.976	21.382	57.635	1.535	H1-1b
5	M6	W8X24	0.473	9.089	9	0.824	8.786	z	9	151.508	211.976	21.382	57.635	1.006	H1-1b
6	M7	W8X24	0.024	1.292	9	0.038	3.821	y	9	193.475	211.976	21.382	57.635	1.05	H1-1b
7	M8	W8X24	0.024	1.292	9	0.038	3.875	y	9	193.475	211.976	21.382	57.635	1.658	H1-1b

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

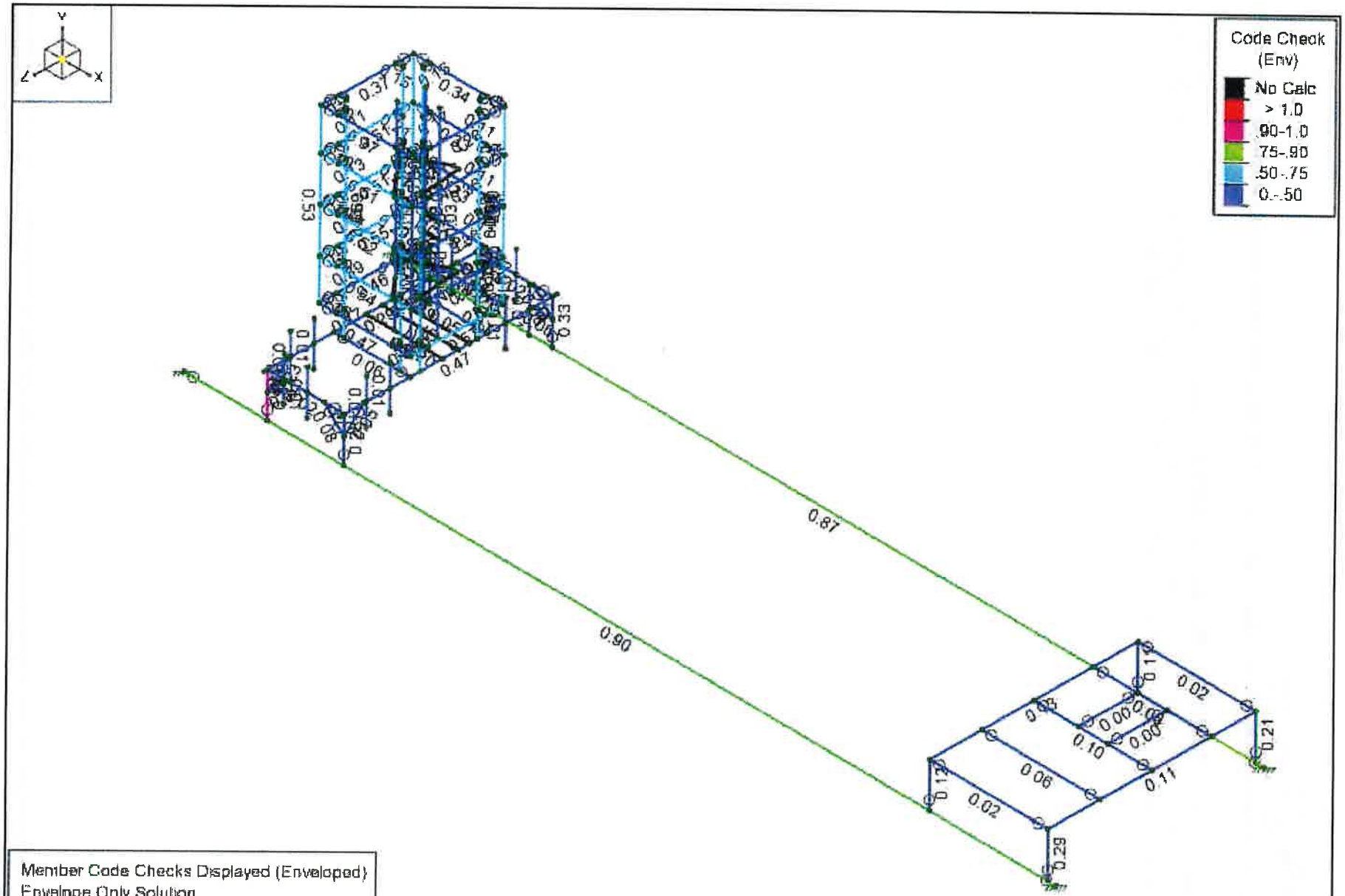
	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eqn
8	M9	W8X24	0.055	0.7	9	0.811	0.646	z	10	193.475	211.976	21.382	57.635	2.2	H1-1b
9	M10	W8X24	0.048	0.7	9	0.787	0.646	z	10	193.475	211.976	21.382	57.635	2.192	H1-1b
10	M11	L3.5X3.5X4	0.086	1.532	9	0.029	1.532	y	9	32.833	36.647	1.607	3.479	1.45	H2-1
11	M12	L3.5X3.5X4	0.233	0.904	10	0.027	1.886	y	9	32.833	36.647	1.607	3.479	1.136	H2-1
12	M13	L3.5X3.5X4	0.076	0.904	9	0.008	1.886	y	9	32.833	36.647	1.607	3.479	1.136	H2-1
13	M14	L3.5X3.5X4	0.047	0.982	10	0.025	1.886	y	9	32.833	36.647	1.607	3.479	1.136	H2-1
14	M15	L3.5X3.5X4	0.059	0.904	9	0.014	1.886	y	9	32.833	36.647	1.607	3.479	1.136	H2-1
15	M16	L3.5X3.5X4	0.08	0.87	9	0.009	1.856	y	9	32.865	36.647	1.607	3.479	1.136	H2-1
16	M17	L3.5X3.5X4	0.067	0.982	9	0.012	1.886	y	10	32.833	36.647	1.607	3.479	1.136	H2-1
17	M18	L3.5X3.5X4	0.164	0.982	18	0.016	1.886	y	18	32.833	36.647	1.607	3.479	1.136	H2-1
18	M19	HSS4X4X6	0.68	0	9	0.119	1.688	z	9	45.422	47.714	5.315	5.315	1.193	H1-1b
19	M20	HSS4X4X6	0.653	0	9	0.122	1.688	z	9	45.422	47.714	5.315	5.315	2.057	H1-1b
20	M21	HSS4X4X6	0.603	0	9	0.091	1.688	z	9	45.422	47.714	5.315	5.315	1.994	H1-1b
21	M22	HSS4X4X6	0.578	0	9	0.093	1.688	z	9	5.696	47.714	5.315	5.315	2.21	H1-1b
22	M23	HSS4X4X6	0.691	0	10	0.126	1.688	y	10	45.422	47.714	5.315	5.315	1.144	H1-1b
23	M24	HSS4X4X6	0.66	0	10	0.116	1.688	y	18	45.422	47.714	5.315	5.315	1.134	H1-1b
24	M25	HSS4X4X6	0.702	0	10	0.129	1.688	y	10	45.422	47.714	5.315	5.315	1.147	H1-1b
25	M26	HSS4X4X6	0.652	0	10	0.114	1.688	y	18	5.696	47.714	5.315	5.315	1.132	H1-1b
26	M27	L3X3X4	0.19	0	10	0.226	0	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
27	M28	L3X3X4	0.11	0	5	0.189	0.521	y	10	2.713	14.374	0.52	0.639	1	H2-1
28	M29	L3X3X4	0.195	0	10	0.22	0	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
29	M30	L3X3X4	0.115	0	5	0.183	0.521	y	10	2.713	14.374	0.52	0.639	1	H2-1
30	M31	L3X3X4	0.203	0	17	0.113	0	y	10	2.713	14.374	0.304	0.639	1	H2-1
31	M32	L3X3X4	0.173	0	18	0.087	0.521	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
32	M33	L3X3X4	0.201	0	10	0.209	0	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
33	M34	L3X3X4	0.108	0	18	0.185	0.521	z	10	2.713	14.374	0.52	0.639	1	H2-1
34	M35	L3X3X4	0.191	0.521	10	0.225	0.521	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
35	M36	L3X3X4	0.207	0.521	9	0.19	0.521	y	10	2.713	14.374	0.52	0.639	1	H2-1
36	M37	L3X3X4	0.195	0.521	10	0.22	0.521	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
37	M38	L3X3X4	0.213	0.521	9	0.184	0.521	y	10	2.713	14.374	0.52	0.639	1	H2-1
38	M39	L3X3X4	0.394	0.521	10	0.215	0.521	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
39	M40	L3X3X4	0.293	0.521	10	0.197	0.521	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
40	M41	L3X3X4	0.159	0.521	9	0.112	0.521	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
41	M42	L3X3X4	0.168	0.521	18	0.087	0	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
42	M43	L3X3X4	0.201	0.521	10	0.209	0.521	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
43	M44	L3X3X4	0.152	0.521	9	0.185	0	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
44	M45	L3X3X4	0.132	0	9	0.188	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
45	M46	L3X3X4	0.268	0	9	0.223	0	z	9	2.713	14.374	0.52	0.639	1	H2-1
46	M47	L3X3X4	0.125	0	9	0.179	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
47	M48	L3X3X4	0.275	0	9	0.217	0	z	9	2.713	14.374	0.52	0.639	1	H2-1
48	M49	L3X3X4	0.385	0	9	0.195	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
49	M50	L3X3X4	0.407	0	17	0.206	0.521	y	9	2.717	14.374	0.304	0.639	1	H2-1
50	M51	L3X3X4	0.167	0	17	0.085	0.521	y	9	2.713	14.374	0.304	0.639	1	H2-1
51	M52	L3X3X4	0.254	0	9	0.112	0	z	9	2.713	14.374	0.52	0.639	1	H2-1
52	M53	L3X3X4	0.106	0	17	0.182	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
53	M54	L3X3X4	0.202	0	9	0.206	0	z	9	2.713	14.374	0.52	0.639	1.5	H2-1
54	M55	L3X3X4	0.166	0.521	10	0.182	0.521	z	9	2.713	14.374	0.52	1.157	1.5	H2-1
55	M56	L3X3X4	0.246	0.521	9	0.213	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
56	M57	L3X3X4	0.175	0.521	10	0.171	0.521	z	9	2.713	14.374	0.52	1.157	1.5	H2-1
57	M58	L3X3X4	0.252	0.521	9	0.206	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
58	M59	L3X3X4	0.325	0.521	9	0.177	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
59	M60	L3X3X4	0.339	0.521	17	0.188	0.521	y	9	2.713	14.374	0.304	0.639	1	H2-1
60	M61	L3X3X4	0.17	0.521	17	0.075	0	y	9	2.713	14.374	0.304	0.639	1	H2-1
61	M62	L3X3X4	0.224	0.521	9	0.1	0.521	z	9	2.713	14.374	0.52	0.639	1	H2-1
62	M63	L3X3X4	0.147	0.521	10	0.173	0	z	9	2.713	14.374	0.52	0.639	1.5	H2-1

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eqn
63	M64	L3X3X4	0.181	0.521	9	0.196	0.521	z	9	2.713	14.374	0.52	0.639	1.5	H2-1
64	M65	L3X3X4	0.375	1.164	9	0.019	1.164	y	9	2.146	14.374	0.304	0.515	1.5	H2-1
65	M66	L3X3X4	0.51	4.98	10	0.024	5.044	y	10	2.146	14.374	0.304	0.515	1.5	H2-1
66	M67	L3X3X4	0.514	4.98	10	0.025	5.044	y	10	2.146	14.374	0.304	0.515	1.5	H2-1
67	M68	L3X3X4	0.553	4.98	10	0.028	5.044	y	9	2.146	14.374	0.304	0.515	1.5	H2-1
68	M69	L3X3X4	0.464	4.98	9	0.031	6.208	z	9	2.504	14.374	0.52	0.496	1.43	H2-1
69	M70	L3X3X4	0.278	3.104	9	0.017	0	z	10	2.146	14.374	0.52	0.398	1.102	H2-1
70	M71	L3X3X4	0.356	4.98	10	0.024	5.044	z	10	2.146	14.374	0.52	0.639	1.437	H2-1
71	M72	L3X3X4	0.357	4.98	10	0.025	5.044	z	10	2.146	14.374	0.52	0.639	1.5	H2-1
72	M73	L3X3X4	0.568	4.98	9	0.031	6.208	y	9	2.504	14.374	0.304	0.436	1.225	H2-1
73	M74	L3X3X4	0.339	4.656	10	0.018	5.044	z	10	2.146	14.374	0.304	0.425	1.189	H2-1
74	M75	L3X3X4	0.33	4.98	9	0.022	4.98	z	9	2.146	14.374	0.52	0.639	1.488	H2-1
75	M76	L3X3X4	0.334	4.98	9	0.026	5.044	z	10	2.146	14.374	0.52	0.639	1.5	H2-1
76	M77	L3X3X4	0.367	1.164	17	0.03	5.044	z	10	2.146	14.374	0.52	0.515	1.5	H2-1
77	M78	L3X3X4	0.38	4.98	10	0.028	6.208	y	10	2.505	14.374	0.52	0.572	1.057	H2-1
78	M79	L3X3X4	0.366	4.98	9	0.017	4.98	y	9	2.146	14.374	0.304	0.515	1.5	H2-1
79	M80	L3X3X4	0.508	4.98	9	0.024	5.044	y	9	2.146	14.374	0.304	0.515	1.5	H2-1
80	M81	L3X3X4	0.517	4.98	9	0.025	5.044	y	9	2.146	14.374	0.304	0.515	1.5	H2-1
81	M82	L3X3X4	0.545	4.98	9	0.027	5.044	y	9	2.505	14.374	0.304	0.515	1.5	H2-1
82	M83	L3X3X4	0.467	4.98	9	0.027	6.208	z	10	2.505	14.374	0.304	0.515	1.5	H2-1
83	M84	PIPE 2.0	0.034	0	13	0.001	2.953		13	19.074	21.377	1.245	1.245	1	H1-1b
84	M85	PIPE 2.0	0.039	0	13	0.001	2.953		13	19.074	21.377	1.245	1.245	1	H1-1b
85	M86	PIPE 2.0	0.02	2.953	5	0.001	2.953		13	19.074	21.377	1.245	1.245	1	H1-1b
86	M96	L3X3X4	0.532	8.856	9	0.045	8.977	z	9	2.589	14.374	0.52	0.639	1.5	H2-1
87	M97	L3X3X4	0.348	8.856	10	0.012	11.646	z	10	2.589	14.374	0.52	0.639	1.471	H2-1
88	M98	L3X3X4	0.674	8.856	10	0.046	8.977	y	10	2.589	14.374	0.304	0.639	1.5	H2-1
89	M99	L3X3X4	0.66	8.856	9	0.046	8.977	y	9	2.589	14.374	0.304	0.639	1.5	H2-1
90	M100	L3X3X4	0.392	0	10	0.215	0.521	z	10	2.713	14.374	0.52	0.639	1.5	H2-1
91	M101	L3X3X4	0.294	0	10	0.197	0.521	y	10	2.713	14.374	0.52	1.157	1.5	H2-1
92	M102	L3X3X4	0.441	3.363	9	0.027	5.044	z	10	2.504	14.374	0.52	0.39	1.077	H2-1
93	M103	PIPE 3.5	0.12	3	14	0.065	0		14	50.508	52.395	5.292	5.292	1	H1-1b
94	M104	PIPE 3.5	0.105	3	10	0.091	0		14	50.508	52.395	5.292	5.292	1	H1-1b
95	M105	PIPE 3.5	0.214	3	7	0.095	3		13	50.508	52.395	5.292	5.292	1	H1-1b
96	M106	PIPE 3.5	0.286	3	14	0.055	0		14	50.508	52.395	5.292	5.292	1	H1-1b
97	M107	W8X24	0.131	7	14	0.068	3.5	y	14	95.399	211.976	21.382	51.507	1.16	H1-1b
98	M108	W8X24	0.019	4	14	0.012	8	y	14	163.33	211.976	21.382	57.635	1.137	H1-1b
99	M109	W8X24	0.112	7	14	0.068	10.5	y	14	95.399	211.976	21.382	52.857	1.191	H1-1b
100	M110	W8X24	0.02	4	14	0.012	8	y	13	163.33	211.976	21.382	57.635	1.136	H1-1b
101	M111	W8X15	0.059	4.083	14	0.021	0	y	13	55.283	132.934	6.662	28.125	1.144	H1-1b
102	M112	W8X15	0.101	4	14	0.025	0	y	14	55.283	132.934	6.662	28.282	1.151	H1-1b
103	M113	W8X15	0.084	4	14	0.022	0	y	7	55.283	132.934	6.662	28.11	1.144	H1-1b
104	M114	W8X15	0	4	13	0.001	4	y	14	106.752	132.934	6.662	33.932	1.136	H1-1b*
105	M115	W8X15	0	4	13	0.002	4	y	14	106.752	132.934	6.662	33.932	1.136	H1-1b*
106	M124	W27X84	0.866	29.008	13	0.156	59.25	y	13	182.007	532.455	59.641	438.323	1	H1-1b
107	M125	W27X84	0.895	29.008	14	0.157	0	y	14	182.007	532.455	59.641	438.323	1	H1-1b
108	BR.1	PIPE 2.0	0.071	1.5	9	0.06	1.75		9	19.191	21.377	1.245	1.245	1	H1-1b
109	AR.1	PIPE 2.0	0.008	1.5	10	0.007	1.656		18	19.191	21.377	1.245	1.245	1	H1-1b
110	BR.2	PIPE 2.0	0.009	1.5	9	0.007	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b
111	BR.3	PIPE 2.0	0.01	1.5	9	0.007	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b
112	AR.2	PIPE 2.0	0.009	1.5	9	0.007	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b
113	AR.3	PIPE 2.0	0.01	1.5	9	0.007	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b
114	GR.3	PIPE 2.0	0.009	1.5	9	0.007	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b
115	GR.2	PIPE 2.0	0.009	1.5	9	0.007	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b
116	GR.1	PIPE 2.0	0.008	1.5	10	0.007	1.656		10	19.191	21.377	1.245	1.245	1	H1-1b
117	M135	PIPE 2.0	0.015	1.5	9	0.016	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eqn
118	M130	PIPE_2.0	0.005	1.5	9	0.004	1.656		9	19.191	21.377	1.245	1.245	1	H1-1b



