

August 7, 2023

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  
3345 Winsted Road (a.k.a. 350 Burr Mountain Road), Torrington, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced address (the “Property”). Cellco’s facility consists of antennas and remote radio heads attached to a tower. Equipment associated with the facility is located on the ground adjacent to the tower. Cellco’s facility was approved by the Siting Council (“Council”) in April of 2004 (Docket No. 277). A copy of the Council’s Docket No. 277 Decision and Order is included in Attachment 1.

Cellco’s proposed modification involves the installation of two (2) interference mitigation filters (“Filters”) on Cellco’s existing antenna platform and mounting assembly. The filter specification sheet 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 Torrington’s Chief Elected Official and Land Use Officer.

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 tower. The Filters will be installed on Cellco’s existing antenna platform and mounting assembly.

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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 tower, foundation, antenna platform and mounting assembly can support Cellco's proposed modifications. A copy of the SA and MA are included in Attachment 3.

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

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Elinor Carbone, Mayor  
Jeremy Leifert, City Planner  
O & G Industries, Inc., Property Owner  
Kamoya Bautista, Verizon Wireless

# **ATTACHMENT 1**

<b>DOCKET NO. 277</b> – Sprint Spectrum, L.P. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility in Torrington, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		April 26, 2004

## Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Sprint Spectrum, L.P. d/b/a Sprint PCS for the construction, maintenance and operation of a wireless telecommunications facility at Candidate A, located off Burr Mountain Road, Torrington, Connecticut. The Council denies certification of Candidate B located at Jordan Lane and Laurelton Drive, Torrington, Connecticut.

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

1. The tower shall be constructed no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Sprint and other entities, both public and private, but such tower, including all appurtenances attached thereto, shall not exceed a height of 198 feet above ground level and shall be designed with a yield point to reduce the area of the setback radius so that it shall be contained within the property of O&G Industries.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a. a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and
  - b. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.
7. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
8. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.
9. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Waterbury Republican American and the Torrington Register Citizen.

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

The parties and intervenors to this proceeding are:

<u>Applicant</u>	<u>Its Representative</u>
Sprint Spectrum, L.P. d/b/a Sprint PCS	Thomas J. Regan, Esq. Brown Rudnick Berlack Israels CityPlace 1

	185 Asylum Street Hartford, CT 06103
<b><u>Intervenor</u></b>  Cellco Partnership d/b/a Verizon Wireless	<b><u>Its Representative</u></b>  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597 (860) 275-8200

# **ATTACHMENT 2**

# BSF0020F3V1-1

## TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

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

### FEATURES

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



### TECHNICAL SPECIFICATIONS

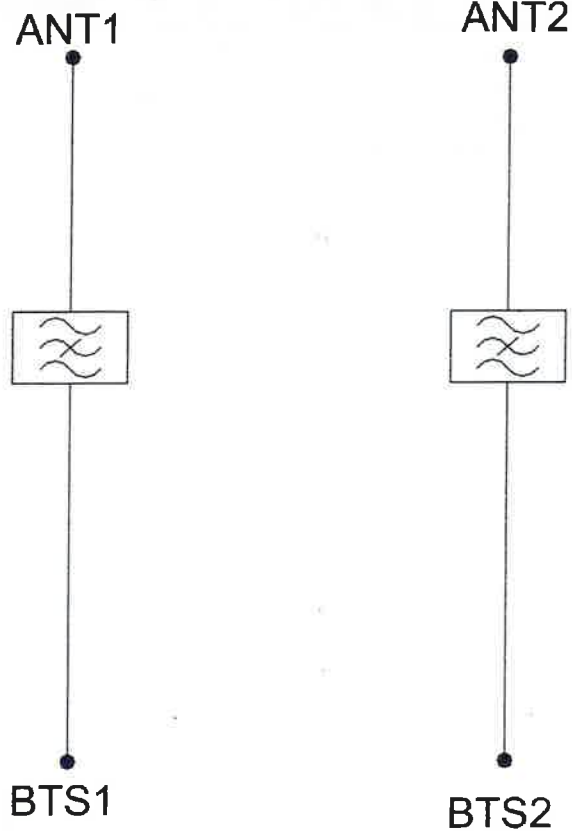
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
<b>DC / AISG</b>		
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	
<b>ENVIRONMENTAL</b>		
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	
<b>MECHANICAL</b>		
Dimensions H x D x W	269 x 277 x 80mm   10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg   17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	



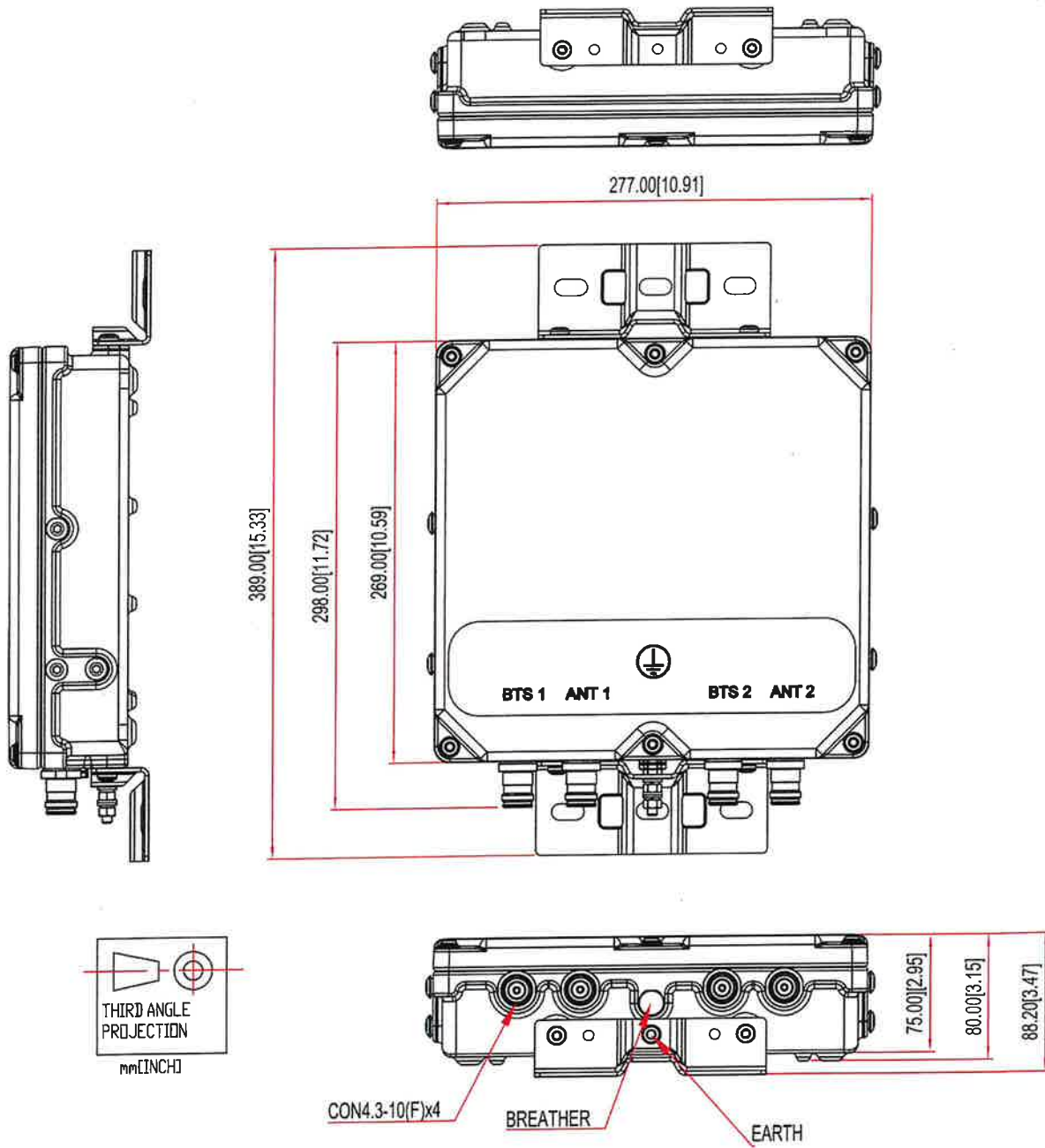
## ORDERING INFORMATION

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

ELECTRICAL BLOCK DIAGRAM



**MECHANICAL BLOCK DIAGRAM**



# **ATTACHMENT 3**



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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## **Structural Analysis Report**

**Existing 196 ft Valmont Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT46138-A**

**Customer Site Name: Torrington-Oandg Ind Inc**

**Carrier Name: Verizon (App#: 232438-2)**

**Carrier Site ID / Name: 5000244643 / Torrington N CT**

**Site Location: 350 Burr Mountain Rd**

**Torrington, Connecticut**

**Litchfield County**

**Latitude: 41.873255**

**Longitude: -73.088405**



### **Analysis Result:**

**Max Structural Usage: 84.3% [Pass]**

**Max Foundation Usage: 71.0% [Pass]**

**Additional Usage Caused by New Mount/Mount Modification: N/A**

**Report Prepared By : Changzhi Zang**

## Introduction

The purpose of this report is to summarize the analysis results on the 196 ft Valmont Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Valmont, Order # 17566-64 Dated 08/03/2004
<b>Foundation Drawing</b>	Valmont, Eng File # A-402723 Dated 07/16/2004
<b>Geotechnical Report</b>	Geotechnical Report by Dr. Clarence Welti, P.E, P.C, Tower- CT33XC079 Dated 06/18/2004
<b>Modification Drawings</b>	Vertical Solutions, Project # 130499 Dated 06/28/2013
<b>Mount Analysis</b>	N/A

## Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

<b>Wind Speed Used in the Analysis:</b>	115.0 mph (3-Sec. Gust) (Ultimate wind speed)
<b>Wind Speed with Ice:</b>	50 mph (3-Sec. Gust) with 1" radial ice concurrent
<b>Service Load Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
<b>Exposure Category:</b>	C
<b>Risk Category:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_s = 0.175$ , $S_1 = 0.054$

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

## Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	198.0	1	RFI - BA80-41-DIN - Omni	(1) Pipe mount	(1) 7/8"	Torrington P.D.
2	191.5	3	RFS - APXVTM14-C-120 - Panel	Low Profile Platform	(6) 1 5/8" (4) 1-1/4" Fiber	Sprint
3		3	RFS - APXVSP18-C-A20 - Panel			
4		3	ALU - 800MHz - RRU			
5		3	ALU - 1900MHz - RRU			
6		3	ALU - RRH8x20-25 - RRU			
7		3	ALU - 800MHz Filter - RRU Filter			
8		4	RFS - ACU-A20-N - RET			
-		185.0	3			
-	6		Andrew JAHH-65C-R3B-V2 - Panel			
-	3		Samsung MT6407-77A - Panel			
-	3		Commscope CBC78T-DS-43-2X			
-	3		Samsung Telecommunications RFV01U-D2A			
-	3		Samsung RFV01U-1A			
-	-	1	RFS DB-C1-12C-24AB-OZ			
17	175.0	6	Kathrein 800-10965- Panel	Low Profile Platform SitePro1 HRK12 (Handrail Kit)	(12) 1 5/8" (2) 2" Conduit (Housing (4) 3/4" & (2) 7/16" Fiber lines) (1) 3" Conduit (Housing (2) 3/4" & (1) 7/16" Fiber lines)	AT&T
18		2	Raycap DC6-48-60-18-8C-EV			
19		3	Ericsson RRUS 32 B30			
20		3	Ericsson RRUS 4478 B14			
21		3	Ericsson RRUS 4449 B5/B12			
22		12	Powerwave LGP13519 Diplexer			
23		12	Powerwave LGP21401 TMA			
24		3	Powerwave 7770- Panel			
25		3	Ericsson RRUS 12			
26		1	Raycap DC6-48-60-18-8F			
27	155.0	3	Commscope VV-65A-R1 - Panel	(3) T-Arms w/ Handrail kit & v-brace kit	(8) 1 5/8" (3) 1 5/8" Fiber (1) 1.9" Fiber	T-Mobile
28		3	Ericsson AIR6419 B41 - Panel			
29		3	RFS APXVAARR24_43-U-NA20 - Panel			
30		3	Ericsson KRY 112 144/1			
31		3	Ericsson 4449 B71 + B85			
32		3	Ericsson 4460 B25 + B66			
33	145.0	3	JMA Wireless MX08FRO665-21 - Panel	(1) Commscope MC-PK8-DSH (Platform w/ Handrails)	(1) 1.6" Hybrid	Dish Wireless
34		3	Fujitsu TA08025-B605 - RRU			
35		3	Fujitsu TA08025-B604 - RRU			
36		1	Raycap RDIDC-9181-PF-48 - OVP			
37	132.5	1	Telewave - ANT150F2 - Omni	(1) Standoff	(1) 7/8"	Torrington P.D.
38	116.5	5	14' Omni	(6) Standoff	(6) 1/2"	
39	111.5	1	4' Omni			
40	100.0	1	Maxrad - MPRD - Dish	(1) Standoff	(2) CAT5e	

**Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines**

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
9	185.0	3	Antel BXA-70063-6CF-EDIN-2 - Panel	Modified Platform with Handrail w/ (3) Commscope BSAMNT-SBS-2-2 Brackets	(6) 1 5/8" (1) 1- 5/8" Hybrid	Verizon
10		6	Andrew JAHH-65C-R3B-V2 - Panel			
11		3	Samsung MT6407-77A - Panel			
12		3	Commscope CBC78T-DS-43-2X - Diplexer			
13		3	Samsung Telecommunications RFV01U-D2A - RRU			
14		3	Samsung RFV01U-1A - RRU			
15		1	RFS DB-C1-12C-24AB-OZ - OVP			
16		2	Kaelus BSF0020F3V1-1 - Filter			

See the attached coax layout for the line placement considered in the analysis.



## **Analysis Results**

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	<b>84.3%</b>	<b>67.3%</b>	<b>65.6%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	6590.6	46.4	83.0

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

## **Service Load Condition (Rigidity):**

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.8414 degrees under the operational wind speed as specified in the Analysis Criteria.

## **Conclusions**

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

## Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

## Usage Diagram - Max Ratio 76.92% at 136.3ft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)

**Code:** EIA/TIA-222-H  
**Exposure:** C  
**Gh:** 1.1

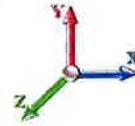
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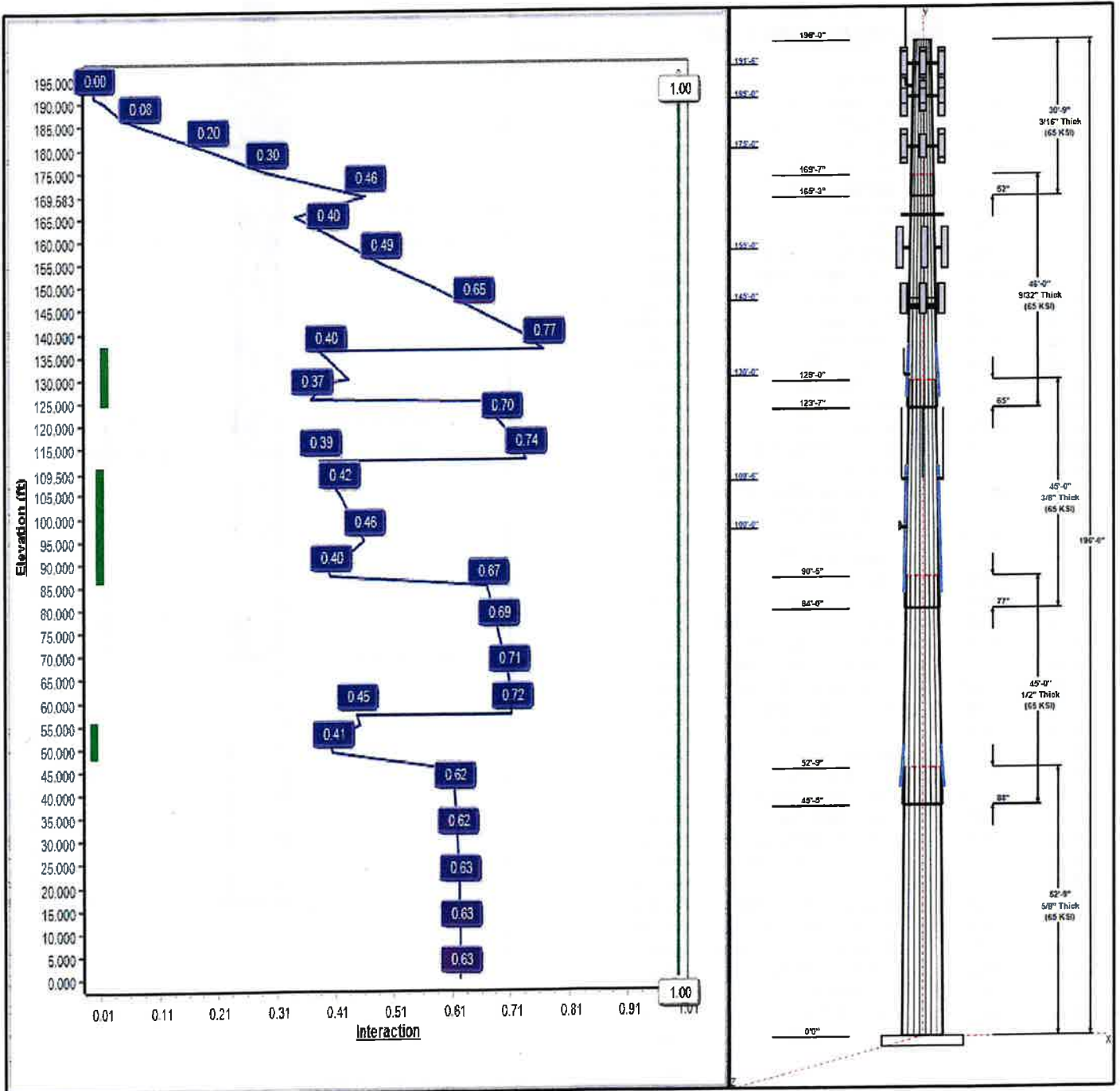
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.00

**Load Case : 1.2D + 1.0W 115 mph Wind**



**Iterations:** 27

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**Structure: CT46138-A-SBA**

**Type:** Tapered  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 16 Sided  
**Taper:** 0.21000

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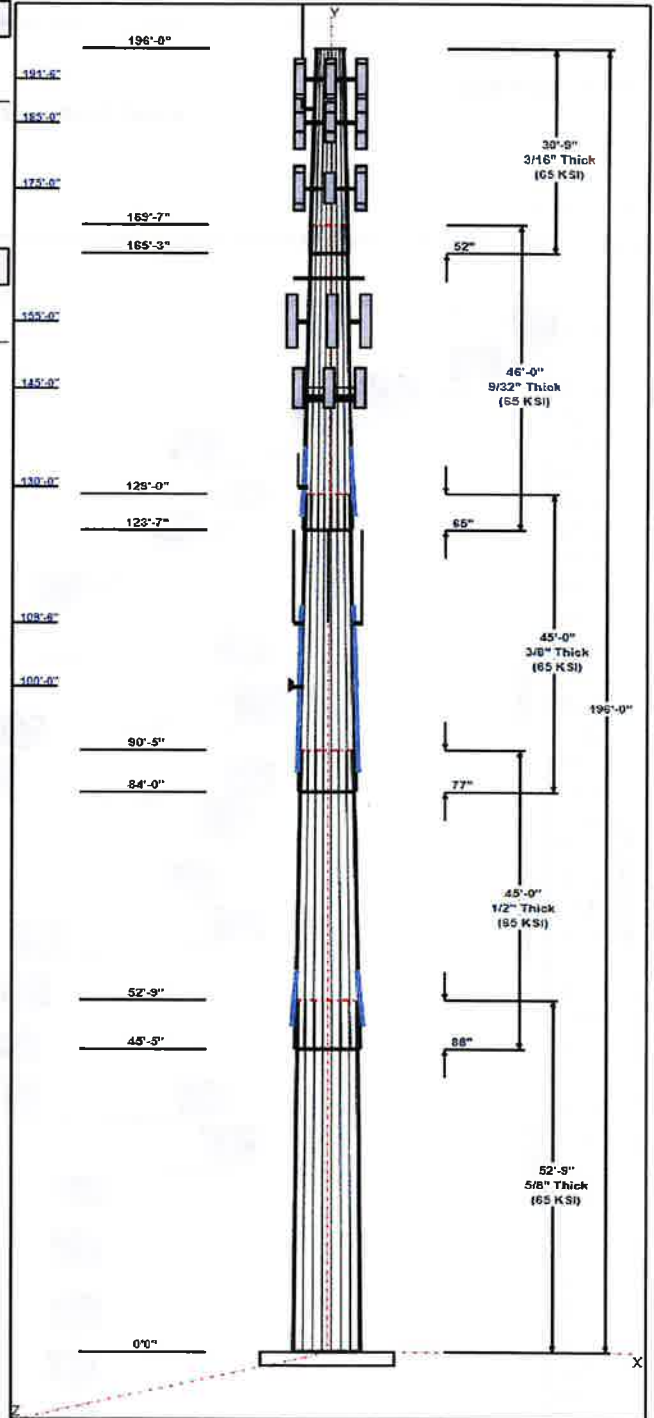


**Shaft Properties**

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	52.75	48.92	60.00	0.625		0.21000	65
2	45.00	42.01	51.46	0.500	Slip	0.21000	65
3	45.00	34.66	44.11	0.375	Slip	0.21000	65
4	46.00	26.70	36.36	0.281	Slip	0.21000	65
5	30.75	21.53	27.98	0.188	Slip	0.21000	65

**Discrete Appurtenances**

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
196.00	196.00	1	6' Lightning rod	Torrington P.D.
191.50	191.50	3	APXVTM14-C-120	Sprint
191.50	191.50	3	APXVSP18-C-A20	Sprint
191.50	191.50	3	800MHz - RRU	Sprint
191.50	191.50	3	1900MHz - RRU	Sprint
191.50	191.50	3	RRH8x20-25 - RRU	Sprint
191.50	191.50	3	800MHz Filter	Sprint
191.50	191.50	4	ACU-A20-N - RET	Sprint
191.50	191.50	1	Low Profile Platform	Sprint
187.00	197.33	1	BA80-41-DIN	Torrington P.D.
187.00	187.00	1	Pipe mount	Torrington P.D.
185.00	185.00	6	JAHH-65C-R3B-V2	Verizon
185.00	185.00	3	MT6407-77A	Verizon
185.00	185.00	3	CBC23SR-43	Verizon
185.00	185.00	3	RFV01U-D2A	Verizon
185.00	185.00	3	RFV01U-D1A	Verizon
185.00	185.00	1	DB-C1-12C-24AB-0Z	Verizon
185.00	185.00	1	HRK12-HD	Verizon
185.00	185.00	2	Kaelus BSF0020F3V1-1	Verizon
185.00	185.00	3	BXA-70063 6CF_2	Verizon
185.00	185.00	1	Low Profile	Verizon
175.00	175.00	3	Powerwave 7770	AT&T
175.00	175.00	2	Raycap	AT&T
175.00	175.00	3	Ericsson RRUS 32 B30	AT&T
175.00	175.00	3	Ericsson RRUS 4478 B14	AT&T
175.00	175.00	3	Ericsson RRUS 4449	AT&T
175.00	175.00	12	Powerwave LGP13519	AT&T
175.00	175.00	12	Powerwave LGP21401	AT&T
175.00	175.00	6	Kathrein 800-10965	AT&T
175.00	175.00	1	HRK12 (Handrail Kit)	AT&T
175.00	175.00	3	RRUS-12	AT&T
175.00	175.00	1	DC6-48-60-18-8F	AT&T
175.00	175.00	1	Low Profile Platform	AT&T
161.50	161.50	1	Low Profile Platform	Vacant
155.00	155.00	3	Commscope VV-65A-R1	T-Mobile
155.00	155.00	3	Ericsson AIR6419 B41	T-Mobile
155.00	155.00	3	RFS	T-Mobile
155.00	155.00	3	Ericsson KRY 112 144/1	T-Mobile
155.00	155.00	3	Ericsson 4449 B71 + B85	T-Mobile
155.00	155.00	3	Ericsson 4460 B25 + B66	T-Mobile
155.00	155.00	3	T-Arms w/ Handrail kit &	T-Mobile
145.00	145.00	3	MX08FRO665-21	Dish Wireless
145.00	145.00	1	MC-PK8-DSH	Dish Wireless
145.00	145.00	3	TA08025-B605	Dish Wireless



**Structure: CT46138-A-SBA**

**Type:** Tapered  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 16 Sided  
**Taper:** 0.21000

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145.00	145.00	3	TA08025-B604	Dish Wireless
145.00	145.00	1	RDIDC-9181-PF-48	Dish Wireless
130.00	132.50	1	ANT150F2	Torrington P.D.
130.00	130.00	1	Standoff	Torrington P.D.
109.50	116.50	5	14' Omni	Torrington P.D.
109.50	111.50	1	4' Omni	Torrington P.D.
109.50	109.50	5	Standoff	Torrington P.D.
109.50	109.50	1	Standoff	Torrington P.D.
100.00	100.00	1	MPRD	Torrington P.D.
100.00	100.00	1	Standoff	Torrington P.D.

**Linear Appurtenances**

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	191.50	Inside	1 5/8" Coax	Sprint
0.00	191.50	Inside	1-1/4" Fiber	Sprint
0.00	187.00	Inside	7/8" Coax	Torrington P.D.
0.00	185.00	Inside	1 5/8" Coax	Verizon
0.00	185.00	Inside	1 5/8" Hybrid	Verizon
0.00	175.00	Inside	1 5/8" Coax	AT&T
0.00	175.00	Outside	2" Conduit	AT&T
0.00	175.00	Outside	3" Conduit	AT&T
0.00	175.00	Inside	3/4" DC	AT&T
0.00	175.00	Inside	7/16" Fiber	AT&T
0.00	155.00	Inside	1 5/8" Coax	T-Mobile
0.00	155.00	Inside	1 5/8" Fiber	T-Mobile
0.00	155.00	Inside	1.9" Fiber	T-Mobile
0.00	145.00	Inside	1.6" Hybrid	Dish Wireless
0.00	130.00	Outside	7/8" Coax	Torrington P.D.
0.00	109.50	Inside	1/2" Coax	Torrington P.D.
0.00	100.00	Inside	CAT5e	Torrington P.D.

**Anchor Bolts**

Qty	Specifications	Grade (ksi)	Arrangement
28	2.25" 18J	75.0	Radial

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	73.7	45.0	Polygon

**Reactions**

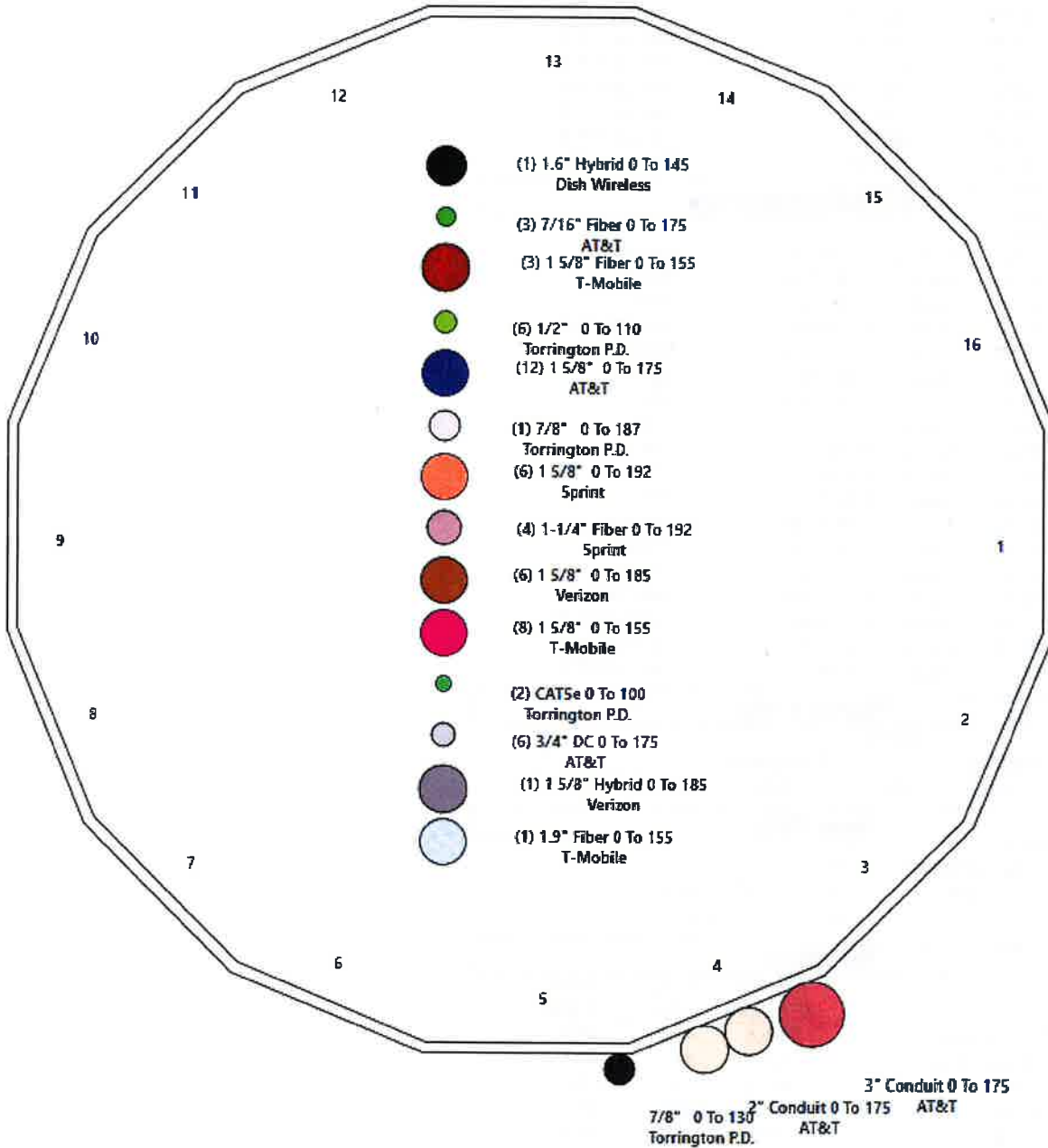
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 115 mph Wind	6590.6	46.4	83.0
0.9D + 1.0W 115 mph Wind	6496.1	46.4	62.3
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1893.3	13.3	108.6
1.2D + 1.0Ev + 1.0Eh	152.5	0.9	85.8
0.9D + 1.0Ev + 1.0Eh	151.0	0.9	64.9
1.0D + 1.0W 60 mph Wind	1592.8	11.3	69.3

# Structure: CT46138-A-SBA - Coax Line Placement

**Type:** Monopole  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)

7/7/2023

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## Shaft Properties

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	16	52.750	0.6250	65		0.00	19,266
2	16	45.000	0.5000	65	Slip	88.00	11,293
3	16	45.000	0.3750	65	Slip	77.00	7,146
4	16	46.000	0.2813	65	Slip	65.00	4,388
5	16	30.750	0.1875	65	Slip	52.00	1,538
<b>Total Shaft Weight:</b>							<b>43,631</b>

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	60.00	0.00	118.3	52722.49	17.50	96.00	48.92	52.75	96.29	28376.2	13.98	78.28	0.210003
2	51.46	45.42	81.29	26670.08	18.88	102.92	42.01	90.42	66.21	14414.6	15.12	84.02	0.210003
3	44.11	84.00	52.32	12642.04	21.81	117.63	34.66	129.00	41.01	6090.27	16.79	92.43	0.210003
4	36.36	123.5	32.37	5322.81	24.12	129.28	26.70	169.58	23.70	2089.84	17.29	94.93	0.210003
5	27.98	165.2	16.63	1622.94	28.10	149.25	21.53	196.00	12.76	734.28	21.25	114.8	0.210003

### Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors		Termination Connectors			
							Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty	
48.90	57.15	4	PLT 7.25x1.5(31mm Hole)	50	65	0.00	AJM20&sleeve	0.00	AJM20&sleeve	3.00	14	13
87.00	112.2	4	PLT 6.5x1.5(31mm Hole)	50	65	0.00	AJM20&sleeve	0.00	AJM20&sleeve	3.00	12	11
125.6	136.2	4	PLT 4.75x1.5(31mm Hole)	50	65	0.00	AJM20&sleeve	24.00	AJM20&sleeve	3.00	8	7

## Load Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



### Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	196.00	6' Lightning rod	1	6.50	0.38	1.00	31.36	1.125	1.00	0.00	0.00
2	191.50	APXVTM14-C-120	3	56.00	6.34	0.85	158.66	7.085	0.88	0.00	0.00
3	191.50	APXVSP18-C-A20	3	57.00	8.02	0.83	175.08	9.928	0.85	0.00	0.00
4	191.50	800MHz - RRU	3	53.00	2.49	0.67	103.53	3.271	0.70	0.00	0.00
5	191.50	1900MHz - RRU	3	44.00	3.80	0.67	118.58	4.750	0.70	0.00	0.00
6	191.50	RRH8x20-25 - RRU	3	70.00	4.05	0.67	140.57	4.591	0.70	0.00	0.00
7	191.50	800MHz Filter	3	8.80	0.78	0.67	20.85	1.222	0.70	0.00	0.00
8	191.50	ACU-A20-N - RET	4	1.00	0.14	0.75	3.93	0.343	0.78	0.00	0.00
9	191.50	Low Profile Platform	1	1500.00	22.00	1.00	2394.18	34.066	1.00	0.00	0.00
10	187.00	BA80-41-DIN	1	68.00	9.40	1.00	245.77	22.181	1.00	0.00	10.33
11	187.00	Pipe mount	1	40.00	2.63	0.75	94.71	6.698	0.75	0.00	0.00
12	185.00	JAHH-65C-R3B-V2	6	80.20	12.81	0.83	273.02	13.896	0.83	0.00	0.00
13	185.00	MT6407-77A	3	79.40	4.69	0.70	155.41	5.328	0.70	0.00	0.00
14	185.00	CBC23SR-43	3	4.90	0.42	0.70	12.48	0.613	0.70	0.00	0.00
15	185.00	RFV01U-D2A	3	70.30	1.88	0.78	103.41	2.255	0.78	0.00	0.00
16	185.00	RFV01U-D1A	3	84.40	1.88	0.83	119.30	2.255	0.83	0.00	0.00
17	185.00	DB-C1-12C-24AB-OZ	1	32.00	4.06	1.00	109.56	4.620	1.00	0.00	0.00
18	185.00	HRK12-HD	1	406.61	12.00	0.75	735.12	19.984	0.75	0.00	0.00
19	185.00	Kaelus BSF0020F3V1-1	2	17.60	1.13	0.67	32.37	1.650	0.67	0.00	0.00
20	185.00	BXA-70063 6CF_2	3	17.00	7.57	0.82	117.96	9.452	0.85	0.00	0.00
21	185.00	Low Profile Platform-Round	1	1500.00	22.00	1.00	2391.10	34.024	1.00	0.00	0.00
22	175.00	Powerwave 7770	3	35.00	5.50	0.85	119.88	6.206	0.88	0.00	0.00
23	175.00	Raycap DC6-48-60-18-8C-EV	2	16.00	4.78	1.00	99.77	5.379	1.00	0.00	0.00
24	175.00	Ericsson RRUS 32 B30	3	60.00	2.74	0.67	115.08	3.221	0.67	0.00	0.00
25	175.00	Ericsson RRUS 4478 B14	3	59.40	1.65	0.67	87.47	2.001	0.67	0.00	0.00
26	175.00	Ericsson RRUS 4449 B5/B12	3	71.00	1.97	0.67	107.14	2.341	0.67	0.00	0.00
27	175.00	Powerwave LGP13519 Diplexer	12	5.30	0.34	1.00	11.73	0.647	1.00	0.00	0.00
28	175.00	Powerwave LGP21401 TMA	12	14.10	1.29	1.00	31.03	1.856	1.00	0.00	0.00
29	175.00	Kathrein 800-10965	6	108.60	13.81	0.71	300.83	14.866	0.71	0.00	0.00
30	175.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	472.00	11.216	1.00	0.00	0.00
31	175.00	RRUS-12	3	50.00	2.70	0.67	91.92	3.429	0.70	0.00	0.00
32	175.00	DC6-48-60-18-8F	1	32.80	0.92	1.00	75.97	1.216	1.00	0.00	0.00
33	175.00	Low Profile Platform	1	1500.00	22.00	1.00	2386.16	33.957	1.00	0.00	0.00
34	161.50	Low Profile Platform	1	1500.00	22.00	1.00	2379.08	33.862	1.00	0.00	0.00
35	155.00	Commscope VV-65A-R1	3	29.50	7.90	0.74	137.73	8.737	0.74	0.00	0.00
36	155.00	Ericsson AIR6419 B41	3	66.10	3.80	0.76	130.45	4.332	0.76	0.00	0.00
37	155.00	RFS APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	395.86	21.495	0.70	0.00	0.00
38	155.00	Ericsson KRY 112 144/1	3	15.20	0.90	0.67	30.62	1.388	0.67	0.00	0.00
39	155.00	Ericsson 4449 B71 + B85	3	73.20	1.97	0.67	111.82	2.351	0.67	0.00	0.00
40	155.00	Ericsson 4460 B25 + B66	3	109.00	2.85	0.67	157.09	3.301	0.67	0.00	0.00
41	155.00	T-Arms w/ Handrail kit & v-brace kit	3	500.00	17.50	0.75	966.92	26.815	0.75	0.00	0.00
42	145.00	MX08FRO665-21	3	64.50	12.49	0.74	257.76	13.463	0.74	0.00	0.00
43	145.00	MC-PK8-DSH	1	1727.00	37.59	1.00	2848.41	68.973	1.00	0.00	0.00
44	145.00	TA08025-B605	3	75.00	1.96	0.67	109.75	2.333	0.67	0.00	0.00
45	145.00	TA08025-B604	3	63.90	1.96	0.67	97.54	2.333	0.67	0.00	0.00
46	145.00	RDIDC-9181-PF-48	1	21.90	2.01	1.00	57.28	2.388	1.00	0.00	0.00
47	130.00	ANT150F2	1	13.00	1.23	1.00	34.73	1.926	1.00	0.00	2.50
48	130.00	Standoff	1	40.00	2.63	0.75	92.76	6.553	0.75	0.00	0.00
49	109.50	14' Omni	5	40.00	4.20	1.00	108.40	7.431	1.00	0.00	7.00
50	109.50	4' Omni	1	10.00	1.00	1.00	30.20	1.558	1.00	0.00	2.00



## Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
51	109.50	Standoff	5	40.00	2.63	0.75	91.86	6.486	0.75	0.00	0.00
52	109.50	Standoff	1	40.00	2.63	0.75	91.86	6.486	0.75	0.00	0.00
53	100.00	MPRD	1	36.00	6.10	1.00	197.70	6.869	1.00	0.00	0.00
54	100.00	Standoff	1	40.00	2.63	0.75	91.39	6.451	0.75	0.00	0.00
<b>Totals:</b>			<b>151</b>	<b>16,446.13</b>			<b>32,425.53</b>				

## Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	191.50	(6) 1 5/8" Coax	0.00	Inside
0.00	191.50	(4) 1-1/4" Fiber	0.00	Inside
0.00	187.00	(1) 7/8" Coax	0.00	Inside
0.00	185.00	(6) 1 5/8" Coax	0.00	Inside
0.00	185.00	(1) 1 5/8" Hybrid	0.00	Inside
0.00	175.00	(12) 1 5/8" Coax	0.00	Inside
0.00	175.00	(2) 2" Conduit	0.00	Outside
0.00	175.00	(1) 3" Conduit	3.00	Outside
0.00	175.00	(6) 3/4" DC	0.00	Inside
0.00	175.00	(3) 7/16" Fiber	0.00	Inside
0.00	155.00	(8) 1 5/8" Coax	0.00	Inside
0.00	155.00	(3) 1 5/8" Fiber	0.00	Inside
0.00	155.00	(1) 1.9" Fiber	0.00	Inside
0.00	145.00	(1) 1.6" Hybrid	0.00	Inside
0.00	130.00	(1) 7/8" Coax	0.52	Outside
0.00	109.50	(6) 1/2" Coax	0.00	Inside
0.00	100.00	(2) CAT5e	0.00	Inside

## Shaft Section Properties

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Increment Length:** 5 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00		0.6250	60.000	118.379	52722.5	17.50	96.00	65	83	0.0				
5.00		0.6250	58.950	116.285	49974.6	17.17	94.32	65	83	1996.3				
10.00		0.6250	57.900	114.192	47323.8	16.84	92.64	65	83	1960.7				
15.00		0.6250	56.850	112.099	44768.5	16.50	90.96	65	83	1925.0				
20.00		0.6250	55.800	110.005	42306.9	16.17	89.28	65	83	1889.4				
25.00		0.6250	54.750	107.912	39937.2	15.83	87.60	65	83	1853.8				
30.00		0.6250	53.700	105.818	37657.6	15.50	85.92	65	83	1818.2				
35.00		0.6250	52.650	103.725	35466.6	15.17	84.24	65	83	1782.6				
40.00		0.6250	51.600	101.631	33362.2	14.83	82.56	65	83	1747.0				
45.00		0.6250	50.550	99.538	31342.7	14.50	80.88	65	83	1711.3				
45.42	Bot - Section 2	0.6250	50.462	99.363	31178.2	14.47	80.74	65	83	141.0				
48.90	RB1	0.6250	49.731	97.905	29825.3	14.24	79.57	65	83	2125.7	43.50	14933.2	14933.2	487.8
50.00		0.6250	49.500	97.444	29406.4	14.16	79.20	65	83	664.8	43.50	14802.3	14802.3	154.0
52.75	Top - Section 1	0.5000	49.922	78.829	24324.6	18.27	99.84	65	82	1648.4	43.50	14477.5	14477.5	385.1
55.00		0.5000	49.450	78.075	23633.6	18.08	98.90	65	82	600.6	43.50	14214.5	14214.5	315.1
57.15	RT1	0.5000	48.998	77.355	22985.6	17.90	98.00	65	82	568.6	43.50	13965.4	13965.4	301.1
60.00		0.5000	48.400	76.400	22145.1	17.66	96.80	65	83	745.6				
65.00		0.5000	47.350	74.725	20720.5	17.25	94.70	65	83	1285.6				
70.00		0.5000	46.300	73.051	19358.3	16.83	92.60	65	83	1257.1				
75.00		0.5000	45.250	71.376	18057.1	16.41	90.50	65	83	1228.6				
80.00		0.5000	44.200	69.701	16815.6	15.99	88.40	65	83	1200.1				
84.00	Bot - Section 3	0.5000	43.360	68.361	15864.5	15.66	86.72	65	83	939.6				
85.00		0.5000	43.150	68.026	15632.4	15.57	86.30	65	83	409.6				
87.00	RB2	0.5000	42.730	67.356	15175.1	15.41	85.46	65	83	813.3	39.00	9935.3	9935.3	265.4
90.00		0.5000	42.100	66.352	14506.0	15.16	84.20	65	83	1205.0	39.00	9661.0	9661.0	398.2
90.42	Top - Section 2	0.3750	42.762	50.706	11509.1	21.09	114.03	65	79	165.9	39.00	9623.2	9623.2	55.3
95.00		0.3750	41.800	49.554	10742.8	20.58	111.47	65	79	781.8	39.00	9212.3	9212.3	608.3
100.00		0.3750	40.750	48.298	9946.4	20.02	108.67	65	80	832.4	39.00	8774.4	8774.4	663.6
105.00		0.3750	39.700	47.042	9190.4	19.47	105.87	65	81	811.1	39.00	8347.2	8347.2	663.6
109.50		0.3750	38.755	45.912	8543.6	18.97	103.35	65	81	711.7	39.00	7972.0	7972.0	597.2
110.00		0.3750	38.650	45.786	8473.7	18.91	103.07	65	81	78.0	39.00	7930.8	7930.8	66.4
112.25	RT2	0.3750	38.177	45.221	8163.7	18.66	101.81	65	81	348.4	39.00	7746.9	7746.9	298.6
115.00		0.3750	37.600	44.530	7795.3	18.35	100.27	65	82	419.9				
120.00		0.3750	36.550	43.274	7154.0	17.80	97.47	65	82	746.9				
123.58	Bot - Section 4	0.3750	35.797	42.374	6716.8	17.40	95.46	65	83	522.2				
125.00		0.3750	35.500	42.018	6549.0	17.24	94.67	65	83	358.8				
125.60	RB3	0.3750	35.374	41.867	6478.8	17.17	94.33	65	83	151.1	28.50	5022.2	5022.2	58.2
129.00	Top - Section 3	0.2813	35.222	31.349	4835.0	23.32	125.23	65	76	845.8	28.50	4833.6	4833.6	329.7
130.00		0.2813	35.012	31.160	4748.4	23.17	124.49	65	76	106.4	28.50	4778.8	4778.8	97.0
135.00		0.2813	33.962	30.218	4330.6	22.43	120.75	65	77	522.1	28.50	4509.5	4509.5	484.9
136.26	RT3	0.2813	33.698	29.981	4229.3	22.24	119.81	65	77	129.1	28.50	4442.9	4442.9	122.2
140.00		0.2813	32.912	29.276	3938.1	21.69	117.02	65	78	377.1				
145.00		0.2813	31.862	28.334	3570.0	20.94	113.29	65	79	490.1				
150.00		0.2813	30.812	27.392	3225.6	20.20	109.55	65	80	474.1				
155.00		0.2813	29.762	26.450	2904.1	19.46	105.82	65	81	458.0				
160.00		0.2813	28.712	25.508	2604.8	18.72	102.09	65	81	442.0				
161.50		0.2813	28.397	25.225	2519.1	18.49	100.97	65	82	129.5				
165.00		0.2813	27.662	24.566	2326.7	17.97	98.35	65	82	296.5				
165.25	Bot - Section 5	0.2813	27.610	24.519	2313.3	17.94	98.17	65	82	20.9				
169.58	Top - Section 4	0.1875	27.075	16.082	1468.7	27.13	144.40	65	72	596.7				

Increment Length: 5 (ft)

Additional Reinforcing			
Area	Ixp	Iyp	Weight
(in^2)	(in^4)	(in^4)	(lb)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
170.00		0.1875	26.987	16.029	1454.4	27.04	143.93	65	72	22.8				
175.00		0.1875	25.937	15.401	1290.1	25.92	138.33	65	73	267.4				
180.00		0.1875	24.887	14.773	1138.6	24.81	132.73	65	74	256.7				
185.00		0.1875	23.837	14.145	999.5	23.70	127.13	65	76	246.0				
187.00		0.1875	23.417	13.894	947.2	23.25	124.89	65	76	95.4				
190.00		0.1875	22.787	13.517	872.2	22.58	121.53	65	77	139.9				
191.50		0.1875	22.472	13.329	836.2	22.25	119.85	65	77	68.5				
195.00		0.1875	21.737	12.889	756.2	21.47	115.93	65	78	156.1				
196.00		0.1875	21.527	12.764	734.3	21.25	114.81	65	79	43.6				
<b>Total Weight</b>										<b>43630.8</b>				<b>6351.7</b>

## Wind Loading - Shaft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

7/7/2023

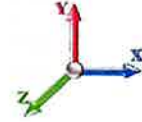
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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00

**Iterations** 27



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	26.325	28.96	530.39	0.750	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	26.325	28.96	521.11	0.750	0.000	5.00	25.267	18.95	548.7	0.0	2395.5
10.00		1.00	0.85	26.325	28.96	511.83	0.750	0.000	5.00	24.821	18.62	539.1	0.0	2352.8
15.00		1.00	0.85	26.325	28.96	502.55	0.750	0.000	5.00	24.375	18.28	529.4	0.0	2310.0
20.00		1.00	0.90	27.932	30.72	508.10	0.750	0.000	5.00	23.929	17.95	551.4	0.0	2267.3
25.00		1.00	0.95	29.275	32.20	510.38	0.750	0.000	5.00	23.482	17.61	567.2	0.0	2224.6
30.00		1.00	0.98	30.421	33.46	510.30	0.750	0.000	5.00	23.036	17.28	578.1	0.0	2181.8
35.00		1.00	1.01	31.424	34.57	508.50	0.750	0.000	5.00	22.590	16.94	585.7	0.0	2139.1
40.00		1.00	1.04	32.320	35.55	505.42	0.750	0.000	5.00	22.144	16.61	590.5	0.0	2096.3
45.00		1.00	1.07	33.132	36.44	501.31	0.750	0.000	5.00	21.698	16.27	593.1	0.0	2053.6
45.42	Bot - Section 2	1.00	1.07	33.196	36.52	500.93	0.750	0.000	0.42	1.788	1.34	49.0	0.0	169.2
48.90	RB1	1.00	1.09	33.716	37.09	497.52	0.750	0.000	3.48	15.123	11.34	420.7	0.0	2550.8
50.00		1.00	1.09	33.875	37.26	496.37	0.750	0.000	1.10	4.731	3.55	132.2	0.0	797.8
52.75	Top - Section 1	1.00	1.11	34.259	37.68	493.35	0.750	0.000	2.75	11.732	8.80	331.6	0.0	1978.1
55.00		1.00	1.12	34.561	38.02	500.87	0.750	0.000	2.25	9.499	7.12	270.8	0.0	720.8
57.15	RT1	1.00	1.12	34.841	38.33	498.30	0.750	0.000	2.15	8.992	6.74	258.5	0.0	682.3
60.00		1.00	1.14	35.200	38.72	494.74	0.750	0.000	2.85	11.793	8.84	342.5	0.0	894.7
65.00		1.00	1.16	35.798	39.38	488.11	0.750	0.000	5.00	20.339	15.25	600.7	0.0	1542.7
70.00		1.00	1.17	36.361	40.00	481.02	0.750	0.000	5.00	19.893	14.92	596.7	0.0	1508.5
75.00		1.00	1.19	36.893	40.58	473.54	0.750	0.000	5.00	19.446	14.58	591.9	0.0	1474.4
80.00		1.00	1.21	37.398	41.14	465.70	0.750	0.000	5.00	19.000	14.25	586.2	0.0	1440.2
84.00	Bot - Section 3	1.00	1.22	37.784	41.56	459.20	0.750	0.000	4.00	14.879	11.16	463.8	0.0	1127.5
85.00		1.00	1.22	37.878	41.67	457.55	0.750	0.000	1.00	3.739	2.80	116.8	0.0	491.6
87.00	RB2	1.00	1.23	38.064	41.87	454.21	0.750	0.000	2.00	7.424	5.57	233.1	0.0	976.0
90.00		1.00	1.24	38.337	42.17	449.11	0.750	0.000	3.00	11.003	8.25	348.0	0.0	1446.0
90.42	Top - Section 2	1.00	1.24	38.374	42.21	448.39	0.750	0.000	0.42	1.515	1.14	48.0	0.0	199.1
95.00		1.00	1.25	38.776	42.65	448.45	0.750	0.000	4.58	16.465	12.35	526.7	0.0	938.2
100.00	Appurtenance(s)	1.00	1.27	39.197	43.12	439.56	0.750	0.000	5.00	17.535	13.15	567.0	0.0	998.9
105.00		1.00	1.28	39.601	43.56	430.43	0.750	0.000	5.00	17.089	12.82	558.3	0.0	973.3
109.50	Appurtenance(s)	1.00	1.29	39.953	43.95	422.05	0.750	0.000	4.50	14.998	11.25	494.4	0.0	854.0
110.00		1.00	1.29	39.991	43.99	421.11	0.750	0.000	0.50	1.644	1.23	54.2	0.0	93.6
112.25	RT2	1.00	1.30	40.162	44.18	416.85	0.750	0.000	2.25	7.344	5.51	243.3	0.0	418.1
115.00		1.00	1.30	40.367	44.40	411.59	0.750	0.000	2.75	8.853	6.64	294.8	0.0	503.9
120.00		1.00	1.32	40.731	44.80	401.89	0.750	0.000	5.00	15.750	11.81	529.3	0.0	896.3
123.58	Bot - Section 4	1.00	1.32	40.984	45.08	394.84	0.750	0.000	3.58	11.013	8.26	372.4	0.0	626.6
125.00		1.00	1.33	41.082	45.19	392.03	0.750	0.000	1.42	4.359	3.27	147.7	0.0	430.6
125.60	RB3	1.00	1.33	41.124	45.24	390.83	0.750	0.000	0.60	1.835	1.38	62.3	0.0	181.3
129.00	Top - Section 3	1.00	1.34	41.355	45.49	384.02	0.750	0.000	3.40	10.278	7.71	350.7	0.0	1015.0
130.00	Appurtenance(s)	1.00	1.34	41.423	45.57	388.24	0.750	0.000	1.00	2.984	2.24	102.0	0.0	127.6
135.00		1.00	1.35	41.753	45.93	378.10	0.750	0.000	5.00	14.651	10.99	504.7	0.0	626.6
136.26	RT3	1.00	1.35	41.835	46.02	375.52	0.750	0.000	1.26	3.622	2.72	125.0	0.0	154.9
140.00		1.00	1.36	42.074	46.28	367.81	0.750	0.000	3.74	10.583	7.94	367.4	0.0	452.5
145.00	Appurtenance(s)	1.00	1.37	42.386	46.62	357.40	0.750	0.000	5.00	13.759	10.32	481.1	0.0	588.1
150.00		1.00	1.38	42.690	46.96	346.85	0.750	0.000	5.00	13.313	9.98	468.9	0.0	568.9
155.00	Appurtenance(s)	1.00	1.39	42.985	47.28	336.19	0.750	0.000	5.00	12.867	9.65	456.3	0.0	549.6
160.00		1.00	1.40	43.274	47.60	325.42	0.751 *	0.000	5.00	12.421	9.33	444.3	0.0	530.4
161.50	Appurtenance(s)	1.00	1.40	43.359	47.69	322.16	0.757 *	0.000	1.50	3.639	2.75	131.4	0.0	155.4

## Wind Loading - Shaft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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165.00	1.00	1.41	43.555	47.91	314.53	0.761 *	0.000	3.50	8.335	6.34	304.0	0.0	355.8
165.25 Bot - Section 5	1.00	1.41	43.569	47.93	313.99	0.765 *	0.000	0.25	0.587	0.45	21.5	0.0	25.1
169.58 Top - Section 4	1.00	1.41	43.807	48.19	304.47	0.769 *	0.000	4.33	10.136	7.79	375.5	0.0	716.0
170.00	1.00	1.42	43.829	48.21	307.82	0.770 *	0.000	0.42	0.957	0.74	35.5	0.0	27.3
175.00 Appurtenance(s)	1.00	1.42	44.098	48.51	296.75	0.775 *	0.000	5.00	11.242	8.71	422.7	0.0	320.9
180.00	1.00	1.43	44.360	48.80	285.58	0.750	0.000	5.00	10.796	8.10	395.1	0.0	308.0
185.00 Appurtenance(s)	1.00	1.44	44.617	49.08	274.32	0.750	0.000	5.00	10.350	7.76	381.0	0.0	295.2
187.00 Appurtenance(s)	1.00	1.44	44.718	49.19	269.80	0.750	0.000	2.00	4.015	3.01	148.1	0.0	114.5
190.00	1.00	1.45	44.868	49.35	262.98	0.750	0.000	3.00	5.889	4.42	218.0	0.0	167.9
191.50 Appurtenance(s)	1.00	1.45	44.942	49.44	259.56	0.750	0.000	1.50	2.884	2.16	106.9	0.0	82.2
195.00	1.00	1.46	45.114	49.63	251.55	0.750	0.000	3.50	6.573	4.93	244.7	0.0	187.4
196.00 Appurtenance(s)	1.00	1.46	45.163	49.68	249.25	0.750	0.000	1.00	1.838	1.38	68.5	0.0	52.4
								<b>Totals:</b>	<b>196.00</b>		<b>20,477.1</b>		<b>52,356.9</b>

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

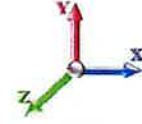
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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 27

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	196.00	6' Lightning rod	1	45.163	49.679	1.00	1.00	0.38	7.80	0.000	0.000	18.88	0.00	0.00
2	191.50	1900MHz - RRU	3	44.942	49.436	0.54	0.80	6.11	158.40	0.000	0.000	302.08	0.00	0.00
3	191.50	APXVTM14-C-120	3	44.942	49.436	0.68	0.80	12.93	201.60	0.000	0.000	639.39	0.00	0.00
4	191.50	APXVSP18-C-A20	3	44.942	49.436	0.66	0.80	15.98	205.20	0.000	0.000	789.79	0.00	0.00
5	191.50	800MHz - RRU	3	44.942	49.436	0.54	0.80	4.00	190.80	0.000	0.000	197.94	0.00	0.00
6	191.50	RRH8x20-25 - RRU	3	44.942	49.436	0.54	0.80	6.51	252.00	0.000	0.000	321.95	0.00	0.00
7	191.50	800MHz Filter	3	44.942	49.436	0.54	0.80	1.25	31.68	0.000	0.000	62.01	0.00	0.00
8	191.50	ACU-A20-N - RET	4	44.942	49.436	0.60	0.80	0.34	4.80	0.000	0.000	16.61	0.00	0.00
9	191.50	Low Profile Platform	1	44.942	49.436	1.00	1.00	22.00	1800.00	0.000	0.000	1087.60	0.00	0.00
10	187.00	Pipe mount	1	44.718	49.190	0.56	0.75	1.48	48.00	0.000	0.000	72.77	0.00	0.00
11	187.00	BA80-41-DIN	1	45.227	49.750	1.00	1.00	9.40	81.60	0.000	10.333	467.65	0.00	4832.36
12	185.00	JAHH-65C-R3B-V2	6	44.617	49.078	0.62	0.75	47.85	577.44	0.000	0.000	2348.17	0.00	0.00
13	185.00	Kaelus BSF0020F3V1-1	2	44.617	49.078	0.50	0.75	1.14	42.24	0.000	0.000	55.74	0.00	0.00
14	185.00	MT6407-77A	3	44.617	49.078	0.52	0.75	7.39	285.84	0.000	0.000	362.53	0.00	0.00
15	185.00	HRK12-HD	1	44.617	49.078	0.75	1.00	9.00	487.93	0.000	0.000	441.71	0.00	0.00
16	185.00	DB-C1-12C-24AB-OZ	1	44.617	49.078	0.75	0.75	3.04	38.40	0.000	0.000	149.44	0.00	0.00
17	185.00	RFV01U-D1A	3	44.617	49.078	0.62	0.75	3.51	303.84	0.000	0.000	172.31	0.00	0.00
18	185.00	CBC23SR-43	3	44.617	49.078	0.52	0.75	0.66	17.64	0.000	0.000	32.47	0.00	0.00
19	185.00	RFV01U-D2A	3	44.617	49.078	0.58	0.75	3.30	253.08	0.000	0.000	161.93	0.00	0.00
20	185.00	BXA-70063 6CF_2	3	44.617	49.078	0.61	0.75	13.97	61.20	0.000	0.000	685.46	0.00	0.00
21	185.00	Low Profile	1	44.617	49.078	1.00	1.00	22.00	1800.00	0.000	0.000	1079.72	0.00	0.00
22	175.00	HRK12 (Handrail Kit)	1	44.098	48.508	1.00	1.00	6.75	314.06	0.000	0.000	327.43	0.00	0.00
23	175.00	Kathrein 800-10965	6	44.098	48.508	0.53	0.75	44.12	781.92	0.000	0.000	2140.30	0.00	0.00
24	175.00	Low Profile Platform	1	44.098	48.508	1.00	1.00	22.00	1800.00	0.000	0.000	1067.17	0.00	0.00
25	175.00	DC6-48-60-18-8F	1	44.098	48.508	0.80	0.80	0.74	39.36	0.000	0.000	35.70	0.00	0.00
26	175.00	RRUS-12	3	44.098	48.508	0.54	0.80	4.34	180.00	0.000	0.000	210.60	0.00	0.00
27	175.00	Powerwave LGP21401	12	44.098	48.508	0.75	0.75	11.61	203.04	0.000	0.000	563.17	0.00	0.00
28	175.00	Powerwave LGP13519	12	44.098	48.508	0.75	0.75	3.06	76.32	0.000	0.000	148.43	0.00	0.00
29	175.00	Ericsson RRUS 4478 B14	3	44.098	48.508	0.50	0.75	2.49	213.84	0.000	0.000	120.66	0.00	0.00
30	175.00	Ericsson RRUS 32 B30	3	44.098	48.508	0.50	0.75	4.13	216.00	0.000	0.000	200.36	0.00	0.00
31	175.00	Raycap	2	44.098	48.508	1.00	1.00	9.56	38.40	0.000	0.000	463.73	0.00	0.00
32	175.00	Powerwave 7770	3	44.098	48.508	0.68	0.80	11.22	126.00	0.000	0.000	544.25	0.00	0.00
33	175.00	Ericsson RRUS 4449	3	44.098	48.508	0.50	0.75	2.97	255.60	0.000	0.000	144.06	0.00	0.00
34	161.50	Low Profile Platform	1	43.359	47.695	1.00	1.00	22.00	1800.00	0.000	0.000	1049.28	0.00	0.00
35	155.00	RFS	3	42.985	47.284	0.56	0.80	34.00	460.80	0.000	0.000	1607.80	0.00	0.00
36	155.00	Commscope VV-65A-R1	3	42.985	47.284	0.59	0.80	14.03	106.20	0.000	0.000	663.41	0.00	0.00
37	155.00	Ericsson AIR6419 B41	3	42.985	47.284	0.61	0.80	6.93	237.96	0.000	0.000	327.73	0.00	0.00
38	155.00	T-Arms w/ Handrail kit &	3	42.985	47.284	0.56	0.75	29.53	1800.00	0.000	0.000	1396.35	0.00	0.00
39	155.00	Ericsson 4449 B71 + B85	3	42.985	47.284	0.54	0.80	3.17	263.52	0.000	0.000	149.78	0.00	0.00
40	155.00	Ericsson 4460 B25 + B66	3	42.985	47.284	0.54	0.80	4.58	392.40	0.000	0.000	216.69	0.00	0.00
41	155.00	Ericsson KRY 112 144/1	3	42.985	47.284	0.54	0.80	1.45	54.72	0.000	0.000	68.43	0.00	0.00
42	145.00	TA08025-B605	3	42.386	46.625	0.50	0.75	2.95	270.00	0.000	0.000	137.76	0.00	0.00
43	145.00	MC-PK8-DSH	1	42.386	46.625	1.00	1.00	37.59	2072.40	0.000	0.000	1752.62	0.00	0.00
44	145.00	MX08FRO665-21	3	42.386	46.625	0.55	0.75	20.80	232.20	0.000	0.000	969.60	0.00	0.00
45	145.00	TA08025-B604	3	42.386	46.625	0.50	0.75	2.95	230.04	0.000	0.000	137.76	0.00	0.00
46	145.00	RDIDC-9181-PF-48	1	42.386	46.625	0.75	0.75	1.51	26.28	0.000	0.000	70.29	0.00	0.00
47	130.00	ANT150F2	1	41.589	45.748	1.00	1.00	1.23	15.60	0.000	2.500	56.27	0.00	140.68