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

RISA	Centek Engineering	Old Saybrook CTR CT - AMA	SK-1
	CMT		Old Saybrook CTR - Faux Chimney D...
	24006.02		

SUPPORTING DOCUMENTS

RADIO FREQUENCY (RF) DESIGN: **08/18/21**

MOUNT ANALYSIS: **09/21/23 (BY COLLIERS ENG.)**

STRUCTURAL ANALYSIS: **TBD (BY CENTERLINE)**

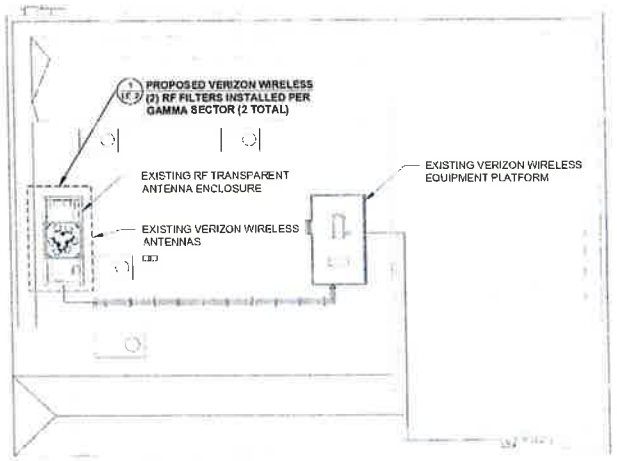
LEASE EXHIBIT:
THIS LEASE EXHIBIT IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF THE SITE SURVEY AND FACILITY DESIGN.

LOCATION MAP
N.T.S.

APPROXIMATE COORDINATES:	LATITUDE:	41° 17' 47.01" N	41.296391°
	LONGITUDE:	72° 22' 38.55" W	-72.377376°

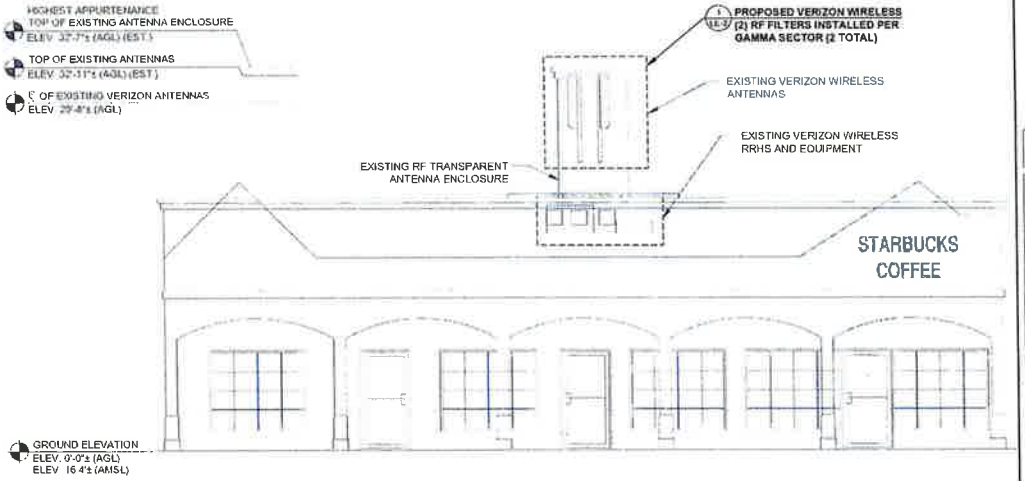
GROUND ELEVATION: 16.4'

1 LE-1 PARTIAL SITE / KEY PLAN
N.T.S.



2 LE-1 ROOFTOP PLAN
SCALE: 1" = 10' (22"X34")
1" = 20' (11"X17")

GRAPHIC SCALE
(IN FEET)



3 LE-1 EAST BUILDING ELEVATION
SCALE: 1" = 5' (22"X34")
1" = 10' (11"X17")

GRAPHIC SCALE
(IN FEET)

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE
ENGINEERING SERVICES, PA

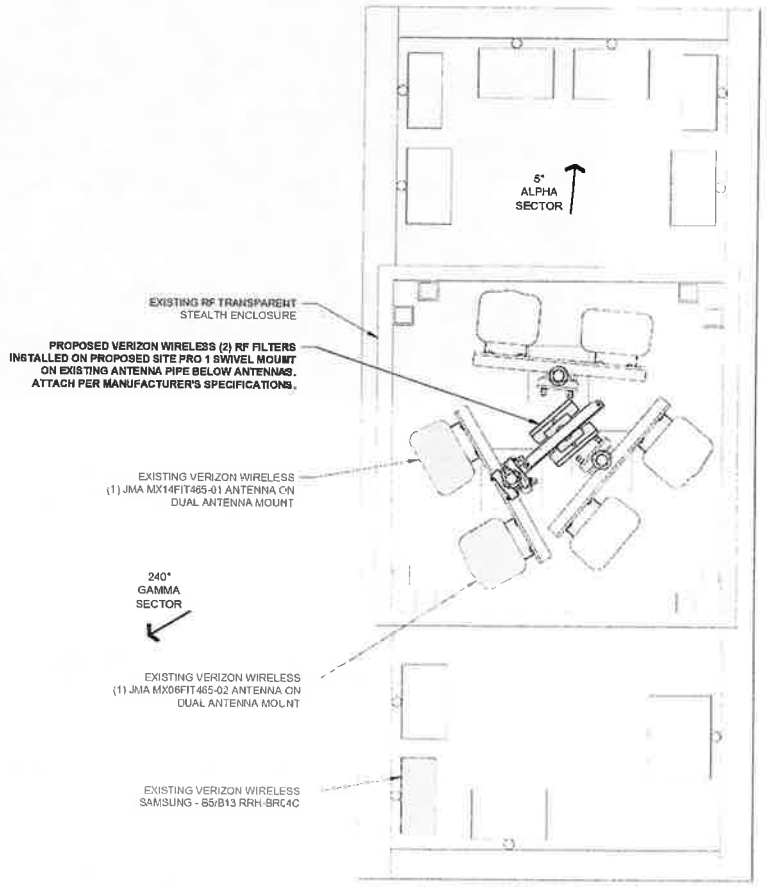
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
0	12/12/23	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
IG	DC

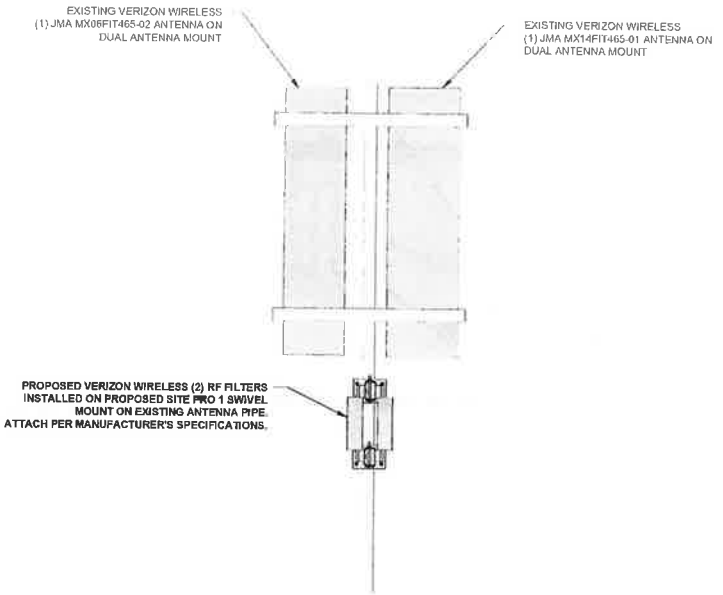
SITE NAME:	OLD SAYBROOK CTR CT -A
SITE ADDRESS:	19 MAIN STREET OLD SAYBROOK, CT 06475
LOCATION CODE: 468316	FUZE ID: 17123851
SHEET TITLE:	ROOFTOP PLAN AND BUILDING ELEVATION
SHEET #: LE-1	REVISION: 0

NOTE:
THE EXACT POSITIONS OF EXISTING ANTENNAS & RRU'S TO BE VERIFIED IN THE FIELD.



1 LE-2 PROPOSED RF FILTER PLAN

SCALE: 1" = 1' (22"X34")
1/2" = 1' (11"X17")



*VIEWED FROM BEHIND ANTENNAS

2 LE-2 PROPOSED RF FILTER PLAN ELEVATION
GAMMA SECTOR

SCALE: 1" = 1' (22"X34")
1/2" = 1' (11"X17")

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE
ENGINEERING SERVICES, P.C.
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
0	12/12/23	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
TG	DC

SITE NAME:
OLD SAYBROOK CTR
CT -A

SITE ADDRESS:
19 MAIN STREET
OLD SAYBROOK, CT 06475

LOCATION CODE:	FUZE ID:
468316	17123851

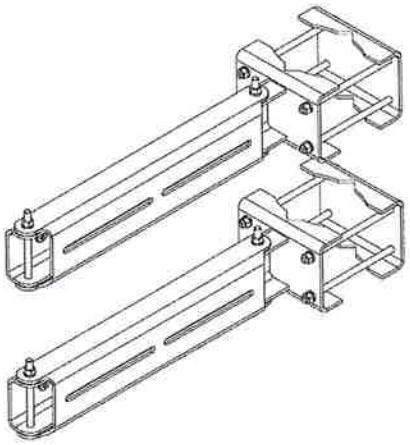
SHEET TITLE:
PROPOSED RF FILTER PLAN

SHEET #: LE-2 REVISION: 0

KAELUS KA-6030
TWIN BANDSTOP 900MHZ
INTERFERENCE MITIGATION FILTER

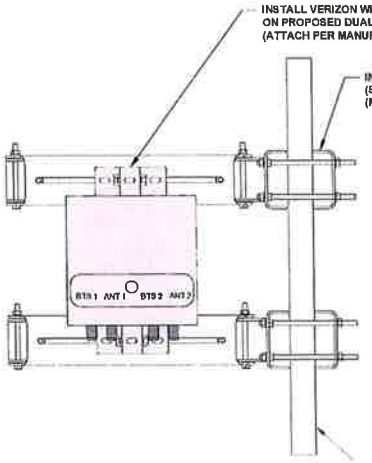
KEALUS FILTER		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: KAELUS MODEL: KA-6030	10.6"H x 10.9"W x 3.15"D	17.6 LBS.

1 LE-3 KAELUS RF FILTER DETAIL
N.T.S.



SITE PRO 1 DUAL SWIVEL MOUNT KIT
PART NUMBER: RRUDSM
WEIGHT: 39.43 LBS.

2 LE-3 RF FILTER MOUNT DETAIL
N.T.S.



3 LE-3 RF FILTER MOUNTING DETAIL
N.T.S.

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 08492

CENTERLINE
ENGINEERING SERVICES, PC
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE 781.713.4725

REVISIONS		
0	12/12/23	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
TG	DC

SITE NAME:
OLD SAYBROOK CTR
CT - A

SITE ADDRESS:
19 MAIN STREET
OLD SAYBROOK, CT 06475

LOCATION CODE:	FUZE ID:
468316	17123851

SHEET TITLE:
RF FILTER
DETAILS

SHEET #:	REVISION:
LE - 3	0

Colliers Engineering & Design CT, P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10227447
Colliers Engineering & Design CT, P.C. Project #: 24777031

March 19, 2024

Site Information	*Site ID:*	*5000245197-VZW / OLD SAYBROOK CTR CT - A*
	Site Name:	*OLD SAYBROOK CTR CT - A*
	Carrier Name:	*Verizon Wireless*
	Address:	*19 Main Street* *Old Saybrook, Connecticut 06475* *Middlesex County*
	Latitude:	*41.296391°*
	Longitude:	*-72.377376°*
Structure Information	*Tower Type:*	*30-Ft Rooftop*
	Mount Type:	*13.00-Ft Concealed Pipe Masts* *4.00-Ft Equipment Pipe*

FUZE ID # 17226368

Analysis Results

Pipe Mast: **13.9% Pass**
Proposed Equipment Pipe: **3.9% Pass with Hardware Upgrades***

***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: Cody Sherman

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
Mount Mapping Report	*Onsight Services Site #: 17123851, dated September 13, 2023*
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 5008756, dated December 7, 2023*
Lease Exhibit	*Centerline Engineering Services, PA, Site Name: OLD SAYBROOK CTR CT -A, Dated March 4, 2024*

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}:	130 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.999
Seismic Parameters:	S_S:	0.202
	S_1:	0.053
Maintenance Parameters:	Wind Speed (3-sec. Gust):	N/A
	Maintenance Load, Lv:	N/A
	Maintenance Load, Lm:	N/A
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
20.00	26.50	3	JMA Wireless	MX06FIT465-02	Retained
		3	JMA Wireless	MX14FIT465-01	
	20.00	2	KAelus	BSF0020F3V1-1	Added
		3	Samsung	RF4439d-25A*	Retained
		3	Samsung	RF4440d-13A*	
		3	Samsung	RT8808-77A*	
		1	Raycap	RVZDC-6627-PF-48*	

* Equipment is flush mounted to the equipment platform. They are not installed on the Concealed Pipe Masts or the New Equipment Pipe and are not included in this mount analysis.

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 CT, P.C. 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 CT, P.C. 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 CT, P.C. is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Antenna Mast Pipe	6.8%	Pass
Mast Bracing	0.4%	Pass
Antenna Mast Connection	13.9%	Pass
Equipment Pipe	3.9%	Pass
Equipment Pipe Connection	0.8%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**13.9%**

*The final desired loading configuration results in the factored maximum envelope reaction forces **at the connection of the pipe to the platform** along each global axis as shown in the table below. Loads do necessarily act concurrently or at the same location.*

Component	Fx (lbs)	Fy (lbs)	Fz (lbs)	Mx (kip*ft)	My (kip*ft)	Mz (kip*ft)
Existing Pipe Mast	*94.0*	*621.0*	*92.1*	*.676*	*.020*	*.689*
Proposed Equipment Pipe	*76.4*	*94.2*	*57.7*	*.020*	*.025*	*0.0*

We recommend the supporting structure EOR utilize these values to determine the effect of the increased equipment loading on the supporting platform and supporting structure. Alternatively, Colliers Engineering & Design CT, P.C. can evaluate the platform and mast pipe connection capacity if additional information regarding the supporting structure construction is provided.