## Discrete Appurtenance Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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48	130.00	Standoff	1	41.423	45.565	0.56	0.75	1.48	48.00	0.000	0.000	67.41	0.00	0.00
49	109.50	Standoff	1	39.953	43.948	0.56	0.75	1.48	48.00	0.000	0.000	65.02	0.00	0.00
50	109.50	Standoff	5	39.953	43.948	0.56	0.75	7.40	240.00	0.000	0.000	325.08	0.00	0.00
51	109.50	4' Omni	1	40.105	44.116	1.00	1.00	1.00	12.00	0.000	2.000	44.12	0.00	88.23
52	109.50	14' Omni	5	40.478	44.525	1.00	1.00	21.00	240.00	0.000	7.000	935.03	0.00	6545.22
53	100.00	Standoff	1	39.197	43.116	0.56	0.75	1.48	48.00	0.000	0.000	63.79	0.00	0.00
54	100.00	MPRD	1	39.197	43.116	1.00	1.00	6.10	43.20	0.000	0.000	263.01	0.00	0.00

<b>Totals:</b>	<b>19,735.36</b>	<b>25,799.22</b>
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## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

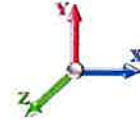


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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		548.74	2715.49	0.00	0.00
10.00		539.06	2672.75	0.00	0.00
15.00		529.37	2630.00	0.00	0.00
20.00		551.40	2587.26	0.00	0.00
25.00		567.15	2544.52	0.00	0.00
30.00		578.15	2501.78	0.00	0.00
35.00		585.65	2459.04	0.00	0.00
40.00		590.46	2416.30	0.00	0.00
45.00		593.09	2373.56	0.00	0.00
45.42		48.97	195.87	0.00	0.00
48.90		420.66	2773.70	0.00	0.00
50.00		132.21	868.15	0.00	0.00
52.75		331.59	2154.08	0.00	0.00
55.00		270.84	864.76	0.00	0.00
57.15		258.47	819.85	0.00	0.00
60.00		342.46	1077.04	0.00	0.00
65.00		600.68	1862.70	0.00	0.00
70.00		596.74	1828.50	0.00	0.00
75.00		591.89	1794.31	0.00	0.00
80.00		586.23	1760.12	0.00	0.00
84.00		463.81	1383.48	0.00	0.00
85.00		116.84	555.57	0.00	0.00
87.00		233.15	1103.95	0.00	0.00
90.00		347.99	1637.98	0.00	0.00
90.42		47.98	225.79	0.00	0.00
95.00		526.73	1231.49	0.00	0.00
100.00	(2) attachments	893.82	1410.07	0.00	0.00
105.00		558.31	1292.98	0.00	0.00
109.50	(12) attachments	1863.61	1681.76	0.00	6633.45
110.00		54.25	125.00	0.00	0.00
112.25		243.32	559.34	0.00	0.00
115.00		294.83	676.59	0.00	0.00
120.00		529.26	1210.29	0.00	0.00
123.58		372.38	851.60	0.00	0.00
125.00		147.73	519.52	0.00	0.00
125.60		62.26	218.95	0.00	0.00
129.00		350.68	1228.49	0.00	0.00
130.00	(2) attachments	225.64	254.01	0.00	140.68
135.00		504.68	937.41	0.00	0.00
136.26		125.00	233.19	0.00	0.00
140.00		367.36	684.98	0.00	0.00
145.00	(11) attachments	3549.16	3729.86	0.00	0.00
150.00		468.87	868.78	0.00	0.00
155.00	(21) attachments	4886.50	4165.15	0.00	0.00
160.00		444.28	757.60	0.00	0.00
161.50	(1) attachments	1180.65	2023.53	0.00	0.00



## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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165.00		303.98	514.83	0.00	0.00
165.25		21.51	36.41	0.00	0.00
169.58		375.50	912.90	0.00	0.00
170.00		35.52	46.25	0.00	0.00
175.00	(50) attachments	6388.58	4792.60	0.00	0.00
180.00		395.09	415.53	0.00	0.00
185.00	(26) attachments	5870.43	4270.32	0.00	0.00
187.00	(2) attachments	688.54	269.48	0.00	4832.36
190.00		217.97	204.10	0.00	0.00
191.50	(23) attachments	3524.30	2944.80	0.00	0.00
195.00		244.66	187.35	0.00	0.00
196.00	(1) attachments	87.36	60.17	0.00	0.00
	<b>Totals:</b>	<b>46,276.32</b>	<b>83,121.88</b>	<b>0.00</b>	<b>11,606.48</b>

## Linear Appurtenance Segment Forces (Factored)

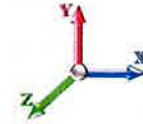
<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.058	0.000	26.325	0.00	19.32
5.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.058	0.000	26.325	0.00	9.66
5.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.058	0.000	26.325	0.00	3.12
10.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	26.325	0.00	19.32
10.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.059	0.000	26.325	0.00	9.66
10.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.059	0.000	26.325	0.00	3.12
15.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.060	0.000	26.325	0.00	19.32
15.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.060	0.000	26.325	0.00	9.66
15.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.060	0.000	26.325	0.00	3.12
20.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.061	0.000	27.932	0.00	19.32
20.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.061	0.000	27.932	0.00	9.66
20.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.061	0.000	27.932	0.00	3.12
25.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	29.275	0.00	19.32
25.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.062	0.000	29.275	0.00	9.66
25.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.062	0.000	29.275	0.00	3.12
30.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.064	0.000	30.421	0.00	19.32
30.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.064	0.000	30.421	0.00	9.66
30.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.064	0.000	30.421	0.00	3.12
35.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.065	0.000	31.424	0.00	19.32
35.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.065	0.000	31.424	0.00	9.66
35.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.065	0.000	31.424	0.00	3.12
40.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	32.320	0.00	19.32
40.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.066	0.000	32.320	0.00	9.66
40.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.066	0.000	32.320	0.00	3.12
45.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	33.132	0.00	19.32
45.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.068	0.000	33.132	0.00	9.66
45.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.068	0.000	33.132	0.00	3.12
45.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.068	0.000	33.196	0.00	1.61
45.42	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.068	0.000	33.196	0.00	0.81
45.42	7/8" Coax	Yes	0.42	0.000	0.52	0.02	0.00	0.068	0.000	33.196	0.00	0.26
48.90	2" Conduit	Yes	3.48	0.000	0.00	0.00	0.00	0.069	0.000	33.716	0.00	13.46
48.90	3" Conduit	Yes	3.48	0.000	3.00	0.87	0.00	0.069	0.000	33.716	0.00	6.73
48.90	7/8" Coax	Yes	3.48	0.000	0.52	0.15	0.00	0.069	0.000	33.716	0.00	2.17
50.00	2" Conduit	Yes	1.10	0.000	0.00	0.00	0.00	0.070	0.000	33.875	0.00	4.25
50.00	3" Conduit	Yes	1.10	0.000	3.00	0.28	0.00	0.070	0.000	33.875	0.00	2.13
50.00	7/8" Coax	Yes	1.10	0.000	0.52	0.05	0.00	0.070	0.000	33.875	0.00	0.69
52.75	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.070	0.000	34.259	0.00	10.63
52.75	3" Conduit	Yes	2.75	0.000	3.00	0.69	0.00	0.070	0.000	34.259	0.00	5.31
52.75	7/8" Coax	Yes	2.75	0.000	0.52	0.12	0.00	0.070	0.000	34.259	0.00	1.72
55.00	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.069	0.000	34.561	0.00	8.69
55.00	3" Conduit	Yes	2.25	0.000	3.00	0.56	0.00	0.069	0.000	34.561	0.00	4.35
55.00	7/8" Coax	Yes	2.25	0.000	0.52	0.10	0.00	0.069	0.000	34.561	0.00	1.40
57.15	2" Conduit	Yes	2.15	0.000	0.00	0.00	0.00	0.070	0.000	34.841	0.00	8.31
57.15	3" Conduit	Yes	2.15	0.000	3.00	0.54	0.00	0.070	0.000	34.841	0.00	4.15
57.15	7/8" Coax	Yes	2.15	0.000	0.52	0.09	0.00	0.070	0.000	34.841	0.00	1.34
60.00	2" Conduit	Yes	2.85	0.000	0.00	0.00	0.00	0.071	0.000	35.200	0.00	11.01
60.00	3" Conduit	Yes	2.85	0.000	3.00	0.71	0.00	0.071	0.000	35.200	0.00	5.51

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

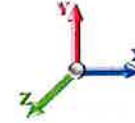


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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	7/8" Coax	Yes	2.85	0.000	0.52	0.12	0.00	0.071	0.000	35.200	0.00	1.78
65.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	35.798	0.00	19.32
65.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.072	0.000	35.798	0.00	9.66
65.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.072	0.000	35.798	0.00	3.12
70.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	36.361	0.00	19.32
70.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.074	0.000	36.361	0.00	9.66
70.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.074	0.000	36.361	0.00	3.12
75.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	36.893	0.00	19.32
75.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.075	0.000	36.893	0.00	9.66
75.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.075	0.000	36.893	0.00	3.12
80.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	37.398	0.00	19.32
80.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.077	0.000	37.398	0.00	9.66
80.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.077	0.000	37.398	0.00	3.12
84.00	2" Conduit	Yes	4.00	0.000	0.00	0.00	0.00	0.079	0.000	37.784	0.00	15.46
84.00	3" Conduit	Yes	4.00	0.000	3.00	1.00	0.00	0.079	0.000	37.784	0.00	7.73
84.00	7/8" Coax	Yes	4.00	0.000	0.52	0.17	0.00	0.079	0.000	37.784	0.00	2.50
85.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.080	0.000	37.878	0.00	3.86
85.00	3" Conduit	Yes	1.00	0.000	3.00	0.25	0.00	0.080	0.000	37.878	0.00	1.93
85.00	7/8" Coax	Yes	1.00	0.000	0.52	0.04	0.00	0.080	0.000	37.878	0.00	0.62
87.00	2" Conduit	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	38.064	0.00	7.73
87.00	3" Conduit	Yes	2.00	0.000	3.00	0.50	0.00	0.080	0.000	38.064	0.00	3.86
87.00	7/8" Coax	Yes	2.00	0.000	0.52	0.09	0.00	0.080	0.000	38.064	0.00	1.25
90.00	2" Conduit	Yes	3.00	0.000	0.00	0.00	0.00	0.081	0.000	38.337	0.00	11.59
90.00	3" Conduit	Yes	3.00	0.000	3.00	0.75	0.00	0.081	0.000	38.337	0.00	5.80
90.00	7/8" Coax	Yes	3.00	0.000	0.52	0.13	0.00	0.081	0.000	38.337	0.00	1.87
90.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.082	0.000	38.374	0.00	1.61
90.42	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.082	0.000	38.374	0.00	0.81
90.42	7/8" Coax	Yes	0.42	0.000	0.52	0.02	0.00	0.082	0.000	38.374	0.00	0.26
95.00	2" Conduit	Yes	4.58	0.000	0.00	0.00	0.00	0.082	0.000	38.776	0.00	17.71
95.00	3" Conduit	Yes	4.58	0.000	3.00	1.15	0.00	0.082	0.000	38.776	0.00	8.85
95.00	7/8" Coax	Yes	4.58	0.000	0.52	0.20	0.00	0.082	0.000	38.776	0.00	2.86
100.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	39.197	0.00	19.32
100.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.084	0.000	39.197	0.00	9.66
100.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.084	0.000	39.197	0.00	3.12
105.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	39.601	0.00	19.32
105.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.086	0.000	39.601	0.00	9.66
105.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.086	0.000	39.601	0.00	3.12
109.50	2" Conduit	Yes	4.50	0.000	0.00	0.00	0.00	0.088	0.000	39.953	0.00	17.39
109.50	3" Conduit	Yes	4.50	0.000	3.00	1.13	0.00	0.088	0.000	39.953	0.00	8.69
109.50	7/8" Coax	Yes	4.50	0.000	0.52	0.20	0.00	0.088	0.000	39.953	0.00	2.81
110.00	2" Conduit	Yes	0.50	0.000	0.00	0.00	0.00	0.089	0.000	39.991	0.00	1.93
110.00	3" Conduit	Yes	0.50	0.000	3.00	0.13	0.00	0.089	0.000	39.991	0.00	0.97
110.00	7/8" Coax	Yes	0.50	0.000	0.52	0.02	0.00	0.089	0.000	39.991	0.00	0.31
112.25	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.090	0.000	40.162	0.00	8.69
112.25	3" Conduit	Yes	2.25	0.000	3.00	0.56	0.00	0.090	0.000	40.162	0.00	4.35
112.25	7/8" Coax	Yes	2.25	0.000	0.52	0.10	0.00	0.090	0.000	40.162	0.00	1.40
115.00	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.091	0.000	40.367	0.00	10.63

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

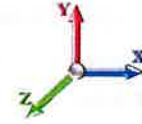


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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
115.00	3" Conduit	Yes	2.75	0.000	3.00	0.69	0.00	0.091	0.000	40.367	0.00	5.31
115.00	7/8" Coax	Yes	2.75	0.000	0.52	0.12	0.00	0.091	0.000	40.367	0.00	1.72
120.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	40.731	0.00	19.32
120.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.093	0.000	40.731	0.00	9.66
120.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.093	0.000	40.731	0.00	3.12
123.58	2" Conduit	Yes	3.58	0.000	0.00	0.00	0.00	0.095	0.000	40.984	0.00	13.85
123.58	3" Conduit	Yes	3.58	0.000	3.00	0.90	0.00	0.095	0.000	40.984	0.00	6.92
123.58	7/8" Coax	Yes	3.58	0.000	0.52	0.16	0.00	0.095	0.000	40.984	0.00	2.24
125.00	2" Conduit	Yes	1.42	0.000	0.00	0.00	0.00	0.097	0.000	41.082	0.00	5.47
125.00	3" Conduit	Yes	1.42	0.000	3.00	0.35	0.00	0.097	0.000	41.082	0.00	2.74
125.00	7/8" Coax	Yes	1.42	0.000	0.52	0.06	0.00	0.097	0.000	41.082	0.00	0.88
125.60	2" Conduit	Yes	0.60	0.000	0.00	0.00	0.00	0.097	0.000	41.124	0.00	2.32
125.60	3" Conduit	Yes	0.60	0.000	3.00	0.15	0.00	0.097	0.000	41.124	0.00	1.16
125.60	7/8" Coax	Yes	0.60	0.000	0.52	0.03	0.00	0.097	0.000	41.124	0.00	0.37
129.00	2" Conduit	Yes	3.40	0.000	0.00	0.00	0.00	0.099	0.000	41.355	0.00	13.14
129.00	3" Conduit	Yes	3.40	0.000	3.00	0.85	0.00	0.099	0.000	41.355	0.00	6.57
129.00	7/8" Coax	Yes	3.40	0.000	0.52	0.15	0.00	0.099	0.000	41.355	0.00	2.12
130.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.098	0.000	41.423	0.00	3.86
130.00	3" Conduit	Yes	1.00	0.000	3.00	0.25	0.00	0.098	0.000	41.423	0.00	1.93
130.00	7/8" Coax	Yes	1.00	0.000	0.52	0.04	0.00	0.098	0.000	41.423	0.00	0.62
135.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.085	0.000	41.753	0.00	19.32
135.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.085	0.000	41.753	0.00	9.66
136.26	2" Conduit	Yes	1.26	0.000	0.00	0.00	0.00	0.087	0.000	41.835	0.00	4.87
136.26	3" Conduit	Yes	1.26	0.000	3.00	0.31	0.00	0.087	0.000	41.835	0.00	2.43
140.00	2" Conduit	Yes	3.74	0.000	0.00	0.00	0.00	0.088	0.000	42.074	0.00	14.45
140.00	3" Conduit	Yes	3.74	0.000	3.00	0.94	0.00	0.088	0.000	42.074	0.00	7.23
145.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	42.386	0.00	19.32
145.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.091	0.000	42.386	0.00	9.66
150.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	42.690	0.00	19.32
150.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.094	0.000	42.690	0.00	9.66
155.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	42.985	0.00	19.32
155.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.097	0.000	42.985	0.00	9.66
160.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.002	43.274	0.00	19.32
160.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.101	1.002	43.274	0.00	9.66
161.50	2" Conduit	Yes	1.50	0.000	0.00	0.00	0.00	0.103	1.009	43.359	0.00	5.80
161.50	3" Conduit	Yes	1.50	0.000	3.00	0.38	0.00	0.103	1.009	43.359	0.00	2.90
165.00	2" Conduit	Yes	3.50	0.000	0.00	0.00	0.00	0.105	1.015	43.555	0.00	13.52
165.00	3" Conduit	Yes	3.50	0.000	3.00	0.88	0.00	0.105	1.015	43.555	0.00	6.76
165.25	2" Conduit	Yes	0.25	0.000	0.00	0.00	0.00	0.106	1.019	43.569	0.00	0.97
165.25	3" Conduit	Yes	0.25	0.000	3.00	0.06	0.00	0.106	1.019	43.569	0.00	0.48
169.58	2" Conduit	Yes	4.33	0.000	0.00	0.00	0.00	0.108	1.025	43.807	0.00	16.74
169.58	3" Conduit	Yes	4.33	0.000	3.00	1.08	0.00	0.108	1.025	43.807	0.00	8.37
170.00	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.109	1.027	43.829	0.00	1.61
170.00	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.109	1.027	43.829	0.00	0.81
175.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.034	44.098	0.00	19.32
175.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.111	1.034	44.098	0.00	9.66

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

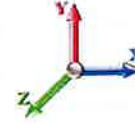


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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
<b>Totals:</b>											0.0	1,095.4

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

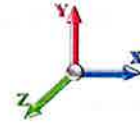
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**Load Case:** 1.2D + 1.0W 115 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 27

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-83.05	-46.41	0.00	-6590.5	0.00	6590.58	8794.96	2077.55	10247.3	10671.5	0.00	0.000	0.000	0.628
5.00	-80.19	-46.10	0.00	-6358.5	0.00	6358.56	8639.43	2040.81	9888.09	10295.5	0.09	-0.175	0.000	0.627
10.00	-77.38	-45.79	0.00	-6128.0	0.00	6128.07	8483.89	2004.07	9535.27	9926.22	0.37	-0.352	0.000	0.627
15.00	-74.61	-45.48	0.00	-5899.1	0.00	5899.12	8328.36	1967.33	9188.85	9563.67	0.84	-0.533	0.000	0.626
20.00	-71.88	-45.13	0.00	-5671.7	0.00	5671.74	8172.83	1930.59	8848.85	9207.87	1.49	-0.717	0.000	0.625
25.00	-69.20	-44.76	0.00	-5446.0	0.00	5446.09	8017.29	1893.85	8515.26	8858.82	2.35	-0.904	0.000	0.624
30.00	-66.56	-44.36	0.00	-5222.3	0.00	5222.31	7861.76	1857.11	8188.07	8516.51	3.39	-1.094	0.000	0.622
35.00	-63.97	-43.94	0.00	-5000.5	0.00	5000.53	7706.22	1820.37	7867.30	8180.95	4.64	-1.287	0.000	0.620
40.00	-61.41	-43.50	0.00	-4780.8	0.00	4780.85	7550.69	1783.63	7552.93	7852.13	6.10	-1.483	0.000	0.618
45.00	-58.98	-42.95	0.00	-4563.3	0.00	4563.35	7395.16	1746.89	7244.98	7530.06	7.76	-1.682	0.000	0.615
45.42	-58.72	-42.98	0.00	-4545.4	0.00	4545.45	7382.20	1743.83	7219.61	7503.52	7.90	-1.700	0.000	0.614
48.90	-55.90	-42.56	0.00	-4395.7	0.00	4395.74	7273.84	1718.23	7009.22	7283.52	9.20	-1.842	0.000	0.408
50.00	-55.00	-42.45	0.00	-4348.9	0.00	4348.93	7239.62	1710.15	6943.43	7214.73	9.62	-1.872	0.000	0.407
52.75	-52.81	-42.11	0.00	-4232.1	0.00	4232.19	5810.43	1383.44	5679.89	5870.80	10.73	-1.948	0.000	0.415
55.00	-51.90	-41.87	0.00	-4137.4	0.00	4137.45	5769.82	1370.22	5571.80	5773.48	11.66	-2.011	0.000	0.454
57.15	-51.04	-41.65	0.00	-4047.4	0.00	4047.43	5730.75	1357.58	5469.49	5680.95	12.58	-2.077	0.000	0.450
57.15	-51.04	-41.65	0.00	-4047.4	0.00	4047.43	5730.75	1357.58	5469.49	5680.95	12.58	-2.077	0.000	0.715
60.00	-49.85	-41.41	0.00	-3928.7	0.00	3928.74	5678.55	1340.82	5335.33	5559.03	13.85	-2.164	0.000	0.716
65.00	-47.84	-40.94	0.00	-3721.6	0.00	3721.68	5551.73	1311.43	5103.98	5314.51	16.24	-2.410	0.000	0.710
70.00	-45.86	-40.47	0.00	-3516.9	0.00	3516.96	5427.30	1282.04	4877.76	5077.73	18.90	-2.659	0.000	0.702
75.00	-43.92	-39.98	0.00	-3314.6	0.00	3314.62	5302.88	1252.65	4656.67	4846.34	21.82	-2.910	0.000	0.693
80.00	-42.04	-39.47	0.00	-3114.7	0.00	3114.71	5178.45	1223.26	4440.70	4620.35	25.00	-3.163	0.000	0.683
84.00	-40.60	-39.02	0.00	-2956.8	0.00	2956.82	5078.91	1199.74	4271.62	4443.45	27.74	-3.368	0.000	0.674
85.00	-40.00	-38.93	0.00	-2917.8	0.00	2917.80	5054.02	1193.86	4229.87	4399.76	28.45	-3.421	0.000	0.672
87.00	-38.84	-38.70	0.00	-2839.9	0.00	2839.95	5004.25	1182.11	4146.97	4313.04	29.90	-3.526	0.000	0.404
90.00	-37.19	-38.28	0.00	-2723.8	0.00	2723.86	4929.59	1164.47	4024.16	4184.57	32.15	-3.620	0.000	0.397
90.42	-36.92	-38.27	0.00	-2707.9	0.00	2707.91	3591.78	889.89	3133.47	3116.43	32.46	-3.634	0.000	0.423
95.00	-35.62	-37.76	0.00	-2532.5	0.00	2532.52	3535.98	869.68	2992.78	2997.74	36.02	-3.776	0.000	0.462
100.00	-34.16	-36.88	0.00	-2343.7	0.00	2343.71	3473.75	847.63	2842.98	2869.66	40.06	-3.950	0.000	0.441
105.00	-32.81	-36.32	0.00	-2159.3	0.00	2159.31	3410.09	825.59	2697.03	2743.13	44.29	-4.121	0.000	0.420
109.50	-31.22	-34.39	0.00	-1989.2	0.00	1989.23	3351.58	805.75	2568.96	2630.66	48.24	-4.272	0.000	0.398
110.00	-31.07	-34.35	0.00	-1972.0	0.00	1972.04	3345.00	803.55	2554.93	2618.25	48.69	-4.289	0.000	0.396
112.25	-30.48	-34.11	0.00	-1894.7	0.00	1894.75	3315.25	793.63	2492.23	2562.62	50.73	-4.365	0.000	0.386
112.25	-30.48	-34.11	0.00	-1894.7	0.00	1894.75	3315.25	793.63	2492.23	2562.62	50.73	-4.365	0.000	0.739
115.00	-29.71	-33.87	0.00	-1800.9	0.00	1800.96	3278.49	781.50	2416.67	2495.11	53.27	-4.456	0.000	0.733
120.00	-28.39	-33.38	0.00	-1631.6	0.00	1631.62	3210.56	759.46	2282.25	2373.80	58.10	-4.769	0.000	0.698
123.58	-27.48	-33.01	0.00	-1512.0	0.00	1512.02	3148.16	743.66	2188.29	2278.75	61.76	-4.993	0.000	0.674
125.00	-26.94	-32.85	0.00	-1465.2	0.00	1465.26	3121.72	737.41	2151.69	2240.43	63.25	-5.082	0.000	0.665
125.60	-26.68	-32.80	0.00	-1445.5	0.00	1445.55	3110.52	734.77	2136.28	2224.30	63.89	-5.120	0.000	0.373
129.00	-25.45	-32.37	0.00	-1334.0	0.00	1334.03	2149.47	550.17	1596.92	1538.58	67.58	-5.237	0.000	0.393
130.00	-25.16	-32.17	0.00	-1301.5	0.00	1301.52	2141.27	546.86	1577.79	1523.43	68.68	-5.271	0.000	0.435
135.00	-24.21	-31.63	0.00	-1140.6	0.00	1140.66	2099.38	530.33	1483.83	1448.11	74.29	-5.454	0.000	0.395
136.26	-23.94	-31.52	0.00	-1100.8	0.00	1100.80	2088.60	526.16	1460.60	1429.26	75.73	-5.499	0.000	0.385
136.26	-23.94	-31.52	0.00	-1100.8	0.00	1100.80	2088.60	526.16	1460.60	1429.26	75.73	-5.499	0.000	0.769
140.00	-23.17	-31.18	0.00	-982.92	0.00	982.92	2056.07	513.79	1392.75	1373.65	80.09	-5.627	0.000	0.731
145.00	-19.67	-27.38	0.00	-827.01	0.00	827.01	2011.34	497.26	1304.56	1300.16	86.15	-5.954	0.000	0.649
150.00	-18.72	-26.92	0.00	-690.10	0.00	690.10	1965.18	480.73	1219.25	1227.71	92.54	-6.256	0.000	0.575
155.00	-15.02	-21.67	0.00	-555.50	0.00	555.50	1917.59	464.19	1136.83	1156.40	99.23	-6.531	0.000	0.490

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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160.00	-14.27	-21.18	0.00	-447.17	0.00	447.17	1868.58	447.66	1057.29	1086.34	106.19	-6.776	0.000	0.422
161.50	-12.36	-19.79	0.00	-415.41	0.00	415.41	1853.60	442.70	1033.99	1065.57	108.32	-6.847	0.000	0.399
165.00	-11.86	-19.44	0.00	-346.15	0.00	346.15	1818.15	431.13	980.64	1017.59	113.39	-6.997	0.000	0.349
165.25	-11.79	-19.43	0.00	-341.29	0.00	341.29	1815.59	430.30	976.88	1014.19	113.76	-7.008	0.000	0.345
169.58	-10.91	-18.96	0.00	-257.08	0.00	257.08	1040.26	282.24	630.39	573.59	120.18	-7.167	0.000	0.463
170.00	-10.83	-18.94	0.00	-249.18	0.00	249.18	1038.39	281.32	626.30	570.68	120.80	-7.182	0.000	0.452
175.00	-6.85	-12.02	0.00	-154.46	0.00	154.46	1015.17	270.30	578.18	535.91	128.42	-7.379	0.000	0.297
180.00	-6.47	-11.59	0.00	-94.37	0.00	94.37	990.53	259.27	531.99	501.43	136.21	-7.516	0.000	0.197
185.00	-3.00	-5.21	0.00	-36.44	0.00	36.44	964.47	248.25	487.72	467.32	144.11	-7.598	0.000	0.082
187.00	-2.83	-4.49	0.00	-21.20	0.00	21.20	953.65	243.84	470.55	453.81	147.28	-7.616	0.000	0.050
190.00	-2.65	-4.25	0.00	-7.73	0.00	7.73	936.98	237.23	445.37	433.69	152.06	-7.629	0.000	0.021
191.50	-0.20	-0.36	0.00	-1.36	0.00	1.36	928.46	233.92	433.04	423.70	154.45	-7.631	0.000	0.003
195.00	-0.05	-0.09	0.00	-0.09	0.00	0.09	908.07	226.21	404.95	400.62	160.03	-7.632	0.000	0.000
196.00	0.00	-0.09	0.00	0.00	0.00	0.00	902.11	224.00	397.09	394.08	161.62	-7.632	0.000	0.000

## Wind Loading - Shaft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

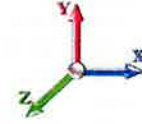
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**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 27

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	26.325	28.96	530.39	0.750	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	26.325	28.96	521.11	0.750	0.000	5.00	25.267	18.95	548.7	0.0	1796.6
10.00		1.00	0.85	26.325	28.96	511.83	0.750	0.000	5.00	24.821	18.62	539.1	0.0	1764.6
15.00		1.00	0.85	26.325	28.96	502.55	0.750	0.000	5.00	24.375	18.28	529.4	0.0	1732.5
20.00		1.00	0.90	27.932	30.72	508.10	0.750	0.000	5.00	23.929	17.95	551.4	0.0	1700.5
25.00		1.00	0.95	29.275	32.20	510.38	0.750	0.000	5.00	23.482	17.61	567.2	0.0	1668.4
30.00		1.00	0.98	30.421	33.46	510.30	0.750	0.000	5.00	23.036	17.28	578.1	0.0	1636.4
35.00		1.00	1.01	31.424	34.57	508.50	0.750	0.000	5.00	22.590	16.94	585.7	0.0	1604.3
40.00		1.00	1.04	32.320	35.55	505.42	0.750	0.000	5.00	22.144	16.61	590.5	0.0	1572.3
45.00		1.00	1.07	33.132	36.44	501.31	0.750	0.000	5.00	21.698	16.27	593.1	0.0	1540.2
45.42	Bot - Section 2	1.00	1.07	33.196	36.52	500.93	0.750	0.000	0.42	1.788	1.34	49.0	0.0	126.9
48.90	RB1	1.00	1.09	33.716	37.09	497.52	0.750	0.000	3.48	15.123	11.34	420.7	0.0	1913.1
50.00		1.00	1.09	33.875	37.26	496.37	0.750	0.000	1.10	4.731	3.55	132.2	0.0	598.3
52.75	Top - Section 1	1.00	1.11	34.259	37.68	493.35	0.750	0.000	2.75	11.732	8.80	331.6	0.0	1483.6
55.00		1.00	1.12	34.561	38.02	500.87	0.750	0.000	2.25	9.499	7.12	270.8	0.0	540.6
57.15	RT1	1.00	1.12	34.841	38.33	498.30	0.750	0.000	2.15	8.992	6.74	258.5	0.0	511.7
60.00		1.00	1.14	35.200	38.72	494.74	0.750	0.000	2.85	11.793	8.84	342.5	0.0	671.0
65.00		1.00	1.16	35.798	39.38	488.11	0.750	0.000	5.00	20.339	15.25	600.7	0.0	1157.1
70.00		1.00	1.17	36.361	40.00	481.02	0.750	0.000	5.00	19.893	14.92	596.7	0.0	1131.4
75.00		1.00	1.19	36.893	40.58	473.54	0.750	0.000	5.00	19.446	14.58	591.9	0.0	1105.8
80.00		1.00	1.21	37.398	41.14	465.70	0.750	0.000	5.00	19.000	14.25	586.2	0.0	1080.1
84.00	Bot - Section 3	1.00	1.22	37.784	41.56	459.20	0.750	0.000	4.00	14.879	11.16	463.8	0.0	845.6
85.00		1.00	1.22	37.878	41.67	457.55	0.750	0.000	1.00	3.739	2.80	116.8	0.0	368.7
87.00	RB2	1.00	1.23	38.064	41.87	454.21	0.750	0.000	2.00	7.424	5.57	233.1	0.0	732.0
90.00		1.00	1.24	38.337	42.17	449.11	0.750	0.000	3.00	11.003	8.25	348.0	0.0	1084.5
90.42	Top - Section 2	1.00	1.24	38.374	42.21	448.39	0.750	0.000	0.42	1.515	1.14	48.0	0.0	149.3
95.00		1.00	1.25	38.776	42.65	448.45	0.750	0.000	4.58	16.465	12.35	526.7	0.0	703.6
100.00	Appurtenance(s)	1.00	1.27	39.197	43.12	439.56	0.750	0.000	5.00	17.535	13.15	567.0	0.0	749.2
105.00		1.00	1.28	39.601	43.56	430.43	0.750	0.000	5.00	17.089	12.82	558.3	0.0	730.0
109.50	Appurtenance(s)	1.00	1.29	39.953	43.95	422.05	0.750	0.000	4.50	14.998	11.25	494.4	0.0	640.5
110.00		1.00	1.29	39.991	43.99	421.11	0.750	0.000	0.50	1.644	1.23	54.2	0.0	70.2
112.25	RT2	1.00	1.30	40.162	44.18	416.85	0.750	0.000	2.25	7.344	5.51	243.3	0.0	313.5
115.00		1.00	1.30	40.367	44.40	411.59	0.750	0.000	2.75	8.853	6.64	294.8	0.0	377.9
120.00		1.00	1.32	40.731	44.80	401.89	0.750	0.000	5.00	15.750	11.81	529.3	0.0	672.2
123.58	Bot - Section 4	1.00	1.32	40.984	45.08	394.84	0.750	0.000	3.58	11.013	8.26	372.4	0.0	469.9
125.00		1.00	1.33	41.082	45.19	392.03	0.750	0.000	1.42	4.359	3.27	147.7	0.0	322.9
125.60	RB3	1.00	1.33	41.124	45.24	390.83	0.750	0.000	0.60	1.835	1.38	62.3	0.0	136.0
129.00	Top - Section 3	1.00	1.34	41.355	45.49	384.02	0.750	0.000	3.40	10.278	7.71	350.7	0.0	761.2
130.00	Appurtenance(s)	1.00	1.34	41.423	45.57	388.24	0.750	0.000	1.00	2.984	2.24	102.0	0.0	95.7
135.00		1.00	1.35	41.753	45.93	378.10	0.750	0.000	5.00	14.651	10.99	504.7	0.0	469.9
136.26	RT3	1.00	1.35	41.835	46.02	375.52	0.750	0.000	1.26	3.622	2.72	125.0	0.0	116.1
140.00		1.00	1.36	42.074	46.28	367.81	0.750	0.000	3.74	10.583	7.94	367.4	0.0	339.4
145.00	Appurtenance(s)	1.00	1.37	42.386	46.62	357.40	0.750	0.000	5.00	13.759	10.32	481.1	0.0	441.1
150.00		1.00	1.38	42.690	46.96	346.85	0.750	0.000	5.00	13.313	9.98	468.9	0.0	426.7
155.00	Appurtenance(s)	1.00	1.39	42.985	47.28	336.19	0.750	0.000	5.00	12.867	9.65	456.3	0.0	412.2
160.00		1.00	1.40	43.274	47.60	325.42	0.751 *	0.000	5.00	12.421	9.33	444.3	0.0	397.8
161.50	Appurtenance(s)	1.00	1.40	43.359	47.69	322.16	0.757 *	0.000	1.50	3.639	2.75	131.4	0.0	116.5



## Wind Loading - Shaft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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165.00	1.00	1.41	43.555	47.91	314.53	0.761 *	0.000	3.50	8.335	6.34	304.0	0.0	266.8	
165.25 Bot - Section 5	1.00	1.41	43.569	47.93	313.99	0.765 *	0.000	0.25	0.587	0.45	21.5	0.0	18.8	
169.58 Top - Section 4	1.00	1.41	43.807	48.19	304.47	0.769 *	0.000	4.33	10.136	7.79	375.5	0.0	537.0	
170.00	1.00	1.42	43.829	48.21	307.82	0.770 *	0.000	0.42	0.957	0.74	35.5	0.0	20.5	
175.00 Appurtenance(s)	1.00	1.42	44.098	48.51	296.75	0.775 *	0.000	5.00	11.242	8.71	422.7	0.0	240.6	
180.00	1.00	1.43	44.360	48.80	285.58	0.750	0.000	5.00	10.796	8.10	395.1	0.0	231.0	
185.00 Appurtenance(s)	1.00	1.44	44.617	49.08	274.32	0.750	0.000	5.00	10.350	7.76	381.0	0.0	221.4	
187.00 Appurtenance(s)	1.00	1.44	44.718	49.19	269.80	0.750	0.000	2.00	4.015	3.01	148.1	0.0	85.9	
190.00	1.00	1.45	44.868	49.35	262.98	0.750	0.000	3.00	5.889	4.42	218.0	0.0	125.9	
191.50 Appurtenance(s)	1.00	1.45	44.942	49.44	259.56	0.750	0.000	1.50	2.884	2.16	106.9	0.0	61.7	
195.00	1.00	1.46	45.114	49.63	251.55	0.750	0.000	3.50	6.573	4.93	244.7	0.0	140.5	
196.00 Appurtenance(s)	1.00	1.46	45.163	49.68	249.25	0.750	0.000	1.00	1.838	1.38	68.5	0.0	39.3	
<b>Totals:</b>								<b>196.00</b>				<b>20,477.1</b>	<b>39,267.7</b>	

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 27

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	196.00	6' Lightning rod	1	45.163	49.679	1.00	1.00	0.38	5.85	0.000	0.000	18.88	0.00	0.00
2	191.50	1900MHz - RRU	3	44.942	49.436	0.54	0.80	6.11	118.80	0.000	0.000	302.08	0.00	0.00
3	191.50	APXVTM14-C-120	3	44.942	49.436	0.68	0.80	12.93	151.20	0.000	0.000	639.39	0.00	0.00
4	191.50	APXVSP18-C-A20	3	44.942	49.436	0.66	0.80	15.98	153.90	0.000	0.000	789.79	0.00	0.00
5	191.50	800MHz - RRU	3	44.942	49.436	0.54	0.80	4.00	143.10	0.000	0.000	197.94	0.00	0.00
6	191.50	RRH8x20-25 - RRU	3	44.942	49.436	0.54	0.80	6.51	189.00	0.000	0.000	321.95	0.00	0.00
7	191.50	800MHz Filter	3	44.942	49.436	0.54	0.80	1.25	23.76	0.000	0.000	62.01	0.00	0.00
8	191.50	ACU-A20-N - RET	4	44.942	49.436	0.60	0.80	0.34	3.60	0.000	0.000	16.61	0.00	0.00
9	191.50	Low Profile Platform	1	44.942	49.436	1.00	1.00	22.00	1350.00	0.000	0.000	1087.60	0.00	0.00
10	187.00	Pipe mount	1	44.718	49.190	0.56	0.75	1.48	36.00	0.000	0.000	72.77	0.00	0.00
11	187.00	BA80-41-DIN	1	45.227	49.750	1.00	1.00	9.40	61.20	0.000	10.333	467.65	0.00	4832.36
12	185.00	JAHH-65C-R3B-V2	6	44.617	49.078	0.62	0.75	47.85	433.08	0.000	0.000	2348.17	0.00	0.00
13	185.00	Kaelus BSF0020F3V1-1	2	44.617	49.078	0.50	0.75	1.14	31.68	0.000	0.000	55.74	0.00	0.00
14	185.00	MT6407-77A	3	44.617	49.078	0.52	0.75	7.39	214.38	0.000	0.000	362.53	0.00	0.00
15	185.00	HRK12-HD	1	44.617	49.078	0.75	1.00	9.00	365.95	0.000	0.000	441.71	0.00	0.00
16	185.00	DB-C1-12C-24AB-OZ	1	44.617	49.078	0.75	0.75	3.04	28.80	0.000	0.000	149.44	0.00	0.00
17	185.00	RFV01U-D1A	3	44.617	49.078	0.62	0.75	3.51	227.88	0.000	0.000	172.31	0.00	0.00
18	185.00	CBC23SR-43	3	44.617	49.078	0.52	0.75	0.66	13.23	0.000	0.000	32.47	0.00	0.00
19	185.00	RFV01U-D2A	3	44.617	49.078	0.58	0.75	3.30	189.81	0.000	0.000	161.93	0.00	0.00
20	185.00	BXA-70063 6CF_2	3	44.617	49.078	0.61	0.75	13.97	45.90	0.000	0.000	685.46	0.00	0.00
21	185.00	Low Profile	1	44.617	49.078	1.00	1.00	22.00	1350.00	0.000	0.000	1079.72	0.00	0.00
22	175.00	HRK12 (Handrail Kit)	1	44.098	48.508	1.00	1.00	6.75	235.55	0.000	0.000	327.43	0.00	0.00
23	175.00	Kathrein 800-10965	6	44.098	48.508	0.53	0.75	44.12	586.44	0.000	0.000	2140.30	0.00	0.00
24	175.00	Low Profile Platform	1	44.098	48.508	1.00	1.00	22.00	1350.00	0.000	0.000	1067.17	0.00	0.00
25	175.00	DC6-48-60-18-8F	1	44.098	48.508	0.80	0.80	0.74	29.52	0.000	0.000	35.70	0.00	0.00
26	175.00	RRUS-12	3	44.098	48.508	0.54	0.80	4.34	135.00	0.000	0.000	210.60	0.00	0.00
27	175.00	Powerwave LGP21401	12	44.098	48.508	0.75	0.75	11.61	152.28	0.000	0.000	563.17	0.00	0.00
28	175.00	Powerwave LGP13519	12	44.098	48.508	0.75	0.75	3.06	57.24	0.000	0.000	148.43	0.00	0.00
29	175.00	Ericsson RRUS 4478 B14	3	44.098	48.508	0.50	0.75	2.49	160.38	0.000	0.000	120.66	0.00	0.00
30	175.00	Ericsson RRUS 32 B30	3	44.098	48.508	0.50	0.75	4.13	162.00	0.000	0.000	200.36	0.00	0.00
31	175.00	Raycap	2	44.098	48.508	1.00	1.00	9.56	28.80	0.000	0.000	463.73	0.00	0.00
32	175.00	Powerwave 7770	3	44.098	48.508	0.68	0.80	11.22	94.50	0.000	0.000	544.25	0.00	0.00
33	175.00	Ericsson RRUS 4449	3	44.098	48.508	0.50	0.75	2.97	191.70	0.000	0.000	144.06	0.00	0.00
34	161.50	Low Profile Platform	1	43.359	47.695	1.00	1.00	22.00	1350.00	0.000	0.000	1049.28	0.00	0.00
35	155.00	RFS	3	42.985	47.284	0.56	0.80	34.00	345.60	0.000	0.000	1607.80	0.00	0.00
36	155.00	Commscope VV-65A-R1	3	42.985	47.284	0.59	0.80	14.03	79.65	0.000	0.000	663.41	0.00	0.00
37	155.00	Ericsson AIR6419 B41	3	42.985	47.284	0.61	0.80	6.93	178.47	0.000	0.000	327.73	0.00	0.00
38	155.00	T-Arms w/ Handrail kit &	3	42.985	47.284	0.56	0.75	29.53	1350.00	0.000	0.000	1396.35	0.00	0.00
39	155.00	Ericsson 4449 B71 + B85	3	42.985	47.284	0.54	0.80	3.17	197.64	0.000	0.000	149.78	0.00	0.00
40	155.00	Ericsson 4460 B25 + B66	3	42.985	47.284	0.54	0.80	4.58	294.30	0.000	0.000	216.69	0.00	0.00
41	155.00	Ericsson KRY 112 144/1	3	42.985	47.284	0.54	0.80	1.45	41.04	0.000	0.000	68.43	0.00	0.00
42	145.00	TA08025-B605	3	42.386	46.625	0.50	0.75	2.95	202.50	0.000	0.000	137.76	0.00	0.00
43	145.00	MC-PK8-DSH	1	42.386	46.625	1.00	1.00	37.59	1554.30	0.000	0.000	1752.62	0.00	0.00
44	145.00	MX08FRO665-21	3	42.386	46.625	0.55	0.75	20.80	174.15	0.000	0.000	969.60	0.00	0.00
45	145.00	TA08025-B604	3	42.386	46.625	0.50	0.75	2.95	172.53	0.000	0.000	137.76	0.00	0.00
46	145.00	RDIDC-9181-PF-48	1	42.386	46.625	0.75	0.75	1.51	19.71	0.000	0.000	70.29	0.00	0.00
47	130.00	ANT150F2	1	41.589	45.748	1.00	1.00	1.23	11.70	0.000	2.500	56.27	0.00	140.68

## Discrete Appurtenance Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 25
	<b>Struct Class:</b> II	



48	130.00	Standoff	1	41.423	45.565	0.56	0.75	1.48	36.00	0.000	0.000	67.41	0.00	0.00	
49	109.50	Standoff	1	39.953	43.948	0.56	0.75	1.48	36.00	0.000	0.000	65.02	0.00	0.00	
50	109.50	Standoff	5	39.953	43.948	0.56	0.75	7.40	180.00	0.000	0.000	325.08	0.00	0.00	
51	109.50	4' Omni	1	40.105	44.116	1.00	1.00	1.00	9.00	0.000	2.000	44.12	0.00	88.23	
52	109.50	14' Omni	5	40.478	44.525	1.00	1.00	21.00	180.00	0.000	7.000	935.03	0.00	6545.22	
53	100.00	Standoff	1	39.197	43.116	0.56	0.75	1.48	36.00	0.000	0.000	63.79	0.00	0.00	
54	100.00	MPRD	1	39.197	43.116	1.00	1.00	6.10	32.40	0.000	0.000	263.01	0.00	0.00	
<b>Totals:</b>									<b>14,801.52</b>						<b>25,799.22</b>

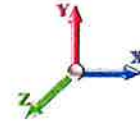
## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 26
	<b>Struct Class:</b> II	



**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 27

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		548.74	2036.62	0.00	0.00
10.00		539.06	2004.56	0.00	0.00
15.00		529.37	1972.50	0.00	0.00
20.00		551.40	1940.45	0.00	0.00
25.00		567.15	1908.39	0.00	0.00
30.00		578.15	1876.34	0.00	0.00
35.00		585.65	1844.28	0.00	0.00
40.00		590.46	1812.22	0.00	0.00
45.00		593.09	1780.17	0.00	0.00
45.42		48.97	146.90	0.00	0.00
48.90		420.66	2080.28	0.00	0.00
50.00		132.21	651.11	0.00	0.00
52.75		331.59	1615.56	0.00	0.00
55.00		270.84	648.57	0.00	0.00
57.15		258.47	614.89	0.00	0.00
60.00		342.46	807.78	0.00	0.00
65.00		600.68	1397.02	0.00	0.00
70.00		596.74	1371.38	0.00	0.00
75.00		591.89	1345.73	0.00	0.00
80.00		586.23	1320.09	0.00	0.00
84.00		463.81	1037.61	0.00	0.00
85.00		116.84	416.68	0.00	0.00
87.00		233.15	827.97	0.00	0.00
90.00		347.99	1228.48	0.00	0.00
90.42		47.98	169.35	0.00	0.00
95.00		526.73	923.62	0.00	0.00
100.00	(2) attachments	893.82	1057.55	0.00	0.00
105.00		558.31	969.74	0.00	0.00
109.50	(12) attachments	1863.61	1261.32	0.00	6633.45
110.00		54.25	93.75	0.00	0.00
112.25		243.32	419.51	0.00	0.00
115.00		294.83	507.44	0.00	0.00
120.00		529.26	907.72	0.00	0.00
123.58		372.38	638.70	0.00	0.00
125.00		147.73	389.64	0.00	0.00
125.60		62.26	164.21	0.00	0.00
129.00		350.68	921.36	0.00	0.00
130.00	(2) attachments	225.64	190.51	0.00	140.68
135.00		504.68	703.05	0.00	0.00
136.26		125.00	174.89	0.00	0.00
140.00		367.36	513.73	0.00	0.00
145.00	(11) attachments	3549.16	2797.39	0.00	0.00
150.00		468.87	651.59	0.00	0.00
155.00	(21) attachments	4886.50	3123.86	0.00	0.00
160.00		444.28	568.20	0.00	0.00
161.50	(1) attachments	1180.65	1517.65	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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165.00		303.98	386.13	0.00	0.00
165.25		21.51	27.31	0.00	0.00
169.58		375.50	684.67	0.00	0.00
170.00		35.52	34.69	0.00	0.00
175.00	(50) attachments	6388.58	3594.45	0.00	0.00
180.00		395.09	311.65	0.00	0.00
185.00	(26) attachments	5870.43	3202.74	0.00	0.00
187.00	(2) attachments	688.54	202.11	0.00	4832.36
190.00		217.97	153.07	0.00	0.00
191.50	(23) attachments	3524.30	2208.60	0.00	0.00
195.00		244.66	140.51	0.00	0.00
196.00	(1) attachments	87.36	45.13	0.00	0.00
	<b>Totals:</b>	<b>46,276.32</b>	<b>62,341.41</b>	<b>0.00</b>	<b>11,606.48</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.058	0.000	26.325	0.00	14.49
5.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.058	0.000	26.325	0.00	7.25
5.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.058	0.000	26.325	0.00	2.34
10.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	26.325	0.00	14.49
10.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.059	0.000	26.325	0.00	7.25
10.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.059	0.000	26.325	0.00	2.34
15.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.060	0.000	26.325	0.00	14.49
15.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.060	0.000	26.325	0.00	7.25
15.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.060	0.000	26.325	0.00	2.34
20.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.061	0.000	27.932	0.00	14.49
20.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.061	0.000	27.932	0.00	7.25
20.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.061	0.000	27.932	0.00	2.34
25.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	29.275	0.00	14.49
25.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.062	0.000	29.275	0.00	7.25
25.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.062	0.000	29.275	0.00	2.34
30.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.064	0.000	30.421	0.00	14.49
30.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.064	0.000	30.421	0.00	7.25
30.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.064	0.000	30.421	0.00	2.34
35.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.065	0.000	31.424	0.00	14.49
35.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.065	0.000	31.424	0.00	7.25
35.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.065	0.000	31.424	0.00	2.34
40.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	32.320	0.00	14.49
40.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.066	0.000	32.320	0.00	7.25
40.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.066	0.000	32.320	0.00	2.34
45.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	33.132	0.00	14.49
45.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.068	0.000	33.132	0.00	7.25
45.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.068	0.000	33.132	0.00	2.34
45.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.068	0.000	33.196	0.00	1.21
45.42	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.068	0.000	33.196	0.00	0.60
45.42	7/8" Coax	Yes	0.42	0.000	0.52	0.02	0.00	0.068	0.000	33.196	0.00	0.20
48.90	2" Conduit	Yes	3.48	0.000	0.00	0.00	0.00	0.069	0.000	33.716	0.00	10.09
48.90	3" Conduit	Yes	3.48	0.000	3.00	0.87	0.00	0.069	0.000	33.716	0.00	5.05
48.90	7/8" Coax	Yes	3.48	0.000	0.52	0.15	0.00	0.069	0.000	33.716	0.00	1.63
50.00	2" Conduit	Yes	1.10	0.000	0.00	0.00	0.00	0.070	0.000	33.875	0.00	3.19
50.00	3" Conduit	Yes	1.10	0.000	3.00	0.28	0.00	0.070	0.000	33.875	0.00	1.59
50.00	7/8" Coax	Yes	1.10	0.000	0.52	0.05	0.00	0.070	0.000	33.875	0.00	0.51
52.75	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.070	0.000	34.259	0.00	7.97
52.75	3" Conduit	Yes	2.75	0.000	3.00	0.69	0.00	0.070	0.000	34.259	0.00	3.98
52.75	7/8" Coax	Yes	2.75	0.000	0.52	0.12	0.00	0.070	0.000	34.259	0.00	1.29
55.00	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.069	0.000	34.561	0.00	6.52
55.00	3" Conduit	Yes	2.25	0.000	3.00	0.56	0.00	0.069	0.000	34.561	0.00	3.26
55.00	7/8" Coax	Yes	2.25	0.000	0.52	0.10	0.00	0.069	0.000	34.561	0.00	1.05
57.15	2" Conduit	Yes	2.15	0.000	0.00	0.00	0.00	0.070	0.000	34.841	0.00	6.23
57.15	3" Conduit	Yes	2.15	0.000	3.00	0.54	0.00	0.070	0.000	34.841	0.00	3.12
57.15	7/8" Coax	Yes	2.15	0.000	0.52	0.09	0.00	0.070	0.000	34.841	0.00	1.01
60.00	2" Conduit	Yes	2.85	0.000	0.00	0.00	0.00	0.071	0.000	35.200	0.00	8.26
60.00	3" Conduit	Yes	2.85	0.000	3.00	0.71	0.00	0.071	0.000	35.200	0.00	4.13

## Linear Appurtenance Segment Forces (Factored)

Structure: CT46138-A-SBA	Code: TIA-222-H	7/7/2023
Site Name: Torrington-Oandg Ind Inc	Exposure: C	
Height: 196.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Struct Class: II	Page: 29
Topography: 1		



Load Case: 0.9D + 1.0W 115 mph Wind

Dead Load Factor 0.90  
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	7/8" Coax	Yes	2.85	0.000	0.52	0.12	0.00	0.071	0.000	35.200	0.00	1.33
65.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	35.798	0.00	14.49
65.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.072	0.000	35.798	0.00	7.25
65.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.072	0.000	35.798	0.00	2.34
70.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	36.361	0.00	14.49
70.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.074	0.000	36.361	0.00	7.25
70.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.074	0.000	36.361	0.00	2.34
75.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	36.893	0.00	14.49
75.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.075	0.000	36.893	0.00	7.25
75.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.075	0.000	36.893	0.00	2.34
80.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	37.398	0.00	14.49
80.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.077	0.000	37.398	0.00	7.25
80.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.077	0.000	37.398	0.00	2.34
84.00	2" Conduit	Yes	4.00	0.000	0.00	0.00	0.00	0.079	0.000	37.784	0.00	11.59
84.00	3" Conduit	Yes	4.00	0.000	3.00	1.00	0.00	0.079	0.000	37.784	0.00	5.80
84.00	7/8" Coax	Yes	4.00	0.000	0.52	0.17	0.00	0.079	0.000	37.784	0.00	1.87
85.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.080	0.000	37.878	0.00	2.90
85.00	3" Conduit	Yes	1.00	0.000	3.00	0.25	0.00	0.080	0.000	37.878	0.00	1.45
85.00	7/8" Coax	Yes	1.00	0.000	0.52	0.04	0.00	0.080	0.000	37.878	0.00	0.47
87.00	2" Conduit	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	38.064	0.00	5.80
87.00	3" Conduit	Yes	2.00	0.000	3.00	0.50	0.00	0.080	0.000	38.064	0.00	2.90
87.00	7/8" Coax	Yes	2.00	0.000	0.52	0.09	0.00	0.080	0.000	38.064	0.00	0.94
90.00	2" Conduit	Yes	3.00	0.000	0.00	0.00	0.00	0.081	0.000	38.337	0.00	8.69
90.00	3" Conduit	Yes	3.00	0.000	3.00	0.75	0.00	0.081	0.000	38.337	0.00	4.35
90.00	7/8" Coax	Yes	3.00	0.000	0.52	0.13	0.00	0.081	0.000	38.337	0.00	1.40
90.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.082	0.000	38.374	0.00	1.21
90.42	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.082	0.000	38.374	0.00	0.60
90.42	7/8" Coax	Yes	0.42	0.000	0.52	0.02	0.00	0.082	0.000	38.374	0.00	0.20
95.00	2" Conduit	Yes	4.58	0.000	0.00	0.00	0.00	0.082	0.000	38.776	0.00	13.28
95.00	3" Conduit	Yes	4.58	0.000	3.00	1.15	0.00	0.082	0.000	38.776	0.00	6.64
95.00	7/8" Coax	Yes	4.58	0.000	0.52	0.20	0.00	0.082	0.000	38.776	0.00	2.14
100.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	39.197	0.00	14.49
100.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.084	0.000	39.197	0.00	7.25
100.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.084	0.000	39.197	0.00	2.34
105.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	39.601	0.00	14.49
105.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.086	0.000	39.601	0.00	7.25
105.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.086	0.000	39.601	0.00	2.34
109.50	2" Conduit	Yes	4.50	0.000	0.00	0.00	0.00	0.088	0.000	39.953	0.00	13.04
109.50	3" Conduit	Yes	4.50	0.000	3.00	1.13	0.00	0.088	0.000	39.953	0.00	6.52
109.50	7/8" Coax	Yes	4.50	0.000	0.52	0.20	0.00	0.088	0.000	39.953	0.00	2.11
110.00	2" Conduit	Yes	0.50	0.000	0.00	0.00	0.00	0.089	0.000	39.991	0.00	1.45
110.00	3" Conduit	Yes	0.50	0.000	3.00	0.13	0.00	0.089	0.000	39.991	0.00	0.72
110.00	7/8" Coax	Yes	0.50	0.000	0.52	0.02	0.00	0.089	0.000	39.991	0.00	0.23
112.25	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.090	0.000	40.162	0.00	6.52
112.25	3" Conduit	Yes	2.25	0.000	3.00	0.56	0.00	0.090	0.000	40.162	0.00	3.26
112.25	7/8" Coax	Yes	2.25	0.000	0.52	0.10	0.00	0.090	0.000	40.162	0.00	1.05
115.00	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.091	0.000	40.367	0.00	7.97

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

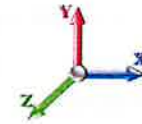


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**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
115.00	3" Conduit	Yes	2.75	0.000	3.00	0.69	0.00	0.091	0.000	40.367	0.00	3.98
115.00	7/8" Coax	Yes	2.75	0.000	0.52	0.12	0.00	0.091	0.000	40.367	0.00	1.29
120.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	40.731	0.00	14.49
120.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.093	0.000	40.731	0.00	7.25
120.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.093	0.000	40.731	0.00	2.34
123.58	2" Conduit	Yes	3.58	0.000	0.00	0.00	0.00	0.095	0.000	40.984	0.00	10.38
123.58	3" Conduit	Yes	3.58	0.000	3.00	0.90	0.00	0.095	0.000	40.984	0.00	5.19
123.58	7/8" Coax	Yes	3.58	0.000	0.52	0.16	0.00	0.095	0.000	40.984	0.00	1.68
125.00	2" Conduit	Yes	1.42	0.000	0.00	0.00	0.00	0.097	0.000	41.082	0.00	4.11
125.00	3" Conduit	Yes	1.42	0.000	3.00	0.35	0.00	0.097	0.000	41.082	0.00	2.05
125.00	7/8" Coax	Yes	1.42	0.000	0.52	0.06	0.00	0.097	0.000	41.082	0.00	0.66
125.60	2" Conduit	Yes	0.60	0.000	0.00	0.00	0.00	0.097	0.000	41.124	0.00	1.74
125.60	3" Conduit	Yes	0.60	0.000	3.00	0.15	0.00	0.097	0.000	41.124	0.00	0.87
125.60	7/8" Coax	Yes	0.60	0.000	0.52	0.03	0.00	0.097	0.000	41.124	0.00	0.28
129.00	2" Conduit	Yes	3.40	0.000	0.00	0.00	0.00	0.099	0.000	41.355	0.00	9.85
129.00	3" Conduit	Yes	3.40	0.000	3.00	0.85	0.00	0.099	0.000	41.355	0.00	4.93
129.00	7/8" Coax	Yes	3.40	0.000	0.52	0.15	0.00	0.099	0.000	41.355	0.00	1.59
130.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.098	0.000	41.423	0.00	2.90
130.00	3" Conduit	Yes	1.00	0.000	3.00	0.25	0.00	0.098	0.000	41.423	0.00	1.45
130.00	7/8" Coax	Yes	1.00	0.000	0.52	0.04	0.00	0.098	0.000	41.423	0.00	0.47
135.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.085	0.000	41.753	0.00	14.49
135.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.085	0.000	41.753	0.00	7.25
136.26	2" Conduit	Yes	1.26	0.000	0.00	0.00	0.00	0.087	0.000	41.835	0.00	3.65
136.26	3" Conduit	Yes	1.26	0.000	3.00	0.31	0.00	0.087	0.000	41.835	0.00	1.83
140.00	2" Conduit	Yes	3.74	0.000	0.00	0.00	0.00	0.088	0.000	42.074	0.00	10.84
140.00	3" Conduit	Yes	3.74	0.000	3.00	0.94	0.00	0.088	0.000	42.074	0.00	5.42
145.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	42.386	0.00	14.49
145.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.091	0.000	42.386	0.00	7.25
150.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	42.690	0.00	14.49
150.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.094	0.000	42.690	0.00	7.25
155.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	42.985	0.00	14.49
155.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.097	0.000	42.985	0.00	7.25
160.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.002	43.274	0.00	14.49
160.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.101	1.002	43.274	0.00	7.25
161.50	2" Conduit	Yes	1.50	0.000	0.00	0.00	0.00	0.103	1.009	43.359	0.00	4.35
161.50	3" Conduit	Yes	1.50	0.000	3.00	0.38	0.00	0.103	1.009	43.359	0.00	2.17
165.00	2" Conduit	Yes	3.50	0.000	0.00	0.00	0.00	0.105	1.015	43.555	0.00	10.14
165.00	3" Conduit	Yes	3.50	0.000	3.00	0.88	0.00	0.105	1.015	43.555	0.00	5.07
165.25	2" Conduit	Yes	0.25	0.000	0.00	0.00	0.00	0.106	1.019	43.569	0.00	0.72
165.25	3" Conduit	Yes	0.25	0.000	3.00	0.06	0.00	0.106	1.019	43.569	0.00	0.36
169.58	2" Conduit	Yes	4.33	0.000	0.00	0.00	0.00	0.108	1.025	43.807	0.00	12.56
169.58	3" Conduit	Yes	4.33	0.000	3.00	1.08	0.00	0.108	1.025	43.807	0.00	6.28
170.00	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.109	1.027	43.829	0.00	1.21
170.00	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.109	1.027	43.829	0.00	0.60
175.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.034	44.098	0.00	14.49
175.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.111	1.034	44.098	0.00	7.25



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.00



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
<b>Totals:</b>											0.0	821.6

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

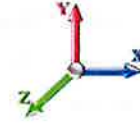
7/7/2023

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**Load Case:** 0.9D + 1.0W 115 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 27