Requirements:

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

Contractor shall install a new 48" long PIPE 2 SCH40 mount pipe to the existing equipment platform where space permits. Attach to the top and bottom of the supporting platform beam with new VZWSMART-MSK7. Field Drill 11/16" holes in flange of supporting platform beam and protect with two (2) coates of cold galvanization (Zinga or Zinc Kote). Refer to Equipment Pipe Installation Sketch.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent), attached to the new equipment pipe, in the location shown in the placement diagrams.

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. Mount Mapping Report (for reference only)
5. 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

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MDG #: 5000245197 SMART Project #: 10227447 Fuze Project ID: 17226368

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 install a new 48" long PIPE 2 SCH40 mount pipe to the existing equipment platform where space permits. Attach to the top and bottom of the supporting platform beam with new VZWSMART-MSK7. Field Drill 11/16" holes in flange of supporting platform beam and protect with two (2) coates of cold galvanization (Zinga or Zinc Kote). Refer to Equipment Pipe Installation Sketch.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent), attached to the new equipment pipe, in the location shown in the placement diagrams.

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:

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:

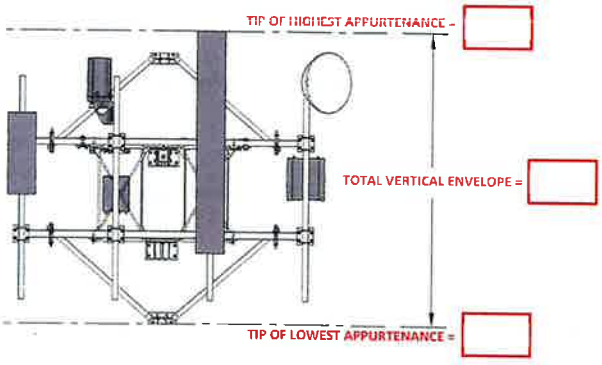


Illustration #1

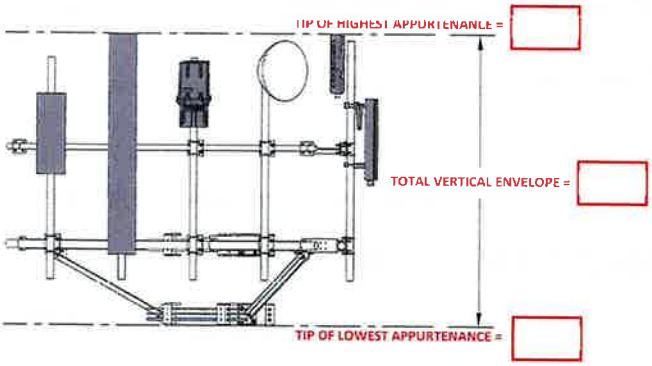


Illustration #2

Certifying Individual:

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

Structure: 5000245197-VZW - OLD SAYBROOK CTR CT - A

Sector: **A**

Structure Type: Rooftop

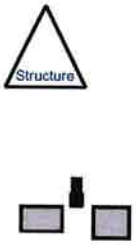
Mount Elev: 20.00

10227447

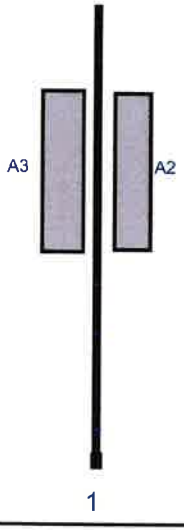
3/19/2024

Colliers Engineering & Design

Plan View



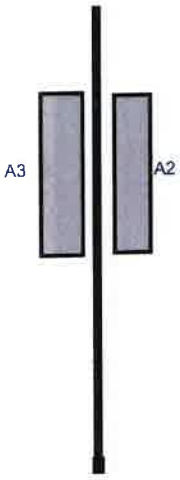
Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MX06FIT465-02	53.5	12.2	2	1	a	Front	57	12	Retained	09/13/2023
A3	MX14FIT465-01	55	14.2	2	1	a	Front	57	-12	Retained	09/13/2023

Plan View

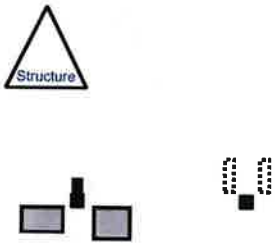
Front View - Looking at Structure



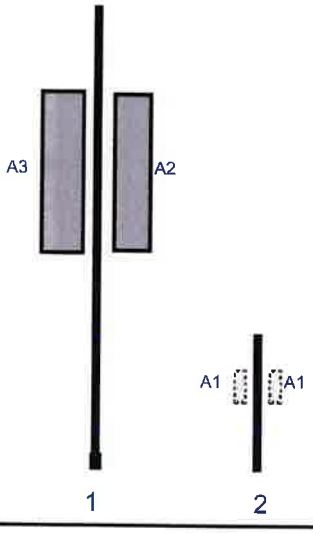
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MX06FIT465-02	53.5	12.2	2	1	a	Front	57	12	Retained	09/13/2023
A3	MX14FIT465-01	55	14.2	2	1	a	Front	57	-12	Retained	09/13/2023

Colliers Engineering & Design

Plan View

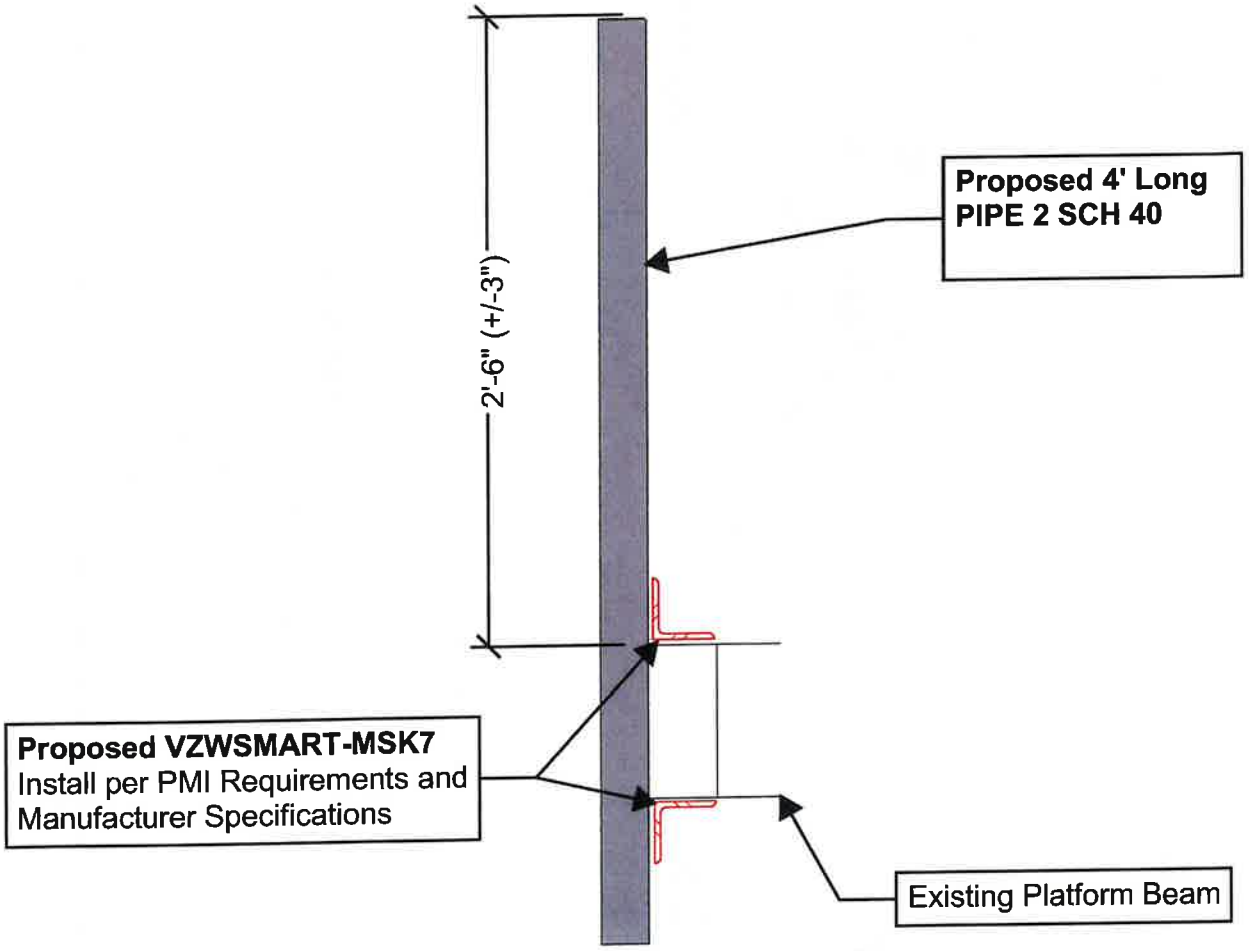


Front View - Looking at Structure



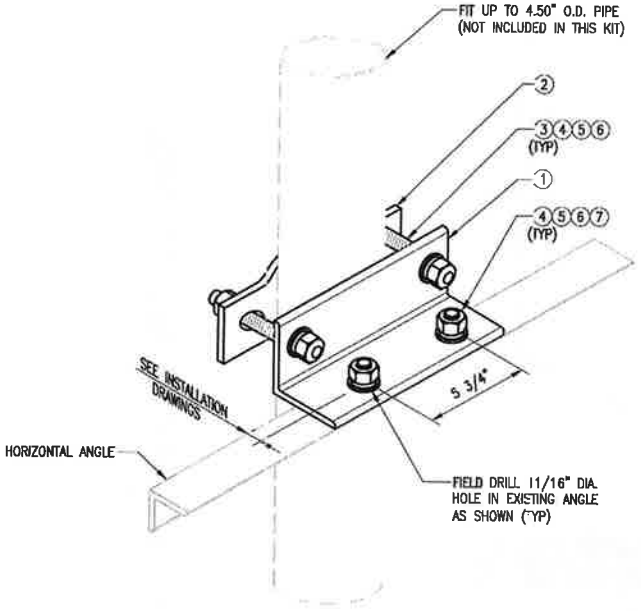
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MX06FIT465-02	53.5	12.2		1	a	Front	57	12	Retained	09/13/2023
A3	MX14FIT465-01	55	14.2		1	a	Front	57	-12	Retained	09/13/2023
A1	BSF0020F3V1-1	10.6	3.2		2	a	Behind	18	-6	Added	
A1	BSF0020F3V1-1	10.6	3.2		2	b	Behind	18	6	Added	

Equipment Pipe Installation Sketch

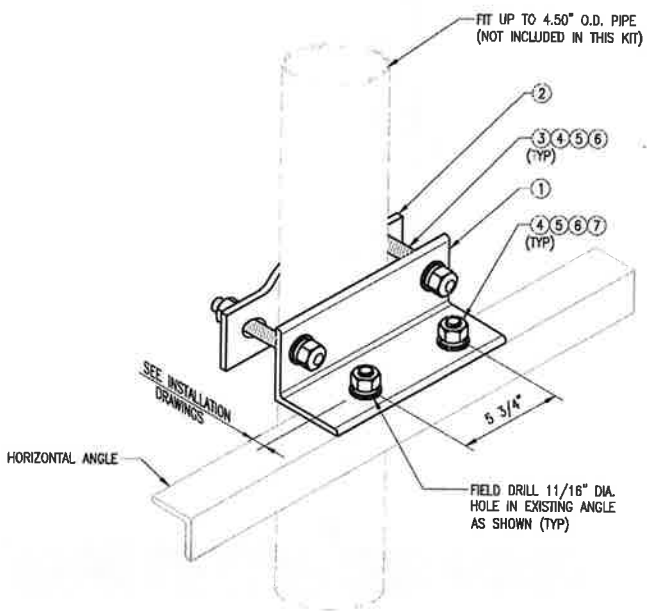


MOUNT SIDE ELEVATION VIEW (TYP. ALL SECTORS)

N.T.S.



OPTION 1



OPTION 2

ANGLE TO ANGLE CROSSOVER KIT

VZWSMART-MSK7 (ANGLE TO ANGLE CROSSOVER KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	L3325-0.7	L 3" X 3" X 1/4" X 0'-8" A36	MSK7-F2	3.33
2	1	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK7-F1	2.4
3	2	---	BOLT 5/8" DIA. X 6" FULL THREAD SAE GR 5	---	---
4	4	NUT-625	5/8" HDG HEX NUT	---	0
5	6	FW-625	5/8" HDG USS FLAT WASHER	---	0
6	4	LW-625	5/8" HDG LOCK WASHER	---	0
7	2	---	BOLT 5/8" X 2" A325	---	0
				GALVANIZED WT	7

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.
2. USE PROVIDED ADDITIONAL FLAT WASHERS FOR CONNECTING TO 3/16" THICK HORIZONTAL ANGLE

VzW SMART Tool© Vendor

verizon

FOR REFERENCE ONLY

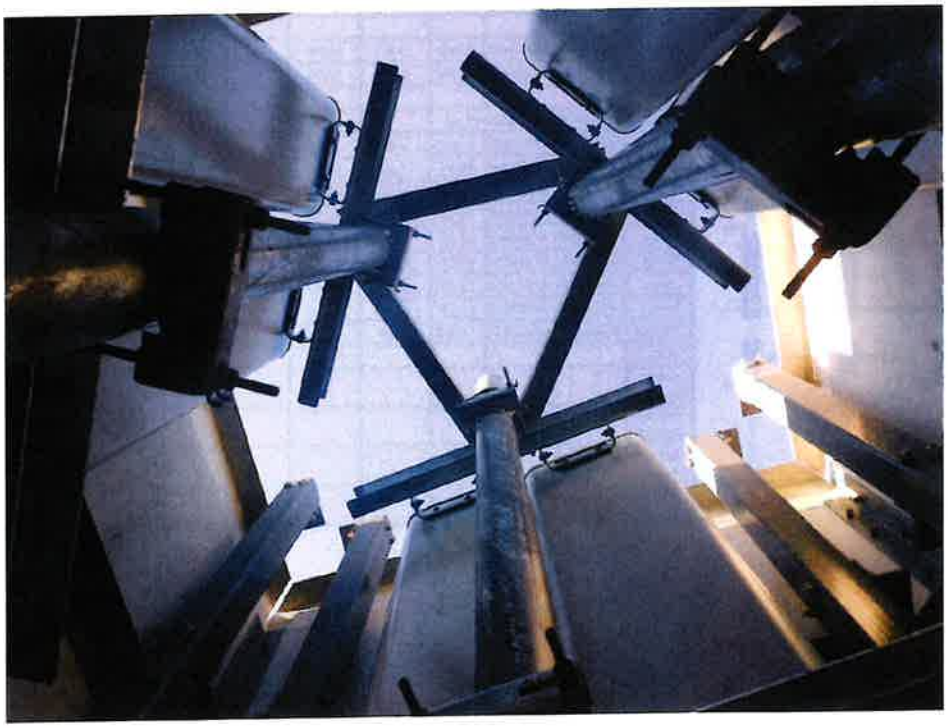
DRAWN BY: SK | CHECKED BY: BT/KW

REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	SK	05/08/20

SHEET TITLE:
VZWSMART-MSK7
ANGLE TO ANGLE
CROSSOVER KIT

SHEET NUMBER: VZWSMART-MSK7

REV #: 0



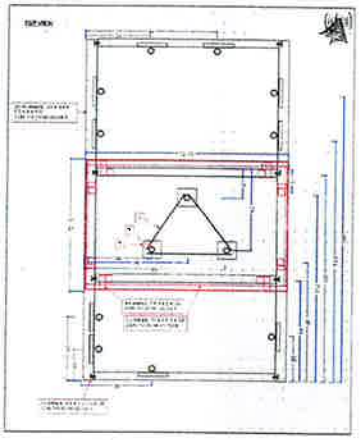
V6.1 Updated on 12-17-2021

Colliers Engineering & Design

Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	VERIZON	**Mapping Date:**	9/13/2023
Site Name:	OLD SAYBROOK CRT CT - A	**Tower Type:**	Other
Site Number or ID:	17123851	**Tower Height (Ft.):**	30
Mapping Contractor:	ONSIGHT SERVICES	**Mount Elevation (Ft.):**	26.5



Mount Pipe Configuration and Geometries [Unit = inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "b"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "b"	Horizontal Offset "C1, C2, C3, etc."
A1	156 X 4 X .25	156.00	36.00	C1	156 X 4 X .25	156.00	24.00
A2				C2			
A3				C3			
A4				C4			
A5				C5			
A6				C6			
B1	156 X 4 X .25	156.00	48.00	D1			
B2				D2			
B3				D3			
B4				D4			
B5				D5			
B6				D6			

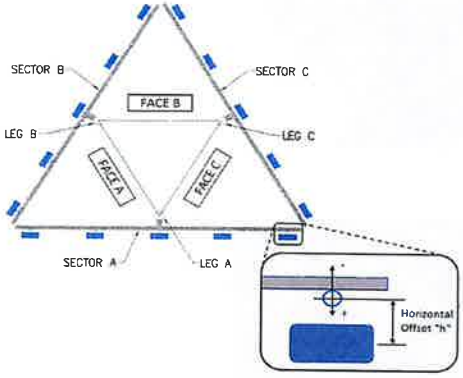
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :

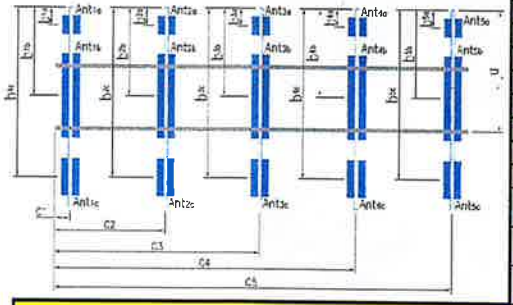
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :

Please enter additional infomation or comments below.