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-62.27	-46.37	0.00	-6496.1	0.00	6496.13	8794.96	2077.55	10247.3	10671.5	0.00	0.000	0.000	0.616
5.00	-60.10	-46.00	0.00	-6264.2	0.00	6264.27	8639.43	2040.81	9888.09	10295.5	0.09	-0.172	0.000	0.616
10.00	-57.95	-45.63	0.00	-6034.2	0.00	6034.27	8483.89	2004.07	9535.27	9926.22	0.37	-0.347	0.000	0.615
15.00	-55.84	-45.26	0.00	-5806.1	0.00	5806.11	8328.36	1967.33	9188.85	9563.67	0.83	-0.525	0.000	0.614
20.00	-53.77	-44.86	0.00	-5579.8	0.00	5579.80	8172.83	1930.59	8848.85	9207.87	1.47	-0.706	0.000	0.613
25.00	-51.72	-44.44	0.00	-5355.4	0.00	5355.49	8017.29	1893.85	8515.26	8858.82	2.31	-0.890	0.000	0.612
30.00	-49.71	-43.99	0.00	-5133.3	0.00	5133.31	7861.76	1857.11	8188.07	8516.51	3.34	-1.077	0.000	0.610
35.00	-47.73	-43.53	0.00	-4913.3	0.00	4913.37	7706.22	1820.37	7867.30	8180.95	4.57	-1.266	0.000	0.607
40.00	-45.79	-43.05	0.00	-4695.7	0.00	4695.74	7550.69	1783.63	7552.93	7852.13	6.00	-1.459	0.000	0.605
45.00	-43.95	-42.49	0.00	-4480.5	0.00	4480.51	7395.16	1746.89	7244.98	7530.06	7.63	-1.655	0.000	0.602
45.42	-43.75	-42.49	0.00	-4462.8	0.00	4462.80	7382.20	1743.83	7219.61	7503.52	7.78	-1.672	0.000	0.601
48.90	-41.62	-42.07	0.00	-4314.7	0.00	4314.78	7273.84	1718.23	7009.22	7283.52	9.05	-1.811	0.000	0.399
50.00	-40.93	-41.96	0.00	-4268.5	0.00	4268.51	7239.62	1710.15	6943.43	7214.73	9.47	-1.841	0.000	0.398
52.75	-39.28	-41.62	0.00	-4153.1	0.00	4153.13	5810.43	1383.44	5679.89	5870.80	10.55	-1.916	0.000	0.406
55.00	-38.60	-41.37	0.00	-4059.4	0.00	4059.49	5769.82	1370.22	5571.80	5773.48	11.47	-1.977	0.000	0.444
57.15	-37.94	-41.14	0.00	-3970.5	0.00	3970.55	5730.75	1357.58	5469.49	5680.95	12.38	-2.042	0.000	0.440
57.15	-37.94	-41.14	0.00	-3970.5	0.00	3970.55	5730.75	1357.58	5469.49	5680.95	12.38	-2.042	0.000	0.700
60.00	-37.02	-40.87	0.00	-3853.3	0.00	3853.30	5678.55	1340.82	5335.33	5559.03	13.62	-2.128	0.000	0.701
65.00	-35.48	-40.37	0.00	-3648.9	0.00	3648.94	5551.73	1311.43	5103.98	5314.51	15.98	-2.369	0.000	0.694
70.00	-33.97	-39.86	0.00	-3447.1	0.00	3447.10	5427.30	1282.04	4877.76	5077.73	18.59	-2.612	0.000	0.686
75.00	-32.48	-39.34	0.00	-3247.8	0.00	3247.81	5302.88	1252.65	4656.67	4846.34	21.46	-2.858	0.000	0.677
80.00	-31.04	-38.81	0.00	-3051.1	0.00	3051.10	5178.45	1223.26	4440.70	4620.35	24.58	-3.106	0.000	0.667
84.00	-29.95	-38.36	0.00	-2895.8	0.00	2895.85	5078.91	1199.74	4271.62	4443.45	27.27	-3.308	0.000	0.659
85.00	-29.49	-38.25	0.00	-2857.5	0.00	2857.50	5054.02	1193.86	4229.87	4399.76	27.97	-3.359	0.000	0.656
87.00	-28.61	-38.02	0.00	-2780.9	0.00	2780.99	5004.25	1182.11	4146.97	4313.04	29.40	-3.462	0.000	0.394
90.00	-27.37	-37.62	0.00	-2666.9	0.00	2666.93	4929.59	1164.47	4024.16	4184.57	31.60	-3.554	0.000	0.387
90.42	-27.15	-37.60	0.00	-2651.2	0.00	2651.25	3591.78	889.89	3133.47	3116.43	31.91	-3.567	0.000	0.413
95.00	-26.17	-37.09	0.00	-2478.9	0.00	2478.91	3535.98	869.68	2992.78	2997.74	35.40	-3.707	0.000	0.451
100.00	-25.06	-36.20	0.00	-2293.4	0.00	2293.47	3473.75	847.63	2842.98	2869.66	39.37	-3.877	0.000	0.430
105.00	-24.04	-35.64	0.00	-2112.4	0.00	2112.47	3410.09	825.59	2697.03	2743.13	43.52	-4.044	0.000	0.409
109.50	-22.86	-33.73	0.00	-1945.4	0.00	1945.45	3351.58	805.75	2568.96	2630.66	47.40	-4.192	0.000	0.388
110.00	-22.75	-33.68	0.00	-1928.5	0.00	1928.59	3345.00	803.55	2554.93	2618.25	47.84	-4.209	0.000	0.386
112.25	-22.30	-33.44	0.00	-1852.8	0.00	1852.80	3315.25	793.63	2492.23	2562.62	49.84	-4.283	0.000	0.376
112.25	-22.30	-33.44	0.00	-1852.8	0.00	1852.80	3315.25	793.63	2492.23	2562.62	49.84	-4.283	0.000	0.721
115.00	-21.70	-33.19	0.00	-1760.8	0.00	1760.84	3278.49	781.50	2416.67	2495.11	52.33	-4.372	0.000	0.714
120.00	-20.69	-32.68	0.00	-1594.9	0.00	1594.92	3210.56	759.46	2282.25	2373.80	57.07	-4.678	0.000	0.680
123.58	-20.00	-32.31	0.00	-1477.8	0.00	1477.81	3148.16	743.66	2188.29	2278.75	60.66	-4.897	0.000	0.657
125.00	-19.59	-32.15	0.00	-1432.0	0.00	1432.04	3121.72	737.41	2151.69	2240.43	62.13	-4.984	0.000	0.647
125.60	-19.39	-32.10	0.00	-1412.7	0.00	1412.75	3110.52	734.77	2136.28	2224.30	62.76	-5.021	0.000	0.363
129.00	-18.46	-31.69	0.00	-1303.6	0.00	1303.62	2149.47	550.17	1596.92	1538.58	66.37	-5.136	0.000	0.382
130.00	-18.23	-31.48	0.00	-1271.7	0.00	1271.79	2141.27	546.86	1577.79	1523.43	67.45	-5.169	0.000	0.424
135.00	-17.52	-30.95	0.00	-1114.3	0.00	1114.37	2099.38	530.33	1483.83	1448.11	72.95	-5.347	0.000	0.385
136.26	-17.31	-30.84	0.00	-1075.3	0.00	1075.37	2088.60	526.16	1460.60	1429.26	74.37	-5.392	0.000	0.375
136.26	-17.31	-30.84	0.00	-1075.3	0.00	1075.37	2088.60	526.16	1460.60	1429.26	74.37	-5.392	0.000	0.750
140.00	-16.71	-30.49	0.00	-960.04	0.00	960.04	2056.07	513.79	1392.75	1373.65	78.63	-5.516	0.000	0.711
145.00	-14.14	-26.76	0.00	-807.61	0.00	807.61	2011.34	497.26	1304.56	1300.16	84.58	-5.836	0.000	0.631
150.00	-13.41	-26.29	0.00	-673.84	0.00	673.84	1965.18	480.73	1219.25	1227.71	90.84	-6.131	0.000	0.559
155.00	-10.74	-21.14	0.00	-542.40	0.00	542.40	1917.59	464.19	1136.83	1156.40	97.40	-6.399	0.000	0.477

## Calculated Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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160.00	-10.18	-20.66	0.00	-436.72	0.00	436.72	1868.58	447.66	1057.29	1086.34	104.22	-6.639	0.000	0.410
161.50	-8.77	-19.32	0.00	-405.74	0.00	405.74	1853.60	442.70	1033.99	1065.57	106.31	-6.708	0.000	0.387
165.00	-8.40	-18.99	0.00	-338.10	0.00	338.10	1818.15	431.13	980.64	1017.59	111.27	-6.855	0.000	0.339
165.25	-8.34	-18.98	0.00	-333.35	0.00	333.35	1815.59	430.30	976.88	1014.19	111.63	-6.865	0.000	0.335
169.58	-7.68	-18.53	0.00	-251.12	0.00	251.12	1040.26	282.24	630.39	573.59	117.92	-7.021	0.000	0.450
170.00	-7.62	-18.51	0.00	-243.40	0.00	243.40	1038.39	281.32	626.30	570.68	118.53	-7.035	0.000	0.438
175.00	-4.81	-11.73	0.00	-150.87	0.00	150.87	1015.17	270.30	578.18	535.91	125.99	-7.228	0.000	0.288
180.00	-4.53	-11.31	0.00	-92.19	0.00	92.19	990.53	259.27	531.99	501.43	133.62	-7.362	0.000	0.190
185.00	-2.11	-5.08	0.00	-35.63	0.00	35.63	964.47	248.25	487.72	467.32	141.36	-7.442	0.000	0.079
187.00	-2.00	-4.37	0.00	-20.64	0.00	20.64	953.65	243.84	470.55	453.81	144.47	-7.459	0.000	0.048
190.00	-1.87	-4.13	0.00	-7.53	0.00	7.53	936.98	237.23	445.37	433.69	149.15	-7.472	0.000	0.020
191.50	-0.14	-0.35	0.00	-1.33	0.00	1.33	928.46	233.92	433.04	423.70	151.49	-7.474	0.000	0.003
195.00	-0.03	-0.09	0.00	-0.09	0.00	0.09	908.07	226.21	404.95	400.62	156.96	-7.475	0.000	0.000
196.00	0.00	-0.09	0.00	0.00	0.00	0.00	902.11	224.00	397.09	394.08	158.52	-7.475	0.000	0.000

## Wind Loading - Shaft

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 26

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	4.976	5.47	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	4.976	5.47	0.00	1.200	0.828	5.00	25.957	31.15	170.5	313.0	2708.5
10.00		1.00	0.85	4.976	5.47	0.00	1.200	0.887	5.00	25.560	30.67	167.9	329.9	2682.6
15.00		1.00	0.85	4.976	5.47	0.00	1.200	0.924	5.00	25.145	30.17	165.2	337.6	2647.6
20.00		1.00	0.90	5.280	5.81	0.00	1.200	0.951	5.00	24.721	29.67	172.3	341.3	2608.6
25.00		1.00	0.95	5.534	6.09	0.00	1.200	0.973	5.00	24.293	29.15	177.5	342.6	2567.2
30.00		1.00	0.98	5.751	6.33	0.00	1.200	0.991	5.00	23.862	28.63	181.1	342.5	2524.3
35.00		1.00	1.01	5.940	6.53	0.00	1.200	1.006	5.00	23.429	28.11	183.7	341.2	2480.3
40.00		1.00	1.04	6.110	6.72	0.00	1.200	1.019	5.00	22.994	27.59	185.4	339.1	2435.5
45.00		1.00	1.07	6.263	6.89	0.00	1.200	1.032	5.00	22.558	27.07	186.5	336.4	2390.0
45.42	Bot - Section 2	1.00	1.07	6.275	6.90	0.00	1.200	1.032	0.42	1.860	2.23	15.4	28.0	197.2
48.90	RB1	1.00	1.09	6.374	7.01	0.00	1.200	1.040	3.48	15.727	18.87	132.3	237.2	2788.0
50.00		1.00	1.09	6.404	7.04	0.00	1.200	1.042	1.10	4.922	5.91	41.6	74.7	872.5
52.75	Top - Section 1	1.00	1.11	6.476	7.12	0.00	1.200	1.048	2.75	12.212	14.65	104.4	185.7	2163.8
55.00		1.00	1.12	6.533	7.19	0.00	1.200	1.052	2.25	9.893	11.87	85.3	151.2	872.0
57.15	RT1	1.00	1.12	6.586	7.24	0.00	1.200	1.056	2.15	9.371	11.24	81.5	143.7	826.0
60.00		1.00	1.14	6.654	7.32	0.00	1.200	1.062	2.85	12.297	14.76	108.0	189.2	1083.9
65.00		1.00	1.16	6.767	7.44	0.00	1.200	1.070	5.00	21.230	25.48	189.6	327.6	1870.3
70.00		1.00	1.17	6.874	7.56	0.00	1.200	1.078	5.00	20.791	24.95	188.6	322.9	1831.4
75.00		1.00	1.19	6.974	7.67	0.00	1.200	1.086	5.00	20.351	24.42	187.4	318.0	1792.3
80.00		1.00	1.21	7.070	7.78	0.00	1.200	1.093	5.00	19.911	23.89	185.8	312.8	1753.0
84.00	Bot - Section 3	1.00	1.22	7.143	7.86	0.00	1.200	1.098	4.00	15.611	18.73	147.2	246.8	1374.4
85.00		1.00	1.22	7.160	7.88	0.00	1.200	1.099	1.00	3.922	4.71	37.1	62.5	554.1
87.00	RB2	1.00	1.23	7.196	7.92	0.00	1.200	1.102	2.00	7.792	9.35	74.0	124.2	1100.2
90.00		1.00	1.24	7.247	7.97	0.00	1.200	1.106	3.00	11.555	13.87	110.5	184.3	1630.3
90.42	Top - Section 2	1.00	1.24	7.254	7.98	0.00	1.200	1.106	0.42	1.592	1.91	15.2	25.6	224.7
95.00		1.00	1.25	7.330	8.06	0.00	1.200	1.112	4.58	17.314	20.78	167.5	276.4	1214.6
100.00	Appurtenance(s)	1.00	1.27	7.410	8.15	0.00	1.200	1.117	5.00	18.466	22.16	180.6	295.7	1294.6
105.00		1.00	1.28	7.486	8.23	0.00	1.200	1.123	5.00	18.024	21.63	178.1	289.7	1263.0
109.50	Appurtenance(s)	1.00	1.29	7.553	8.31	0.00	1.200	1.127	4.50	15.844	19.01	158.0	255.8	1109.8
110.00		1.00	1.29	7.560	8.32	0.00	1.200	1.128	0.50	1.738	2.09	17.3	28.4	122.0
112.25	RT2	1.00	1.30	7.592	8.35	0.00	1.200	1.130	2.25	7.767	9.32	77.8	126.4	544.4
115.00		1.00	1.30	7.631	8.39	0.00	1.200	1.133	2.75	9.372	11.25	94.4	152.6	656.5
120.00		1.00	1.32	7.700	8.47	0.00	1.200	1.138	5.00	16.699	20.04	169.7	271.0	1167.4
123.58	Bot - Section 4	1.00	1.32	7.747	8.52	0.00	1.200	1.141	3.58	11.695	14.03	119.6	190.9	817.5
125.00		1.00	1.33	7.766	8.54	0.00	1.200	1.142	1.42	4.628	5.55	47.4	76.1	506.7
125.60	RB3	1.00	1.33	7.774	8.55	0.00	1.200	1.143	0.60	1.950	2.34	20.0	32.1	213.4
129.00	Top - Section 3	1.00	1.34	7.818	8.60	0.00	1.200	1.146	3.40	10.928	13.11	112.8	179.1	1194.1
130.00	Appurtenance(s)	1.00	1.34	7.830	8.61	0.00	1.200	1.147	1.00	3.175	3.81	32.8	52.4	180.0
135.00		1.00	1.35	7.893	8.68	0.00	1.200	1.151	5.00	15.611	18.73	162.6	255.5	882.1
136.26	RT3	1.00	1.35	7.908	8.70	0.00	1.200	1.152	1.26	3.864	4.64	40.3	64.0	218.8
140.00		1.00	1.36	7.954	8.75	0.00	1.200	1.155	3.74	11.304	13.56	118.7	186.1	638.6
145.00	Appurtenance(s)	1.00	1.37	8.012	8.81	0.00	1.200	1.160	5.00	14.725	17.67	155.7	242.0	830.1
150.00		1.00	1.38	8.070	8.88	0.00	1.200	1.163	5.00	14.283	17.14	152.1	235.1	804.0
155.00	Appurtenance(s)	1.00	1.39	8.126	8.94	0.00	1.200	1.167	5.00	13.840	16.61	148.4	228.2	777.8
160.00		1.00	1.40	8.180	9.00	0.00	1.202 *	1.171	5.00	13.397	16.11	144.9	221.1	751.5
161.50	Appurtenance(s)	1.00	1.40	8.196	9.02	0.00	1.211 *	1.172	1.50	3.932	4.76	42.9	65.7	221.1

## Wind Loading - Shaft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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165.00	1.00	1.41	8.233	9.06	0.00	1.218 *	1.175	3.50	9.021	10.99	99.5	149.8	505.6
165.25 Bot - Section 5	1.00	1.41	8.236	9.06	0.00	1.223 *	1.175	0.25	0.636	0.78	7.0	10.7	35.7
169.58 Top - Section 4	1.00	1.41	8.281	9.11	0.00	1.230 *	1.178	4.33	10.987	13.51	123.1	182.2	898.2
170.00	1.00	1.42	8.285	9.11	0.00	1.232 *	1.178	0.42	1.039	1.28	11.7	17.5	44.8
175.00 Appurtenance(s)	1.00	1.42	8.336	9.17	0.00	1.240 *	1.182	5.00	12.226	15.16	139.1	202.5	523.3
180.00	1.00	1.43	8.386	9.22	0.00	1.200	1.185	5.00	11.783	14.14	130.4	195.2	503.2
185.00 Appurtenance(s)	1.00	1.44	8.434	9.28	0.00	1.200	1.188	5.00	11.340	13.61	126.2	187.9	483.1
187.00 Appurtenance(s)	1.00	1.44	8.453	9.30	0.00	1.200	1.189	2.00	4.411	5.29	49.2	74.0	188.5
190.00	1.00	1.45	8.482	9.33	0.00	1.200	1.191	3.00	6.484	7.78	72.6	108.3	276.2
191.50 Appurtenance(s)	1.00	1.45	8.496	9.35	0.00	1.200	1.192	1.50	3.182	3.82	35.7	53.5	135.7
195.00	1.00	1.46	8.528	9.38	0.00	1.200	1.194	3.50	7.270	8.72	81.8	121.1	308.5
196.00 Appurtenance(s)	1.00	1.46	8.537	9.39	0.00	1.200	1.195	1.00	2.037	2.44	23.0	34.3	86.7
								<b>Totals:</b>	<b>196.00</b>			<b>6,535.4</b>	<b>63,376.1</b>

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

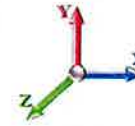
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 26

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	196.00	6' Lightning rod	1	8.537	9.391	1.00	1.00	1.12	27.36	0.000	0.000	10.56	0.00	0.00
2	191.50	1900MHz - RRU	3	8.496	9.345	0.56	0.80	7.98	288.53	0.000	0.000	74.57	0.00	0.00
3	191.50	APXVTM14-C-120	3	8.496	9.345	0.70	0.80	14.96	509.57	0.000	0.000	139.84	0.00	0.00
4	191.50	APXVSP18-C-A20	3	8.496	9.345	0.68	0.80	20.25	410.95	0.000	0.000	189.28	0.00	0.00
5	191.50	800MHz - RRU	3	8.496	9.345	0.56	0.80	5.50	279.08	0.000	0.000	51.36	0.00	0.00
6	191.50	RRH8x20-25 - RRU	3	8.496	9.345	0.56	0.80	7.71	463.70	0.000	0.000	72.08	0.00	0.00
7	191.50	800MHz Filter	3	8.496	9.345	0.56	0.80	2.05	52.84	0.000	0.000	19.18	0.00	0.00
8	191.50	ACU-A20-N - RET	4	8.496	9.345	0.62	0.80	0.86	11.34	0.000	0.000	7.99	0.00	0.00
9	191.50	Low Profile Platform	1	8.496	9.345	1.00	1.00	34.07	2394.18	0.000	0.000	318.35	0.00	0.00
10	187.00	Pipe mount	1	8.453	9.299	0.56	0.75	3.77	79.71	0.000	0.000	35.03	0.00	0.00
11	187.00	BA80-41-DIN	1	8.550	9.404	1.00	1.00	22.18	184.67	0.000	10.333	208.61	0.00	2155.59
12	185.00	JAHH-65C-R3B-V2	6	8.434	9.278	0.62	0.75	51.90	1734.37	0.000	0.000	481.53	0.00	0.00
13	185.00	Kaelus BSF0020F3V1-1	2	8.434	9.278	0.50	0.75	1.66	55.18	0.000	0.000	15.39	0.00	0.00
14	185.00	MT6407-77A	3	8.434	9.278	0.52	0.75	8.39	513.88	0.000	0.000	77.86	0.00	0.00
15	185.00	HRK12-HD	1	8.434	9.278	0.75	1.00	14.99	1223.06	0.000	0.000	139.05	0.00	0.00
16	185.00	DB-C1-12C-24AB-OZ	1	8.434	9.278	0.75	0.75	3.46	87.36	0.000	0.000	32.14	0.00	0.00
17	185.00	RFV01U-D1A	3	8.434	9.278	0.62	0.75	4.21	302.93	0.000	0.000	39.07	0.00	0.00
18	185.00	CBC23SR-43	3	8.434	9.278	0.52	0.75	0.97	33.19	0.000	0.000	8.95	0.00	0.00
19	185.00	RFV01U-D2A	3	8.434	9.278	0.58	0.75	3.96	317.61	0.000	0.000	36.72	0.00	0.00
20	185.00	BXA-70063 6CF_2	3	8.434	9.278	0.64	0.75	18.08	236.58	0.000	0.000	167.70	0.00	0.00
21	185.00	Low Profile	1	8.434	9.278	1.00	1.00	34.02	2391.10	0.000	0.000	315.66	0.00	0.00
22	175.00	HRK12 (Handrail Kit)	1	8.336	9.170	1.00	1.00	11.22	786.06	0.000	0.000	102.85	0.00	0.00
23	175.00	Kathrein 800-10965	6	8.336	9.170	0.53	0.75	47.50	1935.32	0.000	0.000	435.52	0.00	0.00
24	175.00	Low Profile Platform	1	8.336	9.170	1.00	1.00	33.96	2386.16	0.000	0.000	311.38	0.00	0.00
25	175.00	DC6-48-60-18-8F	1	8.336	9.170	0.80	0.80	0.97	65.83	0.000	0.000	8.92	0.00	0.00
26	175.00	RRUS-12	3	8.336	9.170	0.56	0.80	5.76	212.16	0.000	0.000	52.82	0.00	0.00
27	175.00	Powerwave LGP21401	12	8.336	9.170	0.75	0.75	16.70	320.96	0.000	0.000	153.15	0.00	0.00
28	175.00	Powerwave LGP13519	12	8.336	9.170	0.75	0.75	5.83	121.08	0.000	0.000	53.43	0.00	0.00
29	175.00	Ericsson RRUS 4478 B14	3	8.336	9.170	0.50	0.75	3.02	269.86	0.000	0.000	27.66	0.00	0.00
30	175.00	Ericsson RRUS 32 B30	3	8.336	9.170	0.50	0.75	4.86	381.24	0.000	0.000	44.53	0.00	0.00
31	175.00	Raycap	2	8.336	9.170	1.00	1.00	10.76	146.34	0.000	0.000	98.64	0.00	0.00
32	175.00	Powerwave 7770	3	8.336	9.170	0.70	0.80	13.11	380.64	0.000	0.000	120.20	0.00	0.00
33	175.00	Ericsson RRUS 4449	3	8.336	9.170	0.50	0.75	3.53	323.22	0.000	0.000	32.35	0.00	0.00
34	161.50	Low Profile Platform	1	8.196	9.016	1.00	1.00	33.86	2379.08	0.000	0.000	305.30	0.00	0.00
35	155.00	RFS	3	8.126	8.938	0.56	0.80	36.11	1264.38	0.000	0.000	322.78	0.00	0.00
36	155.00	Commscope VV-65A-R1	3	8.126	8.938	0.59	0.80	15.52	430.89	0.000	0.000	138.70	0.00	0.00
37	155.00	Ericsson AIR6419 B41	3	8.126	8.938	0.61	0.80	7.90	362.91	0.000	0.000	70.63	0.00	0.00
38	155.00	T-Arms w/ Handrail kit &	3	8.126	8.938	0.56	0.75	45.25	2600.76	0.000	0.000	404.46	0.00	0.00
39	155.00	Ericsson 4449 B71 + B85	3	8.126	8.938	0.54	0.80	3.78	204.19	0.000	0.000	33.79	0.00	0.00
40	155.00	Ericsson 4460 B25 + B66	3	8.126	8.938	0.54	0.80	5.31	485.69	0.000	0.000	47.45	0.00	0.00
41	155.00	Ericsson KRY 112 144/1	3	8.126	8.938	0.54	0.80	2.23	81.19	0.000	0.000	19.95	0.00	0.00
42	145.00	TA08025-B605	3	8.012	8.814	0.50	0.75	3.52	336.45	0.000	0.000	30.99	0.00	0.00
43	145.00	MC-PK8-DSH	1	8.012	8.814	1.00	1.00	68.97	2820.81	0.000	0.000	607.91	0.00	0.00
44	145.00	MX08FRO665-21	3	8.012	8.814	0.55	0.75	22.42	610.37	0.000	0.000	197.57	0.00	0.00
45	145.00	TA08025-B604	3	8.012	8.814	0.50	0.75	3.52	294.66	0.000	0.000	30.99	0.00	0.00
46	145.00	RDIDC-9181-PF-48	1	8.012	8.814	0.75	0.75	1.79	48.96	0.000	0.000	15.78	0.00	0.00
47	130.00	ANT150F2	1	7.862	8.648	1.00	1.00	1.93	27.83	0.000	2.500	16.66	0.00	41.65

## Discrete Appurtenance Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 37
	<b>Struct Class:</b> II	



48	130.00	Standoff	1	7.830	8.613	0.56	0.75	3.69	77.76	0.000	0.000	31.75	0.00	0.00
49	109.50	Standoff	1	7.553	8.308	0.56	0.75	3.65	76.86	0.000	0.000	30.31	0.00	0.00
50	109.50	Standoff	5	7.553	8.308	0.56	0.75	18.24	384.31	0.000	0.000	151.55	0.00	0.00
51	109.50	4' Omni	1	7.581	8.340	1.00	1.00	1.56	23.30	0.000	2.000	13.00	0.00	25.99
52	109.50	14' Omni	5	7.652	8.417	1.00	1.00	37.16	430.52	0.000	7.000	312.74	0.00	2189.19
53	100.00	Standoff	1	7.410	8.151	0.56	0.75	3.63	76.39	0.000	0.000	29.58	0.00	0.00
54	100.00	MPRD	1	7.410	8.151	1.00	1.00	6.87	162.70	0.000	0.000	55.98	0.00	0.00
<b>Totals:</b>												<b>32,106.09</b>		<b>6,750.26</b>

## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		170.50	3074.73	0.00	0.00
10.00		167.90	3052.63	0.00	0.00
15.00		165.17	3019.99	0.00	0.00
20.00		172.30	2982.72	0.00	0.00
25.00		177.46	2942.78	0.00	0.00
30.00		181.13	2901.09	0.00	0.00
35.00		183.71	2858.13	0.00	0.00
40.00		185.44	2814.22	0.00	0.00
45.00		186.49	2769.56	0.00	0.00
45.42		15.40	228.85	0.00	0.00
48.90		132.31	3052.83	0.00	0.00
50.00		41.60	956.16	0.00	0.00
52.75		104.40	2373.25	0.00	0.00
55.00		85.32	1043.45	0.00	0.00
57.15		81.47	989.99	0.00	0.00
60.00		108.01	1301.44	0.00	0.00
65.00		189.64	2252.60	0.00	0.00
70.00		188.64	2214.31	0.00	0.00
75.00		187.35	2175.72	0.00	0.00
80.00		185.81	2136.88	0.00	0.00
84.00		147.18	1681.78	0.00	0.00
85.00		37.07	630.99	0.00	0.00
87.00		74.00	1254.00	0.00	0.00
90.00		110.54	1861.21	0.00	0.00
90.42		15.25	256.76	0.00	0.00
95.00		167.53	1567.73	0.00	0.00
100.00	(2) attachments	266.17	1919.36	0.00	0.00
105.00		178.11	1648.80	0.00	0.00
109.50	(12) attachments	665.55	2372.36	0.00	2215.19
110.00		17.35	160.01	0.00	0.00
112.25		77.84	715.71	0.00	0.00
115.00		94.40	865.92	0.00	0.00
120.00		169.71	1548.54	0.00	0.00
123.58		119.60	1090.89	0.00	0.00
125.00		47.45	614.78	0.00	0.00
125.60		20.00	259.20	0.00	0.00
129.00		112.77	1453.74	0.00	0.00
130.00	(2) attachments	81.22	362.01	0.00	41.65
135.00		162.64	1247.53	0.00	0.00
136.26		40.33	310.94	0.00	0.00
140.00		118.67	912.11	0.00	0.00
145.00	(11) attachments	1038.99	5307.27	0.00	0.00
150.00		152.14	1159.21	0.00	0.00
155.00	(21) attachments	1186.21	6563.23	0.00	0.00
160.00		144.93	1034.46	0.00	0.00
161.50	(1) attachments	348.23	2685.05	0.00	0.00



## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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165.00		99.50	703.82	0.00	0.00
165.25		7.05	49.89	0.00	0.00
169.58		123.11	1143.77	0.00	0.00
170.00		11.66	68.40	0.00	0.00
175.00	(50) attachments	1580.50	8135.72	0.00	0.00
180.00		130.43	610.73	0.00	0.00
185.00	(26) attachments	1440.33	7485.85	0.00	0.00
187.00	(2) attachments	292.86	478.23	0.00	2155.59
190.00		72.60	312.39	0.00	0.00
191.50	(23) attachments	908.35	4563.98	0.00	0.00
195.00		81.84	308.48	0.00	0.00
196.00	(1) attachments	33.52	114.04	0.00	0.00
	<b>Totals:</b>	<b>13,285.69</b>	<b>708,600.23</b>	<b>0.00</b>	<b>4,412.43</b>

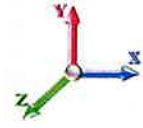
## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.058	0.000	4.976	0.00	39.73
5.00	3" Conduit	Yes	5.00	0.000	3.00	1.94	0.00	0.058	0.000	4.976	0.00	27.26
5.00	7/8" Coax	Yes	5.00	0.000	0.52	0.91	0.00	0.058	0.000	4.976	0.00	11.40
10.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	4.976	0.00	41.27
10.00	3" Conduit	Yes	5.00	0.000	3.00	1.99	0.00	0.059	0.000	4.976	0.00	28.58
10.00	7/8" Coax	Yes	5.00	0.000	0.52	0.96	0.00	0.059	0.000	4.976	0.00	12.28
15.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.060	0.000	4.976	0.00	42.25
15.00	3" Conduit	Yes	5.00	0.000	3.00	2.02	0.00	0.060	0.000	4.976	0.00	29.42
15.00	7/8" Coax	Yes	5.00	0.000	0.52	0.99	0.00	0.060	0.000	4.976	0.00	12.84
20.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.061	0.000	5.280	0.00	42.98
20.00	3" Conduit	Yes	5.00	0.000	3.00	2.04	0.00	0.061	0.000	5.280	0.00	30.04
20.00	7/8" Coax	Yes	5.00	0.000	0.52	1.01	0.00	0.061	0.000	5.280	0.00	13.27
25.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	5.534	0.00	43.57
25.00	3" Conduit	Yes	5.00	0.000	3.00	2.06	0.00	0.062	0.000	5.534	0.00	30.54
25.00	7/8" Coax	Yes	5.00	0.000	0.52	1.03	0.00	0.062	0.000	5.534	0.00	13.61
30.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.064	0.000	5.751	0.00	44.06
30.00	3" Conduit	Yes	5.00	0.000	3.00	2.08	0.00	0.064	0.000	5.751	0.00	30.96
30.00	7/8" Coax	Yes	5.00	0.000	0.52	1.04	0.00	0.064	0.000	5.751	0.00	13.90
35.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.065	0.000	5.940	0.00	44.49
35.00	3" Conduit	Yes	5.00	0.000	3.00	2.09	0.00	0.065	0.000	5.940	0.00	31.33
35.00	7/8" Coax	Yes	5.00	0.000	0.52	1.05	0.00	0.065	0.000	5.940	0.00	14.16
40.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	6.110	0.00	44.86
40.00	3" Conduit	Yes	5.00	0.000	3.00	2.10	0.00	0.066	0.000	6.110	0.00	31.66
40.00	7/8" Coax	Yes	5.00	0.000	0.52	1.07	0.00	0.066	0.000	6.110	0.00	14.38
45.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	6.263	0.00	45.20
45.00	3" Conduit	Yes	5.00	0.000	3.00	2.11	0.00	0.068	0.000	6.263	0.00	31.95
45.00	7/8" Coax	Yes	5.00	0.000	0.52	1.08	0.00	0.068	0.000	6.263	0.00	14.59
45.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	3.77
45.42	3" Conduit	Yes	0.42	0.000	3.00	0.18	0.00	0.068	0.000	6.275	0.00	2.66
45.42	7/8" Coax	Yes	0.42	0.000	0.52	0.09	0.00	0.068	0.000	6.275	0.00	1.22
48.90	2" Conduit	Yes	3.48	0.000	0.00	0.00	0.00	0.069	0.000	6.374	0.00	31.66
48.90	3" Conduit	Yes	3.48	0.000	3.00	1.47	0.00	0.069	0.000	6.374	0.00	22.40
48.90	7/8" Coax	Yes	3.48	0.000	0.52	0.75	0.00	0.069	0.000	6.374	0.00	10.26
50.00	2" Conduit	Yes	1.10	0.000	0.00	0.00	0.00	0.070	0.000	6.404	0.00	10.01
50.00	3" Conduit	Yes	1.10	0.000	3.00	0.47	0.00	0.070	0.000	6.404	0.00	7.09
50.00	7/8" Coax	Yes	1.10	0.000	0.52	0.24	0.00	0.070	0.000	6.404	0.00	3.25
52.75	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.070	0.000	6.476	0.00	25.12
52.75	3" Conduit	Yes	2.75	0.000	3.00	1.17	0.00	0.070	0.000	6.476	0.00	17.79
52.75	7/8" Coax	Yes	2.75	0.000	0.52	0.60	0.00	0.070	0.000	6.476	0.00	8.18
55.00	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.069	0.000	6.533	0.00	20.61
55.00	3" Conduit	Yes	2.25	0.000	3.00	0.96	0.00	0.069	0.000	6.533	0.00	14.61
55.00	7/8" Coax	Yes	2.25	0.000	0.52	0.49	0.00	0.069	0.000	6.533	0.00	6.72
57.15	2" Conduit	Yes	2.15	0.000	0.00	0.00	0.00	0.070	0.000	6.586	0.00	19.74
57.15	3" Conduit	Yes	2.15	0.000	3.00	0.92	0.00	0.070	0.000	6.586	0.00	14.00
57.15	7/8" Coax	Yes	2.15	0.000	0.52	0.47	0.00	0.070	0.000	6.586	0.00	6.46
60.00	2" Conduit	Yes	2.85	0.000	0.00	0.00	0.00	0.071	0.000	6.654	0.00	26.25
60.00	3" Conduit	Yes	2.85	0.000	3.00	1.22	0.00	0.071	0.000	6.654	0.00	18.63

## Linear Appurtenance Segment Forces (Factored)

Structure: CT46138-A-SBA	Code: TIA-222-H	7/7/2023
Site Name: Torrington-Oandg Ind Inc	Exposure: C	
Height: 196.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20  
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	7/8" Coax	Yes	2.85	0.000	0.52	0.63	0.00	0.071	0.000	6.654	0.00	8.61
65.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	6.767	0.00	46.30
65.00	3" Conduit	Yes	5.00	0.000	3.00	2.14	0.00	0.072	0.000	6.767	0.00	32.90
65.00	7/8" Coax	Yes	5.00	0.000	0.52	1.11	0.00	0.072	0.000	6.767	0.00	15.25
70.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	6.874	0.00	46.53
70.00	3" Conduit	Yes	5.00	0.000	3.00	2.15	0.00	0.074	0.000	6.874	0.00	33.09
70.00	7/8" Coax	Yes	5.00	0.000	0.52	1.12	0.00	0.074	0.000	6.874	0.00	15.39
75.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	6.974	0.00	46.74
75.00	3" Conduit	Yes	5.00	0.000	3.00	2.15	0.00	0.075	0.000	6.974	0.00	33.28
75.00	7/8" Coax	Yes	5.00	0.000	0.52	1.12	0.00	0.075	0.000	6.974	0.00	15.52
80.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	7.070	0.00	46.95
80.00	3" Conduit	Yes	5.00	0.000	3.00	2.16	0.00	0.077	0.000	7.070	0.00	33.45
80.00	7/8" Coax	Yes	5.00	0.000	0.52	1.13	0.00	0.077	0.000	7.070	0.00	15.64
84.00	2" Conduit	Yes	4.00	0.000	0.00	0.00	0.00	0.079	0.000	7.143	0.00	37.68
84.00	3" Conduit	Yes	4.00	0.000	3.00	1.73	0.00	0.079	0.000	7.143	0.00	26.87
84.00	7/8" Coax	Yes	4.00	0.000	0.52	0.91	0.00	0.079	0.000	7.143	0.00	12.59
85.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.080	0.000	7.160	0.00	9.43
85.00	3" Conduit	Yes	1.00	0.000	3.00	0.43	0.00	0.080	0.000	7.160	0.00	6.72
85.00	7/8" Coax	Yes	1.00	0.000	0.52	0.23	0.00	0.080	0.000	7.160	0.00	3.15
87.00	2" Conduit	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	7.196	0.00	18.89
87.00	3" Conduit	Yes	2.00	0.000	3.00	0.87	0.00	0.080	0.000	7.196	0.00	13.47
87.00	7/8" Coax	Yes	2.00	0.000	0.52	0.45	0.00	0.080	0.000	7.196	0.00	6.32
90.00	2" Conduit	Yes	3.00	0.000	0.00	0.00	0.00	0.081	0.000	7.247	0.00	28.39
90.00	3" Conduit	Yes	3.00	0.000	3.00	1.30	0.00	0.081	0.000	7.247	0.00	20.27
90.00	7/8" Coax	Yes	3.00	0.000	0.52	0.68	0.00	0.081	0.000	7.247	0.00	9.52
90.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.082	0.000	7.254	0.00	3.94
90.42	3" Conduit	Yes	0.42	0.000	3.00	0.18	0.00	0.082	0.000	7.254	0.00	2.82
90.42	7/8" Coax	Yes	0.42	0.000	0.52	0.09	0.00	0.082	0.000	7.254	0.00	1.32
95.00	2" Conduit	Yes	4.58	0.000	0.00	0.00	0.00	0.082	0.000	7.330	0.00	43.54
95.00	3" Conduit	Yes	4.58	0.000	3.00	1.99	0.00	0.082	0.000	7.330	0.00	31.10
95.00	7/8" Coax	Yes	4.58	0.000	0.52	1.05	0.00	0.082	0.000	7.330	0.00	14.65
100.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	7.410	0.00	47.66
100.00	3" Conduit	Yes	5.00	0.000	3.00	2.18	0.00	0.084	0.000	7.410	0.00	34.08
100.00	7/8" Coax	Yes	5.00	0.000	0.52	1.15	0.00	0.084	0.000	7.410	0.00	16.08
105.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	7.486	0.00	47.82
105.00	3" Conduit	Yes	5.00	0.000	3.00	2.19	0.00	0.086	0.000	7.486	0.00	34.21
105.00	7/8" Coax	Yes	5.00	0.000	0.52	1.15	0.00	0.086	0.000	7.486	0.00	16.18
109.50	2" Conduit	Yes	4.50	0.000	0.00	0.00	0.00	0.088	0.000	7.553	0.00	43.16
109.50	3" Conduit	Yes	4.50	0.000	3.00	1.97	0.00	0.088	0.000	7.553	0.00	30.90
109.50	7/8" Coax	Yes	4.50	0.000	0.52	1.04	0.00	0.088	0.000	7.553	0.00	14.64
110.00	2" Conduit	Yes	0.50	0.000	0.00	0.00	0.00	0.089	0.000	7.560	0.00	4.80
110.00	3" Conduit	Yes	0.50	0.000	3.00	0.22	0.00	0.089	0.000	7.560	0.00	3.43
110.00	7/8" Coax	Yes	0.50	0.000	0.52	0.12	0.00	0.089	0.000	7.560	0.00	1.63
112.25	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.090	0.000	7.592	0.00	21.62
112.25	3" Conduit	Yes	2.25	0.000	3.00	0.99	0.00	0.090	0.000	7.592	0.00	15.48
112.25	7/8" Coax	Yes	2.25	0.000	0.52	0.52	0.00	0.090	0.000	7.592	0.00	7.34
115.00	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.091	0.000	7.631	0.00	26.47

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

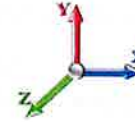


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
115.00	3" Conduit	Yes	2.75	0.000	3.00	1.21	0.00	0.091	0.000	7.631	0.00	18.96
115.00	7/8" Coax	Yes	2.75	0.000	0.52	0.64	0.00	0.091	0.000	7.631	0.00	9.00
120.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	7.700	0.00	48.27
120.00	3" Conduit	Yes	5.00	0.000	3.00	2.20	0.00	0.093	0.000	7.700	0.00	34.60
120.00	7/8" Coax	Yes	5.00	0.000	0.52	1.16	0.00	0.093	0.000	7.700	0.00	16.45
123.58	2" Conduit	Yes	3.58	0.000	0.00	0.00	0.00	0.095	0.000	7.747	0.00	34.66
123.58	3" Conduit	Yes	3.58	0.000	3.00	1.58	0.00	0.095	0.000	7.747	0.00	24.86
123.58	7/8" Coax	Yes	3.58	0.000	0.52	0.84	0.00	0.095	0.000	7.747	0.00	11.84
125.00	2" Conduit	Yes	1.42	0.000	0.00	0.00	0.00	0.097	0.000	7.766	0.00	13.71
125.00	3" Conduit	Yes	1.42	0.000	3.00	0.62	0.00	0.097	0.000	7.766	0.00	9.84
125.00	7/8" Coax	Yes	1.42	0.000	0.52	0.33	0.00	0.097	0.000	7.766	0.00	4.69
125.60	2" Conduit	Yes	0.60	0.000	0.00	0.00	0.00	0.097	0.000	7.774	0.00	5.81
125.60	3" Conduit	Yes	0.60	0.000	3.00	0.26	0.00	0.097	0.000	7.774	0.00	4.17
125.60	7/8" Coax	Yes	0.60	0.000	0.52	0.14	0.00	0.097	0.000	7.774	0.00	1.99
129.00	2" Conduit	Yes	3.40	0.000	0.00	0.00	0.00	0.099	0.000	7.818	0.00	32.99
129.00	3" Conduit	Yes	3.40	0.000	3.00	1.50	0.00	0.099	0.000	7.818	0.00	23.67
129.00	7/8" Coax	Yes	3.40	0.000	0.52	0.80	0.00	0.099	0.000	7.818	0.00	11.29
130.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.098	0.000	7.830	0.00	9.71
130.00	3" Conduit	Yes	1.00	0.000	3.00	0.44	0.00	0.098	0.000	7.830	0.00	6.97
130.00	7/8" Coax	Yes	1.00	0.000	0.52	0.23	0.00	0.098	0.000	7.830	0.00	3.32
135.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.085	0.000	7.893	0.00	48.66
135.00	3" Conduit	Yes	5.00	0.000	3.00	2.21	0.00	0.085	0.000	7.893	0.00	34.94
136.26	2" Conduit	Yes	1.26	0.000	0.00	0.00	0.00	0.087	0.000	7.908	0.00	12.27
136.26	3" Conduit	Yes	1.26	0.000	3.00	0.56	0.00	0.087	0.000	7.908	0.00	8.81
140.00	2" Conduit	Yes	3.74	0.000	0.00	0.00	0.00	0.088	0.000	7.954	0.00	36.49
140.00	3" Conduit	Yes	3.74	0.000	3.00	1.66	0.00	0.088	0.000	7.954	0.00	26.22
145.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	8.012	0.00	48.91
145.00	3" Conduit	Yes	5.00	0.000	3.00	2.22	0.00	0.091	0.000	8.012	0.00	35.16
150.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	8.070	0.00	49.03
150.00	3" Conduit	Yes	5.00	0.000	3.00	2.22	0.00	0.094	0.000	8.070	0.00	35.26
155.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.126	0.00	49.14
155.00	3" Conduit	Yes	5.00	0.000	3.00	2.22	0.00	0.097	0.000	8.126	0.00	35.36
160.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.002	8.180	0.00	49.25
160.00	3" Conduit	Yes	5.00	0.000	3.00	2.23	0.00	0.101	1.002	8.180	0.00	35.45
161.50	2" Conduit	Yes	1.50	0.000	0.00	0.00	0.00	0.103	1.009	8.196	0.00	14.78
161.50	3" Conduit	Yes	1.50	0.000	3.00	0.67	0.00	0.103	1.009	8.196	0.00	10.64
165.00	2" Conduit	Yes	3.50	0.000	0.00	0.00	0.00	0.105	1.015	8.233	0.00	34.55
165.00	3" Conduit	Yes	3.50	0.000	3.00	1.56	0.00	0.105	1.015	8.233	0.00	24.88
165.25	2" Conduit	Yes	0.25	0.000	0.00	0.00	0.00	0.106	1.019	8.236	0.00	2.47
165.25	3" Conduit	Yes	0.25	0.000	3.00	0.11	0.00	0.106	1.019	8.236	0.00	1.78
169.58	2" Conduit	Yes	4.33	0.000	0.00	0.00	0.00	0.108	1.025	8.281	0.00	42.86
169.58	3" Conduit	Yes	4.33	0.000	3.00	1.93	0.00	0.108	1.025	8.281	0.00	30.88
170.00	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.109	1.027	8.285	0.00	4.12
170.00	3" Conduit	Yes	0.42	0.000	3.00	0.19	0.00	0.109	1.027	8.285	0.00	2.97
175.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.034	8.336	0.00	49.57
175.00	3" Conduit	Yes	5.00	0.000	3.00	2.23	0.00	0.111	1.034	8.336	0.00	35.73

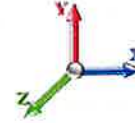
## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1 <b>Topography:</b> 1	<b>Struct Class:</b> II	Page: 43



**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor**    1.20  
**Wind Load Factor**    1.00



**Iterations**    26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
<b>Totals:</b>											0.0	3,183.8

## Calculated Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 26

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-108.5	-13.33	0.00	-1893.2	0.00	1893.28	8794.96	2077.55	10247.3	10671.5	0.00	0.000	0.000	0.190
5.00	-105.5	-13.25	0.00	-1826.6	0.00	1826.61	8639.43	2040.81	9888.09	10295.5	0.03	-0.050	0.000	0.190
10.00	-102.4	-13.17	0.00	-1760.3	0.00	1760.34	8483.89	2004.07	9535.27	9926.22	0.11	-0.101	0.000	0.189
15.00	-99.41	-13.09	0.00	-1694.4	0.00	1694.47	8328.36	1967.33	9188.85	9563.67	0.24	-0.153	0.000	0.189
20.00	-96.42	-13.00	0.00	-1629.0	0.00	1629.00	8172.83	1930.59	8848.85	9207.87	0.43	-0.206	0.000	0.189
25.00	-93.46	-12.90	0.00	-1563.9	0.00	1563.99	8017.29	1893.85	8515.26	8858.82	0.67	-0.260	0.000	0.188
30.00	-90.55	-12.79	0.00	-1499.4	0.00	1499.49	7861.76	1857.11	8188.07	8516.51	0.97	-0.314	0.000	0.188
35.00	-87.68	-12.68	0.00	-1435.5	0.00	1435.53	7706.22	1820.37	7867.30	8180.95	1.33	-0.370	0.000	0.187
40.00	-84.86	-12.56	0.00	-1372.1	0.00	1372.15	7550.69	1783.63	7552.93	7852.13	1.75	-0.426	0.000	0.186
45.00	-82.08	-12.39	0.00	-1309.3	0.00	1309.38	7395.16	1746.89	7244.98	7530.06	2.23	-0.483	0.000	0.185
45.42	-81.85	-12.41	0.00	-1304.2	0.00	1304.21	7382.20	1743.83	7219.61	7503.52	2.27	-0.488	0.000	0.185
48.90	-78.79	-12.28	0.00	-1261.0	0.00	1261.00	7273.84	1718.23	7009.22	7283.52	2.64	-0.529	0.000	0.123
50.00	-77.83	-12.25	0.00	-1247.4	0.00	1247.49	7239.62	1710.15	6943.43	7214.73	2.76	-0.538	0.000	0.122
52.75	-75.46	-12.15	0.00	-1213.8	0.00	1213.80	5810.43	1383.44	5679.89	5870.80	3.08	-0.559	0.000	0.125
55.00	-74.41	-12.08	0.00	-1186.4	0.00	1186.46	5769.82	1370.22	5571.80	5773.48	3.35	-0.577	0.000	0.137
57.15	-73.42	-12.02	0.00	-1160.4	0.00	1160.49	5730.75	1357.58	5469.49	5680.95	3.61	-0.596	0.000	0.135
57.15	-73.42	-12.02	0.00	-1160.4	0.00	1160.49	5730.75	1357.58	5469.49	5680.95	3.61	-0.596	0.000	0.211
60.00	-72.11	-11.95	0.00	-1126.2	0.00	1126.25	5678.55	1340.82	5335.33	5559.03	3.98	-0.621	0.000	0.215
65.00	-69.84	-11.83	0.00	-1066.4	0.00	1066.47	5551.73	1311.43	5103.98	5314.51	4.67	-0.692	0.000	0.213
70.00	-67.61	-11.69	0.00	-1007.3	0.00	1007.35	5427.30	1282.04	4877.76	5077.73	5.43	-0.763	0.000	0.211
75.00	-65.43	-11.56	0.00	-948.89	0.00	948.89	5302.88	1252.65	4656.67	4846.34	6.27	-0.835	0.000	0.208
80.00	-63.28	-11.41	0.00	-891.10	0.00	891.10	5178.45	1223.26	4440.70	4620.35	7.18	-0.907	0.000	0.205
84.00	-61.59	-11.28	0.00	-845.45	0.00	845.45	5078.91	1199.74	4271.62	4443.45	7.96	-0.966	0.000	0.202
85.00	-60.96	-11.25	0.00	-834.18	0.00	834.18	5054.02	1193.86	4229.87	4399.76	8.17	-0.981	0.000	0.202
87.00	-59.70	-11.19	0.00	-811.67	0.00	811.67	5004.25	1182.11	4146.97	4313.04	8.59	-1.011	0.000	0.121
90.00	-57.84	-11.06	0.00	-778.11	0.00	778.11	4929.59	1164.47	4024.16	4184.57	9.23	-1.038	0.000	0.119
90.42	-57.58	-11.06	0.00	-773.51	0.00	773.51	3591.78	889.89	3133.47	3116.43	9.32	-1.042	0.000	0.127
95.00	-56.01	-10.91	0.00	-722.81	0.00	722.81	3535.98	869.68	2992.78	2997.74	10.34	-1.083	0.000	0.139
100.00	-54.08	-10.65	0.00	-668.27	0.00	668.27	3473.75	847.63	2842.98	2869.66	11.50	-1.132	0.000	0.132
105.00	-52.43	-10.48	0.00	-615.02	0.00	615.02	3410.09	825.59	2697.03	2743.13	12.71	-1.181	0.000	0.126
109.50	-50.07	-9.79	0.00	-565.63	0.00	565.63	3351.58	805.75	2568.96	2630.66	13.85	-1.224	0.000	0.119
110.00	-49.91	-9.78	0.00	-560.74	0.00	560.74	3345.00	803.55	2554.93	2618.25	13.97	-1.229	0.000	0.119
112.25	-49.19	-9.71	0.00	-538.74	0.00	538.74	3315.25	793.63	2492.23	2562.62	14.56	-1.250	0.000	0.116
112.25	-49.19	-9.71	0.00	-538.74	0.00	538.74	3315.25	793.63	2492.23	2562.62	14.56	-1.250	0.000	0.216
115.00	-48.31	-9.64	0.00	-512.05	0.00	512.05	3278.49	781.50	2416.67	2495.11	15.29	-1.276	0.000	0.220
120.00	-46.76	-9.50	0.00	-463.84	0.00	463.84	3210.56	759.46	2282.25	2373.80	16.67	-1.365	0.000	0.210
123.58	-45.66	-9.39	0.00	-429.81	0.00	429.81	3148.16	743.66	2188.29	2278.75	17.72	-1.429	0.000	0.203
125.00	-45.05	-9.34	0.00	-416.51	0.00	416.51	3121.72	737.41	2151.69	2240.43	18.15	-1.454	0.000	0.200
125.60	-44.78	-9.33	0.00	-410.91	0.00	410.91	3110.52	734.77	2136.28	2224.30	18.33	-1.465	0.000	0.113
129.00	-43.33	-9.19	0.00	-379.19	0.00	379.19	2149.47	550.17	1596.92	1538.58	19.39	-1.498	0.000	0.118
130.00	-42.97	-9.13	0.00	-369.95	0.00	369.95	2141.27	546.86	1577.79	1523.43	19.70	-1.508	0.000	0.132
135.00	-41.72	-8.95	0.00	-324.32	0.00	324.32	2099.38	530.33	1483.83	1448.11	21.31	-1.560	0.000	0.120
136.26	-41.40	-8.92	0.00	-313.03	0.00	313.03	2088.60	526.16	1460.60	1429.26	21.72	-1.573	0.000	0.117
136.26	-41.40	-8.92	0.00	-313.03	0.00	313.03	2088.60	526.16	1460.60	1429.26	21.72	-1.573	0.000	0.226
140.00	-40.49	-8.83	0.00	-279.66	0.00	279.66	2056.07	513.79	1392.75	1373.65	22.97	-1.609	0.000	0.224
145.00	-35.20	-7.69	0.00	-235.53	0.00	235.53	2011.34	497.26	1304.56	1300.16	24.71	-1.702	0.000	0.199
150.00	-34.03	-7.55	0.00	-197.08	0.00	197.08	1965.18	480.73	1219.25	1227.71	26.54	-1.788	0.000	0.178
155.00	-27.50	-6.19	0.00	-159.32	0.00	159.32	1917.59	464.19	1136.83	1156.40	28.45	-1.867	0.000	0.152

## Calculated Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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160.00	-26.47	-6.03	0.00	-128.37	0.00	128.37	1868.58	447.66	1057.29	1086.34	30.45	-1.937	0.000	0.133
161.50	-23.80	-5.61	0.00	-119.32	0.00	119.32	1853.60	442.70	1033.99	1065.57	31.06	-1.958	0.000	0.125
165.00	-23.09	-5.49	0.00	-99.69	0.00	99.69	1818.15	431.13	980.64	1017.59	32.51	-2.001	0.000	0.111
165.25	-23.04	-5.49	0.00	-98.32	0.00	98.32	1815.59	430.30	976.88	1014.19	32.61	-2.004	0.000	0.110
169.58	-21.90	-5.34	0.00	-74.51	0.00	74.51	1040.26	282.24	630.39	573.59	34.46	-2.050	0.000	0.151
170.00	-21.83	-5.34	0.00	-72.29	0.00	72.29	1038.39	281.32	626.30	570.68	34.63	-2.054	0.000	0.148
175.00	-13.75	-3.47	0.00	-45.60	0.00	45.60	1015.17	270.30	578.18	535.91	36.82	-2.112	0.000	0.099
180.00	-13.15	-3.33	0.00	-28.22	0.00	28.22	990.53	259.27	531.99	501.43	39.05	-2.153	0.000	0.070
185.00	-5.72	-1.61	0.00	-11.58	0.00	11.58	964.47	248.25	487.72	467.32	41.32	-2.177	0.000	0.031
187.00	-5.25	-1.30	0.00	-6.21	0.00	6.21	953.65	243.84	470.55	453.81	42.24	-2.183	0.000	0.019
190.00	-4.94	-1.21	0.00	-2.32	0.00	2.32	936.98	237.23	445.37	433.69	43.61	-2.187	0.000	0.011
191.50	-0.42	-0.13	0.00	-0.50	0.00	0.50	928.46	233.92	433.04	423.70	44.30	-2.188	0.000	0.002
195.00	-0.11	-0.04	0.00	-0.04	0.00	0.04	908.07	226.21	404.95	400.62	45.90	-2.188	0.000	0.000
196.00	0.00	-0.03	0.00	0.00	0.00	0.00	902.11	224.00	397.09	394.08	46.36	-2.188	0.000	0.000

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Ev + 1.0Eh

<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.19		<b>Iterations</b>	23
<b>Dead Load Factor</b>	1.20	<b>Seismic Load Factor</b>	1.00	<b>Sd1</b>	<b>Ss</b>	0.17
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.26	<b>SA</b>	<b>S1</b>	0.05
				<b>Seismic Importance Factor</b>		1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	
0.00		0.00	0.00	0.00	0.00	
5.00		2316.2	2.50	86.47	0.01	
10.00		2280.6	7.50	85.14	0.13	
15.00		2245.0	12.50	83.81	0.35	
20.00		2209.3	17.50	82.48	0.66	
25.00		2173.7	22.50	81.15	1.05	
30.00		2138.1	27.50	79.82	1.52	
35.00		2102.5	32.50	78.49	2.06	
40.00		2066.9	37.50	77.16	2.65	
45.00		2031.2	42.50	75.83	3.29	
45.42	Bot - Section 2	167.67	45.21	6.26	0.03	
48.90	RB1	2348.5	47.16	87.68	5.41	
50.00		735.19	49.45	27.45	0.58	
52.75	Top - Section 1	1824.4	51.38	68.11	3.87	
55.00		744.63	53.88	27.80	0.71	
57.15	RT1	706.14	56.08	26.36	0.69	
60.00		927.93	58.58	34.64	1.30	
65.00		1605.5	62.50	59.94	4.44	
70.00		1577.0	67.50	58.88	5.00	
75.00		1548.5	72.50	57.81	5.56	
80.00		1520.0	77.50	56.75	6.12	
84.00	Bot - Section 3	1195.5	82.00	44.63	4.24	
85.00		473.64	84.50	17.68	0.71	
87.00	RB2	941.29	86.00	35.14	2.89	
90.00		1396.9	88.50	52.15	6.74	
90.42	Top - Section 2	192.61	90.21	7.19	0.13	
95.00		1075.1	92.71	40.14	4.38	
100.00	Appurtenance(s)	1228.3	97.50	45.86	6.33	
105.00		1130.7	102.50	42.22	5.92	
109.50	Appurtenance(s)	1449.4	107.25	54.11	10.66	
110.00		109.40	109.75	4.08	0.06	
112.25	RT2	489.67	111.13	18.28	1.31	
115.00		592.60	113.63	22.12	2.00	
120.00		1060.9	117.50	39.61	6.85	
123.58	Bot - Section 4	747.17	121.79	27.89	3.65	
125.00		447.76	124.29	16.72	1.37	
125.60	RB3	188.73	125.30	7.05	0.25	
129.00	Top - Section 3	1059.3	127.30	39.55	8.02	
130.00	Appurtenance(s)	222.14	129.50	8.29	0.36	
135.00		832.98	132.50	31.10	5.37	
136.26	RT3	207.38	135.63	7.74	0.35	
140.00		609.57	138.13	22.76	3.13	
145.00	Appurtenance(s)	3160.0	142.50	117.97	89.42	
150.00		773.97	147.50	28.89	5.75	
155.00	Appurtenance(s)	3520.9	152.50	131.45	127.14	
160.00		669.20	157.50	24.98	4.90	

R: 1.50



## Seismic Segment Forces (Factored)

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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161.50	Appurtenance(s)	1697.6	160.75	63.38	32.84
165.00		455.54	163.25	17.01	2.44
165.25	Bot - Section 5	32.24	165.13	1.20	0.01
169.58	Top - Section 4	793.57	167.42	29.63	7.78
170.00		41.70	169.79	1.56	0.02
175.00	Appurtenance(s)	4031.7	172.50	150.52	213.30
180.00		364.19	177.50	13.60	1.84
185.00	Appurtenance(s)	3576.5	182.50	133.52	187.88
187.00	Appurtenance(s)	228.79	186.00	8.54	0.80
190.00		176.11	188.50	6.57	0.49
191.50	Appurtenance(s)	2457.0	190.75	91.73	96.87
195.00		156.13	193.25	5.83	0.40
196.00	Appurtenance(s)	50.15	195.50	1.87	0.04
<b>Totals:</b>		<b>71,106.5</b>		<b>2,654.6</b>	<b>892.1</b>