ROOF HEIGHT IS 16FT

Tower Face Width at Mount Elev. (ft.): | Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):



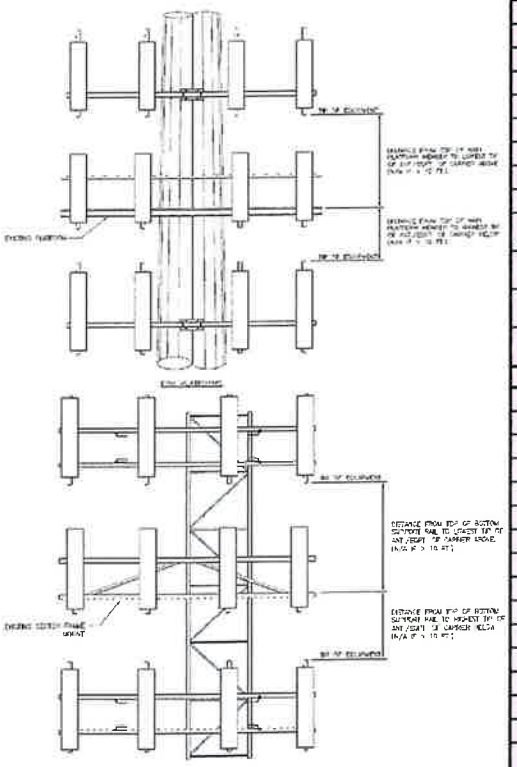


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	JMA, MX06FIT465-02	12.00	9.00	53.00		26.5	40.00	12.00	0.00	272-290
Ant_{1c}	JMA, MX14FIT465-01	12.00	9.00	53.00		26.5	40.00	12.00	0.00	272-290
Ant_{2a}										
Ant_{2b}	RAYCAP, RVZDC-6627-PF-48					20				296-297
Ant_{2c}	SAMSUNG, RF4439D-	15.00	10.00	15.00		19	10.00	9.00		299-306
Ant_{3a}	SAMSUNG, RT8808-7	15.00	7.00	15.00		19	11.00	7.00		307-311
Ant_{3b}	SAMSUNG, RF4440D-	15.00	9.00	15.00		19	11.00	8.00		315-319
Ant_{3c}	SAMSUNG, RF4440D-	15.00	9.00	15.00		19	11.00	8.00		331-337
Ant_{4a}	SAMSUNG, RT8808-7	15.00	7.00	15.00		19	11.00	7.00		338-344
Ant_{4b}	SAMSUNG, RF4439D-	15.00	10.00	15.00		19	11.00	9.00		345-351
Ant_{4c}	SAMSUNG, RF4440D-	15.00	9.00	15.00		19	11.00	8.00		352-358
Ant_{5a}	SAMSUNG, RT8808-7	15.00	7.00	15.00		19	11.00	7.00		359-365
Ant_{5b}	SAMSUNG, RF4439D-	15.00	10.00	15.00		19	11.00	9.00		366-370
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	0.00	Deg	Leg A:		Deg
Sector B:	120.00	Deg	Leg B:		Deg
Sector C:	240.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	0.00 Deg	Sector A
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	JMA, MX06FIT465-02	12.00	9.00	53.00		26.5	40.00	12.00	120.00	272-290
Ant_{1c}	JMA, MX14FIT465-01	12.00	9.00	53.00		26.5	40.00	12.00	120.00	272-290
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	JMA, MX06FIT465-02	12.00	9.00	53.00		26.5	40.00	12.00	240.00	272-290
Ant_{1c}	JMA, MX14FIT465-01	12.00	9.00	53.00		26.5	40.00	12.00	240.00	272-290
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

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

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

V4.1 Updated on 12-17-2021

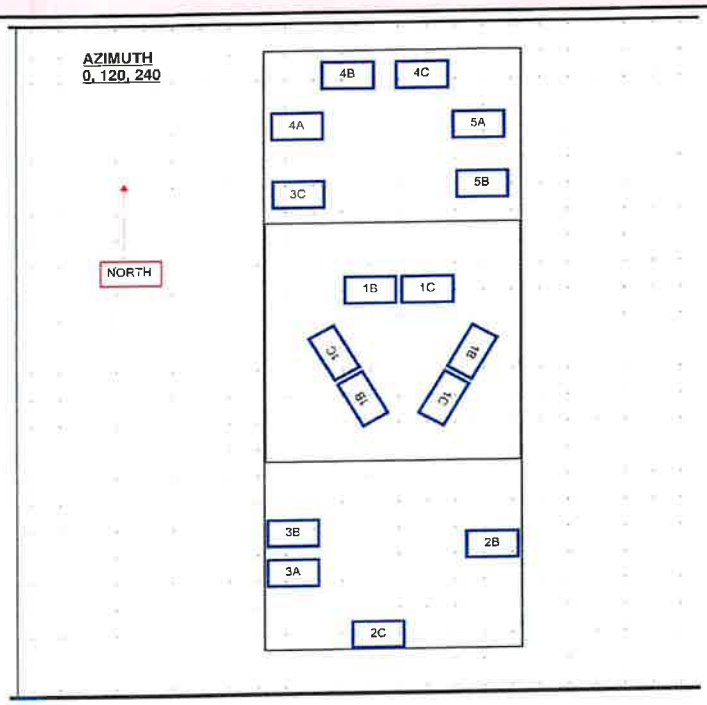
SMART Tool© Vendor

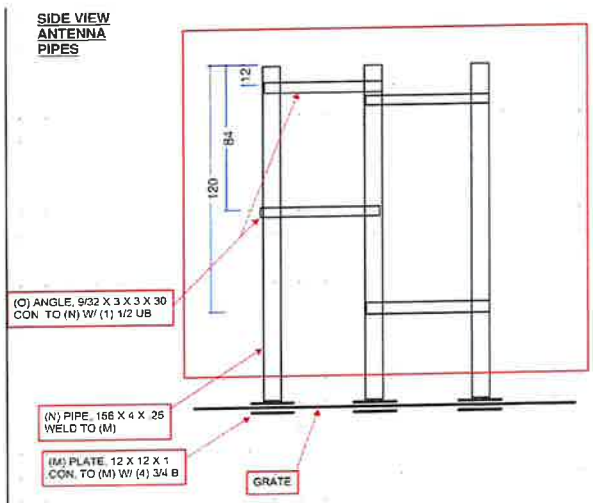
Antenna Mount Mapping Form (PATENT PENDING)

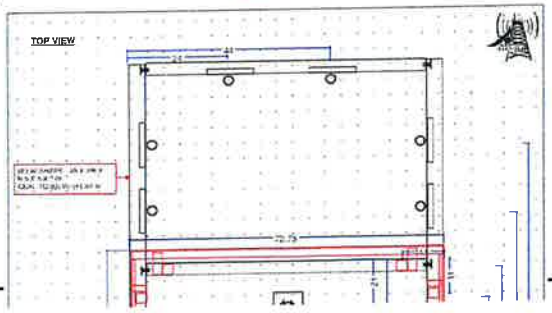
FCC #

Tower Owner:	VERIZON	Mapping Date:	9/13/2023
Site Name:	OLD SAYBROOK CRT CT - A	Tower Type:	Other
Site Number or ID:	17123851	Tower Height (Ft.):	30
Mapping Contractor:	ONSIGHT SERVICES	Mount Elevation (Ft.):	26.5

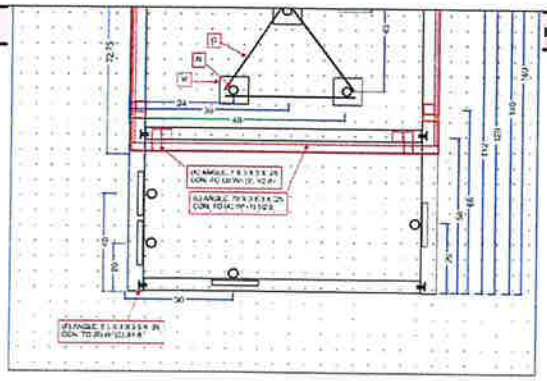
Please Insert Sketches of the Antenna Mount

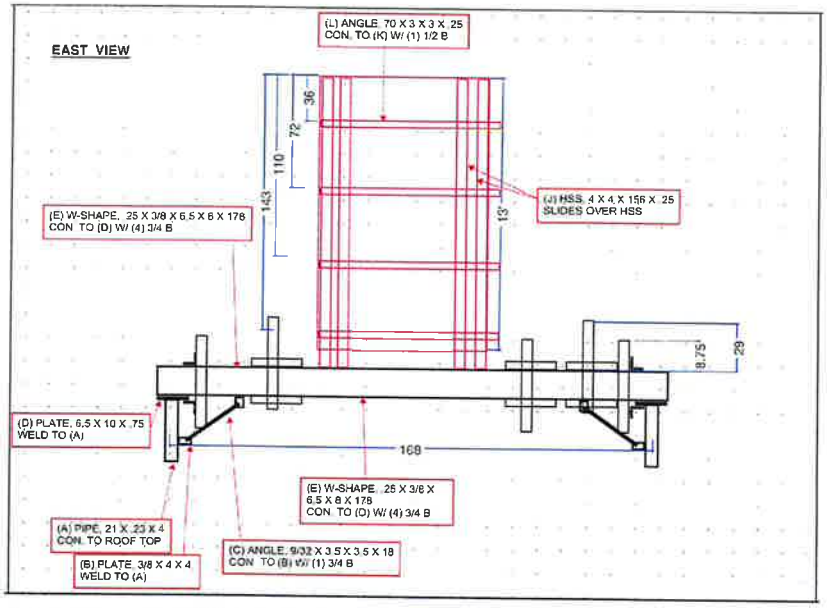


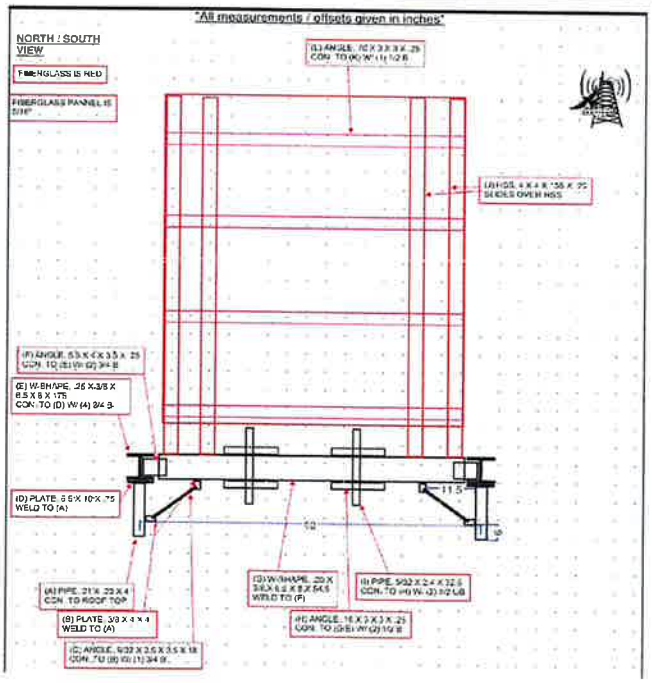


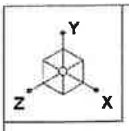


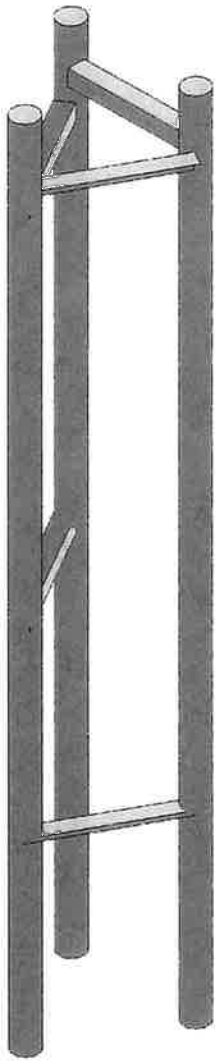
rt Sketches of the Antenna Mount, cont'd