**Total Wind:** 46,276.3

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.2D + 1.0Ev + 1.0Eh

**Gust Response Factor** 1.10

**Sds** 0.19

**Iterations** 23

**Dead Load Factor** 1.20 **Seismic Load Factor** 1.00

**Sd1** 0.09

**Ss** 0.17

**Wind Load Factor** 0.00 **Structure Frequency (f1)** 0.26

**SA** 0.02

**Seismic Importance Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-85.78	-0.89	0.00	-152.50	0.00	152.50	8794.96	2077.55	10247.3	10671.5		0.00	0.00	0.024
5.00	-82.97	-0.90	0.00	-148.03	0.00	148.03	8639.43	2040.81	9888.09	10295.5		0.00	0.00	0.024
10.00	-80.22	-0.90	0.00	-143.53	0.00	143.53	8483.89	2004.07	9535.27	9926.22		0.01	-0.01	0.024
15.00	-77.50	-0.91	0.00	-139.01	0.00	139.01	8328.36	1967.33	9188.85	9563.67		0.02	-0.01	0.024
20.00	-74.83	-0.91	0.00	-134.46	0.00	134.46	8172.83	1930.59	8848.85	9207.87		0.03	-0.02	0.024
25.00	-72.21	-0.92	0.00	-129.89	0.00	129.89	8017.29	1893.85	8515.26	8858.82		0.05	-0.02	0.024
30.00	-69.63	-0.92	0.00	-125.30	0.00	125.30	7861.76	1857.11	8188.07	8516.51		0.08	-0.03	0.024
35.00	-67.09	-0.92	0.00	-120.69	0.00	120.69	7706.22	1820.37	7867.30	8180.95		0.11	-0.03	0.023
40.00	-64.59	-0.92	0.00	-116.08	0.00	116.08	7550.69	1783.63	7552.93	7852.13		0.14	-0.04	0.023
45.00	-62.14	-0.92	0.00	-111.45	0.00	111.45	7395.16	1746.89	7244.98	7530.06		0.18	-0.04	0.023
45.42	-61.94	-0.92	0.00	-111.07	0.00	111.07	7382.20	1743.83	7219.61	7503.52		0.19	-0.04	0.023
48.90	-59.08	-0.92	0.00	-107.85	0.00	107.85	7273.84	1718.23	7009.22	7283.52		0.22	-0.04	0.015
50.00	-58.19	-0.92	0.00	-106.84	0.00	106.84	7239.62	1710.15	6943.43	7214.73		0.23	-0.04	0.015
52.75	-55.96	-0.92	0.00	-104.31	0.00	104.31	7104.43	1683.44	6579.89	6870.80		0.25	-0.05	0.016
55.00	-55.07	-0.92	0.00	-102.25	0.00	102.25	6969.82	1670.22	6371.80	6773.48		0.28	-0.05	0.017
57.15	-54.22	-0.92	0.00	-100.28	0.00	100.28	6830.75	1657.58	6179.49	6680.95		0.30	-0.05	0.017
57.15	-54.22	-0.92	0.00	-100.28	0.00	100.28	6830.75	1657.58	6179.49	6680.95		0.30	-0.05	0.024
60.00	-53.11	-0.92	0.00	-97.67	0.00	97.67	6678.55	1640.82	5983.33	6559.03		0.33	-0.05	0.027
65.00	-51.19	-0.92	0.00	-93.09	0.00	93.09	6551.73	1611.43	5793.98	6394.51		0.39	-0.06	0.027
70.00	-49.30	-0.92	0.00	-88.50	0.00	88.50	6427.30	1582.04	5617.76	6277.73		0.45	-0.06	0.027
75.00	-47.45	-0.91	0.00	-83.93	0.00	83.93	6302.88	1552.65	5456.67	6166.34		0.52	-0.07	0.026
80.00	-45.63	-0.91	0.00	-79.37	0.00	79.37	6178.45	1523.26	5300.70	6060.35		0.60	-0.08	0.026
84.00	-44.21	-0.91	0.00	-75.73	0.00	75.73	6078.91	1499.74	5150.62	5964.45		0.66	-0.08	0.026
85.00	-43.63	-0.91	0.00	-74.83	0.00	74.83	6054.02	1493.86	5129.87	5969.76		0.68	-0.08	0.026
87.00	-42.49	-0.90	0.00	-73.02	0.00	73.02	6004.25	1482.11	5024.97	5893.04		0.72	-0.09	0.016
90.00	-40.80	-0.89	0.00	-70.31	0.00	70.31	5929.59	1464.47	4924.16	5824.57		0.77	-0.09	0.015
90.42	-40.57	-0.90	0.00	-69.94	0.00	69.94	5917.78	1464.47	4924.16	5824.57		0.78	-0.09	0.016
95.00	-39.30	-0.89	0.00	-65.84	0.00	65.84	5835.98	1449.68	4829.78	5749.74		0.87	-0.09	0.018
100.00	-37.84	-0.89	0.00	-61.38	0.00	61.38	5747.75	1435.63	4742.98	5686.66		0.97	-0.10	0.017
105.00	-36.51	-0.88	0.00	-56.95	0.00	56.95	5650.09	1421.59	4657.03	5631.13		1.07	-0.10	0.017
109.50	-34.77	-0.87	0.00	-52.99	0.00	52.99	5551.58	1407.55	4572.96	5580.66		1.17	-0.11	0.016
110.00	-34.64	-0.87	0.00	-52.55	0.00	52.55	5545.00	1403.55	4564.93	5580.25		1.18	-0.11	0.016
112.25	-34.06	-0.87	0.00	-50.60	0.00	50.60	5451.25	1389.55	4482.23	5526.62		1.23	-0.11	0.016
112.25	-34.06	-0.87	0.00	-50.60	0.00	50.60	5451.25	1389.55	4482.23	5526.62		1.23	-0.11	0.025
115.00	-33.37	-0.87	0.00	-48.22	0.00	48.22	5378.49	1375.50	4401.67	5475.11		1.29	-0.11	0.030
120.00	-32.12	-0.86	0.00	-43.88	0.00	43.88	5210.56	1357.46	4228.25	5373.80		1.42	-0.12	0.028
123.58	-31.24	-0.86	0.00	-40.79	0.00	40.79	5148.16	1343.66	4158.29	5278.75		1.51	-0.13	0.028
125.00	-30.70	-0.86	0.00	-39.58	0.00	39.58	5121.72	1337.41	4101.69	5240.43		1.54	-0.13	0.028
125.60	-30.47	-0.86	0.00	-39.06	0.00	39.06	5110.52	1334.77	4086.28	5224.30		1.56	-0.13	0.016
129.00	-29.21	-0.85	0.00	-36.15	0.00	36.15	5049.47	1319.92	4006.92	5158.58		1.65	-0.13	0.017
130.00	-28.94	-0.85	0.00	-35.30	0.00	35.30	5041.27	1317.79	4001.43	5152.43		1.68	-0.13	0.019
135.00	-27.97	-0.84	0.00	-31.06	0.00	31.06	4999.38	1303.33	3928.83	5088.11		1.82	-0.14	0.017
136.26	-27.73	-0.84	0.00	-30.00	0.00	30.00	4988.60	1301.16	3920.60	5082.26		1.86	-0.14	0.017
136.26	-27.73	-0.84	0.00	-30.00	0.00	30.00	4988.60	1301.16	3920.60	5082.26		1.86	-0.14	0.028
140.00	-27.03	-0.84	0.00	-26.85	0.00	26.85	4956.07	1287.79	3857.75	5036.65		1.97	-0.14	0.033
145.00	-23.18	-0.74	0.00	-22.65	0.00	22.65	4811.34	1257.26	3704.56	4900.16		2.12	-0.15	0.029
150.00	-22.28	-0.74	0.00	-18.93	0.00	18.93	4665.18	1227.71	3559.25	4772.71		2.29	-0.16	0.027

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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155.00	-17.98	-0.60	0.00	-15.23	0.00	15.23	1917.59	464.19	1136.83	1156.40	2.46	-0.17	0.023
160.00	-17.20	-0.60	0.00	-12.22	0.00	12.22	1868.58	447.66	1057.29	1086.34	2.64	-0.17	0.020
161.50	-15.11	-0.56	0.00	-11.32	0.00	11.32	1853.60	442.70	1033.99	1065.57	2.69	-0.18	0.019
165.00	-14.58	-0.55	0.00	-9.37	0.00	9.37	1818.15	431.13	980.64	1017.59	2.82	-0.18	0.017
165.25	-14.55	-0.56	0.00	-9.23	0.00	9.23	1815.59	430.30	976.88	1014.19	2.83	-0.18	0.017
169.58	-13.60	-0.54	0.00	-6.82	0.00	6.82	1040.26	282.24	630.39	573.59	3.00	-0.18	0.025
170.00	-13.55	-0.55	0.00	-6.60	0.00	6.60	1038.39	281.32	626.30	570.68	3.01	-0.18	0.025
175.00	-8.61	-0.32	0.00	-3.87	0.00	3.87	1015.17	270.30	578.18	535.91	3.21	-0.19	0.016
180.00	-8.18	-0.31	0.00	-2.29	0.00	2.29	990.53	259.27	531.99	501.43	3.41	-0.19	0.013
185.00	-3.78	-0.11	0.00	-0.72	0.00	0.72	964.47	248.25	487.72	467.32	3.61	-0.20	0.005
187.00	-3.50	-0.11	0.00	-0.50	0.00	0.50	953.65	243.84	470.55	453.81	3.70	-0.20	0.005
190.00	-3.29	-0.11	0.00	-0.17	0.00	0.17	936.98	237.23	445.37	433.69	3.82	-0.20	0.004
191.50	-0.26	0.00	0.00	0.00	0.00	0.00	928.46	233.92	433.04	423.70	3.88	-0.20	0.000
195.00	-0.06	0.00	0.00	0.00	0.00	0.00	908.07	226.21	404.95	400.62	4.02	-0.20	0.000
196.00	0.00	0.00	0.00	0.00	0.00	0.00	902.11	224.00	397.09	394.08	4.07	-0.20	0.000

## Seismic Segment Forces (Factored)

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 0.9D + 1.0Ev + 1.0Eh

**Gust Response Factor** 1.10

**Dead Load Factor** 0.90

**Wind Load Factor** 0.00

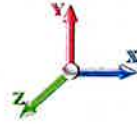
**Seismic Load Factor** 1.00

**Structure Frequency (f1)** 0.26

**Sds** 0.19

**Sd1** 0.09

**SA** 0.02



**Iterations** 23

**Ss** 0.17

**S1** 0.05

**Seismic Importance Factor** 1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		2236.2	2.50	83.49	0.01	
10.00		2200.6	7.50	82.16	0.13	
15.00		2165.0	12.50	80.83	0.34	
20.00		2129.3	17.50	79.50	0.64	
25.00		2093.7	22.50	78.17	1.02	
30.00		2058.1	27.50	76.84	1.47	
35.00		2022.5	32.50	75.51	1.98	
40.00		1986.9	37.50	74.18	2.55	
45.00		1951.3	42.50	72.85	3.16	
45.42	Bot - Section 2	161.00	45.21	6.01	0.02	
48.90	RB1	2292.8	47.16	85.60	5.37	
50.00		717.59	49.45	26.79	0.58	
52.75	Top - Section 1	1780.4	51.38	66.47	3.84	
55.00		708.63	53.88	26.46	0.67	
57.15	RT1	671.75	56.08	25.08	0.65	
60.00		882.33	58.58	32.94	1.23	
65.00		1525.5	62.50	56.96	4.18	
70.00		1497.0	67.50	55.89	4.69	
75.00		1468.6	72.50	54.83	5.21	
80.00		1440.1	77.50	53.76	5.72	
84.00	Bot - Section 3	1131.5	82.00	42.25	3.96	
85.00		457.64	84.50	17.09	0.69	
87.00	RB2	909.30	86.00	33.95	2.81	
90.00		1348.9	88.50	50.36	6.55	
90.42	Top - Section 2	185.94	90.21	6.94	0.13	
95.00		1001.8	92.71	37.40	3.96	
100.00	Appurtenance(s)	1148.3	97.50	42.87	5.76	
105.00		1050.8	102.50	39.23	5.33	
109.50	Appurtenance(s)	1377.4	107.25	51.43	10.03	
110.00		101.55	109.75	3.79	0.06	
112.25	RT2	454.35	111.13	16.96	1.17	
115.00		549.44	113.63	20.51	1.79	
120.00		982.41	117.50	36.68	6.12	
123.58	Bot - Section 4	690.92	121.79	25.79	3.25	
125.00		425.52	124.29	15.89	1.28	
125.60	RB3	179.32	125.30	6.69	0.23	
129.00	Top - Section 3	1005.9	127.30	37.56	7.53	
130.00	Appurtenance(s)	206.45	129.50	7.71	0.33	
135.00		755.27	132.50	28.20	4.60	
136.26	RT3	187.80	135.63	7.01	0.30	
140.00		551.44	138.13	20.59	2.67	
145.00	Appurtenance(s)	3082.3	142.50	115.07	88.62	
150.00		698.99	147.50	26.10	4.88	
155.00	Appurtenance(s)	3445.9	152.50	128.65	126.86	
160.00		612.40	157.50	22.86	4.27	

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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161.50	Appurtenance(s)	1680.5	160.75	62.74	33.53
165.00		415.78	163.25	15.52	2.12
165.25	Bot - Section 5	29.40	165.13	1.10	0.01
169.58	Top - Section 4	744.34	167.42	27.79	7.13
170.00		36.96	169.79	1.38	0.02
175.00	Appurtenance(s)	3974.9	172.50	148.40	215.97
180.00		337.32	177.50	12.59	1.65
185.00	Appurtenance(s)	3549.6	182.50	132.52	192.78
187.00	Appurtenance(s)	222.45	186.00	8.30	0.79
190.00		167.06	188.50	6.24	0.46
191.50	Appurtenance(s)	2452.4	190.75	91.56	100.53
195.00		156.13	193.25	5.83	0.42
196.00	Appurtenance(s)	50.15	195.50	1.87	0.04
<b>Totals:</b>		<b>68,349.1</b>		<b>2,551.7</b>	<b>892.1</b>

**Total Wind: 46,276.3**

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 0.9D + 1.0Ev + 1.0Eh

**Gust Response Factor** 1.10

**Sds** 0.19

**Iterations** 23

**Dead Load Factor** 0.90 **Seismic Load Factor** 1.00 **Sd1** 0.09

**Ss** 0.17

**Wind Load Factor** 0.00 **Structure Frequency (f1)** 0.26 **SA** 0.02 **Seismic Importance Factor** 1.00

**S1** 0.05



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-64.89	-0.89	0.00	-150.97	0.00	150.97	8794.96	2077.55	10247.3	10671.5	0.00	0.00	0.00	0.022
5.00	-62.77	-0.90	0.00	-146.51	0.00	146.51	8639.43	2040.81	9888.09	10295.5	0.00	0.00	0.00	0.021
10.00	-60.69	-0.90	0.00	-142.02	0.00	142.02	8483.89	2004.07	9535.27	9926.22	0.01	-0.01	0.021	0.021
15.00	-58.63	-0.91	0.00	-137.51	0.00	137.51	8328.36	1967.33	9188.85	9563.67	0.02	-0.01	0.021	0.021
20.00	-56.61	-0.91	0.00	-132.99	0.00	132.99	8172.83	1930.59	8848.85	9207.87	0.03	-0.02	0.021	0.021
25.00	-54.63	-0.91	0.00	-128.45	0.00	128.45	8017.29	1893.85	8515.26	8858.82	0.05	-0.02	0.021	0.021
30.00	-52.67	-0.91	0.00	-123.89	0.00	123.89	7861.76	1857.11	8188.07	8516.51	0.08	-0.03	0.021	0.021
35.00	-50.75	-0.91	0.00	-119.33	0.00	119.33	7706.22	1820.37	7867.30	8180.95	0.11	-0.03	0.021	0.021
40.00	-48.87	-0.91	0.00	-114.76	0.00	114.76	7550.69	1783.63	7552.93	7852.13	0.14	-0.03	0.021	0.021
45.00	-47.01	-0.91	0.00	-110.19	0.00	110.19	7395.16	1746.89	7244.98	7530.06	0.18	-0.04	0.021	0.021
45.42	-46.86	-0.91	0.00	-109.81	0.00	109.81	7382.20	1743.83	7219.61	7503.52	0.18	-0.04	0.021	0.021
48.90	-44.69	-0.91	0.00	-106.63	0.00	106.63	7273.84	1718.23	7009.22	7283.52	0.21	-0.04	0.014	0.014
50.00	-44.02	-0.91	0.00	-105.63	0.00	105.63	7239.62	1710.15	6943.43	7214.73	0.22	-0.04	0.014	0.014
52.75	-42.33	-0.90	0.00	-103.13	0.00	103.13	5810.43	1383.44	5679.89	5870.80	0.25	-0.05	0.014	0.014
55.00	-41.66	-0.90	0.00	-101.10	0.00	101.10	5769.82	1370.22	5571.80	5773.48	0.27	-0.05	0.016	0.016
57.15	-41.02	-0.90	0.00	-99.15	0.00	99.15	5730.75	1357.58	5469.49	5680.95	0.29	-0.05	0.015	0.015
57.15	-41.02	-0.90	0.00	-99.15	0.00	99.15	5730.75	1357.58	5469.49	5680.95	0.29	-0.05	0.022	0.022
60.00	-40.18	-0.91	0.00	-96.57	0.00	96.57	5678.55	1340.82	5335.33	5559.03	0.32	-0.05	0.024	0.024
65.00	-38.72	-0.90	0.00	-92.05	0.00	92.05	5551.73	1311.43	5103.98	5314.51	0.38	-0.06	0.024	0.024
70.00	-37.30	-0.90	0.00	-87.53	0.00	87.53	5427.30	1282.04	4877.76	5077.73	0.45	-0.06	0.024	0.024
75.00	-35.90	-0.90	0.00	-83.02	0.00	83.02	5302.88	1252.65	4656.67	4846.34	0.52	-0.07	0.024	0.024
80.00	-34.52	-0.89	0.00	-78.53	0.00	78.53	5178.45	1223.26	4440.70	4620.35	0.59	-0.08	0.024	0.024
84.00	-33.44	-0.89	0.00	-74.95	0.00	74.95	5078.91	1199.74	4271.62	4443.45	0.66	-0.08	0.023	0.023
85.00	-33.01	-0.89	0.00	-74.06	0.00	74.06	5054.02	1193.86	4229.87	4399.76	0.67	-0.08	0.023	0.023
87.00	-32.15	-0.89	0.00	-72.27	0.00	72.27	5004.25	1182.11	4146.97	4313.04	0.71	-0.09	0.014	0.014
90.00	-30.87	-0.88	0.00	-69.61	0.00	69.61	4929.59	1164.47	4024.16	4184.57	0.76	-0.09	0.014	0.014
90.42	-30.69	-0.88	0.00	-69.24	0.00	69.24	3591.78	889.89	3133.47	3116.43	0.77	-0.09	0.015	0.015
95.00	-29.73	-0.88	0.00	-65.20	0.00	65.20	3535.98	869.68	2992.78	2997.74	0.86	-0.09	0.016	0.016
100.00	-28.63	-0.87	0.00	-60.81	0.00	60.81	3473.75	847.63	2842.98	2869.66	0.96	-0.10	0.016	0.016
105.00	-27.62	-0.87	0.00	-56.45	0.00	56.45	3410.09	825.59	2697.03	2743.13	1.06	-0.10	0.015	0.015
109.50	-26.31	-0.86	0.00	-52.54	0.00	52.54	3351.58	805.75	2568.96	2630.66	1.16	-0.10	0.015	0.015
110.00	-26.21	-0.86	0.00	-52.11	0.00	52.11	3345.00	803.55	2554.93	2618.25	1.17	-0.11	0.015	0.015
112.25	-25.77	-0.86	0.00	-50.19	0.00	50.19	3315.25	793.63	2492.23	2562.62	1.22	-0.11	0.014	0.014
112.25	-25.77	-0.86	0.00	-50.19	0.00	50.19	3315.25	793.63	2492.23	2562.62	1.22	-0.11	0.024	0.024
115.00	-25.25	-0.86	0.00	-47.83	0.00	47.83	3278.49	781.50	2416.67	2495.11	1.28	-0.11	0.027	0.027
120.00	-24.30	-0.85	0.00	-43.55	0.00	43.55	3210.56	759.46	2282.25	2373.80	1.40	-0.12	0.026	0.026
123.58	-23.64	-0.85	0.00	-40.51	0.00	40.51	3148.16	743.66	2188.29	2278.75	1.49	-0.12	0.025	0.025
125.00	-23.23	-0.85	0.00	-39.31	0.00	39.31	3121.72	737.41	2151.69	2240.43	1.53	-0.13	0.025	0.025
125.60	-23.06	-0.85	0.00	-38.80	0.00	38.80	3110.52	734.77	2136.28	2224.30	1.54	-0.13	0.014	0.014
129.00	-22.10	-0.84	0.00	-35.92	0.00	35.92	2149.47	550.17	1596.92	1538.58	1.64	-0.13	0.015	0.015
130.00	-21.90	-0.84	0.00	-35.08	0.00	35.08	2141.27	546.86	1577.79	1523.43	1.66	-0.13	0.017	0.017
135.00	-21.17	-0.83	0.00	-30.89	0.00	30.89	2099.38	530.33	1483.83	1448.11	1.80	-0.14	0.016	0.016
136.26	-20.99	-0.83	0.00	-29.84	0.00	29.84	2088.60	526.16	1460.60	1429.26	1.84	-0.14	0.015	0.015
136.26	-20.99	-0.83	0.00	-29.84	0.00	29.84	2088.60	526.16	1460.60	1429.26	1.84	-0.14	0.026	0.026
140.00	-20.46	-0.83	0.00	-26.73	0.00	26.73	2056.07	513.79	1392.75	1373.65	1.95	-0.14	0.029	0.029
145.00	-17.54	-0.74	0.00	-22.57	0.00	22.57	2011.34	497.26	1304.56	1300.16	2.10	-0.15	0.026	0.026
150.00	-16.87	-0.73	0.00	-18.88	0.00	18.88	1965.18	480.73	1219.25	1227.71	2.26	-0.16	0.024	0.024

## Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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155.00	-13.61	-0.60	0.00	-15.22	0.00	15.22	1917.59	464.19	1136.83	1156.40	2.43	-0.17	0.020
160.00	-13.02	-0.59	0.00	-12.22	0.00	12.22	1868.58	447.66	1057.29	1086.34	2.61	-0.17	0.018
161.50	-11.44	-0.56	0.00	-11.33	0.00	11.33	1853.60	442.70	1033.99	1065.57	2.66	-0.17	0.017
165.00	-11.04	-0.55	0.00	-9.38	0.00	9.38	1818.15	431.13	980.64	1017.59	2.79	-0.18	0.015
165.25	-11.01	-0.55	0.00	-9.24	0.00	9.24	1815.59	430.30	976.88	1014.19	2.80	-0.18	0.015
169.58	-10.30	-0.55	0.00	-6.84	0.00	6.84	1040.26	282.24	630.39	573.59	2.97	-0.18	0.022
170.00	-10.26	-0.55	0.00	-6.62	0.00	6.62	1038.39	281.32	626.30	570.68	2.98	-0.18	0.021
175.00	-6.52	-0.32	0.00	-3.89	0.00	3.89	1015.17	270.30	578.18	535.91	3.18	-0.19	0.014
180.00	-6.20	-0.32	0.00	-2.30	0.00	2.30	990.53	259.27	531.99	501.43	3.38	-0.19	0.011
185.00	-2.86	-0.11	0.00	-0.72	0.00	0.72	964.47	248.25	487.72	467.32	3.58	-0.19	0.005
187.00	-2.65	-0.11	0.00	-0.50	0.00	0.50	953.65	243.84	470.55	453.81	3.66	-0.19	0.004
190.00	-2.49	-0.11	0.00	-0.17	0.00	0.17	936.98	237.23	445.37	433.69	3.78	-0.19	0.003
191.50	-0.19	0.00	0.00	0.00	0.00	0.00	928.46	233.92	433.04	423.70	3.84	-0.19	0.000
195.00	-0.05	0.00	0.00	0.00	0.00	0.00	908.07	226.21	404.95	400.62	3.99	-0.19	0.000
196.00	0.00	0.00	0.00	0.00	0.00	0.00	902.11	224.00	397.09	394.08	4.03	-0.19	0.000

## Wind Loading - Shaft

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00

**Iterations** 25



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	6.412	7.05	276.73	0.750	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	6.412	7.05	271.88	0.750	0.000	5.00	25.267	18.95	133.7	0.0	1996.3
10.00		1.00	0.85	6.412	7.05	267.04	0.750	0.000	5.00	24.821	18.62	131.3	0.0	1960.7
15.00		1.00	0.85	6.412	7.05	262.20	0.750	0.000	5.00	24.375	18.28	128.9	0.0	1925.0
20.00		1.00	0.90	6.803	7.48	265.09	0.750	0.000	5.00	23.929	17.95	134.3	0.0	1889.4
25.00		1.00	0.95	7.130	7.84	266.29	0.750	0.000	5.00	23.482	17.61	138.1	0.0	1853.8
30.00		1.00	0.98	7.409	8.15	266.24	0.750	0.000	5.00	23.036	17.28	140.8	0.0	1818.2
35.00		1.00	1.01	7.654	8.42	265.31	0.750	0.000	5.00	22.590	16.94	142.6	0.0	1782.6
40.00		1.00	1.04	7.872	8.66	263.70	0.750	0.000	5.00	22.144	16.61	143.8	0.0	1747.0
45.00		1.00	1.07	8.069	8.88	261.55	0.750	0.000	5.00	21.698	16.27	144.5	0.0	1711.3
45.42	Bot - Section 2	1.00	1.07	8.085	8.89	261.35	0.750	0.000	0.42	1.788	1.34	11.9	0.0	141.0
48.90	RB1	1.00	1.09	8.212	9.03	259.58	0.750	0.000	3.48	15.123	11.34	102.5	0.0	2125.7
50.00		1.00	1.09	8.250	9.08	258.98	0.750	0.000	1.10	4.731	3.55	32.2	0.0	664.8
52.75	Top - Section 1	1.00	1.11	8.344	9.18	257.40	0.750	0.000	2.75	11.732	8.80	80.8	0.0	1648.4
55.00		1.00	1.12	8.418	9.26	261.32	0.750	0.000	2.25	9.499	7.12	66.0	0.0	600.6
57.15	RT1	1.00	1.12	8.486	9.33	259.98	0.750	0.000	2.15	8.992	6.74	63.0	0.0	568.6
60.00		1.00	1.14	8.573	9.43	258.13	0.750	0.000	2.85	11.793	8.84	83.4	0.0	745.6
65.00		1.00	1.16	8.719	9.59	254.66	0.750	0.000	5.00	20.339	15.25	146.3	0.0	1285.6
70.00		1.00	1.17	8.856	9.74	250.97	0.750	0.000	5.00	19.893	14.92	145.3	0.0	1257.1
75.00		1.00	1.19	8.986	9.88	247.06	0.750	0.000	5.00	19.446	14.58	144.2	0.0	1228.6
80.00		1.00	1.21	9.109	10.02	242.97	0.750	0.000	5.00	19.000	14.25	142.8	0.0	1200.1
84.00	Bot - Section 3	1.00	1.22	9.203	10.12	239.58	0.750	0.000	4.00	14.879	11.16	113.0	0.0	939.6
85.00		1.00	1.22	9.226	10.15	238.72	0.750	0.000	1.00	3.739	2.80	28.5	0.0	409.6
87.00	RB2	1.00	1.23	9.271	10.20	236.98	0.750	0.000	2.00	7.424	5.57	56.8	0.0	813.3
90.00		1.00	1.24	9.337	10.27	234.32	0.750	0.000	3.00	11.003	8.25	84.8	0.0	1205.0
90.42	Top - Section 2	1.00	1.24	9.346	10.28	233.94	0.750	0.000	0.42	1.515	1.14	11.7	0.0	165.9
95.00		1.00	1.25	9.444	10.39	233.98	0.750	0.000	4.58	16.465	12.35	128.3	0.0	781.8
100.00	Appurtenance(s)	1.00	1.27	9.547	10.50	229.33	0.750	0.000	5.00	17.535	13.15	138.1	0.0	832.4
105.00		1.00	1.28	9.645	10.61	224.57	0.750	0.000	5.00	17.089	12.82	136.0	0.0	811.1
109.50	Appurtenance(s)	1.00	1.29	9.731	10.70	220.20	0.750	0.000	4.50	14.998	11.25	120.4	0.0	711.7
110.00		1.00	1.29	9.740	10.71	219.71	0.750	0.000	0.50	1.644	1.23	13.2	0.0	78.0
112.25	RT2	1.00	1.30	9.782	10.76	217.48	0.750	0.000	2.25	7.344	5.51	59.3	0.0	348.4
115.00		1.00	1.30	9.832	10.81	214.74	0.750	0.000	2.75	8.853	6.64	71.8	0.0	419.9
120.00		1.00	1.32	9.920	10.91	209.68	0.750	0.000	5.00	15.750	11.81	128.9	0.0	746.9
123.58	Bot - Section 4	1.00	1.32	9.982	10.98	206.00	0.750	0.000	3.58	11.013	8.26	90.7	0.0	522.2
125.00		1.00	1.33	10.006	11.01	204.53	0.750	0.000	1.42	4.359	3.27	36.0	0.0	358.8
125.60	RB3	1.00	1.33	10.016	11.02	203.91	0.750	0.000	0.60	1.835	1.38	15.2	0.0	151.1
129.00	Top - Section 3	1.00	1.34	10.072	11.08	200.36	0.750	0.000	3.40	10.278	7.71	85.4	0.0	845.8
130.00	Appurtenance(s)	1.00	1.34	10.089	11.10	202.56	0.750	0.000	1.00	2.984	2.24	24.8	0.0	106.4
135.00		1.00	1.35	10.169	11.19	197.27	0.750	0.000	5.00	14.651	10.99	122.9	0.0	522.1
136.26	RT3	1.00	1.35	10.189	11.21	195.92	0.750	0.000	1.26	3.622	2.72	30.4	0.0	129.1
140.00		1.00	1.36	10.247	11.27	191.90	0.750	0.000	3.74	10.583	7.94	89.5	0.0	377.1
145.00	Appurtenance(s)	1.00	1.37	10.323	11.36	186.47	0.750	0.000	5.00	13.759	10.32	117.2	0.0	490.1
150.00		1.00	1.38	10.397	11.44	180.97	0.750	0.000	5.00	13.313	9.98	114.2	0.0	474.1
155.00	Appurtenance(s)	1.00	1.39	10.469	11.52	175.40	0.750	0.000	5.00	12.867	9.65	111.1	0.0	458.0
160.00		1.00	1.40	10.540	11.59	169.78	0.751 *	0.000	5.00	12.421	9.33	108.2	0.0	442.0
161.50	Appurtenance(s)	1.00	1.40	10.560	11.62	168.08	0.757 *	0.000	1.50	3.639	2.75	32.0	0.0	129.5



## Wind Loading - Shaft

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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165.00	1.00	1.41	10.608	11.67	164.10	0.761 *	0.000	3.50	8.335	6.34	74.0	0.0	296.5
165.25 Bot - Section 5	1.00	1.41	10.612	11.67	163.82	0.765 *	0.000	0.25	0.587	0.45	5.2	0.0	20.9
169.58 Top - Section 4	1.00	1.41	10.669	11.74	158.85	0.769 *	0.000	4.33	10.136	7.79	91.5	0.0	596.7
170.00	1.00	1.42	10.675	11.74	160.60	0.770 *	0.000	0.42	0.957	0.74	8.7	0.0	22.8
175.00 Appurtenance(s)	1.00	1.42	10.740	11.81	154.83	0.775 *	0.000	5.00	11.242	8.71	103.0	0.0	267.4
180.00	1.00	1.43	10.804	11.88	149.00	0.750	0.000	5.00	10.796	8.10	96.2	0.0	256.7
185.00 Appurtenance(s)	1.00	1.44	10.867	11.95	143.13	0.750	0.000	5.00	10.350	7.76	92.8	0.0	246.0
187.00 Appurtenance(s)	1.00	1.44	10.891	11.98	140.76	0.750	0.000	2.00	4.015	3.01	36.1	0.0	95.4
190.00	1.00	1.45	10.928	12.02	137.21	0.750	0.000	3.00	5.889	4.42	53.1	0.0	139.9
191.50 Appurtenance(s)	1.00	1.45	10.946	12.04	135.42	0.750	0.000	1.50	2.884	2.16	26.0	0.0	68.5
195.00	1.00	1.46	10.988	12.09	131.24	0.750	0.000	3.50	6.573	4.93	59.6	0.0	156.1
196.00 Appurtenance(s)	1.00	1.46	11.000	12.10	130.04	0.750	0.000	1.00	1.838	1.38	16.7	0.0	43.6
								<b>Totals:</b>	<b>196.00</b>		<b>4,987.4</b>		<b>43,630.8</b>

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

7/7/2023

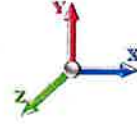


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	196.00	6' Lightning rod	1	11.000	12.100	1.00	1.00	0.38	6.50	0.000	0.000	4.60	0.00	0.00	
2	191.50	1900MHz - RRU	3	10.946	12.041	0.54	0.80	6.11	132.00	0.000	0.000	73.57	0.00	0.00	
3	191.50	APXVTM14-C-120	3	10.946	12.041	0.68	0.80	12.93	168.00	0.000	0.000	155.73	0.00	0.00	
4	191.50	APXVSPP18-C-A20	3	10.946	12.041	0.66	0.80	15.98	171.00	0.000	0.000	192.36	0.00	0.00	
5	191.50	800MHz - RRU	3	10.946	12.041	0.54	0.80	4.00	159.00	0.000	0.000	48.21	0.00	0.00	
6	191.50	RRH8x20-25 - RRU	3	10.946	12.041	0.54	0.80	6.51	210.00	0.000	0.000	78.41	0.00	0.00	
7	191.50	800MHz Filter	3	10.946	12.041	0.54	0.80	1.25	26.40	0.000	0.000	15.10	0.00	0.00	
8	191.50	ACU-A20-N - RET	4	10.946	12.041	0.60	0.80	0.34	4.00	0.000	0.000	4.05	0.00	0.00	
9	191.50	Low Profile Platform	1	10.946	12.041	1.00	1.00	22.00	1500.00	0.000	0.000	264.89	0.00	0.00	
10	187.00	Pipe mount	1	10.891	11.981	0.56	0.75	1.48	40.00	0.000	0.000	17.72	0.00	0.00	
11	187.00	BA80-41-DIN	1	11.015	12.117	1.00	1.00	9.40	68.00	0.000	10.333	113.90	0.00	1176.96	
12	185.00	JAHH-65C-R3B-V2	6	10.867	11.953	0.62	0.75	47.85	481.20	0.000	0.000	571.92	0.00	0.00	
13	185.00	Kaelus BSF0020F3V1-1	2	10.867	11.953	0.50	0.75	1.14	35.20	0.000	0.000	13.57	0.00	0.00	
14	185.00	MT6407-77A	3	10.867	11.953	0.52	0.75	7.39	238.20	0.000	0.000	88.30	0.00	0.00	
15	185.00	HRK12-HD	1	10.867	11.953	0.75	1.00	9.00	406.61	0.000	0.000	107.58	0.00	0.00	
16	185.00	DB-C1-12C-24AB-OZ	1	10.867	11.953	0.75	0.75	3.04	32.00	0.000	0.000	36.40	0.00	0.00	
17	185.00	RFV01U-D1A	3	10.867	11.953	0.62	0.75	3.51	253.20	0.000	0.000	41.97	0.00	0.00	
18	185.00	CBC23SR-43	3	10.867	11.953	0.52	0.75	0.66	14.70	0.000	0.000	7.91	0.00	0.00	
19	185.00	RFV01U-D2A	3	10.867	11.953	0.58	0.75	3.30	210.90	0.000	0.000	39.44	0.00	0.00	
20	185.00	BXA-70063 6CF_2	3	10.867	11.953	0.61	0.75	13.97	51.00	0.000	0.000	166.95	0.00	0.00	
21	185.00	Low Profile	1	10.867	11.953	1.00	1.00	22.00	1500.00	0.000	0.000	262.98	0.00	0.00	
22	175.00	HRK12 (Handrail Kit)	1	10.740	11.814	1.00	1.00	6.75	261.72	0.000	0.000	79.75	0.00	0.00	
23	175.00	Kathrein 800-10965	6	10.740	11.814	0.53	0.75	44.12	651.60	0.000	0.000	521.29	0.00	0.00	
24	175.00	Low Profile Platform	1	10.740	11.814	1.00	1.00	22.00	1500.00	0.000	0.000	259.92	0.00	0.00	
25	175.00	DC6-48-60-18-8F	1	10.740	11.814	0.80	0.80	0.74	32.80	0.000	0.000	8.70	0.00	0.00	
26	175.00	RRUS-12	3	10.740	11.814	0.54	0.80	4.34	150.00	0.000	0.000	51.29	0.00	0.00	
27	175.00	Powerwave LGP21401	12	10.740	11.814	0.75	0.75	11.61	169.20	0.000	0.000	137.17	0.00	0.00	
28	175.00	Powerwave LGP13519	12	10.740	11.814	0.75	0.75	3.06	63.60	0.000	0.000	36.15	0.00	0.00	
29	175.00	Ericsson RRUS 4478 B14	3	10.740	11.814	0.50	0.75	2.49	178.20	0.000	0.000	29.39	0.00	0.00	
30	175.00	Ericsson RRUS 32 B30	3	10.740	11.814	0.50	0.75	4.13	180.00	0.000	0.000	48.80	0.00	0.00	
31	175.00	Raycap	2	10.740	11.814	1.00	1.00	9.56	32.00	0.000	0.000	112.95	0.00	0.00	
32	175.00	Powerwave 7770	3	10.740	11.814	0.68	0.80	11.22	105.00	0.000	0.000	132.56	0.00	0.00	
33	175.00	Ericsson RRUS 4449	3	10.740	11.814	0.50	0.75	2.97	213.00	0.000	0.000	35.09	0.00	0.00	
34	161.50	Low Profile Platform	1	10.560	11.616	1.00	1.00	22.00	1500.00	0.000	0.000	255.56	0.00	0.00	
35	155.00	RFS	3	10.469	11.516	0.56	0.80	34.00	384.00	0.000	0.000	391.59	0.00	0.00	
36	155.00	Commscope VV-65A-R1	3	10.469	11.516	0.59	0.80	14.03	88.50	0.000	0.000	161.58	0.00	0.00	
37	155.00	Ericsson AIR6419 B41	3	10.469	11.516	0.61	0.80	6.93	198.30	0.000	0.000	79.82	0.00	0.00	
38	155.00	T-Arms w/ Handrail kit &	3	10.469	11.516	0.56	0.75	29.53	1500.00	0.000	0.000	340.09	0.00	0.00	
39	155.00	Ericsson 4449 B71 + B85	3	10.469	11.516	0.54	0.80	3.17	219.60	0.000	0.000	36.48	0.00	0.00	
40	155.00	Ericsson 4460 B25 + B66	3	10.469	11.516	0.54	0.80	4.58	327.00	0.000	0.000	52.78	0.00	0.00	
41	155.00	Ericsson KRY 112 144/1	3	10.469	11.516	0.54	0.80	1.45	45.60	0.000	0.000	16.67	0.00	0.00	
42	145.00	TA08025-B605	3	10.323	11.356	0.50	0.75	2.95	225.00	0.000	0.000	33.55	0.00	0.00	
43	145.00	MC-PK8-DSH	1	10.323	11.356	1.00	1.00	37.59	1727.00	0.000	0.000	426.86	0.00	0.00	
44	145.00	MX08FRO665-21	3	10.323	11.356	0.55	0.75	20.80	193.50	0.000	0.000	236.15	0.00	0.00	
45	145.00	TA08025-B604	3	10.323	11.356	0.50	0.75	2.95	191.70	0.000	0.000	33.55	0.00	0.00	
46	145.00	RDIDC-9181-PF-48	1	10.323	11.356	0.75	0.75	1.51	21.90	0.000	0.000	17.12	0.00	0.00	
47	130.00	ANT150F2	1	10.129	11.142	1.00	1.00	1.23	13.00	0.000	2.500	13.71	0.00	34.26	

## Discrete Appurtenance Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 57
	<b>Struct Class:</b> II	



48	130.00	Standoff	1	10.089	11.098	0.56	0.75	1.48	40.00	0.000	0.000	16.42	0.00	0.00
49	109.50	Standoff	1	9.731	10.704	0.56	0.75	1.48	40.00	0.000	0.000	15.84	0.00	0.00
50	109.50	Standoff	5	9.731	10.704	0.56	0.75	7.40	200.00	0.000	0.000	79.18	0.00	0.00
51	109.50	4' Omni	1	9.768	10.745	1.00	1.00	1.00	10.00	0.000	2.000	10.74	0.00	21.49
52	109.50	14' Omni	5	9.859	10.844	1.00	1.00	21.00	200.00	0.000	7.000	227.73	0.00	1594.14
53	100.00	Standoff	1	9.547	10.501	0.56	0.75	1.48	40.00	0.000	0.000	15.54	0.00	0.00
54	100.00	MPRD	1	9.547	10.501	1.00	1.00	6.10	36.00	0.000	0.000	64.06	0.00	0.00
<b>Totals:</b>											<b>16,446.13</b>	<b>6,283.60</b>		

## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

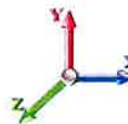


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		133.65	2262.91	0.00	0.00
10.00		131.29	2227.29	0.00	0.00
15.00		128.93	2191.67	0.00	0.00
20.00		134.30	2156.05	0.00	0.00
25.00		138.13	2120.43	0.00	0.00
30.00		140.81	2084.82	0.00	0.00
35.00		142.64	2049.20	0.00	0.00
40.00		143.81	2013.58	0.00	0.00
45.00		144.45	1977.96	0.00	0.00
45.42		11.93	163.22	0.00	0.00
48.90		102.45	2311.42	0.00	0.00
50.00		32.20	723.46	0.00	0.00
52.75		80.76	1795.07	0.00	0.00
55.00		65.96	720.63	0.00	0.00
57.15		62.95	683.21	0.00	0.00
60.00		83.41	897.53	0.00	0.00
65.00		146.30	1552.25	0.00	0.00
70.00		145.34	1523.75	0.00	0.00
75.00		144.16	1495.26	0.00	0.00
80.00		142.78	1466.77	0.00	0.00
84.00		112.97	1152.90	0.00	0.00
85.00		28.46	462.97	0.00	0.00
87.00		56.78	919.96	0.00	0.00
90.00		84.76	1364.98	0.00	0.00
90.42		11.69	188.16	0.00	0.00
95.00		128.29	1026.24	0.00	0.00
100.00	(2) attachments	217.70	1175.06	0.00	0.00
105.00		135.98	1077.49	0.00	0.00
109.50	(12) attachments	453.90	1401.47	0.00	1615.63
110.00		13.21	104.17	0.00	0.00
112.25		59.26	466.12	0.00	0.00
115.00		71.81	563.83	0.00	0.00
120.00		128.90	1008.57	0.00	0.00
123.58		90.70	709.67	0.00	0.00
125.00		35.98	432.93	0.00	0.00
125.60		15.16	182.45	0.00	0.00
129.00		85.41	1023.74	0.00	0.00
130.00	(2) attachments	54.96	211.68	0.00	34.26
135.00		122.92	781.17	0.00	0.00
136.26		30.44	194.33	0.00	0.00
140.00		89.47	570.82	0.00	0.00
145.00	(11) attachments	864.43	3108.22	0.00	0.00
150.00		114.20	723.99	0.00	0.00
155.00	(21) attachments	1190.15	3470.96	0.00	0.00
160.00		108.21	631.33	0.00	0.00
161.50	(1) attachments	287.56	1686.27	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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165.00		74.04	429.03	0.00	0.00
165.25		5.24	30.34	0.00	0.00
169.58		91.46	760.75	0.00	0.00
170.00		8.65	38.54	0.00	0.00
175.00	(50) attachments	1555.99	3993.83	0.00	0.00
180.00		96.23	346.28	0.00	0.00
185.00	(26) attachments	1429.79	3558.60	0.00	0.00
187.00	(2) attachments	167.70	224.56	0.00	1176.96
190.00		53.09	170.08	0.00	0.00
191.50	(23) attachments	858.37	2454.00	0.00	0.00
195.00		59.59	156.13	0.00	0.00
196.00	(1) attachments	21.28	50.15	0.00	0.00
	<b>Totals:</b>	<b>11,270.96</b>	<b>69,268.23</b>	<b>0.00</b>	<b>2,826.85</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.058	0.000	6.412	0.00	16.10
5.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.058	0.000	6.412	0.00	8.05
5.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.058	0.000	6.412	0.00	2.60
10.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	6.412	0.00	16.10
10.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.059	0.000	6.412	0.00	8.05
10.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.059	0.000	6.412	0.00	2.60
15.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.060	0.000	6.412	0.00	16.10
15.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.060	0.000	6.412	0.00	8.05
15.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.060	0.000	6.412	0.00	2.60
20.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.061	0.000	6.803	0.00	16.10
20.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.061	0.000	6.803	0.00	8.05
20.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.061	0.000	6.803	0.00	2.60
25.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	7.130	0.00	16.10
25.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.062	0.000	7.130	0.00	8.05
25.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.062	0.000	7.130	0.00	2.60
30.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.064	0.000	7.409	0.00	16.10
30.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.064	0.000	7.409	0.00	8.05
30.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.064	0.000	7.409	0.00	2.60
35.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.065	0.000	7.654	0.00	16.10
35.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.065	0.000	7.654	0.00	8.05
35.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.065	0.000	7.654	0.00	2.60
40.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.872	0.00	16.10
40.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.066	0.000	7.872	0.00	8.05
40.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.066	0.000	7.872	0.00	2.60
45.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	8.069	0.00	16.10
45.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.068	0.000	8.069	0.00	8.05
45.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.068	0.000	8.069	0.00	2.60
45.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	1.34
45.42	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.068	0.000	8.085	0.00	0.67
45.42	7/8" Coax	Yes	0.42	0.000	0.52	0.02	0.00	0.068	0.000	8.085	0.00	0.22
48.90	2" Conduit	Yes	3.48	0.000	0.00	0.00	0.00	0.069	0.000	8.212	0.00	11.22
48.90	3" Conduit	Yes	3.48	0.000	3.00	0.87	0.00	0.069	0.000	8.212	0.00	5.61
48.90	7/8" Coax	Yes	3.48	0.000	0.52	0.15	0.00	0.069	0.000	8.212	0.00	1.81
50.00	2" Conduit	Yes	1.10	0.000	0.00	0.00	0.00	0.070	0.000	8.250	0.00	3.54
50.00	3" Conduit	Yes	1.10	0.000	3.00	0.28	0.00	0.070	0.000	8.250	0.00	1.77
50.00	7/8" Coax	Yes	1.10	0.000	0.52	0.05	0.00	0.070	0.000	8.250	0.00	0.57
52.75	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.070	0.000	8.344	0.00	8.86
52.75	3" Conduit	Yes	2.75	0.000	3.00	0.69	0.00	0.070	0.000	8.344	0.00	4.43
52.75	7/8" Coax	Yes	2.75	0.000	0.52	0.12	0.00	0.070	0.000	8.344	0.00	1.43
55.00	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.069	0.000	8.418	0.00	7.25
55.00	3" Conduit	Yes	2.25	0.000	3.00	0.56	0.00	0.069	0.000	8.418	0.00	3.62
55.00	7/8" Coax	Yes	2.25	0.000	0.52	0.10	0.00	0.069	0.000	8.418	0.00	1.17
57.15	2" Conduit	Yes	2.15	0.000	0.00	0.00	0.00	0.070	0.000	8.486	0.00	6.92
57.15	3" Conduit	Yes	2.15	0.000	3.00	0.54	0.00	0.070	0.000	8.486	0.00	3.46
57.15	7/8" Coax	Yes	2.15	0.000	0.52	0.09	0.00	0.070	0.000	8.486	0.00	1.12
60.00	2" Conduit	Yes	2.85	0.000	0.00	0.00	0.00	0.071	0.000	8.573	0.00	9.18
60.00	3" Conduit	Yes	2.85	0.000	3.00	0.71	0.00	0.071	0.000	8.573	0.00	4.59

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

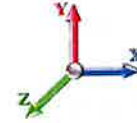
**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	7/8" Coax	Yes	2.85	0.000	0.52	0.12	0.00	0.071	0.000	8.573	0.00	1.48
65.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.719	0.00	16.10
65.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.072	0.000	8.719	0.00	8.05
65.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.072	0.000	8.719	0.00	2.60
70.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	8.856	0.00	16.10
70.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.074	0.000	8.856	0.00	8.05
70.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.074	0.000	8.856	0.00	2.60
75.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	8.986	0.00	16.10
75.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.075	0.000	8.986	0.00	8.05
75.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.075	0.000	8.986	0.00	2.60
80.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	9.109	0.00	16.10
80.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.077	0.000	9.109	0.00	8.05
80.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.077	0.000	9.109	0.00	2.60
84.00	2" Conduit	Yes	4.00	0.000	0.00	0.00	0.00	0.079	0.000	9.203	0.00	12.88
84.00	3" Conduit	Yes	4.00	0.000	3.00	1.00	0.00	0.079	0.000	9.203	0.00	6.44
84.00	7/8" Coax	Yes	4.00	0.000	0.52	0.17	0.00	0.079	0.000	9.203	0.00	2.08
85.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.080	0.000	9.226	0.00	3.22
85.00	3" Conduit	Yes	1.00	0.000	3.00	0.25	0.00	0.080	0.000	9.226	0.00	1.61
85.00	7/8" Coax	Yes	1.00	0.000	0.52	0.04	0.00	0.080	0.000	9.226	0.00	0.52
87.00	2" Conduit	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	9.271	0.00	6.44
87.00	3" Conduit	Yes	2.00	0.000	3.00	0.50	0.00	0.080	0.000	9.271	0.00	3.22
87.00	7/8" Coax	Yes	2.00	0.000	0.52	0.09	0.00	0.080	0.000	9.271	0.00	1.04
90.00	2" Conduit	Yes	3.00	0.000	0.00	0.00	0.00	0.081	0.000	9.337	0.00	9.66
90.00	3" Conduit	Yes	3.00	0.000	3.00	0.75	0.00	0.081	0.000	9.337	0.00	4.83
90.00	7/8" Coax	Yes	3.00	0.000	0.52	0.13	0.00	0.081	0.000	9.337	0.00	1.56
90.42	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.082	0.000	9.346	0.00	1.34
90.42	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.082	0.000	9.346	0.00	0.67
90.42	7/8" Coax	Yes	0.42	0.000	0.52	0.02	0.00	0.082	0.000	9.346	0.00	0.22
95.00	2" Conduit	Yes	4.58	0.000	0.00	0.00	0.00	0.082	0.000	9.444	0.00	14.76
95.00	3" Conduit	Yes	4.58	0.000	3.00	1.15	0.00	0.082	0.000	9.444	0.00	7.38
95.00	7/8" Coax	Yes	4.58	0.000	0.52	0.20	0.00	0.082	0.000	9.444	0.00	2.38
100.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	9.547	0.00	16.10
100.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.084	0.000	9.547	0.00	8.05
100.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.084	0.000	9.547	0.00	2.60
105.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	9.645	0.00	16.10
105.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.086	0.000	9.645	0.00	8.05
105.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.086	0.000	9.645	0.00	2.60
109.50	2" Conduit	Yes	4.50	0.000	0.00	0.00	0.00	0.088	0.000	9.731	0.00	14.49
109.50	3" Conduit	Yes	4.50	0.000	3.00	1.13	0.00	0.088	0.000	9.731	0.00	7.25
109.50	7/8" Coax	Yes	4.50	0.000	0.52	0.20	0.00	0.088	0.000	9.731	0.00	2.34
110.00	2" Conduit	Yes	0.50	0.000	0.00	0.00	0.00	0.089	0.000	9.740	0.00	1.61
110.00	3" Conduit	Yes	0.50	0.000	3.00	0.13	0.00	0.089	0.000	9.740	0.00	0.81
110.00	7/8" Coax	Yes	0.50	0.000	0.52	0.02	0.00	0.089	0.000	9.740	0.00	0.26
112.25	2" Conduit	Yes	2.25	0.000	0.00	0.00	0.00	0.090	0.000	9.782	0.00	7.25
112.25	3" Conduit	Yes	2.25	0.000	3.00	0.56	0.00	0.090	0.000	9.782	0.00	3.62
112.25	7/8" Coax	Yes	2.25	0.000	0.52	0.10	0.00	0.090	0.000	9.782	0.00	1.17
115.00	2" Conduit	Yes	2.75	0.000	0.00	0.00	0.00	0.091	0.000	9.832	0.00	8.86

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

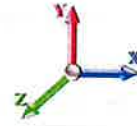
**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
115.00	3" Conduit	Yes	2.75	0.000	3.00	0.69	0.00	0.091	0.000	9.832	0.00	4.43
115.00	7/8" Coax	Yes	2.75	0.000	0.52	0.12	0.00	0.091	0.000	9.832	0.00	1.43
120.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	9.920	0.00	16.10
120.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.093	0.000	9.920	0.00	8.05
120.00	7/8" Coax	Yes	5.00	0.000	0.52	0.22	0.00	0.093	0.000	9.920	0.00	2.60
123.58	2" Conduit	Yes	3.58	0.000	0.00	0.00	0.00	0.095	0.000	9.982	0.00	11.54
123.58	3" Conduit	Yes	3.58	0.000	3.00	0.90	0.00	0.095	0.000	9.982	0.00	5.77
123.58	7/8" Coax	Yes	3.58	0.000	0.52	0.16	0.00	0.095	0.000	9.982	0.00	1.86
125.00	2" Conduit	Yes	1.42	0.000	0.00	0.00	0.00	0.097	0.000	10.006	0.00	4.56
125.00	3" Conduit	Yes	1.42	0.000	3.00	0.35	0.00	0.097	0.000	10.006	0.00	2.28
125.00	7/8" Coax	Yes	1.42	0.000	0.52	0.06	0.00	0.097	0.000	10.006	0.00	0.74
125.60	2" Conduit	Yes	0.60	0.000	0.00	0.00	0.00	0.097	0.000	10.016	0.00	1.93
125.60	3" Conduit	Yes	0.60	0.000	3.00	0.15	0.00	0.097	0.000	10.016	0.00	0.97
125.60	7/8" Coax	Yes	0.60	0.000	0.52	0.03	0.00	0.097	0.000	10.016	0.00	0.31
129.00	2" Conduit	Yes	3.40	0.000	0.00	0.00	0.00	0.099	0.000	10.072	0.00	10.95
129.00	3" Conduit	Yes	3.40	0.000	3.00	0.85	0.00	0.099	0.000	10.072	0.00	5.47
129.00	7/8" Coax	Yes	3.40	0.000	0.52	0.15	0.00	0.099	0.000	10.072	0.00	1.77
130.00	2" Conduit	Yes	1.00	0.000	0.00	0.00	0.00	0.098	0.000	10.089	0.00	3.22
130.00	3" Conduit	Yes	1.00	0.000	3.00	0.25	0.00	0.098	0.000	10.089	0.00	1.61
130.00	7/8" Coax	Yes	1.00	0.000	0.52	0.04	0.00	0.098	0.000	10.089	0.00	0.52
135.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.085	0.000	10.169	0.00	16.10
135.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.085	0.000	10.169	0.00	8.05
136.26	2" Conduit	Yes	1.26	0.000	0.00	0.00	0.00	0.087	0.000	10.189	0.00	4.06
136.26	3" Conduit	Yes	1.26	0.000	3.00	0.31	0.00	0.087	0.000	10.189	0.00	2.03
140.00	2" Conduit	Yes	3.74	0.000	0.00	0.00	0.00	0.088	0.000	10.247	0.00	12.04
140.00	3" Conduit	Yes	3.74	0.000	3.00	0.94	0.00	0.088	0.000	10.247	0.00	6.02
145.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	10.323	0.00	16.10
145.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.091	0.000	10.323	0.00	8.05
150.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	10.397	0.00	16.10
150.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.094	0.000	10.397	0.00	8.05
155.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	10.469	0.00	16.10
155.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.097	0.000	10.469	0.00	8.05
160.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.002	10.540	0.00	16.10
160.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.101	1.002	10.540	0.00	8.05
161.50	2" Conduit	Yes	1.50	0.000	0.00	0.00	0.00	0.103	1.009	10.560	0.00	4.83
161.50	3" Conduit	Yes	1.50	0.000	3.00	0.38	0.00	0.103	1.009	10.560	0.00	2.42
165.00	2" Conduit	Yes	3.50	0.000	0.00	0.00	0.00	0.105	1.015	10.608	0.00	11.27
165.00	3" Conduit	Yes	3.50	0.000	3.00	0.88	0.00	0.105	1.015	10.608	0.00	5.64
165.25	2" Conduit	Yes	0.25	0.000	0.00	0.00	0.00	0.106	1.019	10.612	0.00	0.81
165.25	3" Conduit	Yes	0.25	0.000	3.00	0.06	0.00	0.106	1.019	10.612	0.00	0.40
169.58	2" Conduit	Yes	4.33	0.000	0.00	0.00	0.00	0.108	1.025	10.669	0.00	13.95
169.58	3" Conduit	Yes	4.33	0.000	3.00	1.08	0.00	0.108	1.025	10.669	0.00	6.98
170.00	2" Conduit	Yes	0.42	0.000	0.00	0.00	0.00	0.109	1.027	10.675	0.00	1.34
170.00	3" Conduit	Yes	0.42	0.000	3.00	0.10	0.00	0.109	1.027	10.675	0.00	0.67
175.00	2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.034	10.740	0.00	16.10
175.00	3" Conduit	Yes	5.00	0.000	3.00	1.25	0.00	0.111	1.034	10.740	0.00	8.05



## Linear Appurtenance Segment Forces (Factored)

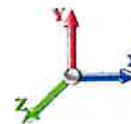
<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
<b>Totals:</b>											<b>0.0</b>	<b>912.9</b>

### Calculated Forces

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

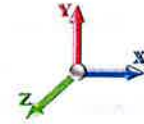
**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-69.26	-11.30	0.00	-1592.8	0.00	1592.80	8794.96	2077.55	10247.3	10671.5	0.00	0.000	0.000	0.157
5.00	-66.99	-11.21	0.00	-1536.3	0.00	1536.33	8639.43	2040.81	9888.09	10295.5	0.02	-0.042	0.000	0.157
10.00	-64.76	-11.13	0.00	-1480.2	0.00	1480.28	8483.89	2004.07	9535.27	9926.22	0.09	-0.085	0.000	0.157
15.00	-62.56	-11.04	0.00	-1424.6	0.00	1424.65	8328.36	1967.33	9188.85	9563.67	0.20	-0.129	0.000	0.157
20.00	-60.39	-10.95	0.00	-1369.4	0.00	1369.45	8172.83	1930.59	8848.85	9207.87	0.36	-0.173	0.000	0.156
25.00	-58.26	-10.85	0.00	-1314.7	0.00	1314.71	8017.29	1893.85	8515.26	8858.82	0.57	-0.218	0.000	0.156
30.00	-56.17	-10.74	0.00	-1260.4	0.00	1260.46	7861.76	1857.11	8188.07	8516.51	0.82	-0.264	0.000	0.155
35.00	-54.11	-10.64	0.00	-1206.7	0.00	1206.74	7706.22	1820.37	7867.30	8180.95	1.12	-0.311	0.000	0.155
40.00	-52.09	-10.52	0.00	-1153.5	0.00	1153.56	7550.69	1783.63	7552.93	7852.13	1.47	-0.358	0.000	0.154
45.00	-50.11	-10.39	0.00	-1100.9	0.00	1100.94	7395.16	1746.89	7244.98	7530.06	1.87	-0.406	0.000	0.153
45.42	-49.94	-10.39	0.00	-1096.6	0.00	1096.61	7382.20	1743.83	7219.61	7503.52	1.91	-0.410	0.000	0.153
48.90	-47.63	-10.29	0.00	-1060.4	0.00	1060.41	7273.84	1718.23	7009.22	7283.52	2.22	-0.445	0.000	0.102
50.00	-46.91	-10.26	0.00	-1049.0	0.00	1049.09	7239.62	1710.15	6943.43	7214.73	2.32	-0.452	0.000	0.101
52.75	-45.11	-10.18	0.00	-1020.8	0.00	1020.87	5810.43	1383.44	5679.89	5870.80	2.59	-0.470	0.000	0.103
55.00	-44.38	-10.12	0.00	-997.96	0.00	997.96	5769.82	1370.22	5571.80	5773.48	2.82	-0.485	0.000	0.113
57.15	-43.70	-10.07	0.00	-976.21	0.00	976.21	5730.75	1357.58	5469.49	5680.95	3.04	-0.501	0.000	0.112
57.15	-43.70	-10.07	0.00	-976.21	0.00	976.21	5730.75	1357.58	5469.49	5680.95	3.04	-0.501	0.000	0.176
60.00	-42.80	-10.01	0.00	-947.52	0.00	947.52	5678.55	1340.82	5335.33	5559.03	3.34	-0.522	0.000	0.178
65.00	-41.23	-9.89	0.00	-897.49	0.00	897.49	5551.73	1311.43	5103.98	5314.51	3.92	-0.582	0.000	0.176
70.00	-39.70	-9.77	0.00	-848.06	0.00	848.06	5427.30	1282.04	4877.76	5077.73	4.56	-0.642	0.000	0.174
75.00	-38.20	-9.65	0.00	-799.23	0.00	799.23	5302.88	1252.65	4656.67	4846.34	5.27	-0.702	0.000	0.172
80.00	-36.72	-9.52	0.00	-751.00	0.00	751.00	5178.45	1223.26	4440.70	4620.35	6.04	-0.763	0.000	0.170
84.00	-35.57	-9.41	0.00	-712.92	0.00	712.92	5078.91	1199.74	4271.62	4443.45	6.70	-0.813	0.000	0.168
85.00	-35.10	-9.39	0.00	-703.51	0.00	703.51	5054.02	1193.86	4229.87	4399.76	6.87	-0.825	0.000	0.167
87.00	-34.18	-9.33	0.00	-684.74	0.00	684.74	5004.25	1182.11	4146.97	4313.04	7.22	-0.851	0.000	0.100
90.00	-32.81	-9.23	0.00	-656.75	0.00	656.75	4929.59	1164.47	4024.16	4184.57	7.76	-0.874	0.000	0.098
90.42	-32.62	-9.23	0.00	-652.90	0.00	652.90	3591.78	889.89	3133.47	3116.43	7.84	-0.877	0.000	0.105
95.00	-31.59	-9.11	0.00	-610.60	0.00	610.60	3535.98	869.68	2992.78	2997.74	8.70	-0.911	0.000	0.115
100.00	-30.41	-8.89	0.00	-565.08	0.00	565.08	3473.75	847.63	2842.98	2869.66	9.67	-0.953	0.000	0.110
105.00	-29.33	-8.76	0.00	-520.62	0.00	520.62	3410.09	825.59	2697.03	2743.13	10.69	-0.994	0.000	0.104
109.50	-27.94	-8.29	0.00	-479.60	0.00	479.60	3351.58	805.75	2568.96	2630.66	11.65	-1.031	0.000	0.099
110.00	-27.83	-8.28	0.00	-475.46	0.00	475.46	3345.00	803.55	2554.93	2618.25	11.76	-1.035	0.000	0.098
112.25	-27.36	-8.22	0.00	-456.83	0.00	456.83	3315.25	793.63	2492.23	2562.62	12.25	-1.053	0.000	0.096
112.25	-27.36	-8.22	0.00	-456.83	0.00	456.83	3315.25	793.63	2492.23	2562.62	12.25	-1.053	0.000	0.181
115.00	-26.79	-8.16	0.00	-434.23	0.00	434.23	3278.49	781.50	2416.67	2495.11	12.86	-1.075	0.000	0.182
120.00	-25.78	-8.04	0.00	-393.42	0.00	393.42	3210.56	759.46	2282.25	2373.80	14.03	-1.150	0.000	0.174
123.58	-25.07	-7.95	0.00	-364.61	0.00	364.61	3148.16	743.66	2188.29	2278.75	14.91	-1.204	0.000	0.168
125.00	-24.63	-7.91	0.00	-353.34	0.00	353.34	3121.72	737.41	2151.69	2240.43	15.27	-1.226	0.000	0.166
125.60	-24.45	-7.90	0.00	-348.59	0.00	348.59	3110.52	734.77	2136.28	2224.30	15.43	-1.235	0.000	0.093
129.00	-23.42	-7.80	0.00	-321.72	0.00	321.72	2149.47	550.17	1596.92	1538.58	16.32	-1.263	0.000	0.098
130.00	-23.21	-7.75	0.00	-313.89	0.00	313.89	2141.27	546.86	1577.79	1523.43	16.58	-1.272	0.000	0.109
135.00	-22.43	-7.62	0.00	-275.12	0.00	275.12	2099.38	530.33	1483.83	1448.11	17.94	-1.316	0.000	0.099
136.26	-22.23	-7.60	0.00	-265.51	0.00	265.51	2088.60	526.16	1460.60	1429.26	18.29	-1.327	0.000	0.096
136.26	-22.23	-7.60	0.00	-265.51	0.00	265.51	2088.60	526.16	1460.60	1429.26	18.29	-1.327	0.000	0.189
140.00	-21.66	-7.52	0.00	-237.10	0.00	237.10	2056.07	513.79	1392.75	1373.65	19.34	-1.357	0.000	0.183
145.00	-18.56	-6.60	0.00	-199.52	0.00	199.52	2011.34	497.26	1304.56	1300.16	20.80	-1.436	0.000	0.163
150.00	-17.83	-6.49	0.00	-166.52	0.00	166.52	1965.18	480.73	1219.25	1227.71	22.35	-1.509	0.000	0.145
155.00	-14.39	-5.22	0.00	-134.07	0.00	134.07	1917.59	464.19	1136.83	1156.40	23.97	-1.575	0.000	0.124

## Calculated Forces

<b>Structure:</b> CT46138-A-SBA	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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160.00	-13.76	-5.10	0.00	-107.96	0.00	107.96	1868.58	447.66	1057.29	1086.34	25.65	-1.635	0.000	0.107
161.50	-12.08	-4.77	0.00	-100.31	0.00	100.31	1853.60	442.70	1033.99	1065.57	26.16	-1.652	0.000	0.101
165.00	-11.65	-4.69	0.00	-83.59	0.00	83.59	1818.15	431.13	980.64	1017.59	27.39	-1.688	0.000	0.089
165.25	-11.62	-4.69	0.00	-82.42	0.00	82.42	1815.59	430.30	976.88	1014.19	27.48	-1.691	0.000	0.088
169.58	-10.86	-4.58	0.00	-62.10	0.00	62.10	1040.26	282.24	630.39	573.59	29.03	-1.729	0.000	0.119
170.00	-10.82	-4.58	0.00	-60.19	0.00	60.19	1038.39	281.32	626.30	570.68	29.18	-1.733	0.000	0.116
175.00	-6.87	-2.90	0.00	-37.31	0.00	37.31	1015.17	270.30	578.18	535.91	31.02	-1.780	0.000	0.077
180.00	-6.53	-2.80	0.00	-22.80	0.00	22.80	990.53	259.27	531.99	501.43	32.91	-1.813	0.000	0.052
185.00	-3.02	-1.26	0.00	-8.80	0.00	8.80	964.47	248.25	487.72	467.32	34.82	-1.833	0.000	0.022
187.00	-2.80	-1.08	0.00	-5.11	0.00	5.11	953.65	243.84	470.55	453.81	35.59	-1.837	0.000	0.014
190.00	-2.63	-1.02	0.00	-1.86	0.00	1.86	936.98	237.23	445.37	433.69	36.74	-1.841	0.000	0.007
191.50	-0.20	-0.09	0.00	-0.33	0.00	0.33	928.46	233.92	433.04	423.70	37.32	-1.841	0.000	0.001
195.00	-0.05	-0.02	0.00	-0.02	0.00	0.02	908.07	226.21	404.95	400.62	38.67	-1.841	0.000	0.000
196.00	0.00	-0.02	0.00	0.00	0.00	0.00	902.11	224.00	397.09	394.08	39.06	-1.841	0.000	0.000

## Base Plate Summary

<b>Structure:</b> CT46138-A-SB	<b>Code:</b> TIA-222-H	7/7/2023
<b>Site Name:</b> Torrington-Oandg Ind Inc	<b>Exposure:</b> C	
<b>Height:</b> 196.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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Reactions	Base Plate	Anchor Bolts
Original Design	<b>Yield (ksi):</b> 45.00	<b>Bolt Circle:</b> 67.68
<b>Moment (kip-ft):</b> 5499.00	<b>Width (in):</b> 73.67	<b>Number Bolts:</b> 28.00
<b>Axial (kip):</b> 55.74	<b>Style:</b> Polygon	<b>Bolt Type:</b> 2.25" 18J
<b>Shear (kip):</b> 40.77	<b>Polygon Sides:</b> 16.00	<b>Bolt Diameter (in):</b> 2.25
Analysis (1.2D + 1.0W)	<b>Clip Length (in):</b> 0.00	<b>Yield (ksi):</b> 75.00
<b>Moment (kip-ft):</b> 6590.58	<b>Effective Len (in):</b> 10.91	<b>Ultimate (ksi):</b> 100.00
<b>Axial (kip):</b> 83.05	<b>Moment (kip-in):</b> 652.42	<b>Arrangement:</b> Radial
<b>Shear (kip):</b> 46.41	<b>Allow Stress (ksi):</b> 60.75	<b>Cluster Dist (in):</b> 0.00
	<b>Applied Stress (ksi):</b> 40.09	<b>Start Angle (deg):</b> 0.00
	<b>Stress Ratio:</b> 0.66	<b>Compression</b>
		<b>Force (kip):</b> 169.90
		<b>Allowable (kip):</b> 268.39
		<b>Ratio:</b> 0.63
		<b>Tension</b>
		<b>Force (kip):</b> 163.97
		<b>Allowable (kip):</b> 243.75
		<b>Ratio:</b> 0.67

## Final Analysis Summary

**Structure:** CT46138-A-SBA  
**Site Name:** Torrington-Oandg Ind Inc  
**Height:** 196.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

7/7/2023

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### Reactions

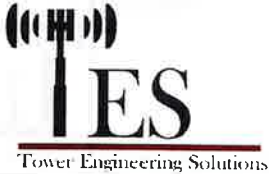
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 115 mph Wind	46.4	0.00	83.05	0.00	0.00	6590.58
0.9D + 1.0W 115 mph Wind	46.4	0.00	62.27	0.00	0.00	6496.13
1.2D + 1.0Di + 1.0Wi 50 mph Wind	13.3	0.00	108.59	0.00	0.00	1893.28
1.2D + 1.0Ev + 1.0Eh	0.9	0.00	85.78	0.00	0.00	152.50
0.9D + 1.0Ev + 1.0Eh	0.9	0.00	64.89	0.00	0.00	150.97
1.0D + 1.0W 60 mph Wind	11.3	0.00	69.26	0.00	0.00	1592.80

### Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 115 mph Wind	-23.94	-31.52	0.00	-1100.8	0.00	-1100.8	2088.60	526.16	1460.60	1429.26	136.26	0.769
0.9D + 1.0W 115 mph Wind	-17.31	-30.84	0.00	-1075.3	0.00	-1075.3	2088.60	526.16	1460.60	1429.26	136.26	0.750
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-41.40	-8.92	0.00	-313.03	0.00	-313.03	2088.60	526.16	1460.60	1429.26	136.26	0.226
1.2D + 1.0Ev + 1.0Eh	-27.03	-0.84	0.00	-26.85	0.00	-26.85	2056.07	513.79	1392.75	1373.65	140.00	0.033
0.9D + 1.0Ev + 1.0Eh	-20.46	-0.83	0.00	-26.73	0.00	-26.73	2056.07	513.79	1392.75	1373.65	140.00	0.029
1.0D + 1.0W 60 mph Wind	-22.23	-7.60	0.00	-265.51	0.00	-265.51	2088.60	526.16	1460.60	1429.26	136.26	0.189

### Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
48.9	57.1	(4) PLT-7.25x1.5(31mm Hole)	309.5	0.00	37.1	334.7	27.8	13	14	360.9	33.4	11	13	363.42	489.4	436.34	0.833
87.0	112.3	(4) PLT-6.5x1.5(31mm Hole)	416.0	0.00	37.1	297.6	33.4	9	12	276.4	33.4	9	11	321.47	438.8	381.49	0.843
125.6	136.3	(4) PLT-4.75x1.5(31mm Hole)	455.8	10.94	37.1	201.2	33.4	7	8	191.0	33.4	6	7	213.24	303.1	253.52	0.841

	<b>Monopole Mat Foundation Design</b>		Date	
			7/07/2023	
	Customer Name:		TIA Standard:	TIA-222-H
	Site Name:		Structure Height (Ft.):	196
Site Number:	CT46138-A-SBA	Engineer Name:	S. Hesselbeir	
Engr. Number:	141611	Engineer Login ID:		

**Foundation Info Obtained from:**

**Structure Type:**

Drawings/Calculations

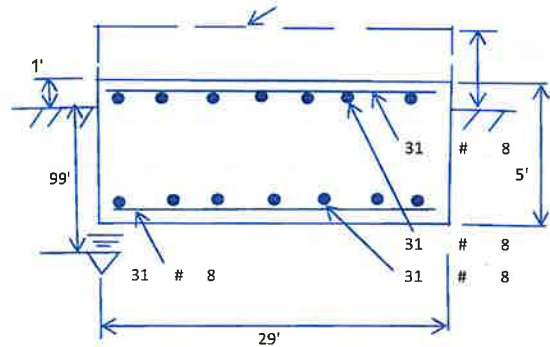
Monopole

**Analysis or Design?**

Analysis

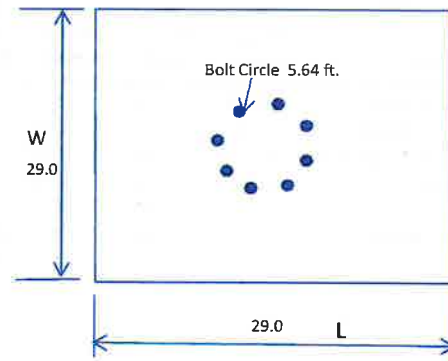
**Base Reactions (Factored):**

Axial Load (Kips):	83.0	Shear Force (Kips):	46.4
Uplift Force (Kips):	0.0	Moment (Kips-ft):	6590.6



**Foundation Geometries:**

Anchor Bolt Circle (ft.):	5.64	Depth of Base BG (ft.):	4.00
Thickness of Pad (ft):	5.00	Width of Pad (ft.):	29
Length of Pad (ft.):	29	Final width of pad (ft):	29.0
Final Length of pad (ft)	29.0	Final width of pad (ft):	29.0



**Material Properties and Rebar Info:**

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Pad Rebar Yield (Ksi):	60	Tie Spacing (in):	12.0	
Pad Steel Rebar Size (#):	8	Unit Weight of Concrete:	150.0	pcf
Concrete Cover (in.):	3			
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	31	Qty. of Rebar in Pad (W):	31	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	31	Qty. of Rebar in Pad (W):	31	

**Soil Design Parameters:**

Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	12000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	Yes	Reduction factor on the maximum soil bearing pressure:	1.00			

**Foundation Analysis and Design:**

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	0.00	Total Dry Soil Weight (Kips):	0.00
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	0.00	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	4205.00	Total Dry Concrete Weight (Kips):	630.75
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	630.75	Total Vertical Load on Base (Kips):	713.75

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	3491	<	Allowable Factored Soil Bearing (psf):	9000	0.39	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	9434.8	>	Design Factored Momont (kips-ft):	6701	0.71	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.41					OK!

Load/  
Capacity  
Ratio

**Check the capacities of Reinforcing Concrete:**

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

**Concrete Pad:**

One-Way Design Shear Capacity (L-Direction, Kips):	1615.4	>	One-Way Factored Shear (L-D. Kips):	403.3	0.25	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1615.4	>	One-Way Factored Shear (W-D., Kips)	403.3	0.25	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	1942.5	>	One-Way Factored Shear (C-C, Kips):	807.8	0.42	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0012	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0012		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	6135.3	>	Moment at Bottom ( L-Direct. K-Ft):	1355.3	0.22	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	6135.3	>	Moment at Bottom ( W-Direct. K-Ft):	1355.3	0.22	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	8654.0	>	Moment at Bottom ( C-C Dir. K-Ft):	1916.7	0.22	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0012	OK!	Upper Steel Reinf. Ratio (W-Direct. ):	0.0012		
Upper Steel Pad Moment Capacity (L-Direction. Kips-ft):	6135.3	>	Moment at the top (L-Dir Kips-Ft):	551.2	0.09	OK!
Upper Steel Pad Moment Capacity (W-Direction. Kips-ft):	6135.3	>	Moment at the top (W-Dir Kips-Ft):	551.2	0.09	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	8654.0	>	Moment at the top (C-C Direc. K-Ft):	941.5	0.11	OK!



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## Antenna Mount Analysis Report and PMI Requirements

### Mount ReAnalysis

SMART Tool Project #: 10206283  
Colliers Engineering & Design CT, P.C. Project #: 23777048

July 10, 2023

#### Site Information

Site ID: 5000244643-VZW / TORRINGTON N CT  
Site Name: TORRINGTON N CT  
Carrier Name: Verizon Wireless  
Address: 404 Burr Mountain Road  
Torrington, Connecticut 06790  
Litchfield County  
Latitude: 41.873256°  
Longitude: -73.088406°

#### Structure Information

Tower Type: 196-Ft Monopole  
Mount Type: 12.50-Ft Platform

FUZE ID # 17123727

#### Analysis Results

Platform: 47.2% Pass\*

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

#### \*\*\*Contractor PMI Requirements:

Included at the end of this MA report  
Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Gianna Argentina





### Executive Summary:

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

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

### Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 324978, dated May 26, 2021
Passing PMI Report	Maser Consulting Connecticut, Project #: 21777082A dated February 4, 2022
Filter Add Scope	Provided by Verizon Wireless

### Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H Connecticut State Building Code, Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 115 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.963
Seismic Parameters:	$S_s$ : 0.171 g $S_1$ : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, $L_v$ : 250 lbs. Maintenance Load, $L_m$ : 500 lbs.
Analysis Software:	RISA-3D (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
183.00	185.00	2	KAelus	BSF0020F3V1-1	Added
		6	Commscope	JAHH-65C-R3B-V2	Retained
		3	Commscope	CBC78T-DS-43-2X	
		1	Raycap	RRFDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Amphenol Antel	BXA-70063-6CF	
	184.75	3	Samsung	MT6407-77A	

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:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                    F1554 (Gr. 36)
  - o Bolts    ASTM A325

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

**Analysis Results:**

<b>Component</b>	<b>Utilization %</b>	<b>Pass/Fail</b>
Standoff Arm	32.8 %	Pass
Platform Cross Arm	18.8 %	Pass
Corner Plate	12.8 %	Pass
Grating Support	12.4 %	Pass
Cross Arm Plate	39.3 %	Pass
Face Horizontal	11.3 %	Pass
Mount Pipe	31.1 %	Pass
Dual Mount Pipe	27.9 %	Pass
OVP Pipe	7.9 %	Pass
Support Pipe	15.3 %	Pass
PV PLK1	27.0 %	Pass
Mount Connection	47.2 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>47.2%</b>
---	--------------

**BASELINE mount weight per SBA agreement: 2127.65 lbs**

**Increase in mount weight due to Verizon loading change per SBA agreement: No Change**

**The weights listed above include 3 sectors.**

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	25.0	25.0	39.8	39.8
0.5	32.4	32.3	53.0	53.0
1	39.2	39.2	65.7	65.7

**Notes:**

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

**Requirements:**

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

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

**Attachments:**

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

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

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

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

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

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

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MDG #: 5000244643

SMART Project #: 10206283

Fuze Project ID: 17123727

**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:**

**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

**Certifying Individual:**

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

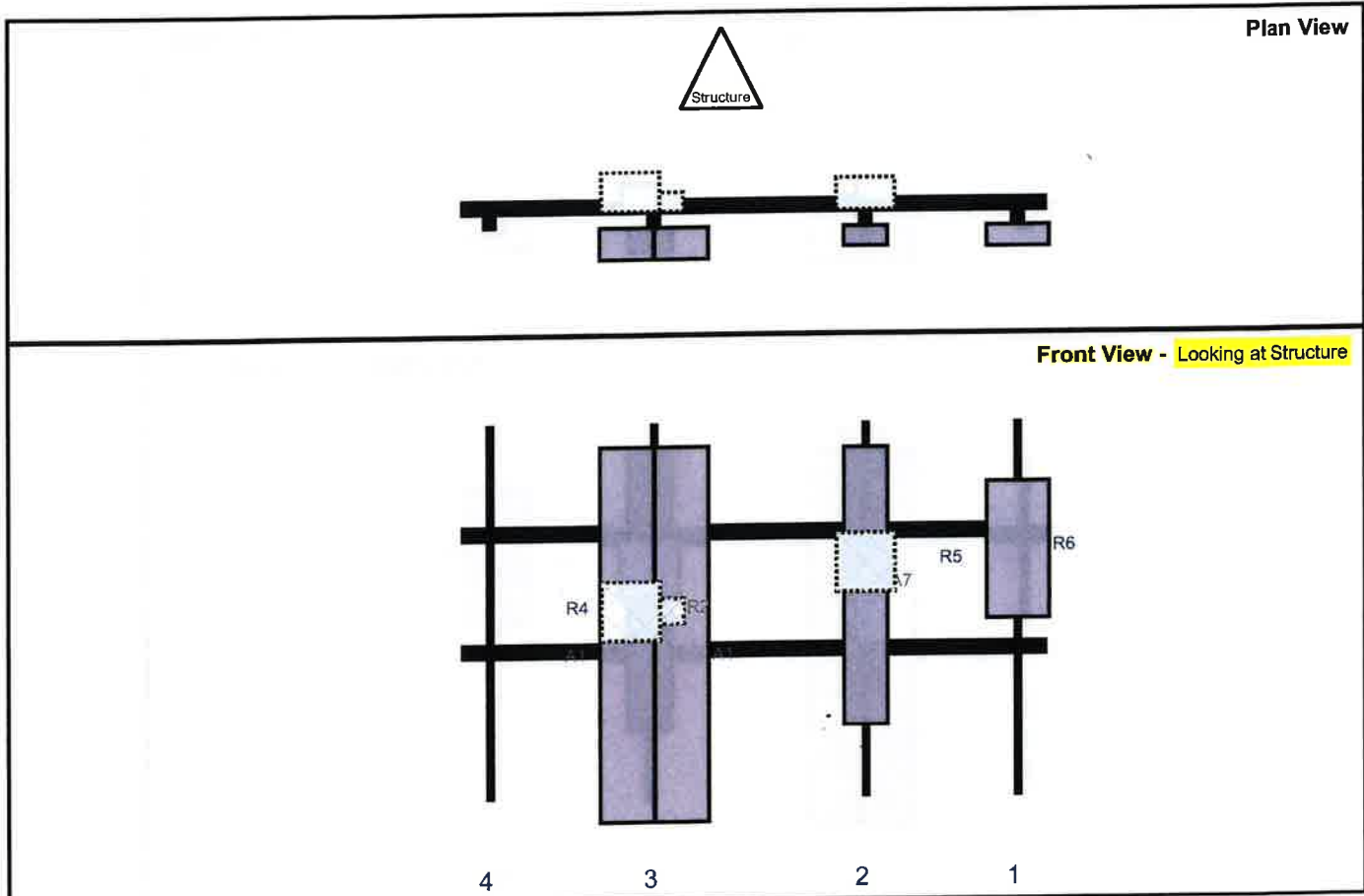
Sector: A  
 Structure Type: Monopole  
 Mount Elev: 183.00

10206283

7/10/2023



Page: 1



Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Fm T.	Ant H Off	Status	Validation
R6	MT6407-77A	35.1	16.1	142.5	1	a	Front	33	0	Retained	01/27/2022
A7	BXA-70063-6CF	71	11.2	103.5	2	a	Front	42	0	Retained	01/27/2022
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	103.5	2	a	Behind	36	0	Retained	01/27/2022
A1	JAHH-65C-R3B-V2	95.7	13.8	49.5	3	a	Front	54	7	Retained	01/27/2022
A1	JAHH-65C-R3B-V2	95.7	13.8	49.5	3	b	Front	54	-7	Retained	01/27/2022
R2	CBC78T-DS-43	6.4	6.9	49.5	3	a	Behind	48	4	Retained	01/27/2022
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	49.5	3	a	Behind	48	-6	Retained	01/27/2022
OVP PIPE	RFDC-6627-PF-48	29.5	16.5			Member				Retained	01/27/2022



Structure: 500244643-VZW - TORRINGTON N CT

Sector: B

7/10/2023

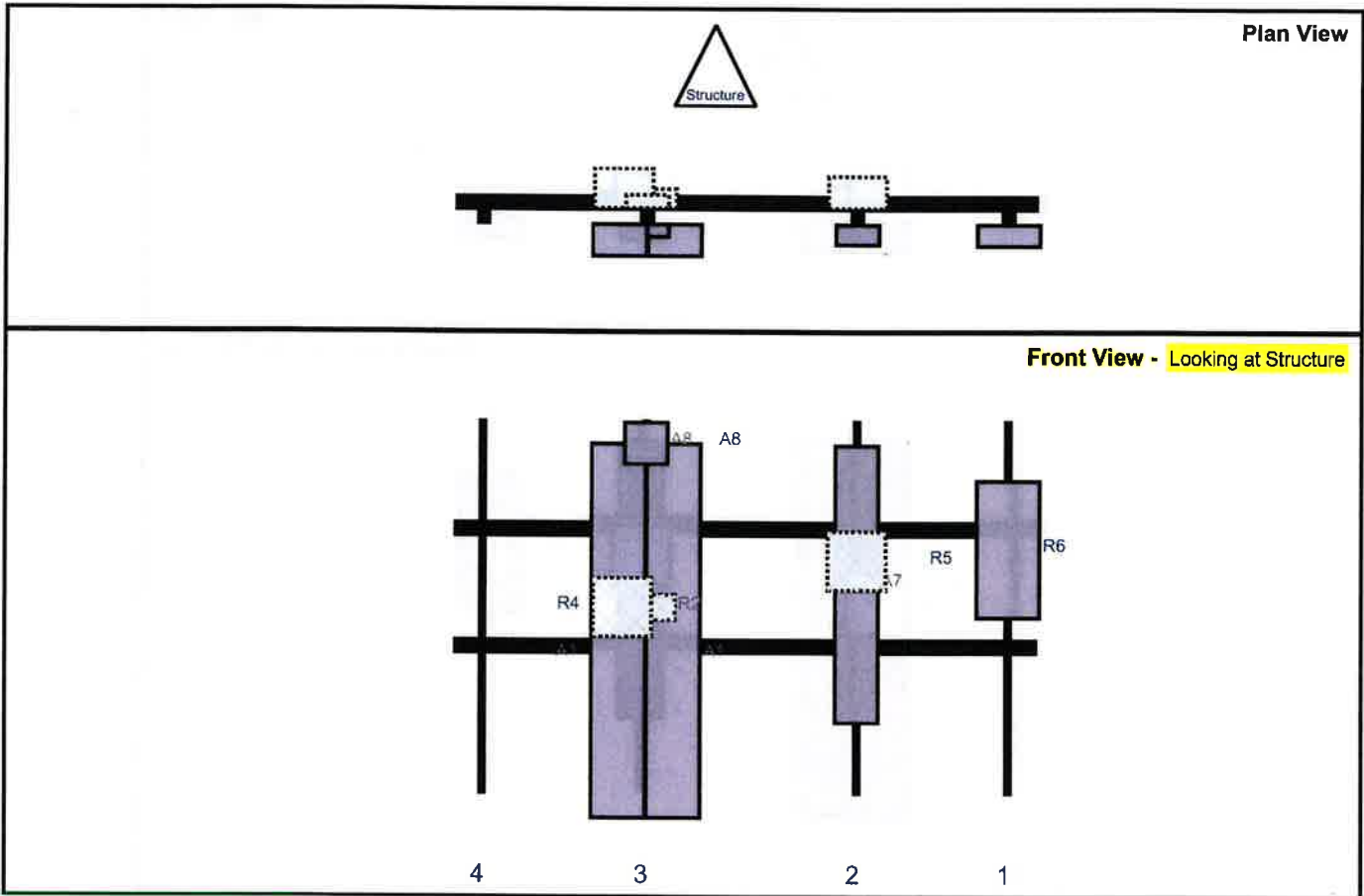
Structure Type: Monopole

10206283



Mount Elev: 183.00

Page: 2

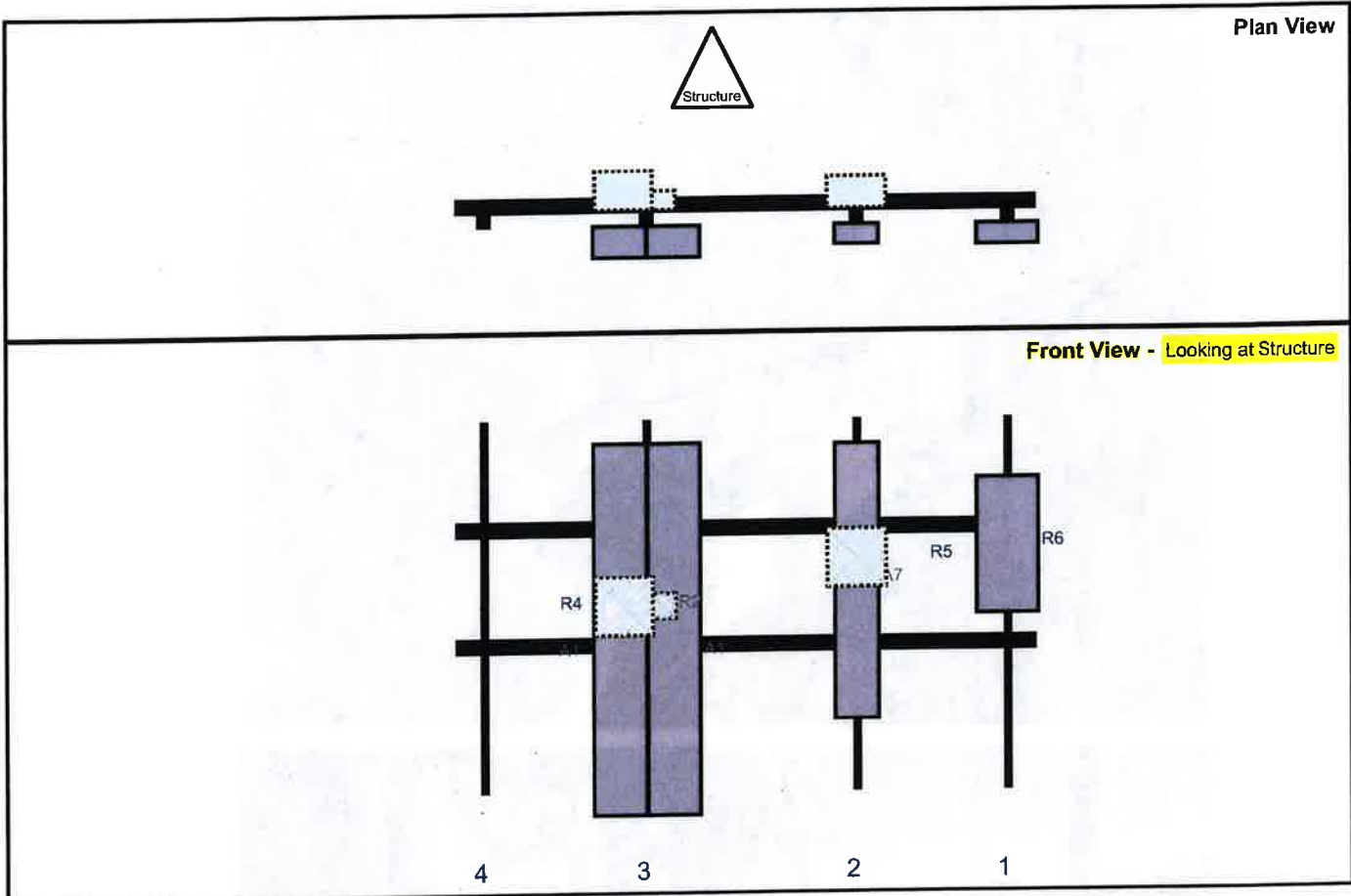


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R6	MT6407-77A	35.1	16.1	142.5	1	a	Front	33	0	Retained	01/27/2022
A7	BXA-70063-6CF	71	11.2	103.5	2	a	Front	42	0	Retained	01/27/2022
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	103.5	2	a	Behind	36	0	Retained	01/27/2022
A1	JAHH-65C-R3B-V2	95.7	13.8	49.5	3	a	Front	54	-7	Retained	01/27/2022
A1	JAHH-65C-R3B-V2	95.7	13.8	49.5	3	b	Front	54	7	Retained	01/27/2022
R2	CBC78T-DS-43	6.4	6.9	49.5	3	a	Behind	48	4	Retained	01/27/2022
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	49.5	3	a	Behind	48	-6	Retained	01/27/2022
A8	BSF0020F3V1-1	10.6	10.9	49.5	3	a	Behind	6	0	Added	
A8	BSF0020F3V1-1	10.6	10.9	49.5	3	b	Front	6	0	Added	

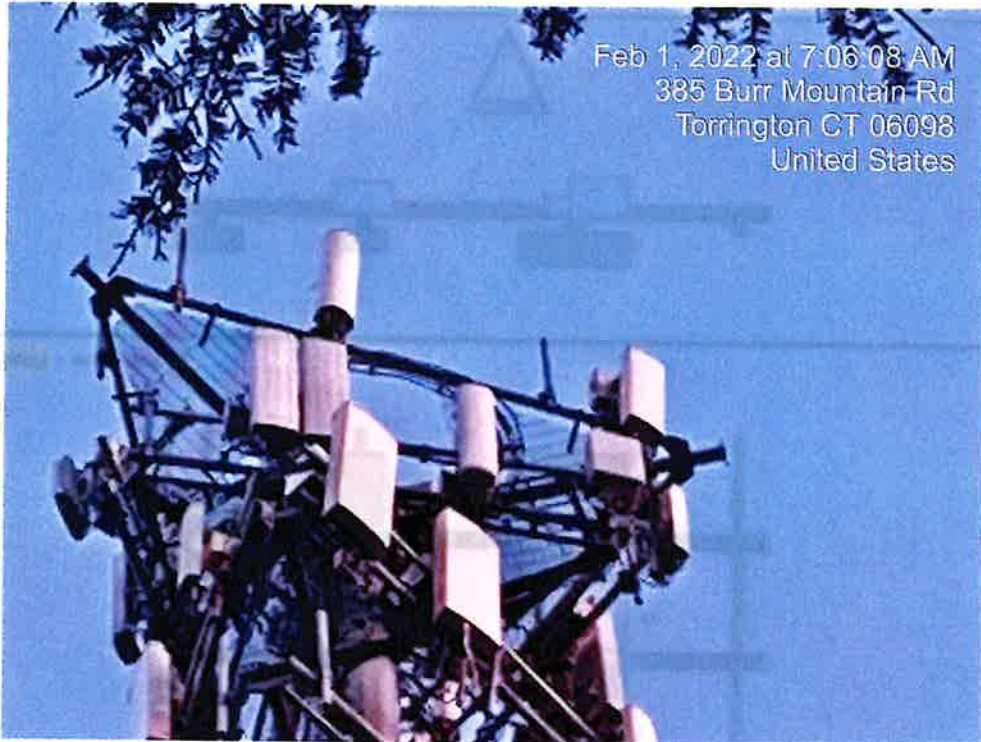
Sector: C  
 Structure Type: Monopole  
 Mount Elev: 183.00

10206283

7/10/2023



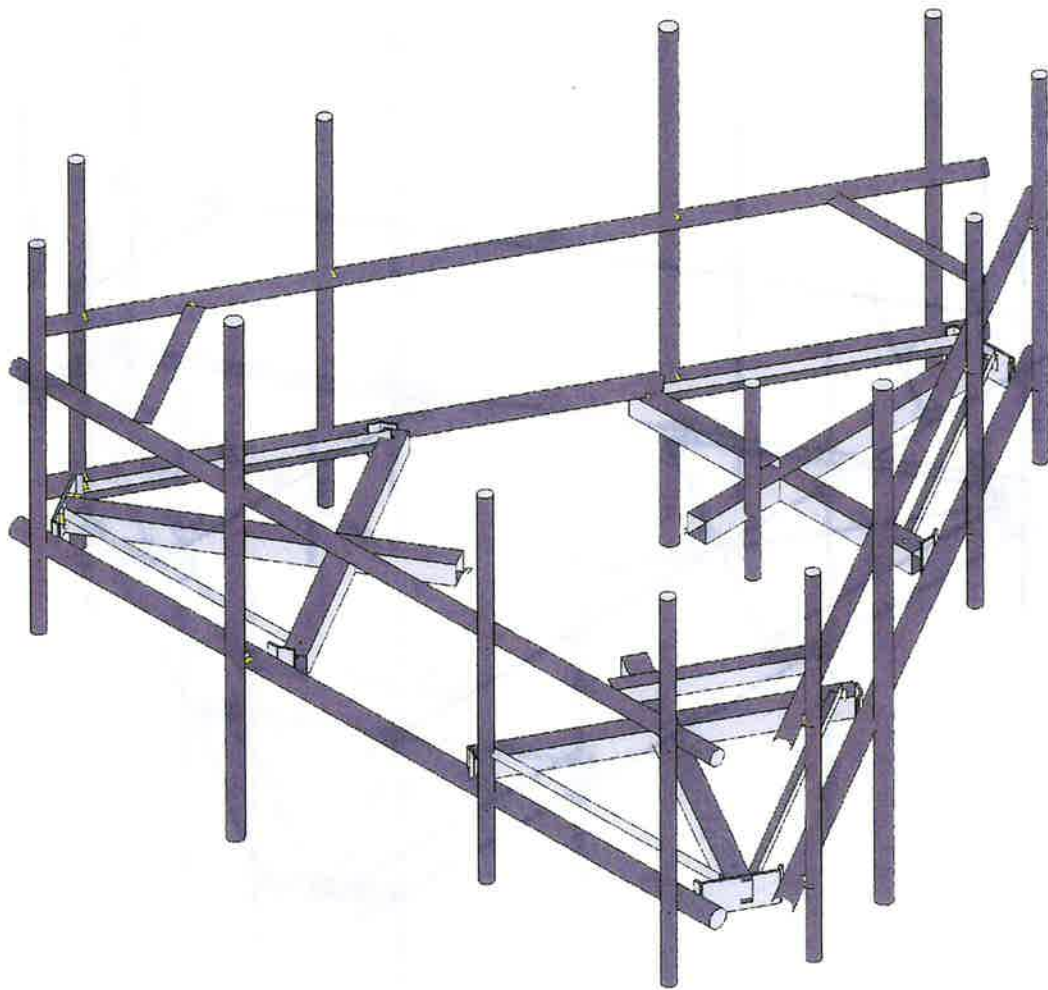
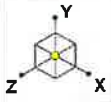
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R6	MT6407-77A	35.1	16.1	142.5	1	a	Front	33	0	Retained	01/27/2022
A7	BXA-70063-6CF	71	11.2	103.5	2	a	Front	42	0	Retained	01/27/2022
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	103.5	2	a	Behind	36	0	Retained	01/27/2022
A1	JAHH-65C-R3B-V2	95.7	13.8	49.5	3	a	Front	54	-7	Retained	01/27/2022
A1	JAHH-65C-R3B-V2	95.7	13.8	49.5	3	b	Front	54	7	Retained	01/27/2022
R2	CBC78T-DS-43	6.4	6.9	49.5	3	a	Behind	48	4	Retained	01/27/2022
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	49.5	3	a	Behind	48	-6	Retained	01/27/2022



Feb 1, 2022 at 7:06:08 AM  
385 Burr Mountain Rd  
Torrington CT 06098  
United States



Jan 27, 2022 2:46:34 PM  
157 Laurelton Drive  
Torrington  
Litchfield County  
Connecticut

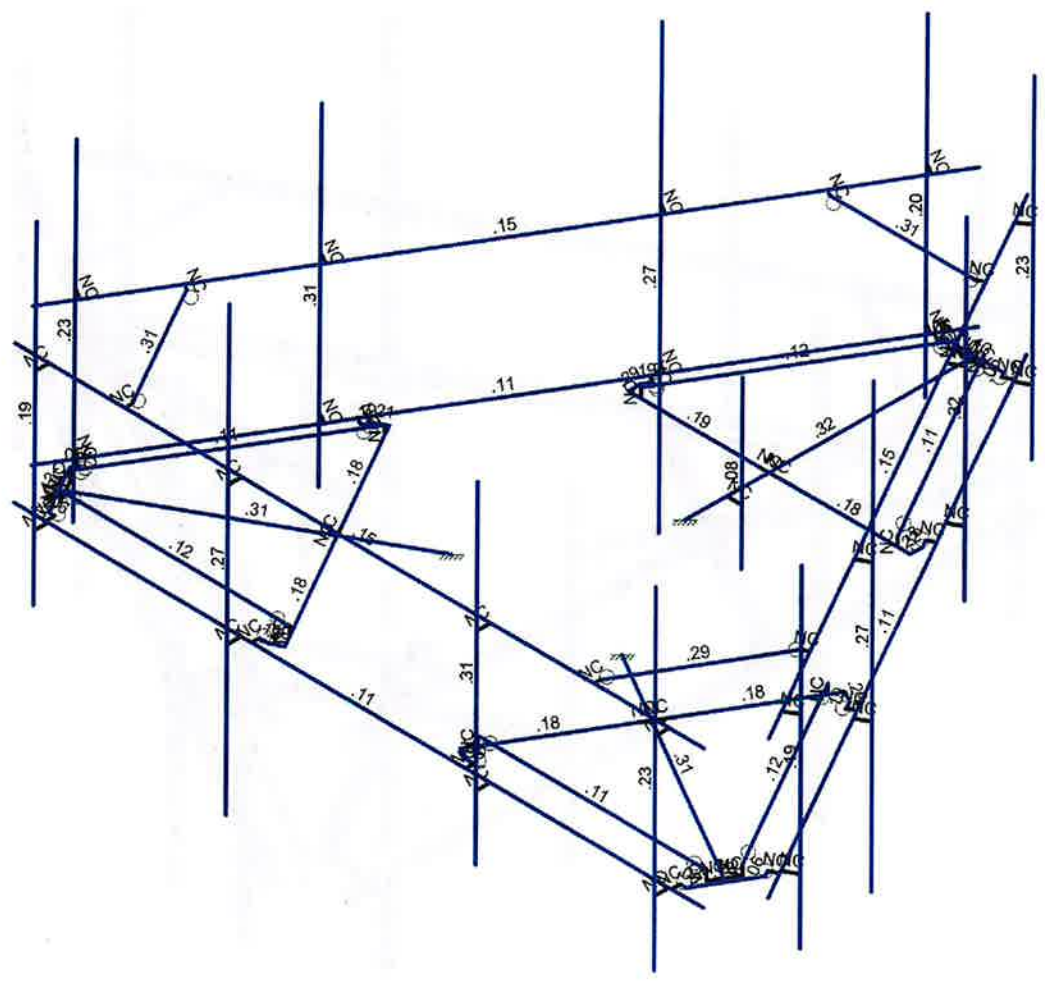
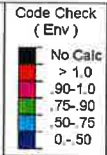
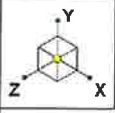


Envelope Only Solution

SK - 1

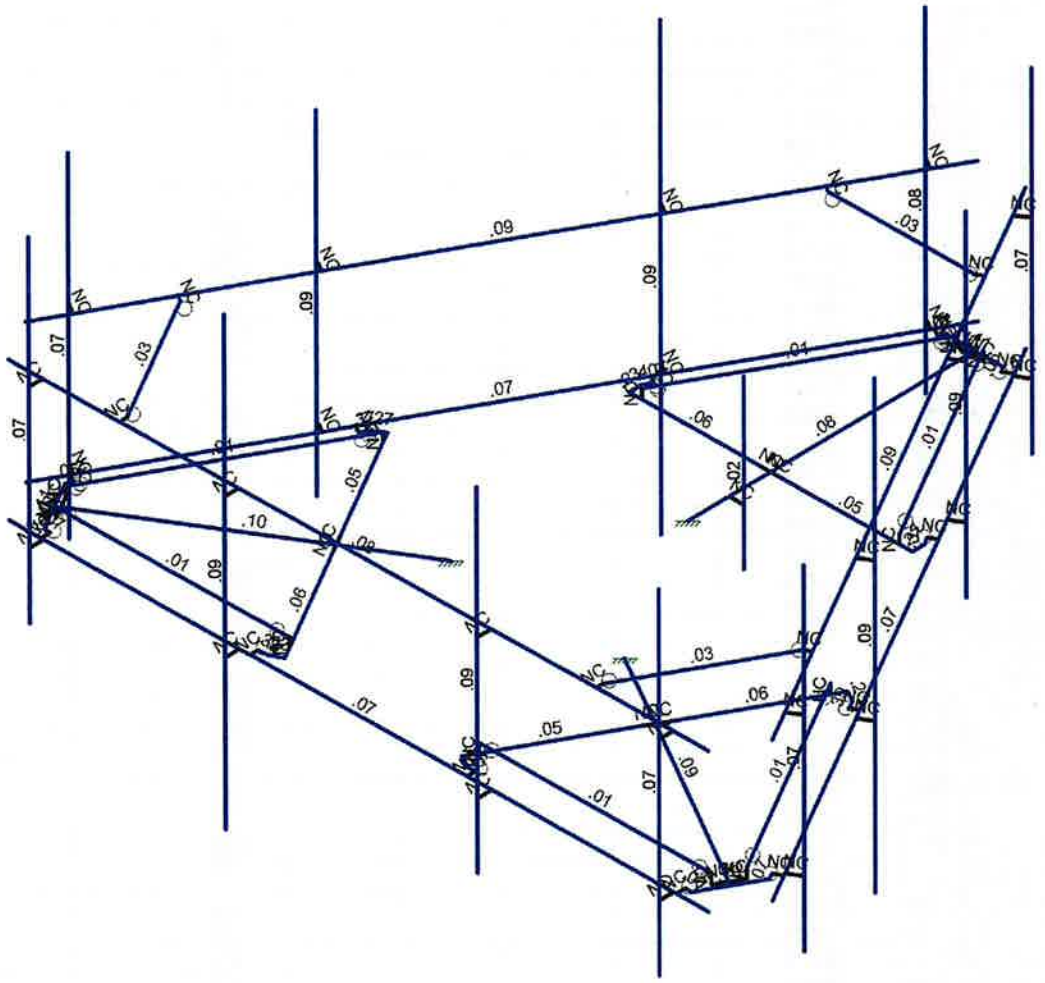
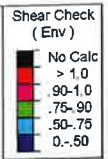
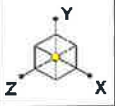
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Envelope Only Solution

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Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

SK - 3  
July 7, 2023 at 2:20 PM  
5000244643-VZW\_MT\_LO\_H.r3d



Company :  
 Designer :  
 Job Number :  
 Model Name :

July 7, 2023

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Checked By: \_\_\_\_\_

**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					105		
2	Antenna Di	None					105		
3	Antenna Wo (0 Deg)	None					105		
4	Antenna Wo (30 Deg)	None					105		
5	Antenna Wo (60 Deg)	None					105		
6	Antenna Wo (90 Deg)	None					105		
7	Antenna Wo (120 Deg)	None					105		
8	Antenna Wo (150 Deg)	None					105		
9	Antenna Wo (180 Deg)	None					105		
10	Antenna Wo (210 Deg)	None					105		
11	Antenna Wo (240 Deg)	None					105		
12	Antenna Wo (270 Deg)	None					105		
13	Antenna Wo (300 Deg)	None					105		
14	Antenna Wo (330 Deg)	None					105		
15	Antenna Wi (0 Deg)	None					105		
16	Antenna Wi (30 Deg)	None					105		
17	Antenna Wi (60 Deg)	None					105		
18	Antenna Wi (90 Deg)	None					105		
19	Antenna Wi (120 Deg)	None					105		
20	Antenna Wi (150 Deg)	None					105		
21	Antenna Wi (180 Deg)	None					105		
22	Antenna Wi (210 Deg)	None					105		
23	Antenna Wi (240 Deg)	None					105		
24	Antenna Wi (270 Deg)	None					105		
25	Antenna Wi (300 Deg)	None					105		
26	Antenna Wi (330 Deg)	None					105		
27	Antenna Wm (0 Deg)	None					105		
28	Antenna Wm (30 Deg)	None					105		
29	Antenna Wm (60 Deg)	None					105		
30	Antenna Wm (90 Deg)	None					105		
31	Antenna Wm (120 Deg)	None					105		
32	Antenna Wm (150 Deg)	None					105		
33	Antenna Wm (180 Deg)	None					105		
34	Antenna Wm (210 Deg)	None					105		
35	Antenna Wm (240 Deg)	None					105		
36	Antenna Wm (270 Deg)	None					105		
37	Antenna Wm (300 Deg)	None					105		
38	Antenna Wm (330 Deg)	None					105		
39	Structure D	None		-1					3
40	Structure Di	None						58	3
41	Structure Wo (0 Deg)	None						116	
42	Structure Wo (30 Deg)	None						116	
43	Structure Wo (60 Deg)	None						116	
44	Structure Wo (90 Deg)	None						116	
45	Structure Wo (120 D...	None						116	
46	Structure Wo (150 D...	None						116	
47	Structure Wo (180 D...	None						116	
48	Structure Wo (210 D...	None						116	
49	Structure Wo (240 D...	None						116	
50	Structure Wo (270 D...	None						116	
51	Structure Wo (300 D...	None						116	
52	Structure Wo (330 D...	None						116	
53	Structure Wi (0 Deg)	None						116	



Company :  
 Designer :  
 Job Number :  
 Model Name :

July 7, 2023  
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**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						116	
55	Structure Wi (60 Deg)	None						116	
56	Structure Wi (90 Deg)	None						116	
57	Structure Wi (120 De..)	None						116	
58	Structure Wi (150 De..)	None						116	
59	Structure Wi (180 De..)	None						116	
60	Structure Wi (210 De..)	None						116	
61	Structure Wi (240 De..)	None						116	
62	Structure Wi (270 De..)	None						116	
63	Structure Wi (300 De..)	None						116	
64	Structure Wi (330 De..)	None						116	
65	Structure Wm (0 Deg)	None						116	
66	Structure Wm (30 De..)	None						116	
67	Structure Wm (60 De..)	None						116	
68	Structure Wm (90 De..)	None						116	
69	Structure Wm (120 D..)	None						116	
70	Structure Wm (150 D..)	None						116	
71	Structure Wm (180 D..)	None						116	
72	Structure Wm (210 D..)	None						116	
73	Structure Wm (240 D..)	None						116	
74	Structure Wm (270 D..)	None						116	
75	Structure Wm (300 D..)	None						116	
76	Structure Wm (330 D..)	None						116	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					105		
82	Antenna Eh (0 Deg)	None					70		
83	Antenna Eh (90 Deg)	None					70		
84	Structure Ev	ELY		-036					3
85	Structure Eh (0 Deg)	ELZ			-091				3
86	Structure Eh (90 Deg)	ELX	.091						3
87	BLC 39 Transient Are..	None						30	
88	BLC 40 Transient Are..	None						30	
89	BLC 84 Transient Are..	None						30	
90	BLC 85 Transient Are..	None						30	
91	BLC 86 Transient Are..	None						30	

**Load Combinations**

	Description	Sol...	P...	SR...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1					
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1					
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1					
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1					
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1					
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1					
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1					
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1					
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1					
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1					
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1					
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1					
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1	
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1	



**Load Combinations (Continued)**

	Description	Sol.	P...	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5...	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 + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5
54	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866
55	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866
57	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5
58	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
60	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
61	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866
63	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5
64	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5
66	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866
67	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866
69	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5
70	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5



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**Load Combinations (Continued)**

	Description	Sol.	P...	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.			
72	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N144A	0	0	-1.791667	0	
2	N145	-2.541667	0	-3.291667	0	
3	N146	2.315104	0.166667	-3.291667	0	
4	N147	-2.315104	0.166667	-3.291667	0	
5	N148A	0	0	-3.291667	0	
6	N149	0	0	-6.979167	0	
7	N150	2.315104	0	-3.291667	0	
8	N151	-2.315104	0	-3.291667	0	
9	N152	2.541667	0	-3.291667	0	
10	N153	-0.166667	0	-3.291667	0	
11	N154	0.166667	0	-3.291667	0	
12	N155	-2.541667	0	-3.510417	0	
13	N156	2.541667	0	-3.510417	0	
14	N157	2.458333	0	-3.654754	0	
15	N158	0.571615	0	-6.88219	0	
16	N159	-2.458333	0	-3.654754	0	
17	N160	-0.571615	0	-6.88219	0	
18	N161	2.584629	0	-3.727671	0	
19	N162	-2.584629	0	-3.727671	0	
20	N163	-0.515625	0	-6.979167	0	
21	N164	0.515625	0	-6.979167	0	
22	N165	0.715429	0	-6.965221	0	
23	N166	-0.715429	0	-6.965221	0	
24	N167	0	0	-6.895833	0	
25	N168	0.234238	0.166667	-6.895833	0	
26	N169	0.234238	0	-6.895833	0	
27	N170	-0.234238	0.166667	-6.895833	0	
28	N171	-0.234238	0	-6.895833	0	
29	N172	-1.551629	0	0.895833	0	
30	N173	-1.579834	0	3.846981	0	
31	N174	-4.008219	0.166667	-0.359106	0	
32	N175	-1.693115	0.166667	3.650772	0	
33	N176	-2.850667	0	1.645833	0	
34	N177	-6.044136	0	3.489583	0	
35	N178	-4.008219	0	-0.359106	0	
36	N179	-1.693115	0	3.650772	0	
37	N180	-4.1215	0	-0.555315	0	
38	N181	-2.767334	0	1.790171	0	
39	N182	-2.934	0	1.501496	0	
40	N183	-1.769277	0	3.956356	0	
41	N184	-4.310943	0	-0.44594	0	
42	N185	-4.394277	0	-0.301602	0	
43	N186	-6.245959	0	2.946062	0	
44	N187	-1.935943	0	3.956356	0	
45	N188	-5.674344	0	3.936128	0	
46	N189	-4.520572	0	-0.374519	0	
47	N190	-1.935943	0	4.10219	0	
48	N191	-5.786323	0	3.936128	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
49	N192	-6.301948	0	3.043039	0	
50	N193	-6.389773	0	2.863031	0	
51	N194	-5.674344	0	4.10219	0	
52	N195	-5.971967	0	3.447917	0	
53	N196	-6.089086	0.166667	3.245061	0	
54	N197	-6.089086	0	3.245061	0	
55	N198	-5.854848	0.166667	3.650772	0	
56	N199	-5.854848	0	3.650772	0	
57	N200	1.551629	0	0.895833	0	
58	N201	4.1215	0	-0.555315	0	
59	N202	1.693115	0.166667	3.650772	0	
60	N203	4.008219	0.166667	-0.359106	0	
61	N204	2.850667	0	1.645833	0	
62	N205	6.044136	0	3.489583	0	
63	N206	1.693115	0	3.650772	0	
64	N207	4.008219	0	-0.359106	0	
65	N208	1.579834	0	3.846981	0	
66	N209	2.934	0	1.501496	0	
67	N210	2.767334	0	1.790171	0	
68	N211	4.310943	0	-0.44594	0	
69	N212	1.769277	0	3.956356	0	
70	N213	1.935943	0	3.956356	0	
71	N214	5.674344	0	3.936128	0	
72	N215	4.394277	0	-0.301602	0	
73	N216	6.245959	0	2.946062	0	
74	N217	1.935943	0	4.10219	0	
75	N218	4.520572	0	-0.374519	0	
76	N219	6.301948	0	3.043039	0	
77	N220	5.786323	0	3.936128	0	
78	N221	5.674344	0	4.10219	0	
79	N222	6.389773	0	2.863031	0	
80	N223	5.971967	0	3.447917	0	
81	N224	5.854848	0.166667	3.650772	0	
82	N225	5.854848	0	3.650772	0	
83	N226	6.089086	0.166667	3.245061	0	
84	N227	6.089086	0	3.245061	0	
85	N228	0	0	4.10219	0	
86	N230	6.25	0	4.10219	0	
87	N231	-6.25	0	4.10219	0	
88	N232	5.625	0	4.10219	0	
89	N233	5.625	0	4.35219	0	
90	N234	5.625	-1.166667	4.35219	0	
91	N235	5.625	4.833333	4.35219	0	
92	N92	-2.125	0	4.10219	0	
93	N93	-2.125	0	4.35219	0	
94	N94	-2.125	-2.666667	4.35219	0	
95	N95	-2.125	5.333333	4.35219	0	
96	N96	2.375	0	4.10219	0	
97	N97	2.375	0	4.35219	0	
98	N98	2.375	-1.166667	4.35219	0	
99	N99	2.375	4.833333	4.35219	0	
100	N100	-5.625	0	4.10219	0	
101	N101	-5.625	0	4.35219	0	
102	N102	-5.625	-1.166667	4.35219	0	
103	N103	-5.625	4.833333	4.35219	0	
104	N104	0.427601	0	-7.463754	0	
105	N105	6.677601	0	3.361564	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Diap...
106	N122	-6.677601	0	3.361564	0	
107	N123	-0.427601	0	-7.463754	0	
108	N140	0	0	-2.541667	0	
109	N141	0.266667	0	-2.541667	0	
110	N142	0.266667	2	-2.541667	0	
111	N143	0.266667	-1	-2.541667	0	
112	N144	6.25	2.5	4.10219	0	
113	N145A	-6.25	2.5	4.10219	0	
114	N146A	5.625	2.5	4.10219	0	
115	N147A	5.625	2.5	4.35219	0	
116	N148	-2.125	2.5	4.10219	0	
117	N149A	-2.125	2.5	4.35219	0	
118	N150A	2.375	2.5	4.10219	0	
119	N151A	2.375	2.5	4.35219	0	
120	N152A	-5.625	2.5	4.10219	0	
121	N153A	-5.625	2.5	4.35219	0	
122	N155A	-4.25	2.5	4.10219	0	
123	N156A	0.427601	2.5	-7.463754	0	
124	N157A	6.677601	2.5	3.361564	0	
125	N168A	-6.677601	2.5	3.361564	0	
126	N169A	-0.427601	2.5	-7.463754	0	
127	N180A	4.25	2.5	4.10219	0	
128	N181A	5.677601	2.5	1.629513	0	
129	N182A	1.427601	2.5	-5.731703	0	
130	N183A	-1.427601	2.5	-5.731703	0	
131	N184A	-5.677601	2.5	1.629513	0	
132	N180B	-4.25	2.5	3.97719	0	
133	N182B	4.25	2.5	3.97719	0	
134	N184B	5.569348	2.5	1.692013	0	
135	N185A	1.319348	2.5	-5.669203	0	
136	N188A	-1.319348	2.5	-5.669203	0	
137	N189A	-5.569348	2.5	1.692013	0	
138	CP	0	0	0	0	
139	N139	0.740101	0	-6.922488	0	
140	N140A	0.956607	0	-7.047488	0	
141	N141A	0.956607	-1.166667	-7.047488	0	
142	N142A	0.956607	4.833333	-7.047488	0	
143	N143A	4.615101	0	-0.210791	0	
144	N144B	4.831607	0	-0.335791	0	
145	N145B	4.831607	-2.666667	-0.335791	0	
146	N146B	4.831607	5.333333	-0.335791	0	
147	N147B	2.365101	0	-4.107905	0	
148	N148B	2.581607	0	-4.232905	0	
149	N149B	2.581607	-1.166667	-4.232905	0	
150	N150B	2.581607	4.833333	-4.232905	0	
151	N151B	6.365101	0	2.820298	0	
152	N152B	6.581607	0	2.695298	0	
153	N153B	6.581607	-1.166667	2.695298	0	
154	N154A	6.581607	4.833333	2.695298	0	
155	N155B	0.740101	2.5	-6.922488	0	
156	N156B	0.956607	2.5	-7.047488	0	
157	N157B	4.615101	2.5	-0.210791	0	
158	N158A	4.831607	2.5	-0.335791	0	
159	N159A	2.365101	2.5	-4.107905	0	
160	N160A	2.581607	2.5	-4.232905	0	
161	N161A	6.365101	2.5	2.820298	0	
162	N162A	6.581607	2.5	2.695298	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
163	N164A	-6.365101	0	2.820298	0	
164	N165A	-6.581607	0	2.695298	0	
165	N166A	-6.581607	-1.166667	2.695298	0	
166	N167A	-6.581607	4.833333	2.695298	0	
167	N168B	-2.490101	0	-3.891399	0	
168	N169B	-2.706607	0	-4.016399	0	
169	N170A	-2.706607	-2.666667	-4.016399	0	
170	N171A	-2.706607	5.333333	-4.016399	0	
171	N172A	-4.740101	0	0.005715	0	
172	N173A	-4.956607	0	-0.119285	0	
173	N174A	-4.956607	-1.166667	-0.119285	0	
174	N175A	-4.956607	4.833333	-0.119285	0	
175	N176A	-0.740101	0	-6.922488	0	
176	N177A	-0.956607	0	-7.047488	0	
177	N178A	-0.956607	-1.166667	-7.047488	0	
178	N179A	-0.956607	4.833333	-7.047488	0	
179	N180C	-6.365101	2.5	2.820298	0	
180	N181B	-6.581607	2.5	2.695298	0	
181	N182C	-2.490101	2.5	-3.891399	0	
182	N183B	-2.706607	2.5	-4.016399	0	
183	N184C	-4.740101	2.5	0.005715	0	
184	N185B	-4.956607	2.5	-0.119285	0	
185	N186A	-0.740101	2.5	-6.922488	0	
186	N187A	-0.956607	2.5	-7.047488	0	
187	N187B	2.375	0.833333	4.35219	0	
188	N188B	2.375	1.333333	4.35219	0	
189	N189B	-2.125	1.333333	4.35219	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Arm	HSS4X4X4	Beam	SquareT...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Cross Arm	HSS4X4X4	Beam	SquareT...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single An..	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Dual Mount Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	OVP Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
10	Support Pipe	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	PV PLK1	L3X3X4	Beam	Single An..	A36 Gr.36	Typical	1.44	1.23	1.23	.031

**Hot Rolled Steel Properties**

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	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
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

**Member Primary Data**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M100	N144A	N149			Standoff Arm	Beam	SquareTube	A500 Gr.B...	Typical
2	M101	N152	N154			Platform Cross..	Beam	SquareTube	A500 Gr.B...	Typical
3	M102	N153	N145			Platform Cross..	Beam	SquareTube	A500 Gr.B...	Typical
4	M103	N163	N164			Corner Plate	Beam	BAR	A36 Gr.36	Typical
5	M104	N147	N151			RIGID	None	None	RIGID	Typical
6	M105	N146	N150			RIGID	None	None	RIGID	Typical
7	M106	N168	N146			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M107	N147	N170			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M108	N170	N171			RIGID	None	None	RIGID	Typical
10	M109	N153	N148A			RIGID	None	None	RIGID	Typical
11	M110	N148A	N154			RIGID	None	None	RIGID	Typical
12	M111	N152	N156			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
13	M112	N156	N157			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M113	N157	N161			RIGID	None	None	RIGID	Typical
15	M114	N164	N158			Corner Plate	Beam	BAR	A36 Gr.36	Typical
16	M115	N158	N165			RIGID	None	None	RIGID	Typical
17	M116	N145	N155			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M117	N155	N159			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M118	N159	N162			RIGID	None	None	RIGID	Typical
20	M119	N163	N160			Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M120	N160	N166			RIGID	None	None	RIGID	Typical
22	M121	N171	N167			RIGID	None	None	RIGID	Typical
23	M122	N167	N169			RIGID	None	None	RIGID	Typical
24	M123	N168	N169			RIGID	None	None	RIGID	Typical
25	M124	N172	N177			Standoff Arm	Beam	SquareTube	A500 Gr.B...	Typical
26	M125	N180	N182			Platform Cross..	Beam	SquareTube	A500 Gr.B...	Typical
27	M126	N181	N173			Platform Cross..	Beam	SquareTube	A500 Gr.B...	Typical
28	M127	N191	N192			Corner Plate	Beam	BAR	A36 Gr.36	Typical
29	M128	N175	N179		240	RIGID	None	None	RIGID	Typical
30	M129	N174	N178		240	RIGID	None	None	RIGID	Typical
31	M130	N196	N174			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M131	N175	N198			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M132	N198	N199		240	RIGID	None	None	RIGID	Typical
34	M133	N181	N176			RIGID	None	None	RIGID	Typical
35	M134	N176	N182			RIGID	None	None	RIGID	Typical
36	M135	N180	N184			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
37	M136	N184	N185			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M137	N185	N189			RIGID	None	None	RIGID	Typical
39	M138	N192	N186			Corner Plate	Beam	BAR	A36 Gr.36	Typical
40	M139	N186	N193			RIGID	None	None	RIGID	Typical
41	M140	N173	N183			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
42	M141	N183	N187			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
43	M142	N187	N190			RIGID	None	None	RIGID	Typical
44	M143	N191	N188			Corner Plate	Beam	BAR	A36 Gr.36	Typical
45	M144	N188	N194			RIGID	None	None	RIGID	Typical
46	M145	N199	N195			RIGID	None	None	RIGID	Typical
47	M146	N195	N197			RIGID	None	None	RIGID	Typical
48	M147	N196	N197		240	RIGID	None	None	RIGID	Typical
49	M148	N200	N205			Standoff Arm	Beam	SquareTube	A500 Gr.B...	Typical
50	M149	N208	N210			Platform Cross..	Beam	SquareTube	A500 Gr.B...	Typical
51	M150	N209	N201			Platform Cross..	Beam	SquareTube	A500 Gr.B...	Typical
52	M151	N219	N220			Corner Plate	Beam	BAR	A36 Gr.36	Typical
53	M152	N203	N207		120	RIGID	None	None	RIGID	Typical
54	M153	N202	N206		120	RIGID	None	None	RIGID	Typical
55	M154	N224	N202			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M155	N203	N226			Grating Support	Beam	Single Angle	A36 Gr.36	Typical



Company :  
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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M156	N226	N227		120	RIGID	None	None	RIGID	Typical
58	M157	N209	N204			RIGID	None	None	RIGID	Typical
59	M158	N204	N210			RIGID	None	None	RIGID	Typical
60	M159	N208	N212			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
61	M160	N212	N213			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
62	M161	N213	N217			RIGID	None	None	RIGID	Typical
63	M162	N220	N214			Corner Plate	Beam	BAR	A36 Gr.36	Typical
64	M163	N214	N221			RIGID	None	None	RIGID	Typical
65	M164	N201	N211			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
66	M165	N211	N215			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
67	M166	N215	N218			RIGID	None	None	RIGID	Typical
68	M167	N219	N216			Corner Plate	Beam	BAR	A36 Gr.36	Typical
69	M168	N216	N222			RIGID	None	None	RIGID	Typical
70	M169	N227	N223			RIGID	None	None	RIGID	Typical
71	M170	N223	N225			RIGID	None	None	RIGID	Typical
72	M171	N224	N225		120	RIGID	None	None	RIGID	Typical
73	M172	N230	N231			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M173	N232	N233			RIGID	None	None	RIGID	Typical
75	MP1A	N235	N234			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
76	M76	N92	N93			RIGID	None	None	RIGID	Typical
77	MP3A	N95	N94			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
78	M78	N96	N97			RIGID	None	None	RIGID	Typical
79	MP2A	N99	N98			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
80	M80	N100	N101			RIGID	None	None	RIGID	Typical
81	MP4A	N103	N102			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M82	N104	N105			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M91	N122	N123			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
84	M100A	N140	N141			RIGID	None	None	RIGID	Typical
85	OVP PIPE	N142	N143			OVP Pipe	Column	Pipe	A53 Gr.B	Typical
86	M102A	N144	N145A			Support Pipe	Beam	Pipe	A53 Gr.B	Typical
87	M103A	N146A	N147A			RIGID	None	None	RIGID	Typical
88	M104A	N148	N149A			RIGID	None	None	RIGID	Typical
89	M105A	N150A	N151A			RIGID	None	None	RIGID	Typical
90	M106A	N152A	N153A			RIGID	None	None	RIGID	Typical
91	M107A	N156A	N157A			Support Pipe	Beam	Pipe	A53 Gr.B	Typical
92	M112A	N168A	N169A			Support Pipe	Beam	Pipe	A53 Gr.B	Typical
93	M117A	N180B	N155A			RIGID	None	None	RIGID	Typical
94	M118A	N182B	N180A			RIGID	None	None	RIGID	Typical
95	M119A	N184B	N181A			RIGID	None	None	RIGID	Typical
96	M120A	N185A	N182A			RIGID	None	None	RIGID	Typical
97	M121A	N188A	N183A			RIGID	None	None	RIGID	Typical
98	M122A	N189A	N184A			RIGID	None	None	RIGID	Typical
99	M123A	N189A	N180B		180	PV PLK1	Beam	Single Angle	A36 Gr.36	Typical
100	M124A	N182B	N184B		180	PV PLK1	Beam	Single Angle	A36 Gr.36	Typical
101	M125A	N185A	N188A		180	PV PLK1	Beam	Single Angle	A36 Gr.36	Typical
102	M102B	N139	N140A			RIGID	None	None	RIGID	Typical
103	MP1C	N142A	N141A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
104	M104B	N143A	N144B			RIGID	None	None	RIGID	Typical
105	MP3C	N146B	N145B			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
106	M106B	N147B	N148B			RIGID	None	None	RIGID	Typical
107	MP2C	N150B	N149B			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
108	M108A	N151B	N152B			RIGID	None	None	RIGID	Typical
109	MP4C	N154A	N153B			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
110	M110A	N155B	N156B			RIGID	None	None	RIGID	Typical
111	M111A	N157B	N158A			RIGID	None	None	RIGID	Typical
112	M112B	N159A	N160A			RIGID	None	None	RIGID	Typical
113	M113A	N161A	N162A			RIGID	None	None	RIGID	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
114	M114A	N164A	N165A			RIGID	None	None	RIGID	Typical
115	MP1B	N167A	N166A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
116	M116A	N168B	N169B			RIGID	None	None	RIGID	Typical
117	MP3B	N171A	N170A			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
118	M118B	N172A	N173A			RIGID	None	None	RIGID	Typical
119	MP2B	N175A	N174A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
120	M120B	N176A	N177A			RIGID	None	None	RIGID	Typical
121	MP4B	N179A	N178A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
122	M122B	N180C	N181B			RIGID	None	None	RIGID	Typical
123	M123B	N182C	N183B			RIGID	None	None	RIGID	Typical
124	M124B	N184C	N185B			RIGID	None	None	RIGID	Typical
125	M125B	N186A	N187A			RIGID	None	None	RIGID	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M100						Yes				None
2	M101						Yes	Default			None
3	M102						Yes	Default			None
4	M103						Yes	Default			None
5	M104						Yes	** NA **			None
6	M105						Yes	** NA **			None
7	M106	OOOOOX	OOOOOX				Yes	Default			None
8	M107	OOOOOX	OOOOOX				Yes	Default			None
9	M108						Yes	** NA **			None
10	M109						Yes	** NA **			None
11	M110						Yes	** NA **			None
12	M111						Yes	** NA **			None
13	M112						Yes	** NA **			None
14	M113		BenPIN				Yes	** NA **			None
15	M114						Yes	** NA **			None
16	M115		BenPIN				Yes	** NA **			None
17	M116						Yes	** NA **			None
18	M117						Yes	** NA **			None
19	M118		BenPIN				Yes	** NA **			None
20	M119						Yes	** NA **			None
21	M120		BenPIN				Yes	** NA **			None
22	M121						Yes	** NA **			None
23	M122						Yes	** NA **			None
24	M123						Yes	** NA **			None
25	M124						Yes	Default			None
26	M125						Yes	Default			None
27	M126						Yes	Default			None
28	M127						Yes	Default			None
29	M128						Yes	** NA **			None
30	M129						Yes	** NA **			None
31	M130	OOOOOX	OOOOOX				Yes	Default			None
32	M131	OOOOOX	OOOOOX				Yes	Default			None
33	M132						Yes	** NA **			None
34	M133						Yes	** NA **			None
35	M134						Yes	** NA **			None
36	M135						Yes	** NA **			None
37	M136						Yes	** NA **			None
38	M137		BenPIN				Yes	** NA **			None
39	M138						Yes	** NA **			None
40	M139		BenPIN				Yes	** NA **			None