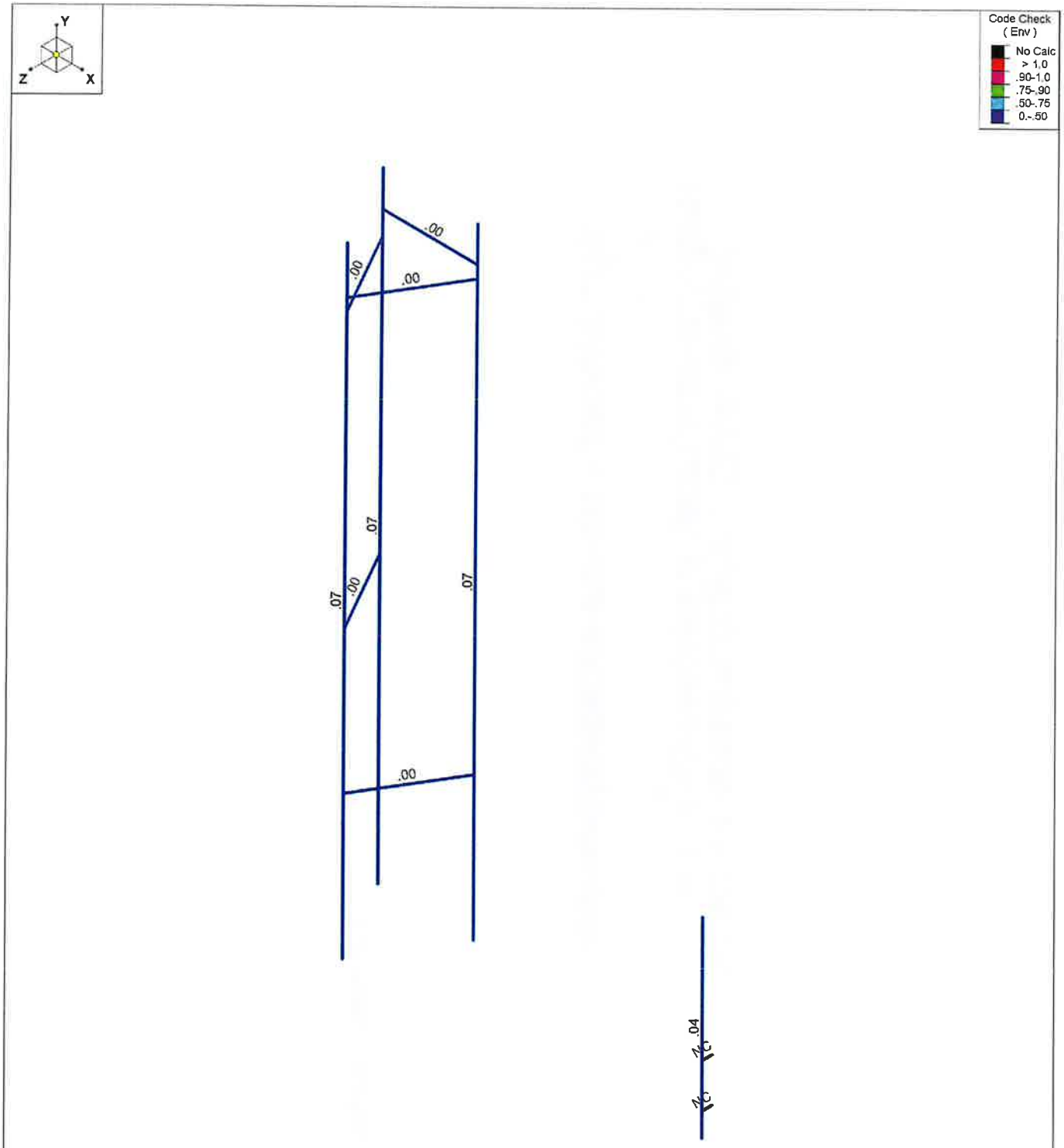






Envelope Only Solution

		SK - 1
		Mar 19, 2024 at 3:16 PM
		5000245197-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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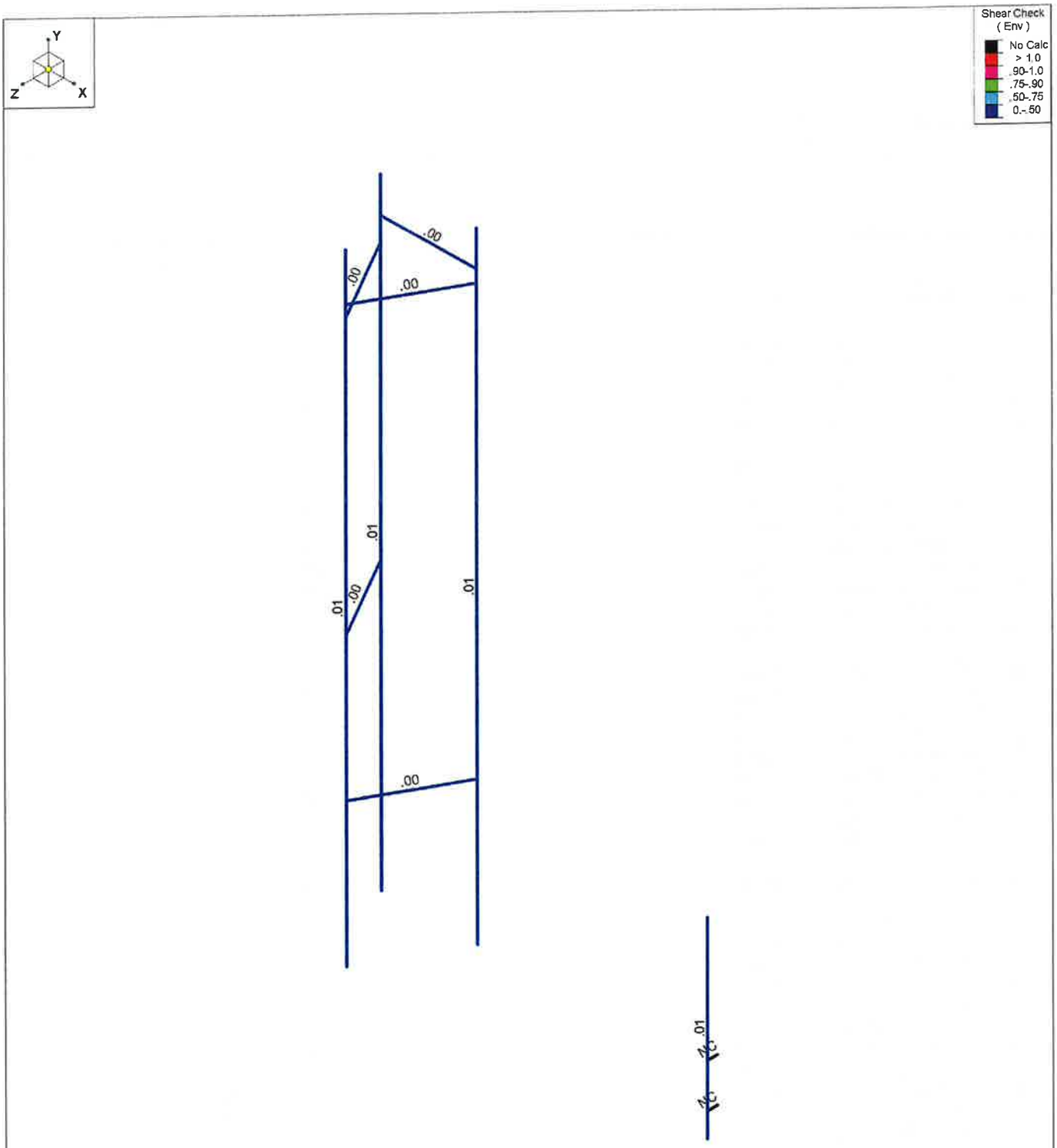


Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		Mar 19, 2024 at 3:17 PM
		5000245197-VZW_MT_LO_H.r3d

Basic Load Cases

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

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
54	Structure Wi (30 Deg)	None						18		
55	Structure Wi (60 Deg)	None						18		
56	Structure Wi (90 Deg)	None						18		
57	Structure Wi (120 De..	None						18		
58	Structure Wi (150 De..	None						18		
59	Structure Wi (180 De..	None						18		
60	Structure Wi (210 De..	None						18		
61	Structure Wi (240 De..	None						18		
62	Structure Wi (270 De..	None						18		
63	Structure Wi (300 De..	None						18		
64	Structure Wi (330 De..	None						18		
65	Structure Wm (0 Deg)	None						18		
66	Structure Wm (30 De..	None						18		
67	Structure Wm (60 De..	None						18		
68	Structure Wm (90 De..	None						18		
69	Structure Wm (120 D..	None						18		
70	Structure Wm (150 D..	None						18		
71	Structure Wm (180 D..	None						18		
72	Structure Wm (210 D..	None						18		
73	Structure Wm (240 D..	None						18		
74	Structure Wm (270 D..	None						18		
75	Structure Wm (300 D..	None						18		
76	Structure Wm (330 D..	None						18		
77	Lm1	None								
78	Lm2	None								
79	Lv1	None								
80	Lv2	None								
81	Antenna Ev	None					48			
82	Antenna Eh (0 Deg)	None					32			
83	Antenna Eh (90 Deg)	None					32			
84	Structure Ev	ELY		-.129						
85	Structure Eh (0 Deg)	ELZ			-.323					
86	Structure Eh (90 Deg)	ELX	.323							

Load Combinations

	Description	Sol...	PDe..	S...	BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...	
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 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1						
14	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1						
15	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1						
16	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1						
17	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1						
18	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1						
19	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1						

Load Combinations (Continued)

	Description	Sol...	PDe...	S...	BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...		BLCFa...	
20	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0Ev + 1.0Eh ...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mast	PIPE_4.0	Beam	None	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
2	Brace	L3X3X4	Beam	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
3	Equipment Pipe	PIPE_2.0	Beam	None	A53 Gr.B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	MP1A	N4A	N1			Mast	Beam	None	A53 Gr.B	Typical
2	MP1B	N6	N4			Mast	Beam	None	A53 Gr.B	Typical
3	MP1C	N5	N2			Mast	Beam	None	A53 Gr.B	Typical
4	M4	N16	N17		90	Brace	Beam	None	A36 Gr.36	Typical
5	M5	N13	N15		180	Brace	Beam	None	A36 Gr.36	Typical
6	M6	N7	N8		90	Brace	Beam	None	A36 Gr.36	Typical
7	M7	N10	N12		180	Brace	Beam	None	A36 Gr.36	Typical
8	M8	N20	N21		90	Brace	Beam	None	A36 Gr.36	Typical
9	M9	N24A	N23			RIGID	None	None	RIGID	Typical
10	M10	N25	N24			RIGID	None	None	RIGID	Typical
11	MP2C	N27	N26			Equipment Pipe	Beam	None	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[i...	T/C Only	Physi...	Defl Ratio Optio...	Analysis Offs...	Inactive	Seismic Design R...
1	MP1A					Yes					None
2	MP1B					Yes					None
3	MP1C					Yes					None
4	M4	BenPIN	BenPIN			Yes					None
5	M5	BenPIN	BenPIN			Yes					None
6	M6	BenPIN	BenPIN			Yes					None
7	M7	BenPIN	BenPIN			Yes					None
8	M8	BenPIN	BenPIN			Yes					None
9	M9	OOOXOX				Yes	** NA **				None
10	M10	OOOXOX				Yes	** NA **				None
11	MP2C					Yes					None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-28	2
2	MP1A	My	-.014	2
3	MP1A	Mz	.028	2
4	MP1A	Y	-28	7.5
5	MP1A	My	-.014	7.5
6	MP1A	Mz	.028	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	Y	-28	2
8	MP1B	My	-.017	2
9	MP1B	Mz	-.026	2
10	MP1B	Y	-28	7.5
11	MP1B	My	-.017	7.5
12	MP1B	Mz	-.026	7.5
13	MP1C	Y	-28	2
14	MP1C	My	.031	2
15	MP1C	Mz	-.002	2
16	MP1C	Y	-28	7.5
17	MP1C	My	.031	7.5
18	MP1C	Mz	-.002	7.5
19	MP1A	Y	-35.1	2
20	MP1A	My	-.018	2
21	MP1A	Mz	-.035	2
22	MP1A	Y	-35.1	7.5
23	MP1A	My	-.018	7.5
24	MP1A	Mz	-.035	7.5
25	MP1B	Y	-35.1	2
26	MP1B	My	.039	2
27	MP1B	Mz	.002	2
28	MP1B	Y	-35.1	7.5
29	MP1B	My	.039	7.5
30	MP1B	Mz	.002	7.5
31	MP1C	Y	-35.1	2
32	MP1C	My	-.022	2
33	MP1C	Mz	.033	2
34	MP1C	Y	-35.1	7.5
35	MP1C	My	-.022	7.5
36	MP1C	Mz	.033	7.5
37	MP2C	Y	-8.8	1
38	MP2C	My	-.008	1
39	MP2C	Mz	-.005	1
40	MP2C	Y	-8.8	2
41	MP2C	My	-.008	2
42	MP2C	Mz	-.005	2
43	MP2C	Y	-8.8	1
44	MP2C	My	-.000589	1
45	MP2C	Mz	-.01	1
46	MP2C	Y	-8.8	2
47	MP2C	My	-.000589	2
48	MP2C	Mz	-.01	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-45.365	2
2	MP1A	My	-.023	2
3	MP1A	Mz	.045	2
4	MP1A	Y	-45.365	7.5
5	MP1A	My	-.023	7.5
6	MP1A	Mz	.045	7.5
7	MP1B	Y	-45.365	2
8	MP1B	My	-.028	2
9	MP1B	Mz	-.042	2
10	MP1B	Y	-45.365	7.5
11	MP1B	My	-.028	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP1B	Mz	-.042	7.5
13	MP1C	Y	-45.365	2
14	MP1C	My	.051	2
15	MP1C	Mz	-.003	2
16	MP1C	Y	-45.365	7.5
17	MP1C	My	.051	7.5
18	MP1C	Mz	-.003	7.5
19	MP1A	Y	-45.842	2
20	MP1A	My	-.023	2
21	MP1A	Mz	-.046	2
22	MP1A	Y	-45.842	7.5
23	MP1A	My	-.023	7.5
24	MP1A	Mz	-.046	7.5
25	MP1B	Y	-45.842	2
26	MP1B	My	.051	2
27	MP1B	Mz	.003	2
28	MP1B	Y	-45.842	7.5
29	MP1B	My	.051	7.5
30	MP1B	Mz	.003	7.5
31	MP1C	Y	-45.842	2
32	MP1C	My	-.028	2
33	MP1C	Mz	.043	2
34	MP1C	Y	-45.842	7.5
35	MP1C	My	-.028	7.5
36	MP1C	Mz	.043	7.5
37	MP2C	Y	-6.878	1
38	MP2C	My	-.006	1
39	MP2C	Mz	-.004	1
40	MP2C	Y	-6.878	2
41	MP2C	My	-.006	2
42	MP2C	Mz	-.004	2
43	MP2C	Y	-6.878	1
44	MP2C	My	-.000461	1
45	MP2C	Mz	-.008	1
46	MP2C	Y	-6.878	2
47	MP2C	My	-.000461	2
48	MP2C	Mz	-.008	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	0	2
3	MP1A	Mx	0	2
4	MP1A	X	0	7.5
5	MP1A	Z	0	7.5
6	MP1A	Mx	0	7.5
7	MP1B	X	0	2
8	MP1B	Z	0	2
9	MP1B	Mx	0	2
10	MP1B	X	0	7.5
11	MP1B	Z	0	7.5
12	MP1B	Mx	0	7.5
13	MP1C	X	0	2
14	MP1C	Z	0	2
15	MP1C	Mx	0	2
16	MP1C	X	0	7.5
17	MP1C	Z	0	7.5
18	MP1C	Mx	0	7.5
19	MP1A	X	0	2
20	MP1A	Z	0	2
21	MP1A	Mx	0	2
22	MP1A	X	0	7.5
23	MP1A	Z	0	7.5
24	MP1A	Mx	0	7.5
25	MP1B	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP1B	Z	0	2
27	MP1B	Mx	0	2
28	MP1B	X	0	7.5
29	MP1B	Z	0	7.5
30	MP1B	Mx	0	7.5
31	MP1C	X	0	2
32	MP1C	Z	0	2
33	MP1C	Mx	0	2
34	MP1C	X	0	7.5
35	MP1C	Z	0	7.5
36	MP1C	Mx	0	7.5
37	MP2C	X	0	1
38	MP2C	Z	0	1
39	MP2C	Mx	0	1
40	MP2C	X	0	2
41	MP2C	Z	0	2
42	MP2C	Mx	0	2
43	MP2C	X	0	1
44	MP2C	Z	0	1
45	MP2C	Mx	0	1
46	MP2C	X	0	2
47	MP2C	Z	0	2
48	MP2C	Mx	0	2