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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
41	M140						Yes	** NA **			None
42	M141						Yes	** NA **			None
43	M142		BenPIN				Yes	** NA **			None
44	M143						Yes	** NA **			None
45	M144		BenPIN				Yes	** NA **			None
46	M145						Yes	** NA **			None
47	M146						Yes	** NA **			None
48	M147						Yes	** NA **			None
49	M148						Yes				None
50	M149						Yes	Default			None
51	M150						Yes	Default			None
52	M151						Yes	Default			None
53	M152						Yes	** NA **			None
54	M153						Yes	** NA **			None
55	M154	OOOOOX	OOOOOX				Yes	Default			None
56	M155	OOOOOX	OOOOOX				Yes	Default			None
57	M156						Yes	** NA **			None
58	M157						Yes	** NA **			None
59	M158						Yes	** NA **			None
60	M159						Yes	** NA **			None
61	M160						Yes	** NA **			None
62	M161		BenPIN				Yes	** NA **			None
63	M162						Yes				None
64	M163		BenPIN				Yes	** NA **			None
65	M164						Yes	** NA **			None
66	M165						Yes	** NA **			None
67	M166		BenPIN				Yes	** NA **			None
68	M167						Yes				None
69	M168		BenPIN				Yes	** NA **			None
70	M169						Yes	** NA **			None
71	M170						Yes	** NA **			None
72	M171						Yes	** NA **			None
73	M172						Yes	Default			None
74	M173						Yes	** NA **			None
75	MP1A						Yes	** NA **			None
76	M76						Yes	** NA **			None
77	MP3A						Yes	** NA **			None
78	M78						Yes	** NA **			None
79	MP2A						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	MP4A						Yes	** NA **			None
82	M82						Yes	Default			None
83	M91						Yes	Default			None
84	M100A						Yes	** NA **			None
85	OVP PIPE						Yes	** NA **			None
86	M102A						Yes	Default			None
87	M103A						Yes	** NA **			None
88	M104A						Yes	** NA **			None
89	M105A						Yes	** NA **			None
90	M106A						Yes	** NA **			None
91	M107A						Yes	Default			None
92	M112A						Yes	Default			None
93	M117A		OOOOOO				Yes	** NA **			None
94	M118A		OOOOOO				Yes	** NA **			None
95	M119A		OOOOOO				Yes	** NA **			None
96	M120A		OOOOOO				Yes	** NA **			None
97	M121A		OOOOOO				Yes	** NA **			None



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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat.	Analysis ...	Inactive	Seismic...
98	M122A		000000				Yes	** NA **			None
99	M123A						Yes	Default			None
100	M124A						Yes	Default			None
101	M125A						Yes	Default			None
102	M102B						Yes	** NA **			None
103	MP1C						Yes	** NA **			None
104	M104B						Yes	** NA **			None
105	MP3C						Yes	** NA **			None
106	M106B						Yes	** NA **			None
107	MP2C						Yes	** NA **			None
108	M108A						Yes	** NA **			None
109	MP4C						Yes	** NA **			None
110	M110A						Yes	** NA **			None
111	M111A						Yes	** NA **			None
112	M112B						Yes	** NA **			None
113	M113A						Yes	** NA **			None
114	M114A						Yes	** NA **			None
115	MP1B						Yes	** NA **			None
116	M116A						Yes	** NA **			None
117	MP3B						Yes	** NA **			None
118	M118B						Yes	** NA **			None
119	MP2B						Yes	** NA **			None
120	M120B						Yes	** NA **			None
121	MP4B						Yes	** NA **			None
122	M122B						Yes	** NA **			None
123	M123B						Yes	** NA **			None
124	M124B						Yes	** NA **			None
125	M125B						Yes	** NA **			None

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
1	MP3B	Y	-17.6	.25
2	MP3B	My	-.004	.25
3	MP3B	Mz	.008	.25
4	MP3A	Y	-40.1	2
5	MP3A	My	-.02	2
6	MP3A	Mz	.023	2
7	MP3A	Y	-40.1	7
8	MP3A	My	-.02	7
9	MP3A	Mz	.023	7
10	MP3B	Y	-40.1	2
11	MP3B	My	.03	2
12	MP3B	Mz	-.006	2
13	MP3B	Y	-40.1	7
14	MP3B	My	.03	7
15	MP3B	Mz	-.006	7
16	MP3C	Y	-40.1	2
17	MP3C	My	-.01	2
18	MP3C	Mz	.029	2
19	MP3C	Y	-40.1	7
20	MP3C	My	-.01	7
21	MP3C	Mz	.029	7
22	MP3A	Y	-40.1	2
23	MP3A	My	-.02	2
24	MP3A	Mz	-.023	2



Company :  
 Designer :  
 Job Number :  
 Model Name :

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP3A	Y	-40.1	7
26	MP3A	My	-.02	7
27	MP3A	Mz	-.023	7
28	MP3B	Y	-40.1	2
29	MP3B	My	-.01	2
30	MP3B	Mz	-.029	2
31	MP3B	Y	-40.1	7
32	MP3B	My	-.01	7
33	MP3B	Mz	-.029	7
34	MP3C	Y	-40.1	2
35	MP3C	My	.03	2
36	MP3C	Mz	.006	2
37	MP3C	Y	-40.1	7
38	MP3C	My	.03	7
39	MP3C	Mz	.006	7
40	MP3A	Y	-10.4	4
41	MP3A	My	.005	4
42	MP3A	Mz	.003	4
43	MP3B	Y	-10.4	4
44	MP3B	My	-.006	4
45	MP3B	Mz	.003	4
46	MP3C	Y	-10.4	4
47	MP3C	My	.000402	4
48	MP3C	Mz	-.006	4
49	OVP PIPE	Y	-32	1
50	OVP PIPE	My	0	1
51	OVP PIPE	Mz	0	1
52	MP3A	Y	-84.4	4
53	MP3A	My	.042	4
54	MP3A	Mz	-.042	4
55	MP3B	Y	-84.4	4
56	MP3B	My	.015	4
57	MP3B	Mz	.058	4
58	MP3C	Y	-84.4	4
59	MP3C	My	-.058	4
60	MP3C	Mz	-.015	4
61	MP2A	Y	-70.3	3
62	MP2A	My	.035	3
63	MP2A	Mz	0	3
64	MP2B	Y	-70.3	3
65	MP2B	My	-.018	3
66	MP2B	Mz	.03	3
67	MP2C	Y	-70.3	3
68	MP2C	My	-.018	3
69	MP2C	Mz	-.03	3
70	MP1A	Y	-43.55	1.75
71	MP1A	My	-.022	1.75
72	MP1A	Mz	0	1.75
73	MP1A	Y	-43.55	3.75
74	MP1A	My	-.022	3.75
75	MP1A	Mz	0	3.75
76	MP1B	Y	-43.55	1.75
77	MP1B	My	.011	1.75
78	MP1B	Mz	-.019	1.75
79	MP1B	Y	-43.55	3.75
80	MP1B	My	.011	3.75
81	MP1B	Mz	-.019	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP1C	Y	-43.55	1.75
83	MP1C	My	.011	1.75
84	MP1C	Mz	.019	1.75
85	MP1C	Y	-43.55	3.75
86	MP1C	My	.011	3.75
87	MP1C	Mz	.019	3.75
88	MP2A	Y	-8.5	2
89	MP2A	Mv	-.004	2
90	MP2A	Mz	0	2
91	MP2A	Y	-8.5	5
92	MP2A	My	-.004	5
93	MP2A	Mz	0	5
94	MP2B	Y	-8.5	2
95	MP2B	Mv	.002	2
96	MP2B	Mz	-.004	2
97	MP2B	Y	-8.5	5
98	MP2B	My	.002	5
99	MP2B	Mz	-.004	5
100	MP2C	Y	-8.5	2
101	MP2C	Mv	.002	2
102	MP2C	Mz	.004	2
103	MP2C	Y	-8.5	5
104	MP2C	My	.002	5
105	MP2C	Mz	.004	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	Y	-18.489	.25
2	MP3B	My	-.005	.25
3	MP3B	Mz	.008	.25
4	MP3A	Y	-93.885	2
5	MP3A	Mv	-.047	2
6	MP3A	Mz	.055	2
7	MP3A	Y	-93.885	7
8	MP3A	My	-.047	7
9	MP3A	Mz	.055	7
10	MP3B	Y	-93.885	2
11	MP3B	Mv	.071	2
12	MP3B	Mz	-.013	2
13	MP3B	Y	-93.885	7
14	MP3B	My	.071	7
15	MP3B	Mz	-.013	7
16	MP3C	Y	-93.885	2
17	MP3C	Mv	-.024	2
18	MP3C	Mz	.068	2
19	MP3C	Y	-93.885	7
20	MP3C	My	-.024	7
21	MP3C	Mz	.068	7
22	MP3A	Y	-93.885	2
23	MP3A	Mv	-.047	2
24	MP3A	Mz	-.055	2
25	MP3A	Y	-93.885	7
26	MP3A	My	-.047	7
27	MP3A	Mz	-.055	7
28	MP3B	Y	-93.885	2
29	MP3B	My	-.024	2



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

	Member Label	Direction	Magnitude[ lb. k-ft ]	Location[ft. %]
30	MP3B	Mz	-.068	2
31	MP3B	Y	-93.885	7
32	MP3B	My	-.024	7
33	MP3B	Mz	-.068	7
34	MP3C	Y	-93.885	2
35	MP3C	Mv	.071	2
36	MP3C	Mz	.013	2
37	MP3C	Y	-93.885	7
38	MP3C	My	.071	7
39	MP3C	Mz	.013	7
40	MP3A	Y	-11.131	4
41	MP3A	Mv	.006	4
42	MP3A	Mz	.004	4
43	MP3B	Y	-11.131	4
44	MP3B	My	-.006	4
45	MP3B	Mz	.003	4
46	MP3C	Y	-11.131	4
47	MP3C	Mv	.00043	4
48	MP3C	Mz	-.007	4
49	OVP PIPE	Y	-90.66	1
50	OVP PIPE	My	0	1
51	OVP PIPE	Mz	0	1
52	MP3A	Y	-46.349	4
53	MP3A	Mv	.023	4
54	MP3A	Mz	-.023	4
55	MP3B	Y	-46.349	4
56	MP3B	Mv	.008	4
57	MP3B	Mz	.032	4
58	MP3C	Y	-46.349	4
59	MP3C	Mv	-.032	4
60	MP3C	Mz	-.008	4
61	MP2A	Y	-41.692	3
62	MP2A	My	.021	3
63	MP2A	Mz	0	3
64	MP2B	Y	-41.692	3
65	MP2B	Mv	-.01	3
66	MP2B	Mz	.018	3
67	MP2C	Y	-41.692	3
68	MP2C	Mv	-.01	3
69	MP2C	Mz	-.018	3
70	MP1A	Y	-36.746	1.75
71	MP1A	Mv	-.018	1.75
72	MP1A	Mz	0	1.75
73	MP1A	Y	-36.746	3.75
74	MP1A	My	-.018	3.75
75	MP1A	Mz	0	3.75
76	MP1B	Y	-36.746	1.75
77	MP1B	Mv	.009	1.75
78	MP1B	Mz	-.016	1.75
79	MP1B	Y	-36.746	3.75
80	MP1B	My	.009	3.75
81	MP1B	Mz	-.016	3.75
82	MP1C	Y	-36.746	1.75
83	MP1C	Mv	.009	1.75
84	MP1C	Mz	.016	1.75
85	MP1C	Y	-36.746	3.75
86	MP1C	Mv	.009	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
87	MP1C	Mz	.016	3.75
88	MP2A	Y	-53.406	2
89	MP2A	My	-.027	2
90	MP2A	Mz	0	2
91	MP2A	Y	-53.406	5
92	MP2A	My	-.027	5
93	MP2A	Mz	0	5
94	MP2B	Y	-53.406	2
95	MP2B	My	.013	2
96	MP2B	Mz	-.023	2
97	MP2B	Y	-53.406	5
98	MP2B	My	.013	5
99	MP2B	Mz	-.023	5
100	MP2C	Y	-53.406	2
101	MP2C	My	.013	2
102	MP2C	Mz	.023	2
103	MP2C	Y	-53.406	5
104	MP2C	My	.013	5
105	MP2C	Mz	.023	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	0	.25
2	MP3B	Z	-15.596	.25
3	MP3B	Mx	-.007	.25
4	MP3A	X	0	2
5	MP3A	Z	-148.95	2
6	MP3A	Mx	-.087	2
7	MP3A	X	0	7
8	MP3A	Z	-148.95	7
9	MP3A	Mx	-.087	7
10	MP3B	X	0	2
11	MP3B	Z	-82.168	2
12	MP3B	Mx	.012	2
13	MP3B	X	0	7
14	MP3B	Z	-82.168	7
15	MP3B	Mx	.012	7
16	MP3C	X	0	2
17	MP3C	Z	-82.168	2
18	MP3C	Mx	-.06	2
19	MP3C	X	0	7
20	MP3C	Z	-82.168	7
21	MP3C	Mx	-.06	7
22	MP3A	X	0	2
23	MP3A	Z	-148.95	2
24	MP3A	Mx	.087	2
25	MP3A	X	0	7
26	MP3A	Z	-148.95	7
27	MP3A	Mx	.087	7
28	MP3B	X	0	2
29	MP3B	Z	-82.168	2
30	MP3B	Mx	.06	2
31	MP3B	X	0	7
32	MP3B	Z	-82.168	7
33	MP3B	Mx	.06	7
34	MP3C	X	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
35	MP3C	Z	-82.168	2
36	MP3C	Mx	-.012	2
37	MP3C	X	0	7
38	MP3C	Z	-82.168	7
39	MP3C	Mx	-.012	7
40	MP3A	X	0	4
41	MP3A	Z	-12.112	4
42	MP3A	Mx	-.004	4
43	MP3B	X	0	4
44	MP3B	Z	-9.313	4
45	MP3B	Mx	-.002	4
46	MP3C	X	0	4
47	MP3C	Z	-9.313	4
48	MP3C	Mx	.006	4
49	OVP PIPE	X	0	1
50	OVP PIPE	Z	-109.278	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	0	4
53	MP3A	Z	-50.741	4
54	MP3A	Mx	.025	4
55	MP3B	X	0	4
56	MP3B	Z	-38.22	4
57	MP3B	Mx	-.026	4
58	MP3C	X	0	4
59	MP3C	Z	-38.22	4
60	MP3C	Mx	.007	4
61	MP2A	X	0	3
62	MP2A	Z	-50.741	3
63	MP2A	Mx	0	3
64	MP2B	X	0	3
65	MP2B	Z	-33.555	3
66	MP2B	Mx	-.015	3
67	MP2C	X	0	3
68	MP2C	Z	-33.555	3
69	MP2C	Mx	.015	3
70	MP1A	X	0	1.75
71	MP1A	Z	-64.163	1.75
72	MP1A	Mx	0	1.75
73	MP1A	X	0	3.75
74	MP1A	Z	-64.163	3.75
75	MP1A	Mx	0	3.75
76	MP1B	X	0	1.75
77	MP1B	Z	-32.614	1.75
78	MP1B	Mx	.014	1.75
79	MP1B	X	0	3.75
80	MP1B	Z	-32.614	3.75
81	MP1B	Mx	.014	3.75
82	MP1C	X	0	1.75
83	MP1C	Z	-32.614	1.75
84	MP1C	Mx	-.014	1.75
85	MP1C	X	0	3.75
86	MP1C	Z	-32.614	3.75
87	MP1C	Mx	-.014	3.75
88	MP2A	X	0	2
89	MP2A	Z	-123.907	2
90	MP2A	Mx	0	2
91	MP2A	X	0	5



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
92	MP2A	Z	-123.907	5
93	MP2A	Mx	0	5
94	MP2B	X	0	2
95	MP2B	Z	-82.022	2
96	MP2B	Mx	.036	2
97	MP2B	X	0	5
98	MP2B	Z	-82.022	5
99	MP2B	Mx	.036	5
100	MP2C	X	0	2
101	MP2C	Z	-82.022	2
102	MP2C	Mx	-.036	2
103	MP2C	X	0	5
104	MP2C	Z	-82.022	5
105	MP2C	Mx	-.036	5

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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
1	MP3B	X	5.16	.25
2	MP3B	Z	-8.937	.25
3	MP3B	Mx	-.005	.25
4	MP3A	X	63.345	2
5	MP3A	Z	-109.716	2
6	MP3A	Mx	-.096	2
7	MP3A	X	63.345	7
8	MP3A	Z	-109.716	7
9	MP3A	Mx	-.096	7
10	MP3B	X	29.954	2
11	MP3B	Z	-51.881	2
12	MP3B	Mx	.03	2
13	MP3B	X	29.954	7
14	MP3B	Z	-51.881	7
15	MP3B	Mx	.03	7
16	MP3C	X	63.345	2
17	MP3C	Z	-109.716	2
18	MP3C	Mx	-.096	2
19	MP3C	X	63.345	7
20	MP3C	Z	-109.716	7
21	MP3C	Mx	-.096	7
22	MP3A	X	63.345	2
23	MP3A	Z	-109.716	2
24	MP3A	Mx	.032	2
25	MP3A	X	63.345	7
26	MP3A	Z	-109.716	7
27	MP3A	Mx	.032	7
28	MP3B	X	29.954	2
29	MP3B	Z	-51.881	2
30	MP3B	Mx	.03	2
31	MP3B	X	29.954	7
32	MP3B	Z	-51.881	7
33	MP3B	Mx	.03	7
34	MP3C	X	63.345	2
35	MP3C	Z	-109.716	2
36	MP3C	Mx	.032	2
37	MP3C	X	63.345	7
38	MP3C	Z	-109.716	7
39	MP3C	Mx	.032	7





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP3A	X	5.59	4
41	MP3A	Z	-9.682	4
42	MP3A	Mx	-.000432	4
43	MP3B	X	4.19	4
44	MP3B	Z	-7.258	4
45	MP3B	Mx	-.004	4
46	MP3C	X	5.59	4
47	MP3C	Z	-9.682	4
48	MP3C	Mx	.006	4
49	OVP PIPE	X	50.7	1
50	OVP PIPE	Z	-87.816	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	23.284	4
53	MP3A	Z	-40.329	4
54	MP3A	Mx	.032	4
55	MP3B	X	17.023	4
56	MP3B	Z	-29.484	4
57	MP3B	Mx	-.017	4
58	MP3C	X	23.284	4
59	MP3C	Z	-40.329	4
60	MP3C	Mx	-.009	4
61	MP2A	X	22.506	3
62	MP2A	Z	-38.982	3
63	MP2A	Mx	.011	3
64	MP2B	X	13.913	3
65	MP2B	Z	-24.098	3
66	MP2B	Mx	-.014	3
67	MP2C	X	22.506	3
68	MP2C	Z	-38.982	3
69	MP2C	Mx	.011	3
70	MP1A	X	26.823	1.75
71	MP1A	Z	-46.459	1.75
72	MP1A	Mx	-.013	1.75
73	MP1A	X	26.823	3.75
74	MP1A	Z	-46.459	3.75
75	MP1A	Mx	-.013	3.75
76	MP1B	X	11.048	1.75
77	MP1B	Z	-19.137	1.75
78	MP1B	Mx	.011	1.75
79	MP1B	X	11.048	3.75
80	MP1B	Z	-19.137	3.75
81	MP1B	Mx	.011	3.75
82	MP1C	X	26.823	1.75
83	MP1C	Z	-46.459	1.75
84	MP1C	Mx	-.013	1.75
85	MP1C	X	26.823	3.75
86	MP1C	Z	-46.459	3.75
87	MP1C	Mx	-.013	3.75
88	MP2A	X	54.973	2
89	MP2A	Z	-95.215	2
90	MP2A	Mx	-.027	2
91	MP2A	X	54.973	5
92	MP2A	Z	-95.215	5
93	MP2A	Mx	-.027	5
94	MP2B	X	34.03	2
95	MP2B	Z	-58.942	2
96	MP2B	Mx	.034	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
97	MP2B	X	34.03	5
98	MP2B	Z	-58.942	5
99	MP2B	Mx	.034	5
100	MP2C	X	54.973	2
101	MP2C	Z	-95.215	2
102	MP2C	Mx	-.027	2
103	MP2C	X	54.973	5
104	MP2C	Z	-95.215	5
105	MP2C	Mx	-.027	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	13.507	.25
2	MP3B	Z	-7.798	.25
3	MP3B	Mx	-.007	.25
4	MP3A	X	71.16	2
5	MP3A	Z	-41.084	2
6	MP3A	Mx	-.06	2
7	MP3A	X	71.16	7
8	MP3A	Z	-41.084	7
9	MP3A	Mx	-.06	7
10	MP3B	X	71.16	2
11	MP3B	Z	-41.084	2
12	MP3B	Mx	.06	2
13	MP3B	X	71.16	7
14	MP3B	Z	-41.084	7
15	MP3B	Mx	.06	7
16	MP3C	X	128.995	2
17	MP3C	Z	-74.475	2
18	MP3C	Mx	-.087	2
19	MP3C	X	128.995	7
20	MP3C	Z	-74.475	7
21	MP3C	Mx	-.087	7
22	MP3A	X	71.16	2
23	MP3A	Z	-41.084	2
24	MP3A	Mx	-.012	2
25	MP3A	X	71.16	7
26	MP3A	Z	-41.084	7
27	MP3A	Mx	-.012	7
28	MP3B	X	71.16	2
29	MP3B	Z	-41.084	2
30	MP3B	Mx	.012	2
31	MP3B	X	71.16	7
32	MP3B	Z	-41.084	7
33	MP3B	Mx	.012	7
34	MP3C	X	128.995	2
35	MP3C	Z	-74.475	2
36	MP3C	Mx	.087	2
37	MP3C	X	128.995	7
38	MP3C	Z	-74.475	7
39	MP3C	Mx	.087	7
40	MP3A	X	8.066	4
41	MP3A	Z	-4.657	4
42	MP3A	Mx	.002	4
43	MP3B	X	8.066	4
44	MP3B	Z	-4.657	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP3B	Mx	-.006	4
46	MP3C	X	10.49	4
47	MP3C	Z	-6.056	4
48	MP3C	Mx	.004	4
49	OVP PIPE	X	94.637	1
50	OVP PIPE	Z	-54.639	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	33.099	4
53	MP3A	Z	-19.11	4
54	MP3A	Mx	.026	4
55	MP3B	X	33.099	4
56	MP3B	Z	-19.11	4
57	MP3B	Mx	-.007	4
58	MP3C	X	43.943	4
59	MP3C	Z	-25.371	4
60	MP3C	Mx	-.025	4
61	MP2A	X	29.059	3
62	MP2A	Z	-16.777	3
63	MP2A	Mx	.015	3
64	MP2B	X	29.059	3
65	MP2B	Z	-16.777	3
66	MP2B	Mx	-.015	3
67	MP2C	X	43.943	3
68	MP2C	Z	-25.371	3
69	MP2C	Mx	0	3
70	MP1A	X	28.244	1.75
71	MP1A	Z	-16.307	1.75
72	MP1A	Mx	-.014	1.75
73	MP1A	X	28.244	3.75
74	MP1A	Z	-16.307	3.75
75	MP1A	Mx	-.014	3.75
76	MP1B	X	28.244	1.75
77	MP1B	Z	-16.307	1.75
78	MP1B	Mx	.014	1.75
79	MP1B	X	28.244	3.75
80	MP1B	Z	-16.307	3.75
81	MP1B	Mx	.014	3.75
82	MP1C	X	55.567	1.75
83	MP1C	Z	-32.082	1.75
84	MP1C	Mx	0	1.75
85	MP1C	X	55.567	3.75
86	MP1C	Z	-32.082	3.75
87	MP1C	Mx	0	3.75
88	MP2A	X	71.033	2
89	MP2A	Z	-41.011	2
90	MP2A	Mx	-.036	2
91	MP2A	X	71.033	5
92	MP2A	Z	-41.011	5
93	MP2A	Mx	-.036	5
94	MP2B	X	71.033	2
95	MP2B	Z	-41.011	2
96	MP2B	Mx	.036	2
97	MP2B	X	71.033	5
98	MP2B	Z	-41.011	5
99	MP2B	Mx	.036	5
100	MP2C	X	107.306	2
101	MP2C	Z	-61.953	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
102	MP2C	Mx	0	2
103	MP2C	X	107.306	5
104	MP2C	Z	-61.953	5
105	MP2C	Mx	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3B	X	26.15	.25
2	MP3B	Z	0	.25
3	MP3B	Mx	-.007	.25
4	MP3A	X	59.907	2
5	MP3A	Z	0	2
6	MP3A	Mx	-.03	2
7	MP3A	X	59.907	7
8	MP3A	Z	0	7
9	MP3A	Mx	-.03	7
10	MP3B	X	126.689	2
11	MP3B	Z	0	2
12	MP3B	Mx	.096	2
13	MP3B	X	126.689	7
14	MP3B	Z	0	7
15	MP3B	Mx	.096	7
16	MP3C	X	126.689	2
17	MP3C	Z	0	2
18	MP3C	Mx	-.032	2
19	MP3C	X	126.689	7
20	MP3C	Z	0	7
21	MP3C	Mx	-.032	7
22	MP3A	X	59.907	2
23	MP3A	Z	0	2
24	MP3A	Mx	-.03	2
25	MP3A	X	59.907	7
26	MP3A	Z	0	7
27	MP3A	Mx	-.03	7
28	MP3B	X	126.689	2
29	MP3B	Z	0	2
30	MP3B	Mx	-.032	2
31	MP3B	X	126.689	7
32	MP3B	Z	0	7
33	MP3B	Mx	-.032	7
34	MP3C	X	126.689	2
35	MP3C	Z	0	2
36	MP3C	Mx	.096	2
37	MP3C	X	126.689	7
38	MP3C	Z	0	7
39	MP3C	Mx	.096	7
40	MP3A	X	8.38	4
41	MP3A	Z	0	4
42	MP3A	Mx	.004	4
43	MP3B	X	11.179	4
44	MP3B	Z	0	4
45	MP3B	Mx	-.006	4
46	MP3C	X	11.179	4
47	MP3C	Z	0	4
48	MP3C	Mx	.000432	4
49	OVP PIPE	X	125.032	1



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
50	OVP PIPE	Z	0	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	34.046	4
53	MP3A	Z	0	4
54	MP3A	Mx	.017	4
55	MP3B	X	46.567	4
56	MP3B	Z	0	4
57	MP3B	Mx	.009	4
58	MP3C	X	46.567	4
59	MP3C	Z	0	4
60	MP3C	Mx	-.032	4
61	MP2A	X	27.826	3
62	MP2A	Z	0	3
63	MP2A	Mx	.014	3
64	MP2B	X	45.012	3
65	MP2B	Z	0	3
66	MP2B	Mx	-.011	3
67	MP2C	X	45.012	3
68	MP2C	Z	0	3
69	MP2C	Mx	-.011	3
70	MP1A	X	22.097	1.75
71	MP1A	Z	0	1.75
72	MP1A	Mx	-.011	1.75
73	MP1A	X	22.097	3.75
74	MP1A	Z	0	3.75
75	MP1A	Mx	-.011	3.75
76	MP1B	X	53.647	1.75
77	MP1B	Z	0	1.75
78	MP1B	Mx	.013	1.75
79	MP1B	X	53.647	3.75
80	MP1B	Z	0	3.75
81	MP1B	Mx	.013	3.75
82	MP1C	X	53.647	1.75
83	MP1C	Z	0	1.75
84	MP1C	Mx	.013	1.75
85	MP1C	X	53.647	3.75
86	MP1C	Z	0	3.75
87	MP1C	Mx	.013	3.75
88	MP2A	X	68.06	2
89	MP2A	Z	0	2
90	MP2A	Mx	-.034	2
91	MP2A	X	68.06	5
92	MP2A	Z	0	5
93	MP2A	Mx	-.034	5
94	MP2B	X	109.945	2
95	MP2B	Z	0	2
96	MP2B	Mx	.027	2
97	MP2B	X	109.945	5
98	MP2B	Z	0	5
99	MP2B	Mx	.027	5
100	MP2C	X	109.945	2
101	MP2C	Z	0	2
102	MP2C	Mx	.027	2
103	MP2C	X	109.945	5
104	MP2C	Z	0	5
105	MP2C	Mx	.027	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	27.216	.25
2	MP3B	Z	15.713	.25
3	MP3B	Mx	0	.25
4	MP3A	X	71.16	2
5	MP3A	Z	41.084	2
6	MP3A	Mx	-.012	2
7	MP3A	X	71.16	7
8	MP3A	Z	41.084	7
9	MP3A	Mx	-.012	7
10	MP3B	X	128.995	2
11	MP3B	Z	74.475	2
12	MP3B	Mx	.087	2
13	MP3B	X	128.995	7
14	MP3B	Z	74.475	7
15	MP3B	Mx	.087	7
16	MP3C	X	71.16	2
17	MP3C	Z	41.084	2
18	MP3C	Mx	.012	2
19	MP3C	X	71.16	7
20	MP3C	Z	41.084	7
21	MP3C	Mx	.012	7
22	MP3A	X	71.16	2
23	MP3A	Z	41.084	2
24	MP3A	Mx	-.06	2
25	MP3A	X	71.16	7
26	MP3A	Z	41.084	7
27	MP3A	Mx	-.06	7
28	MP3B	X	128.995	2
29	MP3B	Z	74.475	2
30	MP3B	Mx	-.087	2
31	MP3B	X	128.995	7
32	MP3B	Z	74.475	7
33	MP3B	Mx	-.087	7
34	MP3C	X	71.16	2
35	MP3C	Z	41.084	2
36	MP3C	Mx	.06	2
37	MP3C	X	71.16	7
38	MP3C	Z	41.084	7
39	MP3C	Mx	.06	7
40	MP3A	X	8.066	4
41	MP3A	Z	4.657	4
42	MP3A	Mx	.006	4
43	MP3B	X	10.49	4
44	MP3B	Z	6.056	4
45	MP3B	Mx	-.004	4
46	MP3C	X	8.066	4
47	MP3C	Z	4.657	4
48	MP3C	Mx	-.002	4
49	OVP PIPE	X	115.103	1
50	OVP PIPE	Z	66.455	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	33.099	4
53	MP3A	Z	19.11	4
54	MP3A	Mx	.007	4
55	MP3B	X	43.943	4
56	MP3B	Z	25.371	4
57	MP3B	Mx	.025	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP3C	X	33.099	4
59	MP3C	Z	19.11	4
60	MP3C	Mx	-.026	4
61	MP2A	X	29.059	3
62	MP2A	Z	16.777	3
63	MP2A	Mx	.015	3
64	MP2B	X	43.943	3
65	MP2B	Z	25.371	3
66	MP2B	Mx	0	3
67	MP2C	X	29.059	3
68	MP2C	Z	16.777	3
69	MP2C	Mx	-.015	3
70	MP1A	X	28.244	1.75
71	MP1A	Z	16.307	1.75
72	MP1A	Mx	-.014	1.75
73	MP1A	X	28.244	3.75
74	MP1A	Z	16.307	3.75
75	MP1A	Mx	-.014	3.75
76	MP1B	X	55.567	1.75
77	MP1B	Z	32.082	1.75
78	MP1B	Mx	0	1.75
79	MP1B	X	55.567	3.75
80	MP1B	Z	32.082	3.75
81	MP1B	Mx	0	3.75
82	MP1C	X	28.244	1.75
83	MP1C	Z	16.307	1.75
84	MP1C	Mx	.014	1.75
85	MP1C	X	28.244	3.75
86	MP1C	Z	16.307	3.75
87	MP1C	Mx	.014	3.75
88	MP2A	X	71.033	2
89	MP2A	Z	41.011	2
90	MP2A	Mx	-.036	2
91	MP2A	X	71.033	5
92	MP2A	Z	41.011	5
93	MP2A	Mx	-.036	5
94	MP2B	X	107.306	2
95	MP2B	Z	61.953	2
96	MP2B	Mx	0	2
97	MP2B	X	107.306	5
98	MP2B	Z	61.953	5
99	MP2B	Mx	0	5
100	MP2C	X	71.033	2
101	MP2C	Z	41.011	2
102	MP2C	Mx	.036	2
103	MP2C	X	71.033	5
104	MP2C	Z	41.011	5
105	MP2C	Mx	.036	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	13.075	.25
2	MP3B	Z	22.646	.25
3	MP3B	Mx	.007	.25
4	MP3A	X	63.345	2
5	MP3A	Z	109.716	2



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
6	MP3A	Mx	.032	2
7	MP3A	X	63.345	7
8	MP3A	Z	109.716	7
9	MP3A	Mx	.032	7
10	MP3B	X	63.345	2
11	MP3B	Z	109.716	2
12	MP3B	Mx	.032	2
13	MP3B	X	63.345	7
14	MP3B	Z	109.716	7
15	MP3B	Mx	.032	7
16	MP3C	X	29.954	2
17	MP3C	Z	51.881	2
18	MP3C	Mx	.03	2
19	MP3C	X	29.954	7
20	MP3C	Z	51.881	7
21	MP3C	Mx	.03	7
22	MP3A	X	63.345	2
23	MP3A	Z	109.716	2
24	MP3A	Mx	-.096	2
25	MP3A	X	63.345	7
26	MP3A	Z	109.716	7
27	MP3A	Mx	-.096	7
28	MP3B	X	63.345	2
29	MP3B	Z	109.716	2
30	MP3B	Mx	-.096	2
31	MP3B	X	63.345	7
32	MP3B	Z	109.716	7
33	MP3B	Mx	-.096	7
34	MP3C	X	29.954	2
35	MP3C	Z	51.881	2
36	MP3C	Mx	.03	2
37	MP3C	X	29.954	7
38	MP3C	Z	51.881	7
39	MP3C	Mx	.03	7
40	MP3A	X	5.59	4
41	MP3A	Z	9.682	4
42	MP3A	Mx	.006	4
43	MP3B	X	5.59	4
44	MP3B	Z	9.682	4
45	MP3B	Mx	-.000432	4
46	MP3C	X	4.19	4
47	MP3C	Z	7.258	4
48	MP3C	Mx	-.004	4
49	OVP PIPE	X	62.516	1
50	OVP PIPE	Z	108.281	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	23.284	4
53	MP3A	Z	40.329	4
54	MP3A	Mx	-.009	4
55	MP3B	X	23.284	4
56	MP3B	Z	40.329	4
57	MP3B	Mx	.032	4
58	MP3C	X	17.023	4
59	MP3C	Z	29.484	4
60	MP3C	Mx	-.017	4
61	MP2A	X	22.506	3
62	MP2A	Z	38.982	3





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
63	MP2A	Mx	.011	3
64	MP2B	X	22.506	3
65	MP2B	Z	38.982	3
66	MP2B	Mx	.011	3
67	MP2C	X	13.913	3
68	MP2C	Z	24.098	3
69	MP2C	Mx	-.014	3
70	MP1A	X	26.823	1.75
71	MP1A	Z	46.459	1.75
72	MP1A	Mx	-.013	1.75
73	MP1A	X	26.823	3.75
74	MP1A	Z	46.459	3.75
75	MP1A	Mx	-.013	3.75
76	MP1B	X	26.823	1.75
77	MP1B	Z	46.459	1.75
78	MP1B	Mx	-.013	1.75
79	MP1B	X	26.823	3.75
80	MP1B	Z	46.459	3.75
81	MP1B	Mx	-.013	3.75
82	MP1C	X	11.048	1.75
83	MP1C	Z	19.137	1.75
84	MP1C	Mx	.011	1.75
85	MP1C	X	11.048	3.75
86	MP1C	Z	19.137	3.75
87	MP1C	Mx	.011	3.75
88	MP2A	X	54.973	2
89	MP2A	Z	95.215	2
90	MP2A	Mx	-.027	2
91	MP2A	X	54.973	5
92	MP2A	Z	95.215	5
93	MP2A	Mx	-.027	5
94	MP2B	X	54.973	2
95	MP2B	Z	95.215	2
96	MP2B	Mx	-.027	2
97	MP2B	X	54.973	5
98	MP2B	Z	95.215	5
99	MP2B	Mx	-.027	5
100	MP2C	X	34.03	2
101	MP2C	Z	58.942	2
102	MP2C	Mx	.034	2
103	MP2C	X	34.03	5
104	MP2C	Z	58.942	5
105	MP2C	Mx	.034	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3B	X	0	.25
2	MP3B	Z	15.596	.25
3	MP3B	Mx	.007	.25
4	MP3A	X	0	2
5	MP3A	Z	148.95	2
6	MP3A	Mx	.087	2
7	MP3A	X	0	7
8	MP3A	Z	148.95	7
9	MP3A	Mx	.087	7
10	MP3B	X	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP3B	Z	82.168	2
12	MP3B	Mx	-.012	2
13	MP3B	X	0	7
14	MP3B	Z	82.168	7
15	MP3B	Mx	-.012	7
16	MP3C	X	0	2
17	MP3C	Z	82.168	2
18	MP3C	Mx	.06	2
19	MP3C	X	0	7
20	MP3C	Z	82.168	7
21	MP3C	Mx	.06	7
22	MP3A	X	0	2
23	MP3A	Z	148.95	2
24	MP3A	Mx	-.087	2
25	MP3A	X	0	7
26	MP3A	Z	148.95	7
27	MP3A	Mx	-.087	7
28	MP3B	X	0	2
29	MP3B	Z	82.168	2
30	MP3B	Mx	-.06	2
31	MP3B	X	0	7
32	MP3B	Z	82.168	7
33	MP3B	Mx	-.06	7
34	MP3C	X	0	2
35	MP3C	Z	82.168	2
36	MP3C	Mx	.012	2
37	MP3C	X	0	7
38	MP3C	Z	82.168	7
39	MP3C	Mx	.012	7
40	MP3A	X	0	4
41	MP3A	Z	12.112	4
42	MP3A	Mx	.004	4
43	MP3B	X	0	4
44	MP3B	Z	9.313	4
45	MP3B	Mx	.002	4
46	MP3C	X	0	4
47	MP3C	Z	9.313	4
48	MP3C	Mx	-.006	4
49	OVP PIPE	X	0	1
50	OVP PIPE	Z	109.278	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	0	4
53	MP3A	Z	50.741	4
54	MP3A	Mx	-.025	4
55	MP3B	X	0	4
56	MP3B	Z	38.22	4
57	MP3B	Mx	.026	4
58	MP3C	X	0	4
59	MP3C	Z	38.22	4
60	MP3C	Mx	-.007	4
61	MP2A	X	0	3
62	MP2A	Z	50.741	3
63	MP2A	Mx	0	3
64	MP2B	X	0	3
65	MP2B	Z	33.555	3
66	MP2B	Mx	.015	3
67	MP2C	X	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP2C	Z	33.555	3
69	MP2C	Mx	-.015	3
70	MP1A	X	0	1.75
71	MP1A	Z	64.163	1.75
72	MP1A	Mx	0	1.75
73	MP1A	X	0	3.75
74	MP1A	Z	64.163	3.75
75	MP1A	Mx	0	3.75
76	MP1B	X	0	1.75
77	MP1B	Z	32.614	1.75
78	MP1B	Mx	-.014	1.75
79	MP1B	X	0	3.75
80	MP1B	Z	32.614	3.75
81	MP1B	Mx	-.014	3.75
82	MP1C	X	0	1.75
83	MP1C	Z	32.614	1.75
84	MP1C	Mx	.014	1.75
85	MP1C	X	0	3.75
86	MP1C	Z	32.614	3.75
87	MP1C	Mx	.014	3.75
88	MP2A	X	0	2
89	MP2A	Z	123.907	2
90	MP2A	Mx	0	2
91	MP2A	X	0	5
92	MP2A	Z	123.907	5
93	MP2A	Mx	0	5
94	MP2B	X	0	2
95	MP2B	Z	82.022	2
96	MP2B	Mx	-.036	2
97	MP2B	X	0	5
98	MP2B	Z	82.022	5
99	MP2B	Mx	-.036	5
100	MP2C	X	0	2
101	MP2C	Z	82.022	2
102	MP2C	Mx	.036	2
103	MP2C	X	0	5
104	MP2C	Z	82.022	5
105	MP2C	Mx	.036	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-5.16	.25
2	MP3B	Z	8.937	.25
3	MP3B	Mx	.005	.25
4	MP3A	X	-63.345	2
5	MP3A	Z	109.716	2
6	MP3A	Mx	.096	2
7	MP3A	X	-63.345	7
8	MP3A	Z	109.716	7
9	MP3A	Mx	.096	7
10	MP3B	X	-29.954	2
11	MP3B	Z	51.881	2
12	MP3B	Mx	-.03	2
13	MP3B	X	-29.954	7
14	MP3B	Z	51.881	7
15	MP3B	Mx	-.03	7



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
16	MP3C	X	-63.345	2
17	MP3C	Z	109.716	2
18	MP3C	Mx	.096	2
19	MP3C	X	-63.345	7
20	MP3C	Z	109.716	7
21	MP3C	Mx	.096	7
22	MP3A	X	-63.345	2
23	MP3A	Z	109.716	2
24	MP3A	Mx	-.032	2
25	MP3A	X	-63.345	7
26	MP3A	Z	109.716	7
27	MP3A	Mx	-.032	7
28	MP3B	X	-29.954	2
29	MP3B	Z	51.881	2
30	MP3B	Mx	-.03	2
31	MP3B	X	-29.954	7
32	MP3B	Z	51.881	7
33	MP3B	Mx	-.03	7
34	MP3C	X	-63.345	2
35	MP3C	Z	109.716	2
36	MP3C	Mx	-.032	2
37	MP3C	X	-63.345	7
38	MP3C	Z	109.716	7
39	MP3C	Mx	-.032	7
40	MP3A	X	-5.59	4
41	MP3A	Z	9.682	4
42	MP3A	Mx	.000432	4
43	MP3B	X	-4.19	4
44	MP3B	Z	7.258	4
45	MP3B	Mx	.004	4
46	MP3C	X	-5.59	4
47	MP3C	Z	9.682	4
48	MP3C	Mx	-.006	4
49	OVP PIPE	X	-50.7	1
50	OVP PIPE	Z	87.816	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-23.284	4
53	MP3A	Z	40.329	4
54	MP3A	Mx	-.032	4
55	MP3B	X	-17.023	4
56	MP3B	Z	29.484	4
57	MP3B	Mx	.017	4
58	MP3C	X	-23.284	4
59	MP3C	Z	40.329	4
60	MP3C	Mx	.009	4
61	MP2A	X	-22.506	3
62	MP2A	Z	38.982	3
63	MP2A	Mx	-.011	3
64	MP2B	X	-13.913	3
65	MP2B	Z	24.098	3
66	MP2B	Mx	.014	3
67	MP2C	X	-22.506	3
68	MP2C	Z	38.982	3
69	MP2C	Mx	-.011	3
70	MP1A	X	-26.823	1.75
71	MP1A	Z	46.459	1.75
72	MP1A	Mx	.013	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP1A	X	-26.823	3.75
74	MP1A	Z	46.459	3.75
75	MP1A	Mx	.013	3.75
76	MP1B	X	-11.048	1.75
77	MP1B	Z	19.137	1.75
78	MP1B	Mx	-.011	1.75
79	MP1B	X	-11.048	3.75
80	MP1B	Z	19.137	3.75
81	MP1B	Mx	-.011	3.75
82	MP1C	X	-26.823	1.75
83	MP1C	Z	46.459	1.75
84	MP1C	Mx	.013	1.75
85	MP1C	X	-26.823	3.75
86	MP1C	Z	46.459	3.75
87	MP1C	Mx	.013	3.75
88	MP2A	X	-54.973	2
89	MP2A	Z	95.215	2
90	MP2A	Mx	.027	2
91	MP2A	X	-54.973	5
92	MP2A	Z	95.215	5
93	MP2A	Mx	.027	5
94	MP2B	X	-34.03	2
95	MP2B	Z	58.942	2
96	MP2B	Mx	-.034	2
97	MP2B	X	-34.03	5
98	MP2B	Z	58.942	5
99	MP2B	Mx	-.034	5
100	MP2C	X	-54.973	2
101	MP2C	Z	95.215	2
102	MP2C	Mx	.027	2
103	MP2C	X	-54.973	5
104	MP2C	Z	95.215	5
105	MP2C	Mx	.027	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-13.507	.25
2	MP3B	Z	7.798	.25
3	MP3B	Mx	.007	.25
4	MP3A	X	-71.16	2
5	MP3A	Z	41.084	2
6	MP3A	Mx	.06	2
7	MP3A	X	-71.16	7
8	MP3A	Z	41.084	7
9	MP3A	Mx	.06	7
10	MP3B	X	-71.16	2
11	MP3B	Z	41.084	2
12	MP3B	Mx	-.06	2
13	MP3B	X	-71.16	7
14	MP3B	Z	41.084	7
15	MP3B	Mx	-.06	7
16	MP3C	X	-128.995	2
17	MP3C	Z	74.475	2
18	MP3C	Mx	.087	2
19	MP3C	X	-128.995	7
20	MP3C	Z	74.475	7



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
21	MP3C	Mx	.087	7
22	MP3A	X	-71.16	2
23	MP3A	Z	41.084	2
24	MP3A	Mx	.012	2
25	MP3A	X	-71.16	7
26	MP3A	Z	41.084	7
27	MP3A	Mx	.012	7
28	MP3B	X	-71.16	2
29	MP3B	Z	41.084	2
30	MP3B	Mx	-.012	2
31	MP3B	X	-71.16	7
32	MP3B	Z	41.084	7
33	MP3B	Mx	-.012	7
34	MP3C	X	-128.995	2
35	MP3C	Z	74.475	2
36	MP3C	Mx	-.087	2
37	MP3C	X	-128.995	7
38	MP3C	Z	74.475	7
39	MP3C	Mx	-.087	7
40	MP3A	X	-8.066	4
41	MP3A	Z	4.657	4
42	MP3A	Mx	-.002	4
43	MP3B	X	-8.066	4
44	MP3B	Z	4.657	4
45	MP3B	Mx	.006	4
46	MP3C	X	-10.49	4
47	MP3C	Z	6.056	4
48	MP3C	Mx	-.004	4
49	OVP PIPE	X	-94.637	1
50	OVP PIPE	Z	54.639	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-33.099	4
53	MP3A	Z	19.11	4
54	MP3A	Mx	-.026	4
55	MP3B	X	-33.099	4
56	MP3B	Z	19.11	4
57	MP3B	Mx	.007	4
58	MP3C	X	-43.943	4
59	MP3C	Z	25.371	4
60	MP3C	Mx	.025	4
61	MP2A	X	-29.059	3
62	MP2A	Z	16.777	3
63	MP2A	Mx	-.015	3
64	MP2B	X	-29.059	3
65	MP2B	Z	16.777	3
66	MP2B	Mx	.015	3
67	MP2C	X	-43.943	3
68	MP2C	Z	25.371	3
69	MP2C	Mx	0	3
70	MP1A	X	-28.244	1.75
71	MP1A	Z	16.307	1.75
72	MP1A	Mx	.014	1.75
73	MP1A	X	-28.244	3.75
74	MP1A	Z	16.307	3.75
75	MP1A	Mx	.014	3.75
76	MP1B	X	-28.244	1.75
77	MP1B	Z	16.307	1.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP1B	Mx	-.014	1.75
79	MP1B	X	-28.244	3.75
80	MP1B	Z	16.307	3.75
81	MP1B	Mx	-.014	3.75
82	MP1C	X	-55.567	1.75
83	MP1C	Z	32.082	1.75
84	MP1C	Mx	0	1.75
85	MP1C	X	-55.567	3.75
86	MP1C	Z	32.082	3.75
87	MP1C	Mx	0	3.75
88	MP2A	X	-71.033	2
89	MP2A	Z	41.011	2
90	MP2A	Mx	.036	2
91	MP2A	X	-71.033	5
92	MP2A	Z	41.011	5
93	MP2A	Mx	.036	5
94	MP2B	X	-71.033	2
95	MP2B	Z	41.011	2
96	MP2B	Mx	-.036	2
97	MP2B	X	-71.033	5
98	MP2B	Z	41.011	5
99	MP2B	Mx	-.036	5
100	MP2C	X	-107.306	2
101	MP2C	Z	61.953	2
102	MP2C	Mx	0	2
103	MP2C	X	-107.306	5
104	MP2C	Z	61.953	5
105	MP2C	Mx	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-26.15	.25
2	MP3B	Z	0	.25
3	MP3B	Mx	.007	.25
4	MP3A	X	-59.907	2
5	MP3A	Z	0	2
6	MP3A	Mx	.03	2
7	MP3A	X	-59.907	7
8	MP3A	Z	0	7
9	MP3A	Mx	.03	7
10	MP3B	X	-126.689	2
11	MP3B	Z	0	2
12	MP3B	Mx	-.096	2
13	MP3B	X	-126.689	7
14	MP3B	Z	0	7
15	MP3B	Mx	-.096	7
16	MP3C	X	-126.689	2
17	MP3C	Z	0	2
18	MP3C	Mx	.032	2
19	MP3C	X	-126.689	7
20	MP3C	Z	0	7
21	MP3C	Mx	.032	7
22	MP3A	X	-59.907	2
23	MP3A	Z	0	2
24	MP3A	Mx	.03	2
25	MP3A	X	-59.907	7



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft,%)
26	MP3A	Z	0	7
27	MP3A	Mx	.03	7
28	MP3B	X	-126.689	2
29	MP3B	Z	0	2
30	MP3B	Mx	.032	2
31	MP3B	X	-126.689	7
32	MP3B	Z	0	7
33	MP3B	Mx	.032	7
34	MP3C	X	-126.689	2
35	MP3C	Z	0	2
36	MP3C	Mx	-.096	2
37	MP3C	X	-126.689	7
38	MP3C	Z	0	7
39	MP3C	Mx	-.096	7
40	MP3A	X	-8.38	4
41	MP3A	Z	0	4
42	MP3A	Mx	-.004	4
43	MP3B	X	-11.179	4
44	MP3B	Z	0	4
45	MP3B	Mx	.006	4
46	MP3C	X	-11.179	4
47	MP3C	Z	0	4
48	MP3C	Mx	-.000432	4
49	OVP PIPE	X	-125.032	1
50	OVP PIPE	Z	0	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-34.046	4
53	MP3A	Z	0	4
54	MP3A	Mx	-.017	4
55	MP3B	X	-46.567	4
56	MP3B	Z	0	4
57	MP3B	Mx	-.009	4
58	MP3C	X	-46.567	4
59	MP3C	Z	0	4
60	MP3C	Mx	.032	4
61	MP2A	X	-27.826	3
62	MP2A	Z	0	3
63	MP2A	Mx	-.014	3
64	MP2B	X	-45.012	3
65	MP2B	Z	0	3
66	MP2B	Mx	.011	3
67	MP2C	X	-45.012	3
68	MP2C	Z	0	3
69	MP2C	Mx	.011	3
70	MP1A	X	-22.097	1.75
71	MP1A	Z	0	1.75
72	MP1A	Mx	.011	1.75
73	MP1A	X	-22.097	3.75
74	MP1A	Z	0	3.75
75	MP1A	Mx	.011	3.75
76	MP1B	X	-53.647	1.75
77	MP1B	Z	0	1.75
78	MP1B	Mx	-.013	1.75
79	MP1B	X	-53.647	3.75
80	MP1B	Z	0	3.75
81	MP1B	Mx	-.013	3.75
82	MP1C	X	-53.647	1.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP1C	Z	0	1.75
84	MP1C	Mx	-.013	1.75
85	MP1C	X	-53.647	3.75
86	MP1C	Z	0	3.75
87	MP1C	Mx	-.013	3.75
88	MP2A	X	-68.06	2
89	MP2A	Z	0	2
90	MP2A	Mx	.034	2
91	MP2A	X	-68.06	5
92	MP2A	Z	0	5
93	MP2A	Mx	.034	5
94	MP2B	X	-109.945	2
95	MP2B	Z	0	2
96	MP2B	Mx	-.027	2
97	MP2B	X	-109.945	5
98	MP2B	Z	0	5
99	MP2B	Mx	-.027	5
100	MP2C	X	-109.945	2
101	MP2C	Z	0	2
102	MP2C	Mx	-.027	2
103	MP2C	X	-109.945	5
104	MP2C	Z	0	5
105	MP2C	Mx	-.027	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-27.216	.25
2	MP3B	Z	-15.713	.25
3	MP3B	Mx	0	.25
4	MP3A	X	-71.16	2
5	MP3A	Z	-41.084	2
6	MP3A	Mx	.012	2
7	MP3A	X	-71.16	7
8	MP3A	Z	-41.084	7
9	MP3A	Mx	.012	7
10	MP3B	X	-128.995	2
11	MP3B	Z	-74.475	2
12	MP3B	Mx	-.087	2
13	MP3B	X	-128.995	7
14	MP3B	Z	-74.475	7
15	MP3B	Mx	-.087	7
16	MP3C	X	-71.16	2
17	MP3C	Z	-41.084	2
18	MP3C	Mx	-.012	2
19	MP3C	X	-71.16	7
20	MP3C	Z	-41.084	7
21	MP3C	Mx	-.012	7
22	MP3A	X	-71.16	2
23	MP3A	Z	-41.084	2
24	MP3A	Mx	.06	2
25	MP3A	X	-71.16	7
26	MP3A	Z	-41.084	7
27	MP3A	Mx	.06	7
28	MP3B	X	-128.995	2
29	MP3B	Z	-74.475	2
30	MP3B	Mx	.087	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP3B	X	-128.995	7
32	MP3B	Z	-74.475	7
33	MP3B	Mx	.087	7
34	MP3C	X	-71.16	2
35	MP3C	Z	-41.084	2
36	MP3C	Mx	-.06	2
37	MP3C	X	-71.16	7
38	MP3C	Z	-41.084	7
39	MP3C	Mx	-.06	7
40	MP3A	X	-8.066	4
41	MP3A	Z	-4.657	4
42	MP3A	Mx	-.006	4
43	MP3B	X	-10.49	4
44	MP3B	Z	-6.056	4
45	MP3B	Mx	.004	4
46	MP3C	X	-8.066	4
47	MP3C	Z	-4.657	4
48	MP3C	Mx	.002	4
49	OVP PIPE	X	-115.103	1
50	OVP PIPE	Z	-66.455	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-33.099	4
53	MP3A	Z	-19.11	4
54	MP3A	Mx	-.007	4
55	MP3B	X	-43.943	4
56	MP3B	Z	-25.371	4
57	MP3B	Mx	-.025	4
58	MP3C	X	-33.099	4
59	MP3C	Z	-19.11	4
60	MP3C	Mx	.026	4
61	MP2A	X	-29.059	3
62	MP2A	Z	-16.777	3
63	MP2A	Mx	-.015	3
64	MP2B	X	-43.943	3
65	MP2B	Z	-25.371	3
66	MP2B	Mx	0	3
67	MP2C	X	-29.059	3
68	MP2C	Z	-16.777	3
69	MP2C	Mx	.015	3
70	MP1A	X	-28.244	1.75
71	MP1A	Z	-16.307	1.75
72	MP1A	Mx	.014	1.75
73	MP1A	X	-28.244	3.75
74	MP1A	Z	-16.307	3.75
75	MP1A	Mx	.014	3.75
76	MP1B	X	-55.567	1.75
77	MP1B	Z	-32.082	1.75
78	MP1B	Mx	0	1.75
79	MP1B	X	-55.567	3.75
80	MP1B	Z	-32.082	3.75
81	MP1B	Mx	0	3.75
82	MP1C	X	-28.244	1.75
83	MP1C	Z	-16.307	1.75
84	MP1C	Mx	-.014	1.75
85	MP1C	X	-28.244	3.75
86	MP1C	Z	-16.307	3.75
87	MP1C	Mx	-.014	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP2A	X	-71.033	2
89	MP2A	Z	-41.011	2
90	MP2A	Mx	.036	2
91	MP2A	X	-71.033	5
92	MP2A	Z	-41.011	5
93	MP2A	Mx	.036	5
94	MP2B	X	-107.306	2
95	MP2B	Z	-61.953	2
96	MP2B	Mx	0	2
97	MP2B	X	-107.306	5
98	MP2B	Z	-61.953	5
99	MP2B	Mx	0	5
100	MP2C	X	-71.033	2
101	MP2C	Z	-41.011	2
102	MP2C	Mx	-.036	2
103	MP2C	X	-71.033	5
104	MP2C	Z	-41.011	5
105	MP2C	Mx	-.036	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-13.075	.25
2	MP3B	Z	-22.646	.25
3	MP3B	Mx	-.007	.25
4	MP3A	X	-63.345	2
5	MP3A	Z	-109.716	2
6	MP3A	Mx	-.032	2
7	MP3A	X	-63.345	7
8	MP3A	Z	-109.716	7
9	MP3A	Mx	-.032	7
10	MP3B	X	-63.345	2
11	MP3B	Z	-109.716	2
12	MP3B	Mx	-.032	2
13	MP3B	X	-63.345	7
14	MP3B	Z	-109.716	7
15	MP3B	Mx	-.032	7
16	MP3C	X	-29.954	2
17	MP3C	Z	-51.881	2
18	MP3C	Mx	-.03	2
19	MP3C	X	-29.954	7
20	MP3C	Z	-51.881	7
21	MP3C	Mx	-.03	7
22	MP3A	X	-63.345	2
23	MP3A	Z	-109.716	2
24	MP3A	Mx	.096	2
25	MP3A	X	-63.345	7
26	MP3A	Z	-109.716	7
27	MP3A	Mx	.096	7
28	MP3B	X	-63.345	2
29	MP3B	Z	-109.716	2
30	MP3B	Mx	.096	2
31	MP3B	X	-63.345	7
32	MP3B	Z	-109.716	7
33	MP3B	Mx	.096	7
34	MP3C	X	-29.954	2
35	MP3C	Z	-51.881	2



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
36	MP3C	Mx	-.03	2
37	MP3C	X	-29.954	7
38	MP3C	Z	-51.881	7
39	MP3C	Mx	-.03	7
40	MP3A	X	-5.59	4
41	MP3A	Z	-9.682	4
42	MP3A	Mx	-.006	4
43	MP3B	X	-5.59	4
44	MP3B	Z	-9.682	4
45	MP3B	Mx	.000432	4
46	MP3C	X	-4.19	4
47	MP3C	Z	-7.258	4
48	MP3C	Mx	.004	4
49	OVP PIPE	X	-62.516	1
50	OVP PIPE	Z	-108.281	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-23.284	4
53	MP3A	Z	-40.329	4
54	MP3A	Mx	.009	4
55	MP3B	X	-23.284	4
56	MP3B	Z	-40.329	4
57	MP3B	Mx	-.032	4
58	MP3C	X	-17.023	4
59	MP3C	Z	-29.484	4
60	MP3C	Mx	.017	4
61	MP2A	X	-22.506	3
62	MP2A	Z	-38.982	3
63	MP2A	Mx	-.011	3
64	MP2B	X	-22.506	3
65	MP2B	Z	-38.982	3
66	MP2B	Mx	-.011	3
67	MP2C	X	-13.913	3
68	MP2C	Z	-24.098	3
69	MP2C	Mx	.014	3
70	MP1A	X	-26.823	1.75
71	MP1A	Z	-46.459	1.75
72	MP1A	Mx	.013	1.75
73	MP1A	X	-26.823	3.75
74	MP1A	Z	-46.459	3.75
75	MP1A	Mx	.013	3.75
76	MP1B	X	-26.823	1.75
77	MP1B	Z	-46.459	1.75
78	MP1B	Mx	.013	1.75
79	MP1B	X	-26.823	3.75
80	MP1B	Z	-46.459	3.75
81	MP1B	Mx	.013	3.75
82	MP1C	X	-11.048	1.75
83	MP1C	Z	-19.137	1.75
84	MP1C	Mx	-.011	1.75
85	MP1C	X	-11.048	3.75
86	MP1C	Z	-19.137	3.75
87	MP1C	Mx	-.011	3.75
88	MP2A	X	-54.973	2
89	MP2A	Z	-95.215	2
90	MP2A	Mx	.027	2
91	MP2A	X	-54.973	5
92	MP2A	Z	-95.215	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP2A	Mx	.027	5
94	MP2B	X	-54.973	2
95	MP2B	Z	-95.215	2
96	MP2B	Mx	.027	2
97	MP2B	X	-54.973	5
98	MP2B	Z	-95.215	5
99	MP2B	Mx	.027	5
100	MP2C	X	-34.03	2
101	MP2C	Z	-58.942	2
102	MP2C	Mx	-.034	2
103	MP2C	X	-34.03	5
104	MP2C	Z	-58.942	5
105	MP2C	Mx	-.034	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	0	.25
2	MP3B	Z	-4.233	.25
3	MP3B	Mx	-.002	.25
4	MP3A	X	0	2
5	MP3A	Z	-42.994	2
6	MP3A	Mx	-.025	2
7	MP3A	X	0	7
8	MP3A	Z	-42.994	7
9	MP3A	Mx	-.025	7
10	MP3B	X	0	2
11	MP3B	Z	-32.87	2
12	MP3B	Mx	.005	2
13	MP3B	X	0	7
14	MP3B	Z	-32.87	7
15	MP3B	Mx	.005	7
16	MP3C	X	0	2
17	MP3C	Z	-32.87	2
18	MP3C	Mx	-.024	2
19	MP3C	X	0	7
20	MP3C	Z	-32.87	7
21	MP3C	Mx	-.024	7
22	MP3A	X	0	2
23	MP3A	Z	-42.994	2
24	MP3A	Mx	.025	2
25	MP3A	X	0	7
26	MP3A	Z	-42.994	7
27	MP3A	Mx	.025	7
28	MP3B	X	0	2
29	MP3B	Z	-32.87	2
30	MP3B	Mx	.024	2
31	MP3B	X	0	7
32	MP3B	Z	-32.87	7
33	MP3B	Mx	.024	7
34	MP3C	X	0	2
35	MP3C	Z	-32.87	2
36	MP3C	Mx	-.005	2
37	MP3C	X	0	7
38	MP3C	Z	-32.87	7
39	MP3C	Mx	-.005	7
40	MP3A	X	0	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP3A	Z	-3.396	4
42	MP3A	Mx	-.001	4
43	MP3B	X	0	4
44	MP3B	Z	-2.764	4
45	MP3B	Mx	-.000736	4
46	MP3C	X	0	4
47	MP3C	Z	-2.764	4
48	MP3C	Mx	.002	4
49	OVP PIPE	X	0	1
50	OVP PIPE	Z	-23.897	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	0	4
53	MP3A	Z	-13.915	4
54	MP3A	Mx	.007	4
55	MP3B	X	0	4
56	MP3B	Z	-10.746	4
57	MP3B	Mx	-.007	4
58	MP3C	X	0	4
59	MP3C	Z	-10.746	4
60	MP3C	Mx	.002	4
61	MP2A	X	0	3
62	MP2A	Z	-13.915	3
63	MP2A	Mx	0	3
64	MP2B	X	0	3
65	MP2B	Z	-9.542	3
66	MP2B	Mx	-.004	3
67	MP2C	X	0	3
68	MP2C	Z	-9.542	3
69	MP2C	Mx	.004	3
70	MP1A	X	0	1.75
71	MP1A	Z	-16.484	1.75
72	MP1A	Mx	0	1.75
73	MP1A	X	0	3.75
74	MP1A	Z	-16.484	3.75
75	MP1A	Mx	0	3.75
76	MP1B	X	0	1.75
77	MP1B	Z	-9.4	1.75
78	MP1B	Mx	.004	1.75
79	MP1B	X	0	3.75
80	MP1B	Z	-9.4	3.75
81	MP1B	Mx	.004	3.75
82	MP1C	X	0	1.75
83	MP1C	Z	-9.4	1.75
84	MP1C	Mx	-.004	1.75
85	MP1C	X	0	3.75
86	MP1C	Z	-9.4	3.75
87	MP1C	Mx	-.004	3.75
88	MP2A	X	0	2
89	MP2A	Z	-26.009	2
90	MP2A	Mx	0	2
91	MP2A	X	0	5
92	MP2A	Z	-26.009	5
93	MP2A	Mx	0	5
94	MP2B	X	0	2
95	MP2B	Z	-17.949	2
96	MP2B	Mx	.008	2
97	MP2B	X	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
98	MP2B	Z	-17.949	5
99	MP2B	Mx	.008	5
100	MP2C	X	0	2
101	MP2C	Z	-17.949	2
102	MP2C	Mx	-.008	2
103	MP2C	X	0	5
104	MP2C	Z	-17.949	5
105	MP2C	Mx	-.008	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3B	X	1.545	.25
2	MP3B	Z	-2.676	.25
3	MP3B	Mx	-.002	.25
4	MP3A	X	19.81	2
5	MP3A	Z	-34.311	2
6	MP3A	Mx	-.03	2
7	MP3A	X	19.81	7
8	MP3A	Z	-34.311	7
9	MP3A	Mx	-.03	7
10	MP3B	X	14.748	2
11	MP3B	Z	-25.544	2
12	MP3B	Mx	.015	2
13	MP3B	X	14.748	7
14	MP3B	Z	-25.544	7
15	MP3B	Mx	.015	7
16	MP3C	X	19.81	2
17	MP3C	Z	-34.311	2
18	MP3C	Mx	-.03	2
19	MP3C	X	19.81	7
20	MP3C	Z	-34.311	7
21	MP3C	Mx	-.03	7
22	MP3A	X	19.81	2
23	MP3A	Z	-34.311	2
24	MP3A	Mx	.01	2
25	MP3A	X	19.81	7
26	MP3A	Z	-34.311	7
27	MP3A	Mx	.01	7
28	MP3B	X	14.748	2
29	MP3B	Z	-25.544	2
30	MP3B	Mx	.015	2
31	MP3B	X	14.748	7
32	MP3B	Z	-25.544	7
33	MP3B	Mx	.015	7
34	MP3C	X	19.81	2
35	MP3C	Z	-34.311	2
36	MP3C	Mx	.01	2
37	MP3C	X	19.81	7
38	MP3C	Z	-34.311	7
39	MP3C	Mx	.01	7
40	MP3A	X	1.593	4
41	MP3A	Z	-2.759	4
42	MP3A	Mx	-.000123	4
43	MP3B	X	1.277	4
44	MP3B	Z	-2.211	4
45	MP3B	Mx	-.001	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP3C	X	1.593	4
47	MP3C	Z	-2.759	4
48	MP3C	Mx	.002	4
49	OVP PIPE	X	11.172	1
50	OVP PIPE	Z	-19.351	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	6.429	4
53	MP3A	Z	-11.136	4
54	MP3A	Mx	.009	4
55	MP3B	X	4.845	4
56	MP3B	Z	-8.392	4
57	MP3B	Mx	-.005	4
58	MP3C	X	6.429	4
59	MP3C	Z	-11.136	4
60	MP3C	Mx	-.002	4
61	MP2A	X	6.229	3
62	MP2A	Z	-10.788	3
63	MP2A	Mx	.003	3
64	MP2B	X	4.042	3
65	MP2B	Z	-7.002	3
66	MP2B	Mx	-.004	3
67	MP2C	X	6.229	3
68	MP2C	Z	-10.788	3
69	MP2C	Mx	.003	3
70	MP1A	X	7.061	1.75
71	MP1A	Z	-12.231	1.75
72	MP1A	Mx	-.004	1.75
73	MP1A	X	7.061	3.75
74	MP1A	Z	-12.231	3.75
75	MP1A	Mx	-.004	3.75
76	MP1B	X	3.519	1.75
77	MP1B	Z	-6.096	1.75
78	MP1B	Mx	.004	1.75
79	MP1B	X	3.519	3.75
80	MP1B	Z	-6.096	3.75
81	MP1B	Mx	.004	3.75
82	MP1C	X	7.061	1.75
83	MP1C	Z	-12.231	1.75
84	MP1C	Mx	-.004	1.75
85	MP1C	X	7.061	3.75
86	MP1C	Z	-12.231	3.75
87	MP1C	Mx	-.004	3.75
88	MP2A	X	11.661	2
89	MP2A	Z	-20.198	2
90	MP2A	Mx	-.006	2
91	MP2A	X	11.661	5
92	MP2A	Z	-20.198	5
93	MP2A	Mx	-.006	5
94	MP2B	X	7.631	2
95	MP2B	Z	-13.218	2
96	MP2B	Mx	.008	2
97	MP2B	X	7.631	5
98	MP2B	Z	-13.218	5
99	MP2B	Mx	.008	5
100	MP2C	X	11.661	2
101	MP2C	Z	-20.198	2
102	MP2C	Mx	-.006	2





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
103	MP2C	X	11.661	5
104	MP2C	Z	-20.198	5
105	MP2C	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3B	X	3.666	.25
2	MP3B	Z	-2.116	.25
3	MP3B	Mx	-.002	.25
4	MP3A	X	28.467	2
5	MP3A	Z	-16.435	2
6	MP3A	Mx	-.024	2
7	MP3A	X	28.467	7
8	MP3A	Z	-16.435	7
9	MP3A	Mx	-.024	7
10	MP3B	X	28.467	2
11	MP3B	Z	-16.435	2
12	MP3B	Mx	.024	2
13	MP3B	X	28.467	7
14	MP3B	Z	-16.435	7
15	MP3B	Mx	.024	7
16	MP3C	X	37.234	2
17	MP3C	Z	-21.497	2
18	MP3C	Mx	-.025	2
19	MP3C	X	37.234	7
20	MP3C	Z	-21.497	7
21	MP3C	Mx	-.025	7
22	MP3A	X	28.467	2
23	MP3A	Z	-16.435	2
24	MP3A	Mx	-.005	2
25	MP3A	X	28.467	7
26	MP3A	Z	-16.435	7
27	MP3A	Mx	-.005	7
28	MP3B	X	28.467	2
29	MP3B	Z	-16.435	2
30	MP3B	Mx	.005	2
31	MP3B	X	28.467	7
32	MP3B	Z	-16.435	7
33	MP3B	Mx	.005	7
34	MP3C	X	37.234	2
35	MP3C	Z	-21.497	2
36	MP3C	Mx	.025	2
37	MP3C	X	37.234	7
38	MP3C	Z	-21.497	7
39	MP3C	Mx	.025	7
40	MP3A	X	2.394	4
41	MP3A	Z	-1.382	4
42	MP3A	Mx	.000736	4
43	MP3B	X	2.394	4
44	MP3B	Z	-1.382	4
45	MP3B	Mx	-.002	4
46	MP3C	X	2.941	4
47	MP3C	Z	-1.698	4
48	MP3C	Mx	.001	4
49	OVP PIPE	X	20.695	1
50	OVP PIPE	Z	-11.948	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	OVP PIPE	Mx	0	1
52	MP3A	X	9.307	4
53	MP3A	Z	-5.373	4
54	MP3A	Mx	.007	4
55	MP3B	X	9.307	4
56	MP3B	Z	-5.373	4
57	MP3B	Mx	-.002	4
58	MP3C	X	12.051	4
59	MP3C	Z	-6.957	4
60	MP3C	Mx	-.007	4
61	MP2A	X	8.264	3
62	MP2A	Z	-4.771	3
63	MP2A	Mx	.004	3
64	MP2B	X	8.264	3
65	MP2B	Z	-4.771	3
66	MP2B	Mx	-.004	3
67	MP2C	X	12.051	3
68	MP2C	Z	-6.957	3
69	MP2C	Mx	0	3
70	MP1A	X	8.141	1.75
71	MP1A	Z	-4.7	1.75
72	MP1A	Mx	-.004	1.75
73	MP1A	X	8.141	3.75
74	MP1A	Z	-4.7	3.75
75	MP1A	Mx	-.004	3.75
76	MP1B	X	8.141	1.75
77	MP1B	Z	-4.7	1.75
78	MP1B	Mx	.004	1.75
79	MP1B	X	8.141	3.75
80	MP1B	Z	-4.7	3.75
81	MP1B	Mx	.004	3.75
82	MP1C	X	14.276	1.75
83	MP1C	Z	-8.242	1.75
84	MP1C	Mx	0	1.75
85	MP1C	X	14.276	3.75
86	MP1C	Z	-8.242	3.75
87	MP1C	Mx	0	3.75
88	MP2A	X	15.544	2
89	MP2A	Z	-8.975	2
90	MP2A	Mx	-.008	2
91	MP2A	X	15.544	5
92	MP2A	Z	-8.975	5
93	MP2A	Mx	-.008	5
94	MP2B	X	15.544	2
95	MP2B	Z	-8.975	2
96	MP2B	Mx	.008	2
97	MP2B	X	15.544	5
98	MP2B	Z	-8.975	5
99	MP2B	Mx	.008	5
100	MP2C	X	22.524	2
101	MP2C	Z	-13.004	2
102	MP2C	Mx	0	2
103	MP2C	X	22.524	5
104	MP2C	Z	-13.004	5
105	MP2C	Mx	0	5



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
1	MP3B	X	6.52	.25
2	MP3B	Z	0	.25
3	MP3B	Mx	-.002	.25
4	MP3A	X	29.496	2
5	MP3A	Z	0	2
6	MP3A	Mx	-.015	2
7	MP3A	X	29.496	7
8	MP3A	Z	0	7
9	MP3A	Mx	-.015	7
10	MP3B	X	39.619	2
11	MP3B	Z	0	2
12	MP3B	Mx	.03	2
13	MP3B	X	39.619	7
14	MP3B	Z	0	7
15	MP3B	Mx	.03	7
16	MP3C	X	39.619	2
17	MP3C	Z	0	2
18	MP3C	Mx	-.01	2
19	MP3C	X	39.619	7
20	MP3C	Z	0	7
21	MP3C	Mx	-.01	7
22	MP3A	X	29.496	2
23	MP3A	Z	0	2
24	MP3A	Mx	-.015	2
25	MP3A	X	29.496	7
26	MP3A	Z	0	7
27	MP3A	Mx	-.015	7
28	MP3B	X	39.619	2
29	MP3B	Z	0	2
30	MP3B	Mx	-.01	2
31	MP3B	X	39.619	7
32	MP3B	Z	0	7
33	MP3B	Mx	-.01	7
34	MP3C	X	39.619	2
35	MP3C	Z	0	2
36	MP3C	Mx	.03	2
37	MP3C	X	39.619	7
38	MP3C	Z	0	7
39	MP3C	Mx	.03	7
40	MP3A	X	2.553	4
41	MP3A	Z	0	4
42	MP3A	Mx	.001	4
43	MP3B	X	3.186	4
44	MP3B	Z	0	4
45	MP3B	Mx	-.002	4
46	MP3C	X	3.186	4
47	MP3C	Z	0	4
48	MP3C	Mx	.000123	4
49	OVP PIPE	X	27.003	1
50	OVP PIPE	Z	0	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	9.69	4
53	MP3A	Z	0	4
54	MP3A	Mx	.005	4
55	MP3B	X	12.859	4
56	MP3B	Z	0	4
57	MP3B	Mx	.002	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP3C	X	12.859	4
59	MP3C	Z	0	4
60	MP3C	Mx	-.009	4
61	MP2A	X	8.085	3
62	MP2A	Z	0	3
63	MP2A	Mx	.004	3
64	MP2B	X	12.457	3
65	MP2B	Z	0	3
66	MP2B	Mx	-.003	3
67	MP2C	X	12.457	3
68	MP2C	Z	0	3
69	MP2C	Mx	-.003	3
70	MP1A	X	7.039	1.75
71	MP1A	Z	0	1.75
72	MP1A	Mx	-.004	1.75
73	MP1A	X	7.039	3.75
74	MP1A	Z	0	3.75
75	MP1A	Mx	-.004	3.75
76	MP1B	X	14.123	1.75
77	MP1B	Z	0	1.75
78	MP1B	Mx	.004	1.75
79	MP1B	X	14.123	3.75
80	MP1B	Z	0	3.75
81	MP1B	Mx	.004	3.75
82	MP1C	X	14.123	1.75
83	MP1C	Z	0	1.75
84	MP1C	Mx	.004	1.75
85	MP1C	X	14.123	3.75
86	MP1C	Z	0	3.75
87	MP1C	Mx	.004	3.75
88	MP2A	X	15.263	2
89	MP2A	Z	0	2
90	MP2A	Mx	-.008	2
91	MP2A	X	15.263	5
92	MP2A	Z	0	5
93	MP2A	Mx	-.008	5
94	MP2B	X	23.322	2
95	MP2B	Z	0	2
96	MP2B	Mx	.006	2
97	MP2B	X	23.322	5
98	MP2B	Z	0	5
99	MP2B	Mx	.006	5
100	MP2C	X	23.322	2
101	MP2C	Z	0	2
102	MP2C	Mx	.006	2
103	MP2C	X	23.322	5
104	MP2C	Z	0	5
105	MP2C	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	6.636	.25
2	MP3B	Z	3.832	.25
3	MP3B	Mx	0	.25
4	MP3A	X	28.467	2
5	MP3A	Z	16.435	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-.005	2
7	MP3A	X	28.467	7
8	MP3A	Z	16.435	7
9	MP3A	Mx	-.005	7
10	MP3B	X	37.234	2
11	MP3B	Z	21.497	2
12	MP3B	Mx	.025	2
13	MP3B	X	37.234	7
14	MP3B	Z	21.497	7
15	MP3B	Mx	.025	7
16	MP3C	X	28.467	2
17	MP3C	Z	16.435	2
18	MP3C	Mx	.005	2
19	MP3C	X	28.467	7
20	MP3C	Z	16.435	7
21	MP3C	Mx	.005	7
22	MP3A	X	28.467	2
23	MP3A	Z	16.435	2
24	MP3A	Mx	-.024	2
25	MP3A	X	28.467	7
26	MP3A	Z	16.435	7
27	MP3A	Mx	-.024	7
28	MP3B	X	37.234	2
29	MP3B	Z	21.497	2
30	MP3B	Mx	-.025	2
31	MP3B	X	37.234	7
32	MP3B	Z	21.497	7
33	MP3B	Mx	-.025	7
34	MP3C	X	28.467	2
35	MP3C	Z	16.435	2
36	MP3C	Mx	.024	2
37	MP3C	X	28.467	7
38	MP3C	Z	16.435	7
39	MP3C	Mx	.024	7
40	MP3A	X	2.394	4
41	MP3A	Z	1.382	4
42	MP3A	Mx	.002	4
43	MP3B	X	2.941	4
44	MP3B	Z	1.698	4
45	MP3B	Mx	-.001	4
46	MP3C	X	2.394	4
47	MP3C	Z	1.382	4
48	MP3C	Mx	-.000736	4
49	OVP PIPE	X	24.73	1
50	OVP PIPE	Z	14.278	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	9.307	4
53	MP3A	Z	5.373	4
54	MP3A	Mx	.002	4
55	MP3B	X	12.051	4
56	MP3B	Z	6.957	4
57	MP3B	Mx	.007	4
58	MP3C	X	9.307	4
59	MP3C	Z	5.373	4
60	MP3C	Mx	-.007	4
61	MP2A	X	8.264	3
62	MP2A	Z	4.771	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP2A	Mx	.004	3
64	MP2B	X	12.051	3
65	MP2B	Z	6.957	3
66	MP2B	Mx	0	3
67	MP2C	X	8.264	3
68	MP2C	Z	4.771	3
69	MP2C	Mx	-.004	3
70	MP1A	X	8.141	1.75
71	MP1A	Z	4.7	1.75
72	MP1A	Mx	-.004	1.75
73	MP1A	X	8.141	3.75
74	MP1A	Z	4.7	3.75
75	MP1A	Mx	-.004	3.75
76	MP1B	X	14.276	1.75
77	MP1B	Z	8.242	1.75
78	MP1B	Mx	0	1.75
79	MP1B	X	14.276	3.75
80	MP1B	Z	8.242	3.75
81	MP1B	Mx	0	3.75
82	MP1C	X	8.141	1.75
83	MP1C	Z	4.7	1.75
84	MP1C	Mx	.004	1.75
85	MP1C	X	8.141	3.75
86	MP1C	Z	4.7	3.75
87	MP1C	Mx	.004	3.75
88	MP2A	X	15.544	2
89	MP2A	Z	8.975	2
90	MP2A	Mx	-.008	2
91	MP2A	X	15.544	5
92	MP2A	Z	8.975	5
93	MP2A	Mx	-.008	5
94	MP2B	X	22.524	2
95	MP2B	Z	13.004	2
96	MP2B	Mx	0	2
97	MP2B	X	22.524	5
98	MP2B	Z	13.004	5
99	MP2B	Mx	0	5
100	MP2C	X	15.544	2
101	MP2C	Z	8.975	2
102	MP2C	Mx	.008	2
103	MP2C	X	15.544	5
104	MP2C	Z	8.975	5
105	MP2C	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	3.26	.25
2	MP3B	Z	5.646	.25
3	MP3B	Mx	.002	.25
4	MP3A	X	19.81	2
5	MP3A	Z	34.311	2
6	MP3A	Mx	.01	2
7	MP3A	X	19.81	7
8	MP3A	Z	34.311	7
9	MP3A	Mx	.01	7
10	MP3B	X	19.81	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP3B	Z	34.311	2
12	MP3B	Mx	.01	2
13	MP3B	X	19.81	7
14	MP3B	Z	34.311	7
15	MP3B	Mx	.01	7
16	MP3C	X	14.748	2
17	MP3C	Z	25.544	2
18	MP3C	Mx	.015	2
19	MP3C	X	14.748	7
20	MP3C	Z	25.544	7
21	MP3C	Mx	.015	7
22	MP3A	X	19.81	2
23	MP3A	Z	34.311	2
24	MP3A	Mx	-.03	2
25	MP3A	X	19.81	7
26	MP3A	Z	34.311	7
27	MP3A	Mx	-.03	7
28	MP3B	X	19.81	2
29	MP3B	Z	34.311	2
30	MP3B	Mx	-.03	2
31	MP3B	X	19.81	7
32	MP3B	Z	34.311	7
33	MP3B	Mx	-.03	7
34	MP3C	X	14.748	2
35	MP3C	Z	25.544	2
36	MP3C	Mx	.015	2
37	MP3C	X	14.748	7
38	MP3C	Z	25.544	7
39	MP3C	Mx	.015	7
40	MP3A	X	1.593	4
41	MP3A	Z	2.759	4
42	MP3A	Mx	.002	4
43	MP3B	X	1.593	4
44	MP3B	Z	2.759	4
45	MP3B	Mx	-.000123	4
46	MP3C	X	1.277	4
47	MP3C	Z	2.211	4
48	MP3C	Mx	-.001	4
49	OVP PIPE	X	13.501	1
50	OVP PIPE	Z	23.385	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	6.429	4
53	MP3A	Z	11.136	4
54	MP3A	Mx	-.002	4
55	MP3B	X	6.429	4
56	MP3B	Z	11.136	4
57	MP3B	Mx	.009	4
58	MP3C	X	4.845	4
59	MP3C	Z	8.392	4
60	MP3C	Mx	-.005	4
61	MP2A	X	6.229	3
62	MP2A	Z	10.788	3
63	MP2A	Mx	.003	3
64	MP2B	X	6.229	3
65	MP2B	Z	10.788	3
66	MP2B	Mx	.003	3
67	MP2C	X	4.042	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP2C	Z	7.002	3
69	MP2C	Mx	-.004	3
70	MP1A	X	7.061	1.75
71	MP1A	Z	12.231	1.75
72	MP1A	Mx	-.004	1.75
73	MP1A	X	7.061	3.75
74	MP1A	Z	12.231	3.75
75	MP1A	Mx	-.004	3.75
76	MP1B	X	7.061	1.75
77	MP1B	Z	12.231	1.75
78	MP1B	Mx	-.004	1.75
79	MP1B	X	7.061	3.75
80	MP1B	Z	12.231	3.75
81	MP1B	Mx	-.004	3.75
82	MP1C	X	3.519	1.75
83	MP1C	Z	6.096	1.75
84	MP1C	Mx	.004	1.75
85	MP1C	X	3.519	3.75
86	MP1C	Z	6.096	3.75
87	MP1C	Mx	.004	3.75
88	MP2A	X	11.661	2
89	MP2A	Z	20.198	2
90	MP2A	Mx	-.006	2
91	MP2A	X	11.661	5
92	MP2A	Z	20.198	5
93	MP2A	Mx	-.006	5
94	MP2B	X	11.661	2
95	MP2B	Z	20.198	2
96	MP2B	Mx	-.006	2
97	MP2B	X	11.661	5
98	MP2B	Z	20.198	5
99	MP2B	Mx	-.006	5
100	MP2C	X	7.631	2
101	MP2C	Z	13.218	2
102	MP2C	Mx	.008	2
103	MP2C	X	7.631	5
104	MP2C	Z	13.218	5
105	MP2C	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	0	.25
2	MP3B	Z	4.233	.25
3	MP3B	Mx	.002	.25
4	MP3A	X	0	2
5	MP3A	Z	42.994	2
6	MP3A	Mx	.025	2
7	MP3A	X	0	7
8	MP3A	Z	42.994	7
9	MP3A	Mx	.025	7
10	MP3B	X	0	2
11	MP3B	Z	32.87	2
12	MP3B	Mx	-.005	2
13	MP3B	X	0	7
14	MP3B	Z	32.87	7
15	MP3B	Mx	-.005	7





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP3C	X	0	2
17	MP3C	Z	32.87	2
18	MP3C	Mx	.024	2
19	MP3C	X	0	7
20	MP3C	Z	32.87	7
21	MP3C	Mx	.024	7
22	MP3A	X	0	2
23	MP3A	Z	42.994	2
24	MP3A	Mx	-.025	2
25	MP3A	X	0	7
26	MP3A	Z	42.994	7
27	MP3A	Mx	-.025	7
28	MP3B	X	0	2
29	MP3B	Z	32.87	2
30	MP3B	Mx	-.024	2
31	MP3B	X	0	7
32	MP3B	Z	32.87	7
33	MP3B	Mx	-.024	7
34	MP3C	X	0	2
35	MP3C	Z	32.87	2
36	MP3C	Mx	.005	2
37	MP3C	X	0	7
38	MP3C	Z	32.87	7
39	MP3C	Mx	.005	7
40	MP3A	X	0	4
41	MP3A	Z	3.396	4
42	MP3A	Mx	.001	4
43	MP3B	X	0	4
44	MP3B	Z	2.764	4
45	MP3B	Mx	.000736	4
46	MP3C	X	0	4
47	MP3C	Z	2.764	4
48	MP3C	Mx	-.002	4
49	OVP PIPE	X	0	1
50	OVP PIPE	Z	23.897	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	0	4
53	MP3A	Z	13.915	4
54	MP3A	Mx	-.007	4
55	MP3B	X	0	4
56	MP3B	Z	10.746	4
57	MP3B	Mx	.007	4
58	MP3C	X	0	4
59	MP3C	Z	10.746	4
60	MP3C	Mx	-.002	4
61	MP2A	X	0	3
62	MP2A	Z	13.915	3
63	MP2A	Mx	0	3
64	MP2B	X	0	3
65	MP2B	Z	9.542	3
66	MP2B	Mx	.004	3
67	MP2C	X	0	3
68	MP2C	Z	9.542	3
69	MP2C	Mx	-.004	3
70	MP1A	X	0	1.75
71	MP1A	Z	16.484	1.75
72	MP1A	Mx	0	1.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP1A	X	0	3.75
74	MP1A	Z	16.484	3.75
75	MP1A	Mx	0	3.75
76	MP1B	X	0	1.75
77	MP1B	Z	9.4	1.75
78	MP1B	Mx	-.004	1.75
79	MP1B	X	0	3.75
80	MP1B	Z	9.4	3.75
81	MP1B	Mx	-.004	3.75
82	MP1C	X	0	1.75
83	MP1C	Z	9.4	1.75
84	MP1C	Mx	.004	1.75
85	MP1C	X	0	3.75
86	MP1C	Z	9.4	3.75
87	MP1C	Mx	.004	3.75
88	MP2A	X	0	2
89	MP2A	Z	26.009	2
90	MP2A	Mx	0	2
91	MP2A	X	0	5
92	MP2A	Z	26.009	5
93	MP2A	Mx	0	5
94	MP2B	X	0	2
95	MP2B	Z	17.949	2
96	MP2B	Mx	-.008	2
97	MP2B	X	0	5
98	MP2B	Z	17.949	5
99	MP2B	Mx	-.008	5
100	MP2C	X	0	2
101	MP2C	Z	17.949	2
102	MP2C	Mx	.008	2
103	MP2C	X	0	5
104	MP2C	Z	17.949	5
105	MP2C	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-1.545	.25
2	MP3B	Z	2.676	.25
3	MP3B	Mx	.002	.25
4	MP3A	X	-19.81	2
5	MP3A	Z	34.311	2
6	MP3A	Mx	.03	2
7	MP3A	X	-19.81	7
8	MP3A	Z	34.311	7
9	MP3A	Mx	.03	7
10	MP3B	X	-14.748	2
11	MP3B	Z	25.544	2
12	MP3B	Mx	-.015	2
13	MP3B	X	-14.748	7
14	MP3B	Z	25.544	7
15	MP3B	Mx	-.015	7
16	MP3C	X	-19.81	2
17	MP3C	Z	34.311	2
18	MP3C	Mx	.03	2
19	MP3C	X	-19.81	7
20	MP3C	Z	34.311	7



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	MP3C	Mx	.03	7
22	MP3A	X	-19.81	2
23	MP3A	Z	34.311	2
24	MP3A	Mx	-.01	2
25	MP3A	X	-19.81	7
26	MP3A	Z	34.311	7
27	MP3A	Mx	-.01	7
28	MP3B	X	-14.748	2
29	MP3B	Z	25.544	2
30	MP3B	Mx	-.015	2
31	MP3B	X	-14.748	7
32	MP3B	Z	25.544	7
33	MP3B	Mx	-.015	7
34	MP3C	X	-19.81	2
35	MP3C	Z	34.311	2
36	MP3C	Mx	-.01	2
37	MP3C	X	-19.81	7
38	MP3C	Z	34.311	7
39	MP3C	Mx	-.01	7
40	MP3A	X	-1.593	4
41	MP3A	Z	2.759	4
42	MP3A	Mx	.000123	4
43	MP3B	X	-1.277	4
44	MP3B	Z	2.211	4
45	MP3B	Mx	.001	4
46	MP3C	X	-1.593	4
47	MP3C	Z	2.759	4
48	MP3C	Mx	-.002	4
49	OVP PIPE	X	-11.172	1
50	OVP PIPE	Z	19.351	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-6.429	4
53	MP3A	Z	11.136	4
54	MP3A	Mx	-.009	4
55	MP3B	X	-4.845	4
56	MP3B	Z	8.392	4
57	MP3B	Mx	.005	4
58	MP3C	X	-6.429	4
59	MP3C	Z	11.136	4
60	MP3C	Mx	.002	4
61	MP2A	X	-6.229	3
62	MP2A	Z	10.788	3
63	MP2A	Mx	-.003	3
64	MP2B	X	-4.042	3
65	MP2B	Z	7.002	3
66	MP2B	Mx	.004	3
67	MP2C	X	-6.229	3
68	MP2C	Z	10.788	3
69	MP2C	Mx	-.003	3
70	MP1A	X	-7.061	1.75
71	MP1A	Z	12.231	1.75
72	MP1A	Mx	.004	1.75
73	MP1A	X	-7.061	3.75
74	MP1A	Z	12.231	3.75
75	MP1A	Mx	.004	3.75
76	MP1B	X	-3.519	1.75
77	MP1B	Z	6.096	1.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP1B	Mx	-.004	1.75
79	MP1B	X	-3.519	3.75
80	MP1B	Z	6.096	3.75
81	MP1B	Mx	-.004	3.75
82	MP1C	X	-7.061	1.75
83	MP1C	Z	12.231	1.75
84	MP1C	Mx	.004	1.75
85	MP1C	X	-7.061	3.75
86	MP1C	Z	12.231	3.75
87	MP1C	Mx	.004	3.75
88	MP2A	X	-11.661	2
89	MP2A	Z	20.198	2
90	MP2A	Mx	.006	2
91	MP2A	X	-11.661	5
92	MP2A	Z	20.198	5
93	MP2A	Mx	.006	5
94	MP2B	X	-7.631	2
95	MP2B	Z	13.218	2
96	MP2B	Mx	-.008	2
97	MP2B	X	-7.631	5
98	MP2B	Z	13.218	5
99	MP2B	Mx	-.008	5
100	MP2C	X	-11.661	2
101	MP2C	Z	20.198	2
102	MP2C	Mx	.006	2
103	MP2C	X	-11.661	5
104	MP2C	Z	20.198	5
105	MP2C	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-3.666	.25
2	MP3B	Z	2.116	.25
3	MP3B	Mx	.002	.25
4	MP3A	X	-28.467	2
5	MP3A	Z	16.435	2
6	MP3A	Mx	.024	2
7	MP3A	X	-28.467	7
8	MP3A	Z	16.435	7
9	MP3A	Mx	.024	7
10	MP3B	X	-28.467	2
11	MP3B	Z	16.435	2
12	MP3B	Mx	-.024	2
13	MP3B	X	-28.467	7
14	MP3B	Z	16.435	7
15	MP3B	Mx	-.024	7
16	MP3C	X	-37.234	2
17	MP3C	Z	21.497	2
18	MP3C	Mx	.025	2
19	MP3C	X	-37.234	7
20	MP3C	Z	21.497	7
21	MP3C	Mx	.025	7
22	MP3A	X	-28.467	2
23	MP3A	Z	16.435	2
24	MP3A	Mx	.005	2
25	MP3A	X	-28.467	7



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
26	MP3A	Z	16.435	7
27	MP3A	Mx	.005	7
28	MP3B	X	-28.467	2
29	MP3B	Z	16.435	2
30	MP3B	Mx	-.005	2
31	MP3B	X	-28.467	7
32	MP3B	Z	16.435	7
33	MP3B	Mx	-.005	7
34	MP3C	X	-37.234	2
35	MP3C	Z	21.497	2
36	MP3C	Mx	-.025	2
37	MP3C	X	-37.234	7
38	MP3C	Z	21.497	7
39	MP3C	Mx	-.025	7
40	MP3A	X	-2.394	4
41	MP3A	Z	1.382	4
42	MP3A	Mx	-.000736	4
43	MP3B	X	-2.394	4
44	MP3B	Z	1.382	4
45	MP3B	Mx	.002	4
46	MP3C	X	-2.941	4
47	MP3C	Z	1.698	4
48	MP3C	Mx	-.001	4
49	OVP PIPE	X	-20.695	1
50	OVP PIPE	Z	11.948	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-9.307	4
53	MP3A	Z	5.373	4
54	MP3A	Mx	-.007	4
55	MP3B	X	-9.307	4
56	MP3B	Z	5.373	4
57	MP3B	Mx	.002	4
58	MP3C	X	-12.051	4
59	MP3C	Z	6.957	4
60	MP3C	Mx	.007	4
61	MP2A	X	-8.264	3
62	MP2A	Z	4.771	3
63	MP2A	Mx	-.004	3
64	MP2B	X	-8.264	3
65	MP2B	Z	4.771	3
66	MP2B	Mx	.004	3
67	MP2C	X	-12.051	3
68	MP2C	Z	6.957	3
69	MP2C	Mx	0	3
70	MP1A	X	-8.141	1.75
71	MP1A	Z	4.7	1.75
72	MP1A	Mx	.004	1.75
73	MP1A	X	-8.141	3.75
74	MP1A	Z	4.7	3.75
75	MP1A	Mx	.004	3.75
76	MP1B	X	-8.141	1.75
77	MP1B	Z	4.7	1.75
78	MP1B	Mx	-.004	1.75
79	MP1B	X	-8.141	3.75
80	MP1B	Z	4.7	3.75
81	MP1B	Mx	-.004	3.75
82	MP1C	X	-14.276	1.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP1C	Z	8.242	1.75
84	MP1C	Mx	0	1.75
85	MP1C	X	-14.276	3.75
86	MP1C	Z	8.242	3.75
87	MP1C	Mx	0	3.75
88	MP2A	X	-15.544	2
89	MP2A	Z	8.975	2
90	MP2A	Mx	.008	2
91	MP2A	X	-15.544	5
92	MP2A	Z	8.975	5
93	MP2A	Mx	.008	5
94	MP2B	X	-15.544	2
95	MP2B	Z	8.975	2
96	MP2B	Mx	-.008	2
97	MP2B	X	-15.544	5
98	MP2B	Z	8.975	5
99	MP2B	Mx	-.008	5
100	MP2C	X	-22.524	2
101	MP2C	Z	13.004	2
102	MP2C	Mx	0	2
103	MP2C	X	-22.524	5
104	MP2C	Z	13.004	5
105	MP2C	Mx	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-6.52	.25
2	MP3B	Z	0	.25
3	MP3B	Mx	.002	.25
4	MP3A	X	-29.496	2
5	MP3A	Z	0	2
6	MP3A	Mx	.015	2
7	MP3A	X	-29.496	7
8	MP3A	Z	0	7
9	MP3A	Mx	.015	7
10	MP3B	X	-39.619	2
11	MP3B	Z	0	2
12	MP3B	Mx	-.03	2
13	MP3B	X	-39.619	7
14	MP3B	Z	0	7
15	MP3B	Mx	-.03	7
16	MP3C	X	-39.619	2
17	MP3C	Z	0	2
18	MP3C	Mx	.01	2
19	MP3C	X	-39.619	7
20	MP3C	Z	0	7
21	MP3C	Mx	.01	7
22	MP3A	X	-29.496	2
23	MP3A	Z	0	2
24	MP3A	Mx	.015	2
25	MP3A	X	-29.496	7
26	MP3A	Z	0	7
27	MP3A	Mx	.015	7
28	MP3B	X	-39.619	2
29	MP3B	Z	0	2
30	MP3B	Mx	.01	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
31	MP3B	X	-39.619	7
32	MP3B	Z	0	7
33	MP3B	Mx	.01	7
34	MP3C	X	-39.619	2
35	MP3C	Z	0	2
36	MP3C	Mx	-.03	2
37	MP3C	X	-39.619	7
38	MP3C	Z	0	7
39	MP3C	Mx	-.03	7
40	MP3A	X	-2.553	4
41	MP3A	Z	0	4
42	MP3A	Mx	-.001	4
43	MP3B	X	-3.186	4
44	MP3B	Z	0	4
45	MP3B	Mx	.002	4
46	MP3C	X	-3.186	4
47	MP3C	Z	0	4
48	MP3C	Mx	-.000123	4
49	OVP PIPE	X	-27.003	1
50	OVP PIPE	Z	0	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-9.69	4
53	MP3A	Z	0	4
54	MP3A	Mx	-.005	4
55	MP3B	X	-12.859	4
56	MP3B	Z	0	4
57	MP3B	Mx	-.002	4
58	MP3C	X	-12.859	4
59	MP3C	Z	0	4
60	MP3C	Mx	.009	4
61	MP2A	X	-8.085	3
62	MP2A	Z	0	3
63	MP2A	Mx	-.004	3
64	MP2B	X	-12.457	3
65	MP2B	Z	0	3
66	MP2B	Mx	.003	3
67	MP2C	X	-12.457	3
68	MP2C	Z	0	3
69	MP2C	Mx	.003	3
70	MP1A	X	-7.039	1.75
71	MP1A	Z	0	1.75
72	MP1A	Mx	.004	1.75
73	MP1A	X	-7.039	3.75
74	MP1A	Z	0	3.75
75	MP1A	Mx	.004	3.75
76	MP1B	X	-14.123	1.75
77	MP1B	Z	0	1.75
78	MP1B	Mx	-.004	1.75
79	MP1B	X	-14.123	3.75
80	MP1B	Z	0	3.75
81	MP1B	Mx	-.004	3.75
82	MP1C	X	-14.123	1.75
83	MP1C	Z	0	1.75
84	MP1C	Mx	-.004	1.75
85	MP1C	X	-14.123	3.75
86	MP1C	Z	0	3.75
87	MP1C	Mx	-.004	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP2A	X	-15.263	2
89	MP2A	Z	0	2
90	MP2A	Mx	.008	2
91	MP2A	X	-15.263	5
92	MP2A	Z	0	5
93	MP2A	Mx	.008	5
94	MP2B	X	-23.322	2
95	MP2B	Z	0	2
96	MP2B	Mx	-.006	2
97	MP2B	X	-23.322	5
98	MP2B	Z	0	5
99	MP2B	Mx	-.006	5
100	MP2C	X	-23.322	2
101	MP2C	Z	0	2
102	MP2C	Mx	-.006	2
103	MP2C	X	-23.322	5
104	MP2C	Z	0	5
105	MP2C	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-6.636	.25
2	MP3B	Z	-3.832	.25
3	MP3B	Mx	0	.25
4	MP3A	X	-28.467	2
5	MP3A	Z	-16.435	2
6	MP3A	Mx	.005	2
7	MP3A	X	-28.467	7
8	MP3A	Z	-16.435	7
9	MP3A	Mx	.005	7
10	MP3B	X	-37.234	2
11	MP3B	Z	-21.497	2
12	MP3B	Mx	-.025	2
13	MP3B	X	-37.234	7
14	MP3B	Z	-21.497	7
15	MP3B	Mx	-.025	7
16	MP3C	X	-28.467	2
17	MP3C	Z	-16.435	2
18	MP3C	Mx	-.005	2
19	MP3C	X	-28.467	7
20	MP3C	Z	-16.435	7
21	MP3C	Mx	-.005	7
22	MP3A	X	-28.467	2
23	MP3A	Z	-16.435	2
24	MP3A	Mx	.024	2
25	MP3A	X	-28.467	7
26	MP3A	Z	-16.435	7
27	MP3A	Mx	.024	7
28	MP3B	X	-37.234	2
29	MP3B	Z	-21.497	2
30	MP3B	Mx	.025	2
31	MP3B	X	-37.234	7
32	MP3B	Z	-21.497	7
33	MP3B	Mx	.025	7
34	MP3C	X	-28.467	2
35	MP3C	Z	-16.435	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP3C	Mx	-.024	2
37	MP3C	X	-28.467	7
38	MP3C	Z	-16.435	7
39	MP3C	Mx	-.024	7
40	MP3A	X	-2.394	4
41	MP3A	Z	-1.382	4
42	MP3A	Mx	-.002	4
43	MP3B	X	-2.941	4
44	MP3B	Z	-1.698	4
45	MP3B	Mx	.001	4
46	MP3C	X	-2.394	4
47	MP3C	Z	-1.382	4
48	MP3C	Mx	.000736	4
49	OVP PIPE	X	-24.73	1
50	OVP PIPE	Z	-14.278	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-9.307	4
53	MP3A	Z	-5.373	4
54	MP3A	Mx	-.002	4
55	MP3B	X	-12.051	4
56	MP3B	Z	-6.957	4
57	MP3B	Mx	-.007	4
58	MP3C	X	-9.307	4
59	MP3C	Z	-5.373	4
60	MP3C	Mx	.007	4
61	MP2A	X	-8.264	3
62	MP2A	Z	-4.771	3
63	MP2A	Mx	-.004	3
64	MP2B	X	-12.051	3
65	MP2B	Z	-6.957	3
66	MP2B	Mx	0	3
67	MP2C	X	-8.264	3
68	MP2C	Z	-4.771	3
69	MP2C	Mx	.004	3
70	MP1A	X	-8.141	1.75
71	MP1A	Z	-4.7	1.75
72	MP1A	Mx	.004	1.75
73	MP1A	X	-8.141	3.75
74	MP1A	Z	-4.7	3.75
75	MP1A	Mx	.004	3.75
76	MP1B	X	-14.276	1.75
77	MP1B	Z	-8.242	1.75
78	MP1B	Mx	0	1.75
79	MP1B	X	-14.276	3.75
80	MP1B	Z	-8.242	3.75
81	MP1B	Mx	0	3.75
82	MP1C	X	-8.141	1.75
83	MP1C	Z	-4.7	1.75
84	MP1C	Mx	-.004	1.75
85	MP1C	X	-8.141	3.75
86	MP1C	Z	-4.7	3.75
87	MP1C	Mx	-.004	3.75
88	MP2A	X	-15.544	2
89	MP2A	Z	-8.975	2
90	MP2A	Mx	.008	2
91	MP2A	X	-15.544	5
92	MP2A	Z	-8.975	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP2A	Mx	.008	5
94	MP2B	X	-22.524	2
95	MP2B	Z	-13.004	2
96	MP2B	Mx	0	2
97	MP2B	X	-22.524	5
98	MP2B	Z	-13.004	5
99	MP2B	Mx	0	5
100	MP2C	X	-15.544	2
101	MP2C	Z	-8.975	2
102	MP2C	Mx	-.008	2
103	MP2C	X	-15.544	5
104	MP2C	Z	-8.975	5
105	MP2C	Mx	-.008	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-3.26	.25
2	MP3B	Z	-5.646	.25
3	MP3B	Mx	-.002	.25
4	MP3A	X	-19.81	2
5	MP3A	Z	-34.311	2
6	MP3A	Mx	-.01	2
7	MP3A	X	-19.81	7
8	MP3A	Z	-34.311	7
9	MP3A	Mx	-.01	7
10	MP3B	X	-19.81	2
11	MP3B	Z	-34.311	2
12	MP3B	Mx	-.01	2
13	MP3B	X	-19.81	7
14	MP3B	Z	-34.311	7
15	MP3B	Mx	-.01	7
16	MP3C	X	-14.748	2
17	MP3C	Z	-25.544	2
18	MP3C	Mx	-.015	2
19	MP3C	X	-14.748	7
20	MP3C	Z	-25.544	7
21	MP3C	Mx	-.015	7
22	MP3A	X	-19.81	2
23	MP3A	Z	-34.311	2
24	MP3A	Mx	.03	2
25	MP3A	X	-19.81	7
26	MP3A	Z	-34.311	7
27	MP3A	Mx	.03	7
28	MP3B	X	-19.81	2
29	MP3B	Z	-34.311	2
30	MP3B	Mx	.03	2
31	MP3B	X	-19.81	7
32	MP3B	Z	-34.311	7
33	MP3B	Mx	.03	7
34	MP3C	X	-14.748	2
35	MP3C	Z	-25.544	2
36	MP3C	Mx	-.015	2
37	MP3C	X	-14.748	7
38	MP3C	Z	-25.544	7
39	MP3C	Mx	-.015	7
40	MP3A	X	-1.593	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
41	MP3A	Z	-2.759	4
42	MP3A	Mx	-.002	4
43	MP3B	X	-1.593	4
44	MP3B	Z	-2.759	4
45	MP3B	Mx	.000123	4
46	MP3C	X	-1.277	4
47	MP3C	Z	-2.211	4
48	MP3C	Mx	.001	4
49	OVP PIPE	X	-13.501	1
50	OVP PIPE	Z	-23.385	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-6.429	4
53	MP3A	Z	-11.136	4
54	MP3A	Mx	.002	4
55	MP3B	X	-6.429	4
56	MP3B	Z	-11.136	4
57	MP3B	Mx	-.009	4
58	MP3C	X	-4.845	4
59	MP3C	Z	-8.392	4
60	MP3C	Mx	.005	4
61	MP2A	X	-6.229	3
62	MP2A	Z	-10.788	3
63	MP2A	Mx	-.003	3
64	MP2B	X	-6.229	3
65	MP2B	Z	-10.788	3
66	MP2B	Mx	-.003	3
67	MP2C	X	-4.042	3
68	MP2C	Z	-7.002	3
69	MP2C	Mx	.004	3
70	MP1A	X	-7.061	1.75
71	MP1A	Z	-12.231	1.75
72	MP1A	Mx	.004	1.75
73	MP1A	X	-7.061	3.75
74	MP1A	Z	-12.231	3.75
75	MP1A	Mx	.004	3.75
76	MP1B	X	-7.061	1.75
77	MP1B	Z	-12.231	1.75
78	MP1B	Mx	.004	1.75
79	MP1B	X	-7.061	3.75
80	MP1B	Z	-12.231	3.75
81	MP1B	Mx	.004	3.75
82	MP1C	X	-3.519	1.75
83	MP1C	Z	-6.096	1.75
84	MP1C	Mx	-.004	1.75
85	MP1C	X	-3.519	3.75
86	MP1C	Z	-6.096	3.75
87	MP1C	Mx	-.004	3.75
88	MP2A	X	-11.661	2
89	MP2A	Z	-20.198	2
90	MP2A	Mx	.006	2
91	MP2A	X	-11.661	5
92	MP2A	Z	-20.198	5
93	MP2A	Mx	.006	5
94	MP2B	X	-11.661	2
95	MP2B	Z	-20.198	2
96	MP2B	Mx	.006	2
97	MP2B	X	-11.661	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
98	MP2B	Z	-20.198	5
99	MP2B	Mx	.006	5
100	MP2C	X	-7.631	2
101	MP2C	Z	-13.218	2
102	MP2C	Mx	-.008	2
103	MP2C	X	-7.631	5
104	MP2C	Z	-13.218	5
105	MP2C	Mx	-.008	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	0	.25
2	MP3B	Z	-1.061	.25
3	MP3B	Mx	-.000459	.25
4	MP3A	X	0	2
5	MP3A	Z	-10.136	2
6	MP3A	Mx	-.006	2
7	MP3A	X	0	7
8	MP3A	Z	-10.136	7
9	MP3A	Mx	-.006	7
10	MP3B	X	0	2
11	MP3B	Z	-5.592	2
12	MP3B	Mx	.00079	2
13	MP3B	X	0	7
14	MP3B	Z	-5.592	7
15	MP3B	Mx	.00079	7
16	MP3C	X	0	2
17	MP3C	Z	-5.592	2
18	MP3C	Mx	-.004	2
19	MP3C	X	0	7
20	MP3C	Z	-5.592	7
21	MP3C	Mx	-.004	7
22	MP3A	X	0	2
23	MP3A	Z	-10.136	2
24	MP3A	Mx	.006	2
25	MP3A	X	0	7
26	MP3A	Z	-10.136	7
27	MP3A	Mx	.006	7
28	MP3B	X	0	2
29	MP3B	Z	-5.592	2
30	MP3B	Mx	.004	2
31	MP3B	X	0	7
32	MP3B	Z	-5.592	7
33	MP3B	Mx	.004	7
34	MP3C	X	0	2
35	MP3C	Z	-5.592	2
36	MP3C	Mx	-.00079	2
37	MP3C	X	0	7
38	MP3C	Z	-5.592	7
39	MP3C	Mx	-.00079	7
40	MP3A	X	0	4
41	MP3A	Z	-.824	4
42	MP3A	Mx	-.000275	4
43	MP3B	X	0	4
44	MP3B	Z	-.634	4
45	MP3B	Mx	-.000169	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP3C	X	0	4
47	MP3C	Z	- .634	4
48	MP3C	Mx	.00038	4
49	OVP PIPE	X	0	1
50	OVP PIPE	Z	-7.437	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	0	4
53	MP3A	Z	-3.453	4
54	MP3A	Mx	.002	4
55	MP3B	X	0	4
56	MP3B	Z	-2.601	4
57	MP3B	Mx	-.002	4
58	MP3C	X	0	4
59	MP3C	Z	-2.601	4
60	MP3C	Mx	.000476	4
61	MP2A	X	0	3
62	MP2A	Z	-3.453	3
63	MP2A	Mx	0	3
64	MP2B	X	0	3
65	MP2B	Z	-2.283	3
66	MP2B	Mx	-.000989	3
67	MP2C	X	0	3
68	MP2C	Z	-2.283	3
69	MP2C	Mx	.000989	3
70	MP1A	X	0	1.75
71	MP1A	Z	-4.366	1.75
72	MP1A	Mx	0	1.75
73	MP1A	X	0	3.75
74	MP1A	Z	-4.366	3.75
75	MP1A	Mx	0	3.75
76	MP1B	X	0	1.75
77	MP1B	Z	-2.219	1.75
78	MP1B	Mx	.000961	1.75
79	MP1B	X	0	3.75
80	MP1B	Z	-2.219	3.75
81	MP1B	Mx	.000961	3.75
82	MP1C	X	0	1.75
83	MP1C	Z	-2.219	1.75
84	MP1C	Mx	-.000961	1.75
85	MP1C	X	0	3.75
86	MP1C	Z	-2.219	3.75
87	MP1C	Mx	-.000961	3.75
88	MP2A	X	0	2
89	MP2A	Z	-8.432	2
90	MP2A	Mx	0	2
91	MP2A	X	0	5
92	MP2A	Z	-8.432	5
93	MP2A	Mx	0	5
94	MP2B	X	0	2
95	MP2B	Z	-5.582	2
96	MP2B	Mx	.002	2
97	MP2B	X	0	5
98	MP2B	Z	-5.582	5
99	MP2B	Mx	.002	5
100	MP2C	X	0	2
101	MP2C	Z	-5.582	2
102	MP2C	Mx	-.002	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	MP2C	X	0	5
104	MP2C	Z	-5.582	5
105	MP2C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	.351	.25
2	MP3B	Z	-.608	.25
3	MP3B	Mx	-.000351	.25
4	MP3A	X	4.311	2
5	MP3A	Z	-7.467	2
6	MP3A	Mx	-.007	2
7	MP3A	X	4.311	7
8	MP3A	Z	-7.467	7
9	MP3A	Mx	-.007	7
10	MP3B	X	2.038	2
11	MP3B	Z	-3.531	2
12	MP3B	Mx	.002	2
13	MP3B	X	2.038	7
14	MP3B	Z	-3.531	7
15	MP3B	Mx	.002	7
16	MP3C	X	4.311	2
17	MP3C	Z	-7.467	2
18	MP3C	Mx	-.007	2
19	MP3C	X	4.311	7
20	MP3C	Z	-7.467	7
21	MP3C	Mx	-.007	7
22	MP3A	X	4.311	2
23	MP3A	Z	-7.467	2
24	MP3A	Mx	.002	2
25	MP3A	X	4.311	7
26	MP3A	Z	-7.467	7
27	MP3A	Mx	.002	7
28	MP3B	X	2.038	2
29	MP3B	Z	-3.531	2
30	MP3B	Mx	.002	2
31	MP3B	X	2.038	7
32	MP3B	Z	-3.531	7
33	MP3B	Mx	.002	7
34	MP3C	X	4.311	2
35	MP3C	Z	-7.467	2
36	MP3C	Mx	.002	2
37	MP3C	X	4.311	7
38	MP3C	Z	-7.467	7
39	MP3C	Mx	.002	7
40	MP3A	X	.38	4
41	MP3A	Z	-.659	4
42	MP3A	Mx	-3e-5	4
43	MP3B	X	.285	4
44	MP3B	Z	-.494	4
45	MP3B	Mx	-.000285	4
46	MP3C	X	.38	4
47	MP3C	Z	-.659	4
48	MP3C	Mx	.00041	4
49	OVP PIPE	X	3.45	1
50	OVP PIPE	Z	-5.976	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	OVP PIPE	Mx	0	1
52	MP3A	X	1.585	4
53	MP3A	Z	-2.744	4
54	MP3A	Mx	.002	4
55	MP3B	X	1.158	4
56	MP3B	Z	-2.007	4
57	MP3B	Mx	-.001	4
58	MP3C	X	1.585	4
59	MP3C	Z	-2.744	4
60	MP3C	Mx	-.00058	4
61	MP2A	X	1.532	3
62	MP2A	Z	-2.653	3
63	MP2A	Mx	.000766	3
64	MP2B	X	.947	3
65	MP2B	Z	-1.64	3
66	MP2B	Mx	-.000947	3
67	MP2C	X	1.532	3
68	MP2C	Z	-2.653	3
69	MP2C	Mx	.000766	3
70	MP1A	X	1.825	1.75
71	MP1A	Z	-3.162	1.75
72	MP1A	Mx	-.000912	1.75
73	MP1A	X	1.825	3.75
74	MP1A	Z	-3.162	3.75
75	MP1A	Mx	-.000912	3.75
76	MP1B	X	.752	1.75
77	MP1B	Z	-1.302	1.75
78	MP1B	Mx	.000752	1.75
79	MP1B	X	.752	3.75
80	MP1B	Z	-1.302	3.75
81	MP1B	Mx	.000752	3.75
82	MP1C	X	1.825	1.75
83	MP1C	Z	-3.162	1.75
84	MP1C	Mx	-.000913	1.75
85	MP1C	X	1.825	3.75
86	MP1C	Z	-3.162	3.75
87	MP1C	Mx	-.000913	3.75
88	MP2A	X	3.741	2
89	MP2A	Z	-6.48	2
90	MP2A	Mx	-.002	2
91	MP2A	X	3.741	5
92	MP2A	Z	-6.48	5
93	MP2A	Mx	-.002	5
94	MP2B	X	2.316	2
95	MP2B	Z	-4.011	2
96	MP2B	Mx	.002	2
97	MP2B	X	2.316	5
98	MP2B	Z	-4.011	5
99	MP2B	Mx	.002	5
100	MP2C	X	3.741	2
101	MP2C	Z	-6.48	2
102	MP2C	Mx	-.002	2
103	MP2C	X	3.741	5
104	MP2C	Z	-6.48	5
105	MP2C	Mx	-.002	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	.919	.25
2	MP3B	Z	-.531	.25
3	MP3B	Mx	-.00046	.25
4	MP3A	X	4.843	2
5	MP3A	Z	-2.796	2
6	MP3A	Mx	-.004	2
7	MP3A	X	4.843	7
8	MP3A	Z	-2.796	7
9	MP3A	Mx	-.004	7
10	MP3B	X	4.843	2
11	MP3B	Z	-2.796	2
12	MP3B	Mx	.004	2
13	MP3B	X	4.843	7
14	MP3B	Z	-2.796	7
15	MP3B	Mx	.004	7
16	MP3C	X	8.778	2
17	MP3C	Z	-5.068	2
18	MP3C	Mx	-.006	2
19	MP3C	X	8.778	7
20	MP3C	Z	-5.068	7
21	MP3C	Mx	-.006	7
22	MP3A	X	4.843	2
23	MP3A	Z	-2.796	2
24	MP3A	Mx	-.000791	2
25	MP3A	X	4.843	7
26	MP3A	Z	-2.796	7
27	MP3A	Mx	-.000791	7
28	MP3B	X	4.843	2
29	MP3B	Z	-2.796	2
30	MP3B	Mx	.00079	2
31	MP3B	X	4.843	7
32	MP3B	Z	-2.796	7
33	MP3B	Mx	.00079	7
34	MP3C	X	8.778	2
35	MP3C	Z	-5.068	2
36	MP3C	Mx	.006	2
37	MP3C	X	8.778	7
38	MP3C	Z	-5.068	7
39	MP3C	Mx	.006	7
40	MP3A	X	.549	4
41	MP3A	Z	-.317	4
42	MP3A	Mx	.000169	4
43	MP3B	X	.549	4
44	MP3B	Z	-.317	4
45	MP3B	Mx	-.00038	4
46	MP3C	X	.714	4
47	MP3C	Z	-.412	4
48	MP3C	Mx	.000275	4
49	OVP PIPE	X	6.44	1
50	OVP PIPE	Z	-3.718	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	2.252	4
53	MP3A	Z	-1.3	4
54	MP3A	Mx	.002	4
55	MP3B	X	2.252	4
56	MP3B	Z	-1.3	4
57	MP3B	Mx	-.000476	4