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-3.62	2
2	MP1A	My	-.002	2
3	MP1A	Mz	.004	2
4	MP1A	Y	-3.62	7.5
5	MP1A	My	-.002	7.5
6	MP1A	Mz	.004	7.5
7	MP1B	Y	-3.62	2
8	MP1B	My	-.002	2
9	MP1B	Mz	-.003	2
10	MP1B	Y	-3.62	7.5
11	MP1B	My	-.002	7.5
12	MP1B	Mz	-.003	7.5
13	MP1C	Y	-3.62	2
14	MP1C	My	.004	2
15	MP1C	Mz	-.000242	2
16	MP1C	Y	-3.62	7.5
17	MP1C	My	.004	7.5
18	MP1C	Mz	-.000242	7.5
19	MP1A	Y	-4.538	2
20	MP1A	My	-.002	2
21	MP1A	Mz	-.005	2
22	MP1A	Y	-4.538	7.5
23	MP1A	My	-.002	7.5
24	MP1A	Mz	-.005	7.5
25	MP1B	Y	-4.538	2
26	MP1B	My	.005	2
27	MP1B	Mz	.000304	2
28	MP1B	Y	-4.538	7.5
29	MP1B	My	.005	7.5
30	MP1B	Mz	.000304	7.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP1C	Y	-4.538	2
32	MP1C	My	-.003	2
33	MP1C	Mz	.004	2
34	MP1C	Y	-4.538	7.5
35	MP1C	My	-.003	7.5
36	MP1C	Mz	.004	7.5
37	MP2C	Y	-1.138	1
38	MP2C	My	-.001	1
39	MP2C	Mz	-.000701	1
40	MP2C	Y	-1.138	2
41	MP2C	My	-.001	2
42	MP2C	Mz	-.000701	2
43	MP2C	Y	-1.138	1
44	MP2C	My	-7.6e-5	1
45	MP2C	Mz	-.001	1
46	MP2C	Y	-1.138	2
47	MP2C	My	-7.6e-5	2
48	MP2C	Mz	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-9.05	2
2	MP1A	Mx	-.009	2
3	MP1A	Z	-9.05	7.5
4	MP1A	Mx	-.009	7.5
5	MP1B	Z	-9.05	2
6	MP1B	Mx	.008	2
7	MP1B	Z	-9.05	7.5
8	MP1B	Mx	.008	7.5
9	MP1C	Z	-9.05	2
10	MP1C	Mx	.000606	2
11	MP1C	Z	-9.05	7.5
12	MP1C	Mx	.000606	7.5
13	MP1A	Z	-11.344	2
14	MP1A	Mx	.011	2
15	MP1A	Z	-11.344	7.5
16	MP1A	Mx	.011	7.5
17	MP1B	Z	-11.344	2
18	MP1B	Mx	-.00076	2
19	MP1B	Z	-11.344	7.5
20	MP1B	Mx	-.00076	7.5
21	MP1C	Z	-11.344	2
22	MP1C	Mx	-.011	2
23	MP1C	Z	-11.344	7.5
24	MP1C	Mx	-.011	7.5
25	MP2C	Z	-2.844	1
26	MP2C	Mx	.002	1
27	MP2C	Z	-2.844	2
28	MP2C	Mx	.002	2
29	MP2C	Z	-2.844	1
30	MP2C	Mx	.003	1
31	MP2C	Z	-2.844	2
32	MP2C	Mx	.003	2

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	9.05	2
2	MP1A	Mx	-.005	2
3	MP1A	X	9.05	7.5
4	MP1A	Mx	-.005	7.5
5	MP1B	X	9.05	2
6	MP1B	Mx	-.006	2
7	MP1B	X	9.05	7.5
8	MP1B	Mx	-.006	7.5
9	MP1C	X	9.05	2
10	MP1C	Mx	.01	2
11	MP1C	X	9.05	7.5
12	MP1C	Mx	.01	7.5
13	MP1A	X	11.344	2
14	MP1A	Mx	-.006	2
15	MP1A	X	11.344	7.5
16	MP1A	Mx	-.006	7.5
17	MP1B	X	11.344	2
18	MP1B	Mx	.013	2
19	MP1B	X	11.344	7.5
20	MP1B	Mx	.013	7.5
21	MP1C	X	11.344	2
22	MP1C	Mx	-.007	2
23	MP1C	X	11.344	7.5
24	MP1C	Mx	-.007	7.5
25	MP2C	X	2.844	1
26	MP2C	Mx	-.003	1
27	MP2C	X	2.844	2
28	MP2C	Mx	-.003	2
29	MP2C	X	2.844	1
30	MP2C	Mx	-.000191	1
31	MP2C	X	2.844	2
32	MP2C	Mx	-.000191	2

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N1	max	91.922	61	620.992	24	87.519	64	.661	52	.02	73	.65	67
2		min	-87.178	67	213.288	70	-89.713	58	-.665	58	-.02	55	-.689	61
3	N4	max	84.304	73	609.076	24	86.893	64	.676	52	.02	65	.686	55
4		min	-93.955	55	209.512	73	-89.923	58	-.655	70	-.02	59	-.647	73
5	N2	max	91.499	61	609.076	24	92.141	52	.655	64	.02	69	.661	55
6		min	-86.591	67	209.512	65	-86.912	70	-.673	58	-.02	63	-.663	61
7	N23	max	76.421	61	94.178	24	17.364	64	-.007	75	.025	62	0	75
8		min	-6.529	67	35.266	64	-57.719	58	-.02	13	-.01	68	0	1
9	N24	max	-9.335	67	7.696	24	41.855	58	0	75	-.002	67	0	75
10		min	-65.985	13	2.564	64	-1.501	64	-.002	13	-.014	13	0	1
11	Totals:	max	281.022	73	1941.018	24	281.022	64						
12		min	-281.022	55	670.141	64	-281.022	58						

Joint Reactions (By Combination)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1	N1	2.711	332.087	-1.255	-.002	0	-.021
2	1	N4	-5.515	326.207	-1.731	.011	0	.022
3	1	N2	2.804	326.207	2.987	-.01	0	0
4	1	N23	39.937	54.909	-23.058	-.011	.008	0
5	1	N24	-39.937	3.991	23.058	0	-.008	0
6	1	Totals:	0	1043.4	0			
7	1	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
8	2	N1	2.711	332.087	-1.255	-.002	0	-.021
9	2	N4	-5.515	326.207	-1.731	.011	0	.022
10	2	N2	2.804	326.207	2.987	-.01	0	0
11	2	N23	39.937	54.909	-23.058	-.011	.008	0
12	2	N24	-39.937	3.991	23.058	0	-.008	0
13	2	Totals:	0	1043.4	0			
14	2	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
15	3	N1	2.711	332.087	-1.255	-.002	0	-.021
16	3	N4	-5.515	326.207	-1.731	.011	0	.022
17	3	N2	2.804	326.207	2.987	-.01	0	0
18	3	N23	39.937	54.909	-23.058	-.011	.008	0
19	3	N24	-39.937	3.991	23.058	0	-.008	0
20	3	Totals:	0	1043.4	0			
21	3	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
22	4	N1	2.711	332.087	-1.255	-.002	0	-.021
23	4	N4	-5.515	326.207	-1.731	.011	0	.022
24	4	N2	2.804	326.207	2.987	-.01	0	0
25	4	N23	39.937	54.909	-23.058	-.011	.008	0
26	4	N24	-39.937	3.991	23.058	0	-.008	0
27	4	Totals:	0	1043.4	0			
28	4	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
29	5	N1	2.711	332.087	-1.255	-.002	0	-.021
30	5	N4	-5.515	326.207	-1.731	.011	0	.022
31	5	N2	2.804	326.207	2.987	-.01	0	0
32	5	N23	39.937	54.909	-23.058	-.011	.008	0
33	5	N24	-39.937	3.991	23.058	0	-.008	0
34	5	Totals:	0	1043.4	0			
35	5	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
36	6	N1	2.711	332.087	-1.255	-.002	0	-.021
37	6	N4	-5.515	326.207	-1.731	.011	0	.022
38	6	N2	2.804	326.207	2.987	-.01	0	0
39	6	N23	39.937	54.909	-23.058	-.011	.008	0
40	6	N24	-39.937	3.991	23.058	0	-.008	0
41	6	Totals:	0	1043.4	0			
42	6	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
43	7	N1	2.711	332.087	-1.255	-.002	0	-.021
44	7	N4	-5.515	326.207	-1.731	.011	0	.022
45	7	N2	2.804	326.207	2.987	-.01	0	0
46	7	N23	39.937	54.909	-23.058	-.011	.008	0
47	7	N24	-39.937	3.991	23.058	0	-.008	0
48	7	Totals:	0	1043.4	0			
49	7	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
50	8	N1	2.711	332.087	-1.255	-.002	0	-.021
51	8	N4	-5.515	326.207	-1.731	.011	0	.022
52	8	N2	2.804	326.207	2.987	-.01	0	0
53	8	N23	39.937	54.909	-23.058	-.011	.008	0
54	8	N24	-39.937	3.991	23.058	0	-.008	0
55	8	Totals:	0	1043.4	0			
56	8	COG (ft):	X: .339	Y: 7.115	Z: -1.169			

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
57	9	N1	2.711	332.087	-1.255	-.002	0	-.021
58	9	N4	-5.515	326.207	-1.731	.011	0	.022
59	9	N2	2.804	326.207	2.987	-.01	0	0
60	9	N23	39.937	54.909	-23.058	-.011	.008	0
61	9	N24	-39.937	3.991	23.058	0	-.008	0
62	9	Totals:	0	1043.4	0			
63	9	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
64	10	N1	2.711	332.087	-1.255	-.002	0	-.021
65	10	N4	-5.515	326.207	-1.731	.011	0	.022
66	10	N2	2.804	326.207	2.987	-.01	0	0
67	10	N23	39.937	54.909	-23.058	-.011	.008	0
68	10	N24	-39.937	3.991	23.058	0	-.008	0
69	10	Totals:	0	1043.4	0			
70	10	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
71	11	N1	2.711	332.087	-1.255	-.002	0	-.021
72	11	N4	-5.515	326.207	-1.731	.011	0	.022
73	11	N2	2.804	326.207	2.987	-.01	0	0
74	11	N23	39.937	54.909	-23.058	-.011	.008	0
75	11	N24	-39.937	3.991	23.058	0	-.008	0
76	11	Totals:	0	1043.4	0			
77	11	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
78	12	N1	2.711	332.087	-1.255	-.002	0	-.021
79	12	N4	-5.515	326.207	-1.731	.011	0	.022
80	12	N2	2.804	326.207	2.987	-.01	0	0
81	12	N23	39.937	54.909	-23.058	-.011	.008	0
82	12	N24	-39.937	3.991	23.058	0	-.008	0
83	12	Totals:	0	1043.4	0			
84	12	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
85	13	N1	5.964	620.992	-2.765	-.004	0	-.027
86	13	N4	-12.144	609.076	-3.808	.009	0	.038
87	13	N2	6.18	609.076	6.574	-.005	0	-.011
88	13	N23	65.985	94.178	-38.097	-.02	.014	0
89	13	N24	-65.985	7.696	38.097	-.002	-.014	0
90	13	Totals:	0	1941.018	0			
91	13	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
92	14	N1	5.964	620.992	-2.765	-.004	0	-.027
93	14	N4	-12.144	609.076	-3.808	.009	0	.038
94	14	N2	6.18	609.076	6.574	-.005	0	-.011
95	14	N23	65.985	94.178	-38.097	-.02	.014	0
96	14	N24	-65.985	7.696	38.097	-.002	-.014	0
97	14	Totals:	0	1941.018	0			
98	14	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
99	15	N1	5.964	620.992	-2.765	-.004	0	-.027
100	15	N4	-12.144	609.076	-3.808	.009	0	.038
101	15	N2	6.18	609.076	6.574	-.005	0	-.011
102	15	N23	65.985	94.178	-38.097	-.02	.014	0
103	15	N24	-65.985	7.696	38.097	-.002	-.014	0
104	15	Totals:	0	1941.018	0			
105	15	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
106	16	N1	5.964	620.992	-2.765	-.004	0	-.027
107	16	N4	-12.144	609.076	-3.808	.009	0	.038
108	16	N2	6.18	609.076	6.574	-.005	0	-.011
109	16	N23	65.985	94.178	-38.097	-.02	.014	0
110	16	N24	-65.985	7.696	38.097	-.002	-.014	0
111	16	Totals:	0	1941.018	0			
112	16	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
113	17	N1	5.964	620.992	-2.765	-.004	0	-.027

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
114	17	N4	-12.144	609.076	-3.808	.009	0	.038
115	17	N2	6.18	609.076	6.574	-.005	0	-.011
116	17	N23	65.985	94.178	-38.097	-.02	.014	0
117	17	N24	-65.985	7.696	38.097	-.002	-.014	0
118	17	Totals:	0	1941.018	0			
119	17	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
120	18	N1	5.964	620.992	-2.765	-.004	0	-.027
121	18	N4	-12.144	609.076	-3.808	.009	0	.038
122	18	N2	6.18	609.076	6.574	-.005	0	-.011
123	18	N23	65.985	94.178	-38.097	-.02	.014	0
124	18	N24	-65.985	7.696	38.097	-.002	-.014	0
125	18	Totals:	0	1941.018	0			
126	18	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
127	19	N1	5.964	620.992	-2.765	-.004	0	-.027
128	19	N4	-12.144	609.076	-3.808	.009	0	.038
129	19	N2	6.18	609.076	6.574	-.005	0	-.011
130	19	N23	65.985	94.178	-38.097	-.02	.014	0
131	19	N24	-65.985	7.696	38.097	-.002	-.014	0
132	19	Totals:	0	1941.018	0			
133	19	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
134	20	N1	5.964	620.992	-2.765	-.004	0	-.027
135	20	N4	-12.144	609.076	-3.808	.009	0	.038
136	20	N2	6.18	609.076	6.574	-.005	0	-.011
137	20	N23	65.985	94.178	-38.097	-.02	.014	0
138	20	N24	-65.985	7.696	38.097	-.002	-.014	0
139	20	Totals:	0	1941.018	0			
140	20	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
141	21	N1	5.964	620.992	-2.765	-.004	0	-.027
142	21	N4	-12.144	609.076	-3.808	.009	0	.038
143	21	N2	6.18	609.076	6.574	-.005	0	-.011
144	21	N23	65.985	94.178	-38.097	-.02	.014	0
145	21	N24	-65.985	7.696	38.097	-.002	-.014	0
146	21	Totals:	0	1941.018	0			
147	21	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
148	22	N1	5.964	620.992	-2.765	-.004	0	-.027
149	22	N4	-12.144	609.076	-3.808	.009	0	.038
150	22	N2	6.18	609.076	6.574	-.005	0	-.011
151	22	N23	65.985	94.178	-38.097	-.02	.014	0
152	22	N24	-65.985	7.696	38.097	-.002	-.014	0
153	22	Totals:	0	1941.018	0			
154	22	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
155	23	N1	5.964	620.992	-2.765	-.004	0	-.027
156	23	N4	-12.144	609.076	-3.808	.009	0	.038
157	23	N2	6.18	609.076	6.574	-.005	0	-.011
158	23	N23	65.985	94.178	-38.097	-.02	.014	0
159	23	N24	-65.985	7.696	38.097	-.002	-.014	0
160	23	Totals:	0	1941.018	0			
161	23	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
162	24	N1	5.964	620.992	-2.765	-.004	0	-.027
163	24	N4	-12.144	609.076	-3.808	.009	0	.038
164	24	N2	6.18	609.076	6.574	-.005	0	-.011
165	24	N23	65.985	94.178	-38.097	-.02	.014	0
166	24	N24	-65.985	7.696	38.097	-.002	-.014	0
167	24	Totals:	0	1941.018	0			
168	24	COG (ft):	X: .315	Y: 7.288	Z: -1.167			
169	25	N1	2.711	332.087	-1.255	-.002	0	-.021
170	25	N4	-5.515	326.207	-1.731	.011	0	.022

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
171	25	N2	2.804	326.207	2.987	-.01	0	0
172	25	N23	39.937	54.909	-23.058	-.011	.008	0
173	25	N24	-39.937	3.991	23.058	0	-.008	0
174	25	Totals:	0	1043.4	0			
175	25	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
176	26	N1	2.711	332.087	-1.255	-.002	0	-.021
177	26	N4	-5.515	326.207	-1.731	.011	0	.022
178	26	N2	2.804	326.207	2.987	-.01	0	0
179	26	N23	39.937	54.909	-23.058	-.011	.008	0
180	26	N24	-39.937	3.991	23.058	0	-.008	0
181	26	Totals:	0	1043.4	0			
182	26	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
183	27	N1	2.711	332.087	-1.255	-.002	0	-.021
184	27	N4	-5.515	326.207	-1.731	.011	0	.022
185	27	N2	2.804	326.207	2.987	-.01	0	0
186	27	N23	39.937	54.909	-23.058	-.011	.008	0
187	27	N24	-39.937	3.991	23.058	0	-.008	0
188	27	Totals:	0	1043.4	0			
189	27	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
190	28	N1	2.711	332.087	-1.255	-.002	0	-.021
191	28	N4	-5.515	326.207	-1.731	.011	0	.022
192	28	N2	2.804	326.207	2.987	-.01	0	0
193	28	N23	39.937	54.909	-23.058	-.011	.008	0
194	28	N24	-39.937	3.991	23.058	0	-.008	0
195	28	Totals:	0	1043.4	0			
196	28	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
197	29	N1	2.711	332.087	-1.255	-.002	0	-.021
198	29	N4	-5.515	326.207	-1.731	.011	0	.022
199	29	N2	2.804	326.207	2.987	-.01	0	0
200	29	N23	39.937	54.909	-23.058	-.011	.008	0
201	29	N24	-39.937	3.991	23.058	0	-.008	0
202	29	Totals:	0	1043.4	0			
203	29	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
204	30	N1	2.711	332.087	-1.255	-.002	0	-.021
205	30	N4	-5.515	326.207	-1.731	.011	0	.022
206	30	N2	2.804	326.207	2.987	-.01	0	0
207	30	N23	39.937	54.909	-23.058	-.011	.008	0
208	30	N24	-39.937	3.991	23.058	0	-.008	0
209	30	Totals:	0	1043.4	0			
210	30	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
211	31	N1	2.711	332.087	-1.255	-.002	0	-.021
212	31	N4	-5.515	326.207	-1.731	.011	0	.022
213	31	N2	2.804	326.207	2.987	-.01	0	0
214	31	N23	39.937	54.909	-23.058	-.011	.008	0
215	31	N24	-39.937	3.991	23.058	0	-.008	0
216	31	Totals:	0	1043.4	0			
217	31	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
218	32	N1	2.711	332.087	-1.255	-.002	0	-.021
219	32	N4	-5.515	326.207	-1.731	.011	0	.022
220	32	N2	2.804	326.207	2.987	-.01	0	0
221	32	N23	39.937	54.909	-23.058	-.011	.008	0
222	32	N24	-39.937	3.991	23.058	0	-.008	0
223	32	Totals:	0	1043.4	0			
224	32	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
225	33	N1	2.711	332.087	-1.255	-.002	0	-.021
226	33	N4	-5.515	326.207	-1.731	.011	0	.022
227	33	N2	2.804	326.207	2.987	-.01	0	0

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
228	33	N23	39.937	54.909	-23.058	-.011	.008	0
229	33	N24	-39.937	3.991	23.058	0	-.008	0
230	33	Totals:	0	1043.4	0			
231	33	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
232	34	N1	2.711	332.087	-1.255	-.002	0	-.021
233	34	N4	-5.515	326.207	-1.731	.011	0	.022
234	34	N2	2.804	326.207	2.987	-.01	0	0
235	34	N23	39.937	54.909	-23.058	-.011	.008	0
236	34	N24	-39.937	3.991	23.058	0	-.008	0
237	34	Totals:	0	1043.4	0			
238	34	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
239	35	N1	2.711	332.087	-1.255	-.002	0	-.021
240	35	N4	-5.515	326.207	-1.731	.011	0	.022
241	35	N2	2.804	326.207	2.987	-.01	0	0
242	35	N23	39.937	54.909	-23.058	-.011	.008	0
243	35	N24	-39.937	3.991	23.058	0	-.008	0
244	35	Totals:	0	1043.4	0			
245	35	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
246	36	N1	2.711	332.087	-1.255	-.002	0	-.021
247	36	N4	-5.515	326.207	-1.731	.011	0	.022
248	36	N2	2.804	326.207	2.987	-.01	0	0
249	36	N23	39.937	54.909	-23.058	-.011	.008	0
250	36	N24	-39.937	3.991	23.058	0	-.008	0
251	36	Totals:	0	1043.4	0			
252	36	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
253	37	N1	2.711	332.087	-1.255	-.002	0	-.021
254	37	N4	-5.515	326.207	-1.731	.011	0	.022
255	37	N2	2.804	326.207	2.987	-.01	0	0
256	37	N23	39.937	54.909	-23.058	-.011	.008	0
257	37	N24	-39.937	3.991	23.058	0	-.008	0
258	37	Totals:	0	1043.4	0			
259	37	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
260	38	N1	2.711	332.087	-1.255	-.002	0	-.021
261	38	N4	-5.515	326.207	-1.731	.011	0	.022
262	38	N2	2.804	326.207	2.987	-.01	0	0
263	38	N23	39.937	54.909	-23.058	-.011	.008	0
264	38	N24	-39.937	3.991	23.058	0	-.008	0
265	38	Totals:	0	1043.4	0			
266	38	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
267	39	N1	2.711	332.087	-1.255	-.002	0	-.021
268	39	N4	-5.515	326.207	-1.731	.011	0	.022
269	39	N2	2.804	326.207	2.987	-.01	0	0
270	39	N23	39.937	54.909	-23.058	-.011	.008	0
271	39	N24	-39.937	3.991	23.058	0	-.008	0
272	39	Totals:	0	1043.4	0			
273	39	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
274	40	N1	2.711	332.087	-1.255	-.002	0	-.021
275	40	N4	-5.515	326.207	-1.731	.011	0	.022
276	40	N2	2.804	326.207	2.987	-.01	0	0
277	40	N23	39.937	54.909	-23.058	-.011	.008	0
278	40	N24	-39.937	3.991	23.058	0	-.008	0
279	40	Totals:	0	1043.4	0			
280	40	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
281	41	N1	2.711	332.087	-1.255	-.002	0	-.021
282	41	N4	-5.515	326.207	-1.731	.011	0	.022
283	41	N2	2.804	326.207	2.987	-.01	0	0
284	41	N23	39.937	54.909	-23.058	-.011	.008	0

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
285	41	N24	-39.937	3.991	23.058	0	-.008	0
286	41	Totals:	0	1043.4	0			
287	41	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
288	42	N1	2.711	332.087	-1.255	-.002	0	-.021
289	42	N4	-5.515	326.207	-1.731	.011	0	.022
290	42	N2	2.804	326.207	2.987	-.01	0	0
291	42	N23	39.937	54.909	-23.058	-.011	.008	0
292	42	N24	-39.937	3.991	23.058	0	-.008	0
293	42	Totals:	0	1043.4	0			
294	42	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
295	43	N1	2.711	332.087	-1.255	-.002	0	-.021
296	43	N4	-5.515	326.207	-1.731	.011	0	.022
297	43	N2	2.804	326.207	2.987	-.01	0	0
298	43	N23	39.937	54.909	-23.058	-.011	.008	0
299	43	N24	-39.937	3.991	23.058	0	-.008	0
300	43	Totals:	0	1043.4	0			
301	43	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
302	44	N1	2.711	332.087	-1.255	-.002	0	-.021
303	44	N4	-5.515	326.207	-1.731	.011	0	.022
304	44	N2	2.804	326.207	2.987	-.01	0	0
305	44	N23	39.937	54.909	-23.058	-.011	.008	0
306	44	N24	-39.937	3.991	23.058	0	-.008	0
307	44	Totals:	0	1043.4	0			
308	44	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
309	45	N1	2.711	332.087	-1.255	-.002	0	-.021
310	45	N4	-5.515	326.207	-1.731	.011	0	.022
311	45	N2	2.804	326.207	2.987	-.01	0	0
312	45	N23	39.937	54.909	-23.058	-.011	.008	0
313	45	N24	-39.937	3.991	23.058	0	-.008	0
314	45	Totals:	0	1043.4	0			
315	45	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
316	46	N1	2.711	332.087	-1.255	-.002	0	-.021
317	46	N4	-5.515	326.207	-1.731	.011	0	.022
318	46	N2	2.804	326.207	2.987	-.01	0	0
319	46	N23	39.937	54.909	-23.058	-.011	.008	0
320	46	N24	-39.937	3.991	23.058	0	-.008	0
321	46	Totals:	0	1043.4	0			
322	46	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
323	47	N1	2.711	332.087	-1.255	-.002	0	-.021
324	47	N4	-5.515	326.207	-1.731	.011	0	.022
325	47	N2	2.804	326.207	2.987	-.01	0	0
326	47	N23	39.937	54.909	-23.058	-.011	.008	0
327	47	N24	-39.937	3.991	23.058	0	-.008	0
328	47	Totals:	0	1043.4	0			
329	47	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
330	48	N1	2.711	332.087	-1.255	-.002	0	-.021
331	48	N4	-5.515	326.207	-1.731	.011	0	.022
332	48	N2	2.804	326.207	2.987	-.01	0	0
333	48	N23	39.937	54.909	-23.058	-.011	.008	0
334	48	N24	-39.937	3.991	23.058	0	-.008	0
335	48	Totals:	0	1043.4	0			
336	48	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
337	49	N1	2.711	332.087	-1.255	-.002	0	-.021
338	49	N4	-5.515	326.207	-1.731	.011	0	.022
339	49	N2	2.804	326.207	2.987	-.01	0	0
340	49	N23	39.937	54.909	-23.058	-.011	.008	0
341	49	N24	-39.937	3.991	23.058	0	-.008	0

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
342	49	Totals:	0	1043.4	0			
343	49	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
344	50	N1	2.711	332.087	-1.255	-.002	0	-.021
345	50	N4	-5.515	326.207	-1.731	.011	0	.022
346	50	N2	2.804	326.207	2.987	-.01	0	0
347	50	N23	39.937	54.909	-23.058	-.011	.008	0
348	50	N24	-39.937	3.991	23.058	0	-.008	0
349	50	Totals:	0	1043.4	0			
350	50	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
351	51	N1	3.162	387.434	-1.464	-.002	0	-.024
352	51	N4	-6.433	380.574	-2.021	.013	0	.025
353	51	N2	3.272	380.574	3.485	-.011	0	0
354	51	N23	46.599	64.06	-26.904	-.013	.01	0
355	51	N24	-46.599	4.657	26.904	0	-.01	0
356	51	Totals:	0	1217.3	0			
357	51	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
358	52	N1	3.48	367.863	86.932	.661	.005	-.025
359	52	N4	-6.069	361.35	86.086	.676	.015	.024
360	52	N2	2.59	361.35	92.141	.652	-.02	0
361	52	N23	44.245	60.824	6.633	-.013	.019	0
362	52	N24	-44.245	4.421	9.23	0	-.009	0
363	52	Totals:	0	1155.809	281.022			
364	52	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
365	53	N1	-41.044	367.863	74.885	.572	-.006	.308
366	53	N4	-49.998	361.35	74.173	.587	.02	.355
367	53	N2	-41.537	361.35	80.57	.564	-.014	.331
368	53	N23	28.157	60.824	2.322	-.013	.012	0
369	53	N24	-36.088	4.421	11.416	0	-.008	0
370	53	Totals:	-140.511	1155.809	243.365			
371	53	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
372	54	N1	-73.763	367.863	42.403	.329	-.015	.552
373	54	N4	-82.164	361.35	41.876	.343	.02	.597
374	54	N2	-73.7	361.35	48.3	.322	-.005	.573
375	54	N23	16.38	60.824	-9.455	-.013	.003	0
376	54	N24	-30.118	4.421	17.386	0	-.006	0
377	54	Totals:	-243.365	1155.809	140.511			
378	54	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
379	55	N1	-85.917	367.863	-1.815	-.003	-.02	.642
380	55	N4	-93.955	361.35	-2.158	.011	.014	.686
381	55	N2	-85.287	361.35	3.973	-.009	.006	.661
382	55	N23	12.069	60.824	-25.543	-.013	-.003	0
383	55	N24	-27.932	4.421	25.543	0	-.006	0
384	55	Totals:	-281.022	1155.809	0			
385	55	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
386	56	N1	-74.24	367.863	-45.919	-.334	-.02	.554
387	56	N4	-82.203	361.35	-46.128	-.32	.005	.597
388	56	N2	-73.184	361.35	-40.531	-.34	.015	.572
389	56	N23	16.38	60.824	-41.631	-.013	-.006	0
390	56	N24	-30.118	4.421	33.699	0	-.006	0
391	56	Totals:	-243.365	1155.809	-140.511			
392	56	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
393	57	N1	-41.871	367.863	-78.09	-.577	-.014	.311
394	57	N4	-50.066	361.35	-78.25	-.563	-.006	.355
395	57	N2	-40.643	361.35	-73.287	-.583	.02	.329
396	57	N23	28.157	60.824	-53.407	-.013	-.006	0
397	57	N24	-36.088	4.421	39.669	0	-.008	0
398	57	Totals:	-140.511	1155.809	-243.365			

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
399	57	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
400	58	N1	2.525	367.863	-89.713	-.665	-.005	-.021
401	58	N4	-6.147	361.35	-89.923	-.651	-.015	.024
402	58	N2	3.622	361.35	-85.523	-.673	.02	-.002
403	58	N23	44.245	60.824	-57.719	-.013	0	0
404	58	N24	-44.245	4.421	41.855	0	-.009	0
405	58	Totals:	0	1155.809	-281.022			
406	58	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
407	59	N1	47.049	367.863	-77.665	-.576	.006	-.354
408	59	N4	37.781	361.35	-78.01	-.561	-.02	-.307
409	59	N2	47.749	361.35	-73.952	-.585	.014	-.333
410	59	N23	60.333	60.824	-53.407	-.013	.007	0
411	59	N24	-52.401	4.421	39.669	0	-.011	0
412	59	Totals:	140.511	1155.809	-243.365			
413	59	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
414	60	N1	79.768	367.863	-45.184	-.333	.015	-.598
415	60	N4	69.947	361.35	-45.713	-.318	-.02	-.55
416	60	N2	79.912	361.35	-41.682	-.344	.005	-.575
417	60	N23	72.109	60.824	-41.631	-.013	.015	0
418	60	N24	-58.371	4.421	33.699	0	-.012	0
419	60	Totals:	243.365	1155.809	-140.511			
420	60	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
421	61	N1	91.922	367.863	-.966	-.001	.02	-.689
422	61	N4	81.738	361.35	-1.679	.014	-.014	-.638
423	61	N2	91.499	361.35	2.644	-.013	-.006	-.663
424	61	N23	76.421	60.824	-25.543	-.013	.022	0
425	61	N24	-60.557	4.421	25.543	0	-.013	0
426	61	Totals:	281.022	1155.809	0			
427	61	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
428	62	N1	80.245	367.863	43.139	.33	.02	-.6
429	62	N4	69.986	361.35	42.291	.346	-.005	-.549
430	62	N2	79.396	361.35	47.149	.319	-.015	-.573
431	62	N23	72.109	60.824	-9.455	-.013	.025	0
432	62	N24	-58.371	4.421	17.386	0	-.012	0
433	62	Totals:	243.365	1155.809	140.511			
434	62	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
435	63	N1	47.875	367.863	75.309	.573	.014	-.357
436	63	N4	37.849	361.35	74.413	.588	.006	-.307
437	63	N2	46.855	361.35	79.905	.562	-.02	-.33
438	63	N23	60.333	60.824	2.322	-.013	.024	0
439	63	N24	-52.401	4.421	11.416	0	-.011	0
440	63	Totals:	140.511	1155.809	243.365			
441	63	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
442	64	N1	2.219	213.288	87.519	.66	.005	-.015
443	64	N4	-3.504	209.512	86.893	.669	.015	.014
444	64	N2	1.285	209.512	90.746	.655	-.02	.001
445	64	N23	25.642	35.266	17.364	-.007	.015	0
446	64	N24	-25.642	2.564	-1.501	0	-.005	0
447	64	Totals:	0	670.141	281.022			
448	64	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
449	65	N1	-42.305	213.288	75.472	.571	-.006	.317
450	65	N4	-47.432	209.512	74.981	.58	.02	.344
451	65	N2	-42.842	209.512	79.175	.567	-.014	.331
452	65	N23	9.557	35.266	13.054	-.007	.008	0
453	65	N24	-17.488	2.564	.684	0	-.004	0
454	65	Totals:	-140.511	670.141	243.365			
455	65	COG (ft):	X: .339	Y: 7.115	Z: -1.169			

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
456	66	N1	-75.024	213.288	42.989	.329	-.015	.56
457	66	N4	-79.599	209.512	42.684	.337	.02	.586
458	66	N2	-75.004	209.512	46.906	.326	-.005	.572
459	66	N23	-2.218	35.266	1.279	-.007	0	0
460	66	N24	-11.52	2.564	6.653	0	-.002	0
461	66	Totals:	-243.365	670.141	140.511			
462	66	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
463	67	N1	-87.178	213.288	-1.23	-.002	-.02	.65
464	67	N4	-91.389	209.512	-1.35	.006	.014	.674
465	67	N2	-86.591	209.512	2.58	-.004	.006	.66
466	67	N23	-6.529	35.266	-14.807	-.007	-.007	0
467	67	N24	-9.335	2.564	14.807	0	-.002	0
468	67	Totals:	-281.022	670.141	0			
469	67	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
470	68	N1	-75.501	213.288	-45.336	-.333	-.02	.562
471	68	N4	-79.637	209.512	-45.32	-.325	.005	.586
472	68	N2	-74.489	209.512	-41.924	-.335	.015	.57
473	68	N23	-2.218	35.266	-30.892	-.007	-.01	0
474	68	N24	-11.52	2.564	22.96	0	-.002	0
475	68	Totals:	-243.365	670.141	-140.511			
476	68	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
477	69	N1	-43.13	213.288	-77.508	-.574	-.014	.32
478	69	N4	-47.5	209.512	-77.442	-.567	-.006	.344
479	69	N2	-41.95	209.512	-74.678	-.577	.02	.328
480	69	N23	9.557	35.266	-42.667	-.007	-.009	0
481	69	N24	-17.488	2.564	28.929	0	-.004	0
482	69	Totals:	-140.511	670.141	-243.365			
483	69	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
484	70	N1	1.267	213.288	-89.131	-.663	-.005	-.012
485	70	N4	-3.582	209.512	-89.115	-.655	-.015	.014
486	70	N2	2.315	209.512	-86.912	-.667	.02	-.002
487	70	N23	25.642	35.266	-46.978	-.007	-.005	0
488	70	N24	-25.642	2.564	31.114	0	-.005	0
489	70	Totals:	0	670.141	-281.022			
490	70	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
491	71	N1	45.791	213.288	-77.084	-.574	.006	-.344
492	71	N4	40.347	209.512	-77.203	-.565	-.02	-.317
493	71	N2	46.442	209.512	-75.341	-.579	.014	-.332
494	71	N23	41.728	35.266	-42.667	-.007	.003	0
495	71	N24	-33.796	2.564	28.929	0	-.007	0
496	71	Totals:	140.511	670.141	-243.365			
497	71	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
498	72	N1	78.51	213.288	-44.602	-.331	.015	-.587
499	72	N4	72.513	209.512	-44.906	-.322	-.02	-.558
500	72	N2	78.604	209.512	-43.072	-.338	.005	-.573
501	72	N23	53.502	35.266	-30.892	-.007	.011	0
502	72	N24	-39.764	2.564	22.96	0	-.008	0
503	72	Totals:	243.365	670.141	-140.511			
504	72	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
505	73	N1	90.663	213.288	-.382	0	.02	-.677
506	73	N4	84.304	209.512	-.871	.009	-.014	-.647
507	73	N2	90.191	209.512	1.254	-.008	-.006	-.661
508	73	N23	57.813	35.266	-14.807	-.007	.018	0
509	73	N24	-41.949	2.564	14.807	0	-.009	0
510	73	Totals:	281.022	670.141	0			
511	73	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
512	74	N1	78.986	213.288	43.723	.33	.02	-.589

Joint Reactions (By Combination) (Continued)

	LC	Joint Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
513	74	N4	72.552	209.512	43.099	.339	-.005	-.558
514	74	N2	78.089	209.512	45.757	.322	-.015	-.571
515	74	N23	53.502	35.266	1.279	-.007	.021	0
516	74	N24	-39.764	2.564	6.653	0	-.008	0
517	74	Totals:	243.365	670.141	140.511			
518	74	COG (ft):	X: .339	Y: 7.115	Z: -1.169			
519	75	N1	46.615	213.288	75.895	.572	.014	-.347
520	75	N4	40.415	209.512	75.221	.581	.006	-.316
521	75	N2	45.55	209.512	78.512	.565	-.02	-.329
522	75	N23	41.728	35.266	13.054	-.007	.02	0
523	75	N24	-33.796	2.564	.684	0	-.007	0
524	75	Totals:	140.511	670.141	243.365			
525	75	COG (ft):	X: .339	Y: 7.115	Z: -1.169			

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [l...	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	MP1A	PIPE_4.0	.068	13	61	.005	13		61	54302.957	93240	10.631	10.631	2....	H1-1b
2	MP1B	PIPE_4.0	.068	13	54	.005	13		54	54302.957	93240	10.631	10.631	2....	H1-1b
3	MP1C	PIPE_4.0	.067	13	59	.005	13		63	54302.957	93240	10.631	10.631	2....	H1-1b
4	M4	L3X3X4	.004	1	24	.001	2	z	24	42699.855	46656	1.688	3.756	1....	H2-1
5	M5	L3X3X4	.004	1	24	.002	0	y	24	42699.855	46656	1.688	3.756	1....	H2-1
6	M6	L3X3X4	.004	1	24	.002	2	z	24	42699.855	46656	1.688	3.756	1....	H2-1
7	M7	L3X3X4	.004	1	24	.002	0	y	24	42699.855	46656	1.688	3.756	1....	H2-1
8	M8	L3X3X4	.004	1	24	.002	0	z	24	42699.855	46656	1.688	3.756	1....	H2-1
9	MP2C	PIPE_2.0	.039	2.583	24	.012	2.583		63	26521.424	32130	1.872	1.872	1....	H1-1b

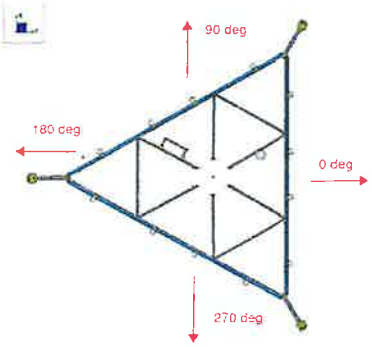
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	3/19/2024
Site Name:	OLD SAYBROOK CTR CT - A		
MDG #:	5000245197		
Fuze ID #:	17226368	Page:	1
			Version 1.01

I. Mount-to-Tower Connection Check

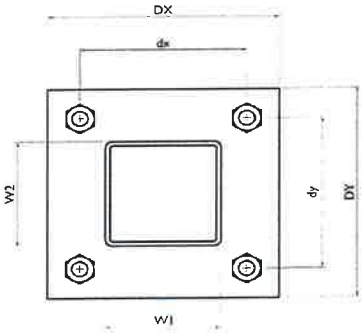
Custom Orientation Required — Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N1	0
N2	0
N4	0



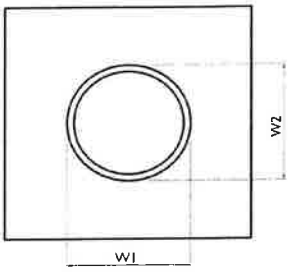
Tower Connection Bolt Checks — Yes

Bolt Orientation — Vertical (bottom)



Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	9
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	9
Bolt Type:	A325N
Bolt Diameter (in):	0.75
Required Tensile Strength / bolt (kips):	0.6
Required Shear Strength / bolt (kips):	0.0
Tensile Capacity / bolt (kips):	29.8
Shear Capacity / bolt (kips):	17.9
Bolt Overall Utilization:	**1.9%**

Tower Connection Baseplate Checks — Yes



Connecting Standoff Member Shape:	Pipe
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	12
Plate Height, D_y (in):	12
W1 = Diameter (in):	4
W2 = N/A:	
Member Thickness (in):	0.21
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	1
Length of Yield Line, L_y (in):	10.34
Bolt Eccentricity, e (in):	4.36
M_u (kip-in):	2.46
Phi*M_n (kip-in):	83.78
Plate Bending Utilization:	**2.9%**

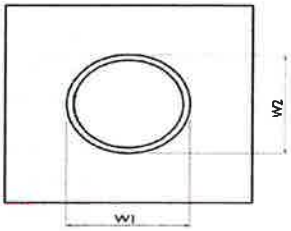
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	3/19/2024
Site Name:	OLD SAYBROOK CTR CT - A		
PSLC #:	5000245197		
Fuze ID #:	17226368	Page:	2

Version 1.01

Tower Connection Weld Checks

	Yes
Weld Shape:	Circle
Weld Stiffener Configuration:	None
Stiffener Notch Length, n (in):	
Weld Size (1/16 in):	3
W1 = Diameter (in):	4
W2 = Diameter (in):	4
Weld Total Length (in):	12.57
Z_x (in^3/in):	12.57
Z_y (in^3/in):	12.57
J_p (in^4/in):	50.27
c_x (in)	2.21
c_y (in)	2.21
Required combined strength (kip/in):	0.58
Weld Capacity (kip/in):	4.18
Weld Utilization:	**13.9%**



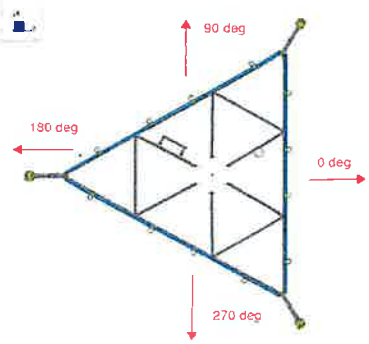
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	3/19/2024
Site Name:	OLD SAYBROOK CTR CT - A		
MDG #:	5000245197		
Fuze ID #:	17226368	Page:	1
			Version 1.01

I. Mount-to-Tower Connection Check: Proposed Equipment Pipe

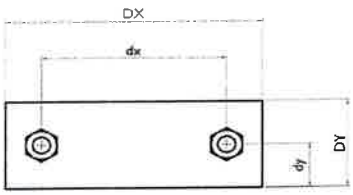
Custom Orientation Required — Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N23	0
N24	0



Tower Connection Bolt Checks — Yes

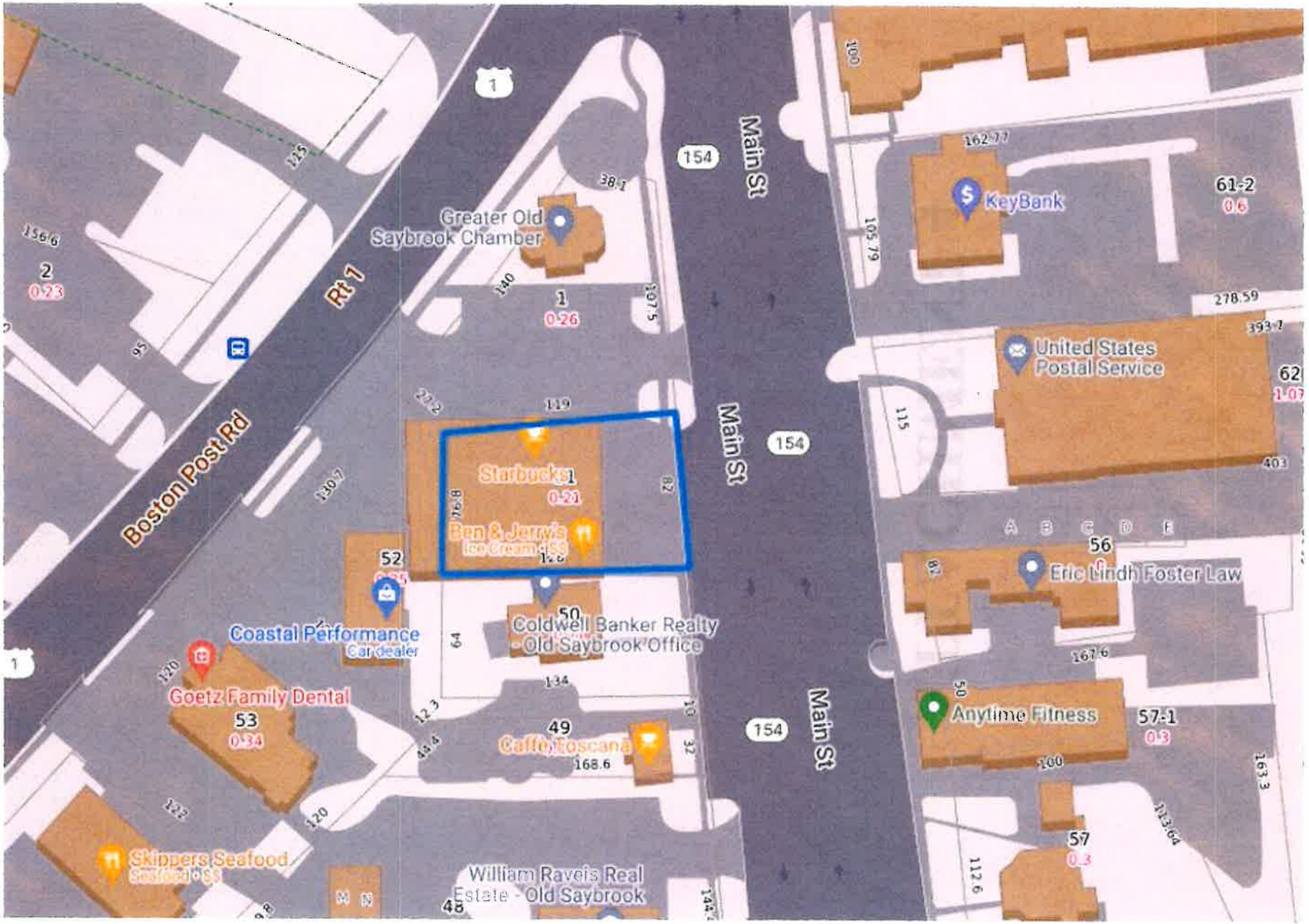
Bolt Orientation — Vertical (top)



Bolt Quantity per Reaction:	2 (Horizontal)
d_x (in) *(Delta X of typ. bolt config. sketch)*:	5.75
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	1
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	0.2
Required Shear Strength / bolt (kips):	0.1
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	0.8%

Tower Connection Baseplate Checks — No

ATTACHMENT 4


Boston Post Rd
Rt 1
Main St
154
Greater Old Saybrook Chamber
KeyBank
United States Postal Service
Starbucks
Ben & Jerry's
Coastal Performance
Car dealer
Coldwell Banker Realty - Old Saybrook Office
Eric Lindh Foster Law
Goetz Family Dental
Caffe Toscana
Anytime Fitness
Skippers Seafood
Seafood · $$
William Raveis Real Estate - Old Saybrook

19 MAIN ST

Location	19 MAIN ST	**MBLU**	037/ 051/ / /
Acct#	00453000	**Owner**	231ST SRS LLC
Assessment	$1,761,700	**Appraisal**	$2,516,700
PID	3607	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2023	$1,904,200	$612,500	$2,516,700
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2023	$1,332,900	$428,800	$1,761,700

Owner of Record

Owner	231ST SRS LLC
Co-Owner	
Address	PO BOX 656 YONKERS, NY 10702

Sale Price	$3,000,000
Certificate	
Book & Page	0667/0414
Sale Date	08/12/2021
Instrument	MQ

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
DCR1519 MAIN LLC	$2,100,000		0623/1027	00	05/15/2017
PROSPECT REALTY PARTNERS LLC	$240,000		0340/0961		01/10/1997

Building Information

Building 1 : Section 1

Year Built: 1940
Living Area: 6,660

Building Attributes	
Field	**Description**
Style:	Strip Stores

ATTACHMENT 5

Verizon/Old Saybrook CTR

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford. CT 06103	3	3	quadient CORRECTION IMI $003.34 04/18/2024 ZIP 06101 043M32206619 US POSTAGE
	Postmaster, per *(name of receiving employee)*		

	USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.		Carl Fortuna, First Selectman Town of Old Saybrook 302 Main Street Old Saybrook, CT 06475				
2.		Christina Costa, Town Planner/Zoning Enforcement Officer Town of Old Saybrook 302 Main Street Old Saybrook, CT 06475				
3.		231st SRS LLC P.O. Box 656 Yonkers, NY 10702				
4.						
5.						
6.						

OLD STATE HOUSE POST OFFICE
APR 18 2024
HARTFORD, CT 06103

See Reverse for Instructions