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP3C	X	2.99	4
59	MP3C	Z	-1.727	4
60	MP3C	Mx	-.002	4
61	MP2A	X	1.978	3
62	MP2A	Z	-1.142	3
63	MP2A	Mx	.000989	3
64	MP2B	X	1.978	3
65	MP2B	Z	-1.142	3
66	MP2B	Mx	-.000989	3
67	MP2C	X	2.99	3
68	MP2C	Z	-1.727	3
69	MP2C	Mx	0	3
70	MP1A	X	1.922	1.75
71	MP1A	Z	-1.11	1.75
72	MP1A	Mx	-.000961	1.75
73	MP1A	X	1.922	3.75
74	MP1A	Z	-1.11	3.75
75	MP1A	Mx	-.000961	3.75
76	MP1B	X	1.922	1.75
77	MP1B	Z	-1.11	1.75
78	MP1B	Mx	.000961	1.75
79	MP1B	X	1.922	3.75
80	MP1B	Z	-1.11	3.75
81	MP1B	Mx	.000961	3.75
82	MP1C	X	3.781	1.75
83	MP1C	Z	-2.183	1.75
84	MP1C	Mx	0	1.75
85	MP1C	X	3.781	3.75
86	MP1C	Z	-2.183	3.75
87	MP1C	Mx	0	3.75
88	MP2A	X	4.834	2
89	MP2A	Z	-2.791	2
90	MP2A	Mx	-.002	2
91	MP2A	X	4.834	5
92	MP2A	Z	-2.791	5
93	MP2A	Mx	-.002	5
94	MP2B	X	4.834	2
95	MP2B	Z	-2.791	2
96	MP2B	Mx	.002	2
97	MP2B	X	4.834	5
98	MP2B	Z	-2.791	5
99	MP2B	Mx	.002	5
100	MP2C	X	7.303	2
101	MP2C	Z	-4.216	2
102	MP2C	Mx	0	2
103	MP2C	X	7.303	5
104	MP2C	Z	-4.216	5
105	MP2C	Mx	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	1.78	.25
2	MP3B	Z	0	.25
3	MP3B	Mx	-.000445	.25
4	MP3A	X	4.077	2
5	MP3A	Z	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-.002	2
7	MP3A	X	4.077	7
8	MP3A	Z	0	7
9	MP3A	Mx	-.002	7
10	MP3B	X	8.622	2
11	MP3B	Z	0	2
12	MP3B	Mx	.007	2
13	MP3B	X	8.622	7
14	MP3B	Z	0	7
15	MP3B	Mx	.007	7
16	MP3C	X	8.622	2
17	MP3C	Z	0	2
18	MP3C	Mx	-.002	2
19	MP3C	X	8.622	7
20	MP3C	Z	0	7
21	MP3C	Mx	-.002	7
22	MP3A	X	4.077	2
23	MP3A	Z	0	2
24	MP3A	Mx	-.002	2
25	MP3A	X	4.077	7
26	MP3A	Z	0	7
27	MP3A	Mx	-.002	7
28	MP3B	X	8.622	2
29	MP3B	Z	0	2
30	MP3B	Mx	-.002	2
31	MP3B	X	8.622	7
32	MP3B	Z	0	7
33	MP3B	Mx	-.002	7
34	MP3C	X	8.622	2
35	MP3C	Z	0	2
36	MP3C	Mx	.007	2
37	MP3C	X	8.622	7
38	MP3C	Z	0	7
39	MP3C	Mx	.007	7
40	MP3A	X	.57	4
41	MP3A	Z	0	4
42	MP3A	Mx	.000285	4
43	MP3B	X	.761	4
44	MP3B	Z	0	4
45	MP3B	Mx	-.00041	4
46	MP3C	X	.761	4
47	MP3C	Z	0	4
48	MP3C	Mx	2.9e-5	4
49	OVP PIPE	X	8.509	1
50	OVP PIPE	Z	0	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	2.317	4
53	MP3A	Z	0	4
54	MP3A	Mx	.001	4
55	MP3B	X	3.169	4
56	MP3B	Z	0	4
57	MP3B	Mx	.00058	4
58	MP3C	X	3.169	4
59	MP3C	Z	0	4
60	MP3C	Mx	-.002	4
61	MP2A	X	1.894	3
62	MP2A	Z	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP2A	Mx	.000947	3
64	MP2B	X	3.063	3
65	MP2B	Z	0	3
66	MP2B	Mx	-.000766	3
67	MP2C	X	3.063	3
68	MP2C	Z	0	3
69	MP2C	Mx	-.000766	3
70	MP1A	X	1.504	1.75
71	MP1A	Z	0	1.75
72	MP1A	Mx	-.000752	1.75
73	MP1A	X	1.504	3.75
74	MP1A	Z	0	3.75
75	MP1A	Mx	-.000752	3.75
76	MP1B	X	3.651	1.75
77	MP1B	Z	0	1.75
78	MP1B	Mx	.000913	1.75
79	MP1B	X	3.651	3.75
80	MP1B	Z	0	3.75
81	MP1B	Mx	.000913	3.75
82	MP1C	X	3.651	1.75
83	MP1C	Z	0	1.75
84	MP1C	Mx	.000913	1.75
85	MP1C	X	3.651	3.75
86	MP1C	Z	0	3.75
87	MP1C	Mx	.000913	3.75
88	MP2A	X	4.632	2
89	MP2A	Z	0	2
90	MP2A	Mx	-.002	2
91	MP2A	X	4.632	5
92	MP2A	Z	0	5
93	MP2A	Mx	-.002	5
94	MP2B	X	7.482	2
95	MP2B	Z	0	2
96	MP2B	Mx	.002	2
97	MP2B	X	7.482	5
98	MP2B	Z	0	5
99	MP2B	Mx	.002	5
100	MP2C	X	7.482	2
101	MP2C	Z	0	2
102	MP2C	Mx	.002	2
103	MP2C	X	7.482	5
104	MP2C	Z	0	5
105	MP2C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	1.852	.25
2	MP3B	Z	1.069	.25
3	MP3B	Mx	0	.25
4	MP3A	X	4.843	2
5	MP3A	Z	2.796	2
6	MP3A	Mx	-.000791	2
7	MP3A	X	4.843	7
8	MP3A	Z	2.796	7
9	MP3A	Mx	-.000791	7
10	MP3B	X	8.778	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP3B	Z	5.068	2
12	MP3B	Mx	.006	2
13	MP3B	X	8.778	7
14	MP3B	Z	5.068	7
15	MP3B	Mx	.006	7
16	MP3C	X	4.843	2
17	MP3C	Z	2.796	2
18	MP3C	Mx	.00079	2
19	MP3C	X	4.843	7
20	MP3C	Z	2.796	7
21	MP3C	Mx	.00079	7
22	MP3A	X	4.843	2
23	MP3A	Z	2.796	2
24	MP3A	Mx	-.004	2
25	MP3A	X	4.843	7
26	MP3A	Z	2.796	7
27	MP3A	Mx	-.004	7
28	MP3B	X	8.778	2
29	MP3B	Z	5.068	2
30	MP3B	Mx	-.006	2
31	MP3B	X	8.778	7
32	MP3B	Z	5.068	7
33	MP3B	Mx	-.006	7
34	MP3C	X	4.843	2
35	MP3C	Z	2.796	2
36	MP3C	Mx	.004	2
37	MP3C	X	4.843	7
38	MP3C	Z	2.796	7
39	MP3C	Mx	.004	7
40	MP3A	X	.549	4
41	MP3A	Z	.317	4
42	MP3A	Mx	.00038	4
43	MP3B	X	.714	4
44	MP3B	Z	.412	4
45	MP3B	Mx	-.000275	4
46	MP3C	X	.549	4
47	MP3C	Z	.317	4
48	MP3C	Mx	-.000169	4
49	OVP PIPE	X	7.833	1
50	OVP PIPE	Z	4.522	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	2.252	4
53	MP3A	Z	1.3	4
54	MP3A	Mx	.000476	4
55	MP3B	X	2.99	4
56	MP3B	Z	1.727	4
57	MP3B	Mx	.002	4
58	MP3C	X	2.252	4
59	MP3C	Z	1.3	4
60	MP3C	Mx	-.002	4
61	MP2A	X	1.978	3
62	MP2A	Z	1.142	3
63	MP2A	Mx	.000989	3
64	MP2B	X	2.99	3
65	MP2B	Z	1.727	3
66	MP2B	Mx	0	3
67	MP2C	X	1.978	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
68	MP2C	Z	1.142	3
69	MP2C	Mx	-.000989	3
70	MP1A	X	1.922	1.75
71	MP1A	Z	1.11	1.75
72	MP1A	Mx	-.000961	1.75
73	MP1A	X	1.922	3.75
74	MP1A	Z	1.11	3.75
75	MP1A	Mx	-.000961	3.75
76	MP1B	X	3.781	1.75
77	MP1B	Z	2.183	1.75
78	MP1B	Mx	0	1.75
79	MP1B	X	3.781	3.75
80	MP1B	Z	2.183	3.75
81	MP1B	Mx	0	3.75
82	MP1C	X	1.922	1.75
83	MP1C	Z	1.11	1.75
84	MP1C	Mx	.000961	1.75
85	MP1C	X	1.922	3.75
86	MP1C	Z	1.11	3.75
87	MP1C	Mx	.000961	3.75
88	MP2A	X	4.834	2
89	MP2A	Z	2.791	2
90	MP2A	Mx	-.002	2
91	MP2A	X	4.834	5
92	MP2A	Z	2.791	5
93	MP2A	Mx	-.002	5
94	MP2B	X	7.303	2
95	MP2B	Z	4.216	2
96	MP2B	Mx	0	2
97	MP2B	X	7.303	5
98	MP2B	Z	4.216	5
99	MP2B	Mx	0	5
100	MP2C	X	4.834	2
101	MP2C	Z	2.791	2
102	MP2C	Mx	.002	2
103	MP2C	X	4.834	5
104	MP2C	Z	2.791	5
105	MP2C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3B	X	.89	.25
2	MP3B	Z	1.541	.25
3	MP3B	Mx	.000445	.25
4	MP3A	X	4.311	2
5	MP3A	Z	7.467	2
6	MP3A	Mx	.002	2
7	MP3A	X	4.311	7
8	MP3A	Z	7.467	7
9	MP3A	Mx	.002	7
10	MP3B	X	4.311	2
11	MP3B	Z	7.467	2
12	MP3B	Mx	.002	2
13	MP3B	X	4.311	7
14	MP3B	Z	7.467	7
15	MP3B	Mx	.002	7



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP3C	X	2.038	2
17	MP3C	Z	3.531	2
18	MP3C	Mx	.002	2
19	MP3C	X	2.038	7
20	MP3C	Z	3.531	7
21	MP3C	Mx	.002	7
22	MP3A	X	4.311	2
23	MP3A	Z	7.467	2
24	MP3A	Mx	-.007	2
25	MP3A	X	4.311	7
26	MP3A	Z	7.467	7
27	MP3A	Mx	-.007	7
28	MP3B	X	4.311	2
29	MP3B	Z	7.467	2
30	MP3B	Mx	-.007	2
31	MP3B	X	4.311	7
32	MP3B	Z	7.467	7
33	MP3B	Mx	-.007	7
34	MP3C	X	2.038	2
35	MP3C	Z	3.531	2
36	MP3C	Mx	.002	2
37	MP3C	X	2.038	7
38	MP3C	Z	3.531	7
39	MP3C	Mx	.002	7
40	MP3A	X	.38	4
41	MP3A	Z	.659	4
42	MP3A	Mx	.00041	4
43	MP3B	X	.38	4
44	MP3B	Z	.659	4
45	MP3B	Mx	-2.9e-5	4
46	MP3C	X	.285	4
47	MP3C	Z	.494	4
48	MP3C	Mx	-.000285	4
49	OVP PIPE	X	4.254	1
50	OVP PIPE	Z	7.369	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	1.585	4
53	MP3A	Z	2.744	4
54	MP3A	Mx	-.00058	4
55	MP3B	X	1.585	4
56	MP3B	Z	2.744	4
57	MP3B	Mx	.002	4
58	MP3C	X	1.158	4
59	MP3C	Z	2.007	4
60	MP3C	Mx	-.001	4
61	MP2A	X	1.532	3
62	MP2A	Z	2.653	3
63	MP2A	Mx	.000766	3
64	MP2B	X	1.532	3
65	MP2B	Z	2.653	3
66	MP2B	Mx	.000766	3
67	MP2C	X	.947	3
68	MP2C	Z	1.64	3
69	MP2C	Mx	-.000947	3
70	MP1A	X	1.825	1.75
71	MP1A	Z	3.162	1.75
72	MP1A	Mx	-.000912	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP1A	X	1.825	3.75
74	MP1A	Z	3.162	3.75
75	MP1A	Mx	-.000912	3.75
76	MP1B	X	1.825	1.75
77	MP1B	Z	3.162	1.75
78	MP1B	Mx	-.000913	1.75
79	MP1B	X	1.825	3.75
80	MP1B	Z	3.162	3.75
81	MP1B	Mx	-.000913	3.75
82	MP1C	X	.752	1.75
83	MP1C	Z	1.302	1.75
84	MP1C	Mx	.000752	1.75
85	MP1C	X	.752	3.75
86	MP1C	Z	1.302	3.75
87	MP1C	Mx	.000752	3.75
88	MP2A	X	3.741	2
89	MP2A	Z	6.48	2
90	MP2A	Mx	-.002	2
91	MP2A	X	3.741	5
92	MP2A	Z	6.48	5
93	MP2A	Mx	-.002	5
94	MP2B	X	3.741	2
95	MP2B	Z	6.48	2
96	MP2B	Mx	-.002	2
97	MP2B	X	3.741	5
98	MP2B	Z	6.48	5
99	MP2B	Mx	-.002	5
100	MP2C	X	2.316	2
101	MP2C	Z	4.011	2
102	MP2C	Mx	.002	2
103	MP2C	X	2.316	5
104	MP2C	Z	4.011	5
105	MP2C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	0	.25
2	MP3B	Z	1.061	.25
3	MP3B	Mx	.000459	.25
4	MP3A	X	0	2
5	MP3A	Z	10.136	2
6	MP3A	Mx	.006	2
7	MP3A	X	0	7
8	MP3A	Z	10.136	7
9	MP3A	Mx	.006	7
10	MP3B	X	0	2
11	MP3B	Z	5.592	2
12	MP3B	Mx	-.00079	2
13	MP3B	X	0	7
14	MP3B	Z	5.592	7
15	MP3B	Mx	-.00079	7
16	MP3C	X	0	2
17	MP3C	Z	5.592	2
18	MP3C	Mx	.004	2
19	MP3C	X	0	7
20	MP3C	Z	5.592	7



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3C	Mx	.004	7
22	MP3A	X	0	2
23	MP3A	Z	10.136	2
24	MP3A	Mx	-.006	2
25	MP3A	X	0	7
26	MP3A	Z	10.136	7
27	MP3A	Mx	-.006	7
28	MP3B	X	0	2
29	MP3B	Z	5.592	2
30	MP3B	Mx	-.004	2
31	MP3B	X	0	7
32	MP3B	Z	5.592	7
33	MP3B	Mx	-.004	7
34	MP3C	X	0	2
35	MP3C	Z	5.592	2
36	MP3C	Mx	.00079	2
37	MP3C	X	0	7
38	MP3C	Z	5.592	7
39	MP3C	Mx	.00079	7
40	MP3A	X	0	4
41	MP3A	Z	.824	4
42	MP3A	Mx	.000275	4
43	MP3B	X	0	4
44	MP3B	Z	.634	4
45	MP3B	Mx	.000169	4
46	MP3C	X	0	4
47	MP3C	Z	.634	4
48	MP3C	Mx	-.00038	4
49	OVP PIPE	X	0	1
50	OVP PIPE	Z	7.437	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	0	4
53	MP3A	Z	3.453	4
54	MP3A	Mx	-.002	4
55	MP3B	X	0	4
56	MP3B	Z	2.601	4
57	MP3B	Mx	.002	4
58	MP3C	X	0	4
59	MP3C	Z	2.601	4
60	MP3C	Mx	-.000476	4
61	MP2A	X	0	3
62	MP2A	Z	3.453	3
63	MP2A	Mx	0	3
64	MP2B	X	0	3
65	MP2B	Z	2.283	3
66	MP2B	Mx	.000989	3
67	MP2C	X	0	3
68	MP2C	Z	2.283	3
69	MP2C	Mx	-.000989	3
70	MP1A	X	0	1.75
71	MP1A	Z	4.366	1.75
72	MP1A	Mx	0	1.75
73	MP1A	X	0	3.75
74	MP1A	Z	4.366	3.75
75	MP1A	Mx	0	3.75
76	MP1B	X	0	1.75
77	MP1B	Z	2.219	1.75





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP1B	Mx	-.000961	1.75
79	MP1B	X	0	3.75
80	MP1B	Z	2.219	3.75
81	MP1B	Mx	-.000961	3.75
82	MP1C	X	0	1.75
83	MP1C	Z	2.219	1.75
84	MP1C	Mx	.000961	1.75
85	MP1C	X	0	3.75
86	MP1C	Z	2.219	3.75
87	MP1C	Mx	.000961	3.75
88	MP2A	X	0	2
89	MP2A	Z	8.432	2
90	MP2A	Mx	0	2
91	MP2A	X	0	5
92	MP2A	Z	8.432	5
93	MP2A	Mx	0	5
94	MP2B	X	0	2
95	MP2B	Z	5.582	2
96	MP2B	Mx	-.002	2
97	MP2B	X	0	5
98	MP2B	Z	5.582	5
99	MP2B	Mx	-.002	5
100	MP2C	X	0	2
101	MP2C	Z	5.582	2
102	MP2C	Mx	.002	2
103	MP2C	X	0	5
104	MP2C	Z	5.582	5
105	MP2C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-.351	.25
2	MP3B	Z	.608	.25
3	MP3B	Mx	.000351	.25
4	MP3A	X	-4.311	2
5	MP3A	Z	7.467	2
6	MP3A	Mx	.007	2
7	MP3A	X	-4.311	7
8	MP3A	Z	7.467	7
9	MP3A	Mx	.007	7
10	MP3B	X	-2.038	2
11	MP3B	Z	3.531	2
12	MP3B	Mx	-.002	2
13	MP3B	X	-2.038	7
14	MP3B	Z	3.531	7
15	MP3B	Mx	-.002	7
16	MP3C	X	-4.311	2
17	MP3C	Z	7.467	2
18	MP3C	Mx	.007	2
19	MP3C	X	-4.311	7
20	MP3C	Z	7.467	7
21	MP3C	Mx	.007	7
22	MP3A	X	-4.311	2
23	MP3A	Z	7.467	2
24	MP3A	Mx	-.002	2
25	MP3A	X	-4.311	7



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
26	MP3A	Z	7.467	7
27	MP3A	Mx	-.002	7
28	MP3B	X	-2.038	2
29	MP3B	Z	3.531	2
30	MP3B	Mx	-.002	2
31	MP3B	X	-2.038	7
32	MP3B	Z	3.531	7
33	MP3B	Mx	-.002	7
34	MP3C	X	-4.311	2
35	MP3C	Z	7.467	2
36	MP3C	Mx	-.002	2
37	MP3C	X	-4.311	7
38	MP3C	Z	7.467	7
39	MP3C	Mx	-.002	7
40	MP3A	X	-.38	4
41	MP3A	Z	.659	4
42	MP3A	Mx	3e-5	4
43	MP3B	X	-.285	4
44	MP3B	Z	.494	4
45	MP3B	Mx	.000285	4
46	MP3C	X	-.38	4
47	MP3C	Z	.659	4
48	MP3C	Mx	-.00041	4
49	OVP PIPE	X	-3.45	1
50	OVP PIPE	Z	5.976	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-1.585	4
53	MP3A	Z	2.744	4
54	MP3A	Mx	-.002	4
55	MP3B	X	-1.158	4
56	MP3B	Z	2.007	4
57	MP3B	Mx	.001	4
58	MP3C	X	-1.585	4
59	MP3C	Z	2.744	4
60	MP3C	Mx	.00058	4
61	MP2A	X	-1.532	3
62	MP2A	Z	2.653	3
63	MP2A	Mx	-.000766	3
64	MP2B	X	-.947	3
65	MP2B	Z	1.64	3
66	MP2B	Mx	.000947	3
67	MP2C	X	-1.532	3
68	MP2C	Z	2.653	3
69	MP2C	Mx	-.000766	3
70	MP1A	X	-1.825	1.75
71	MP1A	Z	3.162	1.75
72	MP1A	Mx	.000912	1.75
73	MP1A	X	-1.825	3.75
74	MP1A	Z	3.162	3.75
75	MP1A	Mx	.000912	3.75
76	MP1B	X	-.752	1.75
77	MP1B	Z	1.302	1.75
78	MP1B	Mx	-.000752	1.75
79	MP1B	X	-.752	3.75
80	MP1B	Z	1.302	3.75
81	MP1B	Mx	-.000752	3.75
82	MP1C	X	-1.825	1.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP1C	Z	3.162	1.75
84	MP1C	Mx	.000913	1.75
85	MP1C	X	-1.825	3.75
86	MP1C	Z	3.162	3.75
87	MP1C	Mx	.000913	3.75
88	MP2A	X	-3.741	2
89	MP2A	Z	6.48	2
90	MP2A	Mx	.002	2
91	MP2A	X	-3.741	5
92	MP2A	Z	6.48	5
93	MP2A	Mx	.002	5
94	MP2B	X	-2.316	2
95	MP2B	Z	4.011	2
96	MP2B	Mx	-.002	2
97	MP2B	X	-2.316	5
98	MP2B	Z	4.011	5
99	MP2B	Mx	-.002	5
100	MP2C	X	-3.741	2
101	MP2C	Z	6.48	2
102	MP2C	Mx	.002	2
103	MP2C	X	-3.741	5
104	MP2C	Z	6.48	5
105	MP2C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-.919	.25
2	MP3B	Z	.531	.25
3	MP3B	Mx	.00046	.25
4	MP3A	X	-4.843	2
5	MP3A	Z	2.796	2
6	MP3A	Mx	.004	2
7	MP3A	X	-4.843	7
8	MP3A	Z	2.796	7
9	MP3A	Mx	.004	7
10	MP3B	X	-4.843	2
11	MP3B	Z	2.796	2
12	MP3B	Mx	-.004	2
13	MP3B	X	-4.843	7
14	MP3B	Z	2.796	7
15	MP3B	Mx	-.004	7
16	MP3C	X	-8.778	2
17	MP3C	Z	5.068	2
18	MP3C	Mx	.006	2
19	MP3C	X	-8.778	7
20	MP3C	Z	5.068	7
21	MP3C	Mx	.006	7
22	MP3A	X	-4.843	2
23	MP3A	Z	2.796	2
24	MP3A	Mx	.000791	2
25	MP3A	X	-4.843	7
26	MP3A	Z	2.796	7
27	MP3A	Mx	.000791	7
28	MP3B	X	-4.843	2
29	MP3B	Z	2.796	2
30	MP3B	Mx	-.00079	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
31	MP3B	X	-4.843	7
32	MP3B	Z	2.796	7
33	MP3B	Mx	-0.0079	7
34	MP3C	X	-8.778	2
35	MP3C	Z	5.068	2
36	MP3C	Mx	-.006	2
37	MP3C	X	-8.778	7
38	MP3C	Z	5.068	7
39	MP3C	Mx	-.006	7
40	MP3A	X	-.549	4
41	MP3A	Z	.317	4
42	MP3A	Mx	-.000169	4
43	MP3B	X	-.549	4
44	MP3B	Z	.317	4
45	MP3B	Mx	.00038	4
46	MP3C	X	-.714	4
47	MP3C	Z	.412	4
48	MP3C	Mx	-.000275	4
49	OVP PIPE	X	-6.44	1
50	OVP PIPE	Z	3.718	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-2.252	4
53	MP3A	Z	1.3	4
54	MP3A	Mx	-.002	4
55	MP3B	X	-2.252	4
56	MP3B	Z	1.3	4
57	MP3B	Mx	.000476	4
58	MP3C	X	-2.99	4
59	MP3C	Z	1.727	4
60	MP3C	Mx	.002	4
61	MP2A	X	-1.978	3
62	MP2A	Z	1.142	3
63	MP2A	Mx	-.000989	3
64	MP2B	X	-1.978	3
65	MP2B	Z	1.142	3
66	MP2B	Mx	.000989	3
67	MP2C	X	-2.99	3
68	MP2C	Z	1.727	3
69	MP2C	Mx	0	3
70	MP1A	X	-1.922	1.75
71	MP1A	Z	1.11	1.75
72	MP1A	Mx	.000961	1.75
73	MP1A	X	-1.922	3.75
74	MP1A	Z	1.11	3.75
75	MP1A	Mx	.000961	3.75
76	MP1B	X	-1.922	1.75
77	MP1B	Z	1.11	1.75
78	MP1B	Mx	-.000961	1.75
79	MP1B	X	-1.922	3.75
80	MP1B	Z	1.11	3.75
81	MP1B	Mx	-.000961	3.75
82	MP1C	X	-3.781	1.75
83	MP1C	Z	2.183	1.75
84	MP1C	Mx	0	1.75
85	MP1C	X	-3.781	3.75
86	MP1C	Z	2.183	3.75
87	MP1C	Mx	0	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP2A	X	-4.834	2
89	MP2A	Z	2.791	2
90	MP2A	Mx	.002	2
91	MP2A	X	-4.834	5
92	MP2A	Z	2.791	5
93	MP2A	Mx	.002	5
94	MP2B	X	-4.834	2
95	MP2B	Z	2.791	2
96	MP2B	Mx	-.002	2
97	MP2B	X	-4.834	5
98	MP2B	Z	2.791	5
99	MP2B	Mx	-.002	5
100	MP2C	X	-7.303	2
101	MP2C	Z	4.216	2
102	MP2C	Mx	0	2
103	MP2C	X	-7.303	5
104	MP2C	Z	4.216	5
105	MP2C	Mx	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-1.78	.25
2	MP3B	Z	0	.25
3	MP3B	Mx	.000445	.25
4	MP3A	X	-4.077	2
5	MP3A	Z	0	2
6	MP3A	Mx	.002	2
7	MP3A	X	-4.077	7
8	MP3A	Z	0	7
9	MP3A	Mx	.002	7
10	MP3B	X	-8.622	2
11	MP3B	Z	0	2
12	MP3B	Mx	-.007	2
13	MP3B	X	-8.622	7
14	MP3B	Z	0	7
15	MP3B	Mx	-.007	7
16	MP3C	X	-8.622	2
17	MP3C	Z	0	2
18	MP3C	Mx	.002	2
19	MP3C	X	-8.622	7
20	MP3C	Z	0	7
21	MP3C	Mx	.002	7
22	MP3A	X	-4.077	2
23	MP3A	Z	0	2
24	MP3A	Mx	.002	2
25	MP3A	X	-4.077	7
26	MP3A	Z	0	7
27	MP3A	Mx	.002	7
28	MP3B	X	-8.622	2
29	MP3B	Z	0	2
30	MP3B	Mx	.002	2
31	MP3B	X	-8.622	7
32	MP3B	Z	0	7
33	MP3B	Mx	.002	7
34	MP3C	X	-8.622	2
35	MP3C	Z	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP3C	Mx	-.007	2
37	MP3C	X	-8.622	7
38	MP3C	Z	0	7
39	MP3C	Mx	-.007	7
40	MP3A	X	-.57	4
41	MP3A	Z	0	4
42	MP3A	Mx	-.000285	4
43	MP3B	X	-.761	4
44	MP3B	Z	0	4
45	MP3B	Mx	.00041	4
46	MP3C	X	-.761	4
47	MP3C	Z	0	4
48	MP3C	Mx	-2.9e-5	4
49	OVP PIPE	X	-8.509	1
50	OVP PIPE	Z	0	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-2.317	4
53	MP3A	Z	0	4
54	MP3A	Mx	-.001	4
55	MP3B	X	-3.169	4
56	MP3B	Z	0	4
57	MP3B	Mx	-.00058	4
58	MP3C	X	-3.169	4
59	MP3C	Z	0	4
60	MP3C	Mx	.002	4
61	MP2A	X	-1.894	3
62	MP2A	Z	0	3
63	MP2A	Mx	-.000947	3
64	MP2B	X	-3.063	3
65	MP2B	Z	0	3
66	MP2B	Mx	.000766	3
67	MP2C	X	-3.063	3
68	MP2C	Z	0	3
69	MP2C	Mx	.000766	3
70	MP1A	X	-1.504	1.75
71	MP1A	Z	0	1.75
72	MP1A	Mx	.000752	1.75
73	MP1A	X	-1.504	3.75
74	MP1A	Z	0	3.75
75	MP1A	Mx	.000752	3.75
76	MP1B	X	-3.651	1.75
77	MP1B	Z	0	1.75
78	MP1B	Mx	-.000913	1.75
79	MP1B	X	-3.651	3.75
80	MP1B	Z	0	3.75
81	MP1B	Mx	-.000913	3.75
82	MP1C	X	-3.651	1.75
83	MP1C	Z	0	1.75
84	MP1C	Mx	-.000913	1.75
85	MP1C	X	-3.651	3.75
86	MP1C	Z	0	3.75
87	MP1C	Mx	-.000913	3.75
88	MP2A	X	-4.632	2
89	MP2A	Z	0	2
90	MP2A	Mx	.002	2
91	MP2A	X	-4.632	5
92	MP2A	Z	0	5



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
93	MP2A	Mx	.002	5
94	MP2B	X	-7.482	2
95	MP2B	Z	0	2
96	MP2B	Mx	-.002	2
97	MP2B	X	-7.482	5
98	MP2B	Z	0	5
99	MP2B	Mx	-.002	5
100	MP2C	X	-7.482	2
101	MP2C	Z	0	2
102	MP2C	Mx	-.002	2
103	MP2C	X	-7.482	5
104	MP2C	Z	0	5
105	MP2C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
1	MP3B	X	-1.852	.25
2	MP3B	Z	-1.069	.25
3	MP3B	Mx	0	.25
4	MP3A	X	-4.843	2
5	MP3A	Z	-2.796	2
6	MP3A	Mx	.000791	2
7	MP3A	X	-4.843	7
8	MP3A	Z	-2.796	7
9	MP3A	Mx	.000791	7
10	MP3B	X	-8.778	2
11	MP3B	Z	-5.068	2
12	MP3B	Mx	-.006	2
13	MP3B	X	-8.778	7
14	MP3B	Z	-5.068	7
15	MP3B	Mx	-.006	7
16	MP3C	X	-4.843	2
17	MP3C	Z	-2.796	2
18	MP3C	Mx	-.00079	2
19	MP3C	X	-4.843	7
20	MP3C	Z	-2.796	7
21	MP3C	Mx	-.00079	7
22	MP3A	X	-4.843	2
23	MP3A	Z	-2.796	2
24	MP3A	Mx	.004	2
25	MP3A	X	-4.843	7
26	MP3A	Z	-2.796	7
27	MP3A	Mx	.004	7
28	MP3B	X	-8.778	2
29	MP3B	Z	-5.068	2
30	MP3B	Mx	.006	2
31	MP3B	X	-8.778	7
32	MP3B	Z	-5.068	7
33	MP3B	Mx	.006	7
34	MP3C	X	-4.843	2
35	MP3C	Z	-2.796	2
36	MP3C	Mx	-.004	2
37	MP3C	X	-4.843	7
38	MP3C	Z	-2.796	7
39	MP3C	Mx	-.004	7
40	MP3A	X	-.549	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP3A	Z	-.317	4
42	MP3A	Mx	-.00038	4
43	MP3B	X	-.714	4
44	MP3B	Z	-.412	4
45	MP3B	Mx	.000275	4
46	MP3C	X	-.549	4
47	MP3C	Z	-.317	4
48	MP3C	Mx	.000169	4
49	OVP PIPE	X	-7.833	1
50	OVP PIPE	Z	-4.522	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-2.252	4
53	MP3A	Z	-1.3	4
54	MP3A	Mx	-.000476	4
55	MP3B	X	-2.99	4
56	MP3B	Z	-1.727	4
57	MP3B	Mx	-.002	4
58	MP3C	X	-2.252	4
59	MP3C	Z	-1.3	4
60	MP3C	Mx	.002	4
61	MP2A	X	-1.978	3
62	MP2A	Z	-1.142	3
63	MP2A	Mx	-.000989	3
64	MP2B	X	-2.99	3
65	MP2B	Z	-1.727	3
66	MP2B	Mx	0	3
67	MP2C	X	-1.978	3
68	MP2C	Z	-1.142	3
69	MP2C	Mx	.000989	3
70	MP1A	X	-1.922	1.75
71	MP1A	Z	-1.11	1.75
72	MP1A	Mx	.000961	1.75
73	MP1A	X	-1.922	3.75
74	MP1A	Z	-1.11	3.75
75	MP1A	Mx	.000961	3.75
76	MP1B	X	-3.781	1.75
77	MP1B	Z	-2.183	1.75
78	MP1B	Mx	0	1.75
79	MP1B	X	-3.781	3.75
80	MP1B	Z	-2.183	3.75
81	MP1B	Mx	0	3.75
82	MP1C	X	-1.922	1.75
83	MP1C	Z	-1.11	1.75
84	MP1C	Mx	-.000961	1.75
85	MP1C	X	-1.922	3.75
86	MP1C	Z	-1.11	3.75
87	MP1C	Mx	-.000961	3.75
88	MP2A	X	-4.834	2
89	MP2A	Z	-2.791	2
90	MP2A	Mx	.002	2
91	MP2A	X	-4.834	5
92	MP2A	Z	-2.791	5
93	MP2A	Mx	.002	5
94	MP2B	X	-7.303	2
95	MP2B	Z	-4.216	2
96	MP2B	Mx	0	2
97	MP2B	X	-7.303	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
98	MP2B	Z	-4.216	5
99	MP2B	Mx	0	5
100	MP2C	X	-4.834	2
101	MP2C	Z	-2.791	2
102	MP2C	Mx	-.002	2
103	MP2C	X	-4.834	5
104	MP2C	Z	-2.791	5
105	MP2C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	X	-.89	.25
2	MP3B	Z	-1.541	.25
3	MP3B	Mx	-.000445	.25
4	MP3A	X	-4.311	2
5	MP3A	Z	-7.467	2
6	MP3A	Mx	-.002	2
7	MP3A	X	-4.311	7
8	MP3A	Z	-7.467	7
9	MP3A	Mx	-.002	7
10	MP3B	X	-4.311	2
11	MP3B	Z	-7.467	2
12	MP3B	Mx	-.002	2
13	MP3B	X	-4.311	7
14	MP3B	Z	-7.467	7
15	MP3B	Mx	-.002	7
16	MP3C	X	-2.038	2
17	MP3C	Z	-3.531	2
18	MP3C	Mx	-.002	2
19	MP3C	X	-2.038	7
20	MP3C	Z	-3.531	7
21	MP3C	Mx	-.002	7
22	MP3A	X	-4.311	2
23	MP3A	Z	-7.467	2
24	MP3A	Mx	.007	2
25	MP3A	X	-4.311	7
26	MP3A	Z	-7.467	7
27	MP3A	Mx	.007	7
28	MP3B	X	-4.311	2
29	MP3B	Z	-7.467	2
30	MP3B	Mx	.007	2
31	MP3B	X	-4.311	7
32	MP3B	Z	-7.467	7
33	MP3B	Mx	.007	7
34	MP3C	X	-2.038	2
35	MP3C	Z	-3.531	2
36	MP3C	Mx	-.002	2
37	MP3C	X	-2.038	7
38	MP3C	Z	-3.531	7
39	MP3C	Mx	-.002	7
40	MP3A	X	-.38	4
41	MP3A	Z	-.659	4
42	MP3A	Mx	-.00041	4
43	MP3B	X	-.38	4
44	MP3B	Z	-.659	4
45	MP3B	Mx	2.9e-5	4



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
46	MP3C	X	-.285	4
47	MP3C	Z	-.494	4
48	MP3C	Mx	.000285	4
49	OVP PIPE	X	-4.254	1
50	OVP PIPE	Z	-7.369	1
51	OVP PIPE	Mx	0	1
52	MP3A	X	-1.585	4
53	MP3A	Z	-2.744	4
54	MP3A	Mx	.00058	4
55	MP3B	X	-1.585	4
56	MP3B	Z	-2.744	4
57	MP3B	Mx	-.002	4
58	MP3C	X	-1.158	4
59	MP3C	Z	-2.007	4
60	MP3C	Mx	.001	4
61	MP2A	X	-1.532	3
62	MP2A	Z	-2.653	3
63	MP2A	Mx	-.000766	3
64	MP2B	X	-1.532	3
65	MP2B	Z	-2.653	3
66	MP2B	Mx	-.000766	3
67	MP2C	X	-.947	3
68	MP2C	Z	-1.64	3
69	MP2C	Mx	.000947	3
70	MP1A	X	-1.825	1.75
71	MP1A	Z	-3.162	1.75
72	MP1A	Mx	.000912	1.75
73	MP1A	X	-1.825	3.75
74	MP1A	Z	-3.162	3.75
75	MP1A	Mx	.000912	3.75
76	MP1B	X	-1.825	1.75
77	MP1B	Z	-3.162	1.75
78	MP1B	Mx	.000913	1.75
79	MP1B	X	-1.825	3.75
80	MP1B	Z	-3.162	3.75
81	MP1B	Mx	.000913	3.75
82	MP1C	X	-.752	1.75
83	MP1C	Z	-1.302	1.75
84	MP1C	Mx	-.000752	1.75
85	MP1C	X	-.752	3.75
86	MP1C	Z	-1.302	3.75
87	MP1C	Mx	-.000752	3.75
88	MP2A	X	-3.741	2
89	MP2A	Z	-6.48	2
90	MP2A	Mx	.002	2
91	MP2A	X	-3.741	5
92	MP2A	Z	-6.48	5
93	MP2A	Mx	.002	5
94	MP2B	X	-3.741	2
95	MP2B	Z	-6.48	2
96	MP2B	Mx	.002	2
97	MP2B	X	-3.741	5
98	MP2B	Z	-6.48	5
99	MP2B	Mx	.002	5
100	MP2C	X	-2.316	2
101	MP2C	Z	-4.011	2
102	MP2C	Mx	-.002	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	MP2C	X	-2.316	5
104	MP2C	Z	-4.011	5
105	MP2C	Mx	-.002	5

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M172	Y	-500	%31

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M172	Y	-500	%67

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M172	Y	-250	%100

**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M172	Y	-250	%50

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3B	Y	-.642	.25
2	MP3B	My	-.000161	.25
3	MP3B	Mz	.000278	.25
4	MP3A	Y	-1.463	2
5	MP3A	Mv	-.000731	2
6	MP3A	Mz	.000853	2
7	MP3A	Y	-1.463	7
8	MP3A	Mv	-.000731	7
9	MP3A	Mz	.000853	7
10	MP3B	Y	-1.463	2
11	MP3B	Mv	.001	2
12	MP3B	Mz	-.000207	2
13	MP3B	Y	-1.463	7
14	MP3B	My	.001	7
15	MP3B	Mz	-.000207	7
16	MP3C	Y	-1.463	2
17	MP3C	Mv	-.000373	2
18	MP3C	Mz	.001	2
19	MP3C	Y	-1.463	7
20	MP3C	Mv	-.000373	7
21	MP3C	Mz	.001	7
22	MP3A	Y	-1.463	2
23	MP3A	Mv	-.000731	2
24	MP3A	Mz	-.000853	2
25	MP3A	Y	-1.463	7
26	MP3A	My	-.000731	7
27	MP3A	Mz	-.000853	7
28	MP3B	Y	-1.463	2
29	MP3B	Mv	-.000373	2
30	MP3B	Mz	-.001	2
31	MP3B	Y	-1.463	7
32	MP3B	My	-.000373	7



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP3B	Mz	-.001	7
34	MP3C	Y	-1.463	2
35	MP3C	Mv	.001	2
36	MP3C	Mz	.000207	2
37	MP3C	Y	-1.463	7
38	MP3C	My	.001	7
39	MP3C	Mz	.000207	7
40	MP3A	Y	-.379	4
41	MP3A	Mv	.00019	4
42	MP3A	Mz	.000126	4
43	MP3B	Y	-.379	4
44	MP3B	My	-.000204	4
45	MP3B	Mz	.000101	4
46	MP3C	Y	-.379	4
47	MP3C	Mv	1.5e-5	4
48	MP3C	Mz	-.000228	4
49	OVP PIPE	Y	-1.167	1
50	OVP PIPE	Mv	0	1
51	OVP PIPE	Mz	0	1
52	MP3A	Y	-3.079	4
53	MP3A	Mv	.002	4
54	MP3A	Mz	-.002	4
55	MP3B	Y	-3.079	4
56	MP3B	My	.000563	4
57	MP3B	Mz	.002	4
58	MP3C	Y	-3.079	4
59	MP3C	Mv	-.002	4
60	MP3C	Mz	-.000563	4
61	MP2A	Y	-2.565	3
62	MP2A	My	.001	3
63	MP2A	Mz	0	3
64	MP2B	Y	-2.565	3
65	MP2B	Mv	-.000641	3
66	MP2B	Mz	.001	3
67	MP2C	Y	-2.565	3
68	MP2C	My	-.000641	3
69	MP2C	Mz	-.001	3
70	MP1A	Y	-1.589	1.75
71	MP1A	Mv	-.000794	1.75
72	MP1A	Mz	0	1.75
73	MP1A	Y	-1.589	3.75
74	MP1A	My	-.000794	3.75
75	MP1A	Mz	0	3.75
76	MP1B	Y	-1.589	1.75
77	MP1B	Mv	.000397	1.75
78	MP1B	Mz	-.000688	1.75
79	MP1B	Y	-1.589	3.75
80	MP1B	My	.000397	3.75
81	MP1B	Mz	-.000688	3.75
82	MP1C	Y	-1.589	1.75
83	MP1C	Mv	.000397	1.75
84	MP1C	Mz	.000688	1.75
85	MP1C	Y	-1.589	3.75
86	MP1C	Mv	.000397	3.75
87	MP1C	Mz	.000688	3.75
88	MP2A	Y	-.31	2
89	MP2A	My	-.000155	2



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
90	MP2A	Mz	0	2
91	MP2A	Y	-.31	5
92	MP2A	My	-.000155	5
93	MP2A	Mz	0	5
94	MP2B	Y	-.31	2
95	MP2B	My	7.8e-5	2
96	MP2B	Mz	-.000134	2
97	MP2B	Y	-.31	5
98	MP2B	My	7.8e-5	5
99	MP2B	Mz	-.000134	5
100	MP2C	Y	-.31	2
101	MP2C	My	7.8e-5	2
102	MP2C	Mz	.000134	2
103	MP2C	Y	-.31	5
104	MP2C	My	7.8e-5	5
105	MP2C	Mz	.000134	5

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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
1	MP3B	Z	-1.605	.25
2	MP3B	Mx	-.000695	.25
3	MP3A	Z	-3.657	2
4	MP3A	Mx	-.002	2
5	MP3A	Z	-3.657	7
6	MP3A	Mx	-.002	7
7	MP3B	Z	-3.657	2
8	MP3B	Mx	.000517	2
9	MP3B	Z	-3.657	7
10	MP3B	Mx	.000517	7
11	MP3C	Z	-3.657	2
12	MP3C	Mx	-.003	2
13	MP3C	Z	-3.657	7
14	MP3C	Mx	-.003	7
15	MP3A	Z	-3.657	2
16	MP3A	Mx	.002	2
17	MP3A	Z	-3.657	7
18	MP3A	Mx	.002	7
19	MP3B	Z	-3.657	2
20	MP3B	Mx	.003	2
21	MP3B	Z	-3.657	7
22	MP3B	Mx	.003	7
23	MP3C	Z	-3.657	2
24	MP3C	Mx	-.000517	2
25	MP3C	Z	-3.657	7
26	MP3C	Mx	-.000517	7
27	MP3A	Z	-.948	4
28	MP3A	Mx	-.000316	4
29	MP3B	Z	-.948	4
30	MP3B	Mx	-.000253	4
31	MP3C	Z	-.948	4
32	MP3C	Mx	.000569	4
33	OVP PIPE	Z	-2.918	1
34	OVP PIPE	Mx	0	1
35	MP3A	Z	-7.697	4
36	MP3A	Mx	.004	4
37	MP3B	Z	-7.697	4



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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
38	MP3B	Mx	-.005	4
39	MP3C	Z	-7.697	4
40	MP3C	Mx	.001	4
41	MP2A	Z	-6.411	3
42	MP2A	Mx	0	3
43	MP2B	Z	-6.411	3
44	MP2B	Mx	-.003	3
45	MP2C	Z	-6.411	3
46	MP2C	Mx	.003	3
47	MP1A	Z	-3.972	1.75
48	MP1A	Mx	0	1.75
49	MP1A	Z	-3.972	3.75
50	MP1A	Mx	0	3.75
51	MP1B	Z	-3.972	1.75
52	MP1B	Mx	.002	1.75
53	MP1B	Z	-3.972	3.75
54	MP1B	Mx	.002	3.75
55	MP1C	Z	-3.972	1.75
56	MP1C	Mx	-.002	1.75
57	MP1C	Z	-3.972	3.75
58	MP1C	Mx	-.002	3.75
59	MP2A	Z	-.775	2
60	MP2A	Mx	0	2
61	MP2A	Z	-.775	5
62	MP2A	Mx	0	5
63	MP2B	Z	-.775	2
64	MP2B	Mx	.000336	2
65	MP2B	Z	-.775	5
66	MP2B	Mx	.000336	5
67	MP2C	Z	-.775	2
68	MP2C	Mx	-.000336	2
69	MP2C	Z	-.775	5
70	MP2C	Mx	-.000336	5

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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft. %]
1	MP3B	X	1.605	.25
2	MP3B	Mx	-.000401	.25
3	MP3A	X	3.657	2
4	MP3A	Mx	-.002	2
5	MP3A	X	3.657	7
6	MP3A	Mx	-.002	7
7	MP3B	X	3.657	2
8	MP3B	Mx	.003	2
9	MP3B	X	3.657	7
10	MP3B	Mx	.003	7
11	MP3C	X	3.657	2
12	MP3C	Mx	-.000933	2
13	MP3C	X	3.657	7
14	MP3C	Mx	-.000933	7
15	MP3A	X	3.657	2
16	MP3A	Mx	-.002	2
17	MP3A	X	3.657	7
18	MP3A	Mx	-.002	7
19	MP3B	X	3.657	2
20	MP3B	Mx	-.000933	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3B	X	3.657	7
22	MP3B	Mx	-.000933	7
23	MP3C	X	3.657	2
24	MP3C	Mx	.003	2
25	MP3C	X	3.657	7
26	MP3C	Mx	.003	7
27	MP3A	X	.948	4
28	MP3A	Mx	.000474	4
29	MP3B	X	.948	4
30	MP3B	Mx	-.000511	4
31	MP3C	X	.948	4
32	MP3C	Mx	3.7e-5	4
33	OVP PIPE	X	2.918	1
34	OVP PIPE	Mx	0	1
35	MP3A	X	7.697	4
36	MP3A	Mx	.004	4
37	MP3B	X	7.697	4
38	MP3B	Mx	.001	4
39	MP3C	X	7.697	4
40	MP3C	Mx	-.005	4
41	MP2A	X	6.411	3
42	MP2A	Mx	.003	3
43	MP2B	X	6.411	3
44	MP2B	Mx	-.002	3
45	MP2C	X	6.411	3
46	MP2C	Mx	-.002	3
47	MP1A	X	3.972	1.75
48	MP1A	Mx	-.002	1.75
49	MP1A	X	3.972	3.75
50	MP1A	Mx	-.002	3.75
51	MP1B	X	3.972	1.75
52	MP1B	Mx	.000993	1.75
53	MP1B	X	3.972	3.75
54	MP1B	Mx	.000993	3.75
55	MP1C	X	3.972	1.75
56	MP1C	Mx	.000993	1.75
57	MP1C	X	3.972	3.75
58	MP1C	Mx	.000993	3.75
59	MP2A	X	.775	2
60	MP2A	Mx	-.000388	2
61	MP2A	X	.775	5
62	MP2A	Mx	-.000388	5
63	MP2B	X	.775	2
64	MP2B	Mx	.000194	2
65	MP2B	X	.775	5
66	MP2B	Mx	.000194	5
67	MP2C	X	.775	2
68	MP2C	Mx	.000194	2
69	MP2C	X	.775	5
70	MP2C	Mx	.000194	5

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M100	Y	-9.923	-9.923	0	%100
2	M101	Y	-9.923	-9.923	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
3	M102	Y	-9.923	-9.923	0	%100
4	M103	Y	-10.451	-10.451	0	%100
5	M106	Y	-5.822	-5.822	0	%100
6	M107	Y	-5.822	-5.822	0	%100
7	M111	Y	-10.438	-10.438	0	%100
8	M112	Y	-10.438	-10.438	0	%100
9	M114	Y	-10.451	-10.451	0	%100
10	M116	Y	-10.438	-10.438	0	%100
11	M117	Y	-10.438	-10.438	0	%100
12	M119	Y	-10.451	-10.451	0	%100
13	M124	Y	-9.923	-9.923	0	%100
14	M125	Y	-9.923	-9.923	0	%100
15	M126	Y	-9.923	-9.923	0	%100
16	M127	Y	-10.451	-10.451	0	%100
17	M130	Y	-5.822	-5.822	0	%100
18	M131	Y	-5.822	-5.822	0	%100
19	M135	Y	-10.438	-10.438	0	%100
20	M136	Y	-10.438	-10.438	0	%100
21	M138	Y	-10.451	-10.451	0	%100
22	M140	Y	-10.438	-10.438	0	%100
23	M141	Y	-10.438	-10.438	0	%100
24	M143	Y	-10.451	-10.451	0	%100
25	M148	Y	-9.923	-9.923	0	%100
26	M149	Y	-9.923	-9.923	0	%100
27	M150	Y	-9.923	-9.923	0	%100
28	M151	Y	-10.451	-10.451	0	%100
29	M154	Y	-5.822	-5.822	0	%100
30	M155	Y	-5.822	-5.822	0	%100
31	M159	Y	-10.438	-10.438	0	%100
32	M160	Y	-10.438	-10.438	0	%100
33	M162	Y	-10.451	-10.451	0	%100
34	M164	Y	-10.438	-10.438	0	%100
35	M165	Y	-10.438	-10.438	0	%100
36	M167	Y	-10.451	-10.451	0	%100
37	M172	Y	-6.796	-6.796	0	%100
38	MP1A	Y	-5.165	-5.165	0	%100
39	MP3A	Y	-5.89	-5.89	0	%100
40	MP2A	Y	-5.165	-5.165	0	%100
41	MP4A	Y	-5.165	-5.165	0	%100
42	M82	Y	-6.796	-6.796	0	%100
43	M91	Y	-6.796	-6.796	0	%100
44	OVP PIPE	Y	-5.165	-5.165	0	%100
45	M102A	Y	-5.89	-5.89	0	%100
46	M107A	Y	-5.89	-5.89	0	%100
47	M112A	Y	-5.89	-5.89	0	%100
48	M123A	Y	-7.873	-7.873	0	%100
49	M124A	Y	-7.873	-7.873	0	%100
50	M125A	Y	-7.873	-7.873	0	%100
51	MP1C	Y	-5.165	-5.165	0	%100
52	MP3C	Y	-5.89	-5.89	0	%100
53	MP2C	Y	-5.165	-5.165	0	%100
54	MP4C	Y	-5.165	-5.165	0	%100
55	MP1B	Y	-5.165	-5.165	0	%100
56	MP3B	Y	-5.89	-5.89	0	%100
57	MP2B	Y	-5.165	-5.165	0	%100
58	MP4B	Y	-5.165	-5.165	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	-9.847	-9.847	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	-9.847	-9.847	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	-19.642	-19.642	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	-2.727	-2.727	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	-2.727	-2.727	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	-5.001	-5.001	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	-5.268	-5.268	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	-5.001	-5.001	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	-5.268	-5.268	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	-8.728	-8.728	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	-2.462	-2.462	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	-2.462	-2.462	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	-4.91	-4.91	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	-2.727	-2.727	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	-10.907	-10.907	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	-14.731	-14.731	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	-5.001	-5.001	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	-5.268	-5.268	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	-14.731	-14.731	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	-20.006	-20.006	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	-21.071	-21.071	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	-8.728	-8.728	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	-2.462	-2.462	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	-2.462	-2.462	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	-4.91	-4.91	0	%100
57	M154	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft.F...	Start Location ft.%	End Location ft.%
58	M154	Z	-10.907	-10.907	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	-2.727	-2.727	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	-14.731	-14.731	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	-20.006	-20.006	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	-21.071	-21.071	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	-14.731	-14.731	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	-5.001	-5.001	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	-5.268	-5.268	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	-11.458	-11.458	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-7.775	-7.775	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-9.412	-9.412	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-7.775	-7.775	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-7.775	-7.775	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	-2.864	-2.864	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	-2.864	-2.864	0	%100
87	OVP PIPE	X	0	0	0	%100
88	OVP PIPE	Z	-6.358	-6.358	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	-9.412	-9.412	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	-2.353	-2.353	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	-2.353	-2.353	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	-3.107	-3.107	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	-3.107	-3.107	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	-12.427	-12.427	0	%100
101	MP1C	X	0	0	0	%100
102	MP1C	Z	-7.775	-7.775	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	-9.412	-9.412	0	%100
105	MP2C	X	0	0	0	%100
106	MP2C	Z	-7.775	-7.775	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	-7.775	-7.775	0	%100
109	MP1B	X	0	0	0	%100
110	MP1B	Z	-7.775	-7.775	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	-9.412	-9.412	0	%100
113	MP2B	X	0	0	0	%100
114	MP2B	Z	-7.775	-7.775	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
115	MP4B	X	0	0	0	%100
116	MP4B	Z	-7.775	-7.775	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M100	X	1.455	1.455	0	%100
2	M100	Z	-2.52	-2.52	0	%100
3	M101	X	3.693	3.693	0	%100
4	M101	Z	-6.396	-6.396	0	%100
5	M102	X	3.693	3.693	0	%100
6	M102	Z	-6.396	-6.396	0	%100
7	M103	X	7.366	7.366	0	%100
8	M103	Z	-12.758	-12.758	0	%100
9	M106	X	4.09	4.09	0	%100
10	M106	Z	-7.084	-7.084	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	2.455	2.455	0	%100
14	M111	Z	-4.253	-4.253	0	%100
15	M112	X	7.502	7.502	0	%100
16	M112	Z	-12.994	-12.994	0	%100
17	M114	X	7.902	7.902	0	%100
18	M114	Z	-13.686	-13.686	0	%100
19	M116	X	2.455	2.455	0	%100
20	M116	Z	-4.253	-4.253	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	1.455	1.455	0	%100
26	M124	Z	-2.52	-2.52	0	%100
27	M125	X	3.693	3.693	0	%100
28	M125	Z	-6.396	-6.396	0	%100
29	M126	X	3.693	3.693	0	%100
30	M126	Z	-6.396	-6.396	0	%100
31	M127	X	7.366	7.366	0	%100
32	M127	Z	-12.758	-12.758	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	4.09	4.09	0	%100
36	M131	Z	-7.084	-7.084	0	%100
37	M135	X	2.455	2.455	0	%100
38	M135	Z	-4.253	-4.253	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	2.455	2.455	0	%100
44	M140	Z	-4.253	-4.253	0	%100
45	M141	X	7.502	7.502	0	%100
46	M141	Z	-12.994	-12.994	0	%100
47	M143	X	7.902	7.902	0	%100
48	M143	Z	-13.686	-13.686	0	%100
49	M148	X	5.819	5.819	0	%100
50	M148	Z	-10.079	-10.079	0	%100
51	M149	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft.F...	Start Location(ft.%)	End Location(ft.%)
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	4.09	4.09	0	%100
58	M154	Z	-7.084	-7.084	0	%100
59	M155	X	4.09	4.09	0	%100
60	M155	Z	-7.084	-7.084	0	%100
61	M159	X	9.821	9.821	0	%100
62	M159	Z	-17.01	-17.01	0	%100
63	M160	X	7.502	7.502	0	%100
64	M160	Z	-12.994	-12.994	0	%100
65	M162	X	7.902	7.902	0	%100
66	M162	Z	-13.686	-13.686	0	%100
67	M164	X	9.821	9.821	0	%100
68	M164	Z	-17.01	-17.01	0	%100
69	M165	X	7.502	7.502	0	%100
70	M165	Z	-12.994	-12.994	0	%100
71	M167	X	7.902	7.902	0	%100
72	M167	Z	-13.686	-13.686	0	%100
73	M172	X	4.297	4.297	0	%100
74	M172	Z	-7.442	-7.442	0	%100
75	MP1A	X	3.887	3.887	0	%100
76	MP1A	Z	-6.733	-6.733	0	%100
77	MP3A	X	4.706	4.706	0	%100
78	MP3A	Z	-8.151	-8.151	0	%100
79	MP2A	X	3.887	3.887	0	%100
80	MP2A	Z	-6.733	-6.733	0	%100
81	MP4A	X	3.887	3.887	0	%100
82	MP4A	Z	-6.733	-6.733	0	%100
83	M82	X	4.297	4.297	0	%100
84	M82	Z	-7.442	-7.442	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	3.179	3.179	0	%100
88	OVP PIPE	Z	-5.506	-5.506	0	%100
89	M102A	X	3.529	3.529	0	%100
90	M102A	Z	-6.113	-6.113	0	%100
91	M107A	X	3.529	3.529	0	%100
92	M107A	Z	-6.113	-6.113	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	4.66	4.66	0	%100
96	M123A	Z	-8.072	-8.072	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	4.66	4.66	0	%100
100	M125A	Z	-8.072	-8.072	0	%100
101	MP1C	X	3.887	3.887	0	%100
102	MP1C	Z	-6.733	-6.733	0	%100
103	MP3C	X	4.706	4.706	0	%100
104	MP3C	Z	-8.151	-8.151	0	%100
105	MP2C	X	3.887	3.887	0	%100
106	MP2C	Z	-6.733	-6.733	0	%100
107	MP4C	X	3.887	3.887	0	%100
108	MP4C	Z	-6.733	-6.733	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
109	MP1B	X	3.887	3.887	0	%100
110	MP1B	Z	-6.733	-6.733	0	%100
111	MP3B	X	4.706	4.706	0	%100
112	MP3B	Z	-8.151	-8.151	0	%100
113	MP2B	X	3.887	3.887	0	%100
114	MP2B	Z	-6.733	-6.733	0	%100
115	MP4B	X	3.887	3.887	0	%100
116	MP4B	Z	-6.733	-6.733	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	7.559	7.559	0	%100
2	M100	Z	-4.364	-4.364	0	%100
3	M101	X	2.132	2.132	0	%100
4	M101	Z	-1.231	-1.231	0	%100
5	M102	X	2.132	2.132	0	%100
6	M102	Z	-1.231	-1.231	0	%100
7	M103	X	4.253	4.253	0	%100
8	M103	Z	-2.455	-2.455	0	%100
9	M106	X	9.445	9.445	0	%100
10	M106	Z	-5.453	-5.453	0	%100
11	M107	X	2.361	2.361	0	%100
12	M107	Z	-1.363	-1.363	0	%100
13	M111	X	12.758	12.758	0	%100
14	M111	Z	-7.366	-7.366	0	%100
15	M112	X	17.325	17.325	0	%100
16	M112	Z	-10.003	-10.003	0	%100
17	M114	X	18.248	18.248	0	%100
18	M114	Z	-10.536	-10.536	0	%100
19	M116	X	12.758	12.758	0	%100
20	M116	Z	-7.366	-7.366	0	%100
21	M117	X	4.331	4.331	0	%100
22	M117	Z	-2.501	-2.501	0	%100
23	M119	X	4.562	4.562	0	%100
24	M119	Z	-2.634	-2.634	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	8.528	8.528	0	%100
28	M125	Z	-4.924	-4.924	0	%100
29	M126	X	8.528	8.528	0	%100
30	M126	Z	-4.924	-4.924	0	%100
31	M127	X	17.01	17.01	0	%100
32	M127	Z	-9.821	-9.821	0	%100
33	M130	X	2.361	2.361	0	%100
34	M130	Z	-1.363	-1.363	0	%100
35	M131	X	2.361	2.361	0	%100
36	M131	Z	-1.363	-1.363	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	4.331	4.331	0	%100
40	M136	Z	-2.501	-2.501	0	%100
41	M138	X	4.562	4.562	0	%100
42	M138	Z	-2.634	-2.634	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	4.331	4.331	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
46	M141	Z	-2.501	-2.501	0	%100
47	M143	X	4.562	4.562	0	%100
48	M143	Z	-2.634	-2.634	0	%100
49	M148	X	7.559	7.559	0	%100
50	M148	Z	-4.364	-4.364	0	%100
51	M149	X	2.132	2.132	0	%100
52	M149	Z	-1.231	-1.231	0	%100
53	M150	X	2.132	2.132	0	%100
54	M150	Z	-1.231	-1.231	0	%100
55	M151	X	4.253	4.253	0	%100
56	M151	Z	-2.455	-2.455	0	%100
57	M154	X	2.361	2.361	0	%100
58	M154	Z	-1.363	-1.363	0	%100
59	M155	X	9.445	9.445	0	%100
60	M155	Z	-5.453	-5.453	0	%100
61	M159	X	12.758	12.758	0	%100
62	M159	Z	-7.366	-7.366	0	%100
63	M160	X	4.331	4.331	0	%100
64	M160	Z	-2.501	-2.501	0	%100
65	M162	X	4.562	4.562	0	%100
66	M162	Z	-2.634	-2.634	0	%100
67	M164	X	12.758	12.758	0	%100
68	M164	Z	-7.366	-7.366	0	%100
69	M165	X	17.325	17.325	0	%100
70	M165	Z	-10.003	-10.003	0	%100
71	M167	X	18.248	18.248	0	%100
72	M167	Z	-10.536	-10.536	0	%100
73	M172	X	2.481	2.481	0	%100
74	M172	Z	-1.432	-1.432	0	%100
75	MP1A	X	6.733	6.733	0	%100
76	MP1A	Z	-3.887	-3.887	0	%100
77	MP3A	X	8.151	8.151	0	%100
78	MP3A	Z	-4.706	-4.706	0	%100
79	MP2A	X	6.733	6.733	0	%100
80	MP2A	Z	-3.887	-3.887	0	%100
81	MP4A	X	6.733	6.733	0	%100
82	MP4A	Z	-3.887	-3.887	0	%100
83	M82	X	9.923	9.923	0	%100
84	M82	Z	-5.729	-5.729	0	%100
85	M91	X	2.481	2.481	0	%100
86	M91	Z	-1.432	-1.432	0	%100
87	OVP PIPE	X	5.506	5.506	0	%100
88	OVP PIPE	Z	-3.179	-3.179	0	%100
89	M102A	X	2.038	2.038	0	%100
90	M102A	Z	-1.176	-1.176	0	%100
91	M107A	X	8.151	8.151	0	%100
92	M107A	Z	-4.706	-4.706	0	%100
93	M112A	X	2.038	2.038	0	%100
94	M112A	Z	-1.176	-1.176	0	%100
95	M123A	X	10.762	10.762	0	%100
96	M123A	Z	-6.214	-6.214	0	%100
97	M124A	X	2.691	2.691	0	%100
98	M124A	Z	-1.553	-1.553	0	%100
99	M125A	X	2.691	2.691	0	%100
100	M125A	Z	-1.553	-1.553	0	%100
101	MP1C	X	6.733	6.733	0	%100
102	MP1C	Z	-3.887	-3.887	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
103	MP3C	X	8.151	8.151	0	%100
104	MP3C	Z	-4.706	-4.706	0	%100
105	MP2C	X	6.733	6.733	0	%100
106	MP2C	Z	-3.887	-3.887	0	%100
107	MP4C	X	6.733	6.733	0	%100
108	MP4C	Z	-3.887	-3.887	0	%100
109	MP1B	X	6.733	6.733	0	%100
110	MP1B	Z	-3.887	-3.887	0	%100
111	MP3B	X	8.151	8.151	0	%100
112	MP3B	Z	-4.706	-4.706	0	%100
113	MP2B	X	6.733	6.733	0	%100
114	MP2B	Z	-3.887	-3.887	0	%100
115	MP4B	X	6.733	6.733	0	%100
116	MP4B	Z	-3.887	-3.887	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	11.638	11.638	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	8.18	8.18	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	8.18	8.18	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	19.642	19.642	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	15.004	15.004	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	15.804	15.804	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	19.642	19.642	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	15.004	15.004	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	15.804	15.804	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	2.909	2.909	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	7.386	7.386	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	7.386	7.386	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	14.731	14.731	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	8.18	8.18	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	4.91	4.91	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	15.004	15.004	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft,%]	End Location[ft,%]
40	M136	Z	0	0	0	%100
41	M138	X	15.804	15.804	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	4.91	4.91	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	2.909	2.909	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	7.386	7.386	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	7.386	7.386	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	14.731	14.731	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	8.18	8.18	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	4.91	4.91	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	4.91	4.91	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	15.004	15.004	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	15.804	15.804	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	7.775	7.775	0	%100
76	MP1A	Z	0	0	0	%100
77	MP3A	X	9.412	9.412	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	7.775	7.775	0	%100
80	MP2A	Z	0	0	0	%100
81	MP4A	X	7.775	7.775	0	%100
82	MP4A	Z	0	0	0	%100
83	M82	X	8.593	8.593	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	8.593	8.593	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	6.358	6.358	0	%100
88	OVP PIPE	Z	0	0	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	0	0	0	%100
91	M107A	X	7.059	7.059	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	7.059	7.059	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	9.321	9.321	0	%100
96	M123A	Z	0	0	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
97	M124A	X	9.321	9.321	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	0	0	0	%100
101	MP1C	X	7.775	7.775	0	%100
102	MP1C	Z	0	0	0	%100
103	MP3C	X	9.412	9.412	0	%100
104	MP3C	Z	0	0	0	%100
105	MP2C	X	7.775	7.775	0	%100
106	MP2C	Z	0	0	0	%100
107	MP4C	X	7.775	7.775	0	%100
108	MP4C	Z	0	0	0	%100
109	MP1B	X	7.775	7.775	0	%100
110	MP1B	Z	0	0	0	%100
111	MP3B	X	9.412	9.412	0	%100
112	MP3B	Z	0	0	0	%100
113	MP2B	X	7.775	7.775	0	%100
114	MP2B	Z	0	0	0	%100
115	MP4B	X	7.775	7.775	0	%100
116	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	7.559	7.559	0	%100
2	M100	Z	4.364	4.364	0	%100
3	M101	X	2.132	2.132	0	%100
4	M101	Z	1.231	1.231	0	%100
5	M102	X	2.132	2.132	0	%100
6	M102	Z	1.231	1.231	0	%100
7	M103	X	4.253	4.253	0	%100
8	M103	Z	2.455	2.455	0	%100
9	M106	X	2.361	2.361	0	%100
10	M106	Z	1.363	1.363	0	%100
11	M107	X	9.445	9.445	0	%100
12	M107	Z	5.453	5.453	0	%100
13	M111	X	12.758	12.758	0	%100
14	M111	Z	7.366	7.366	0	%100
15	M112	X	4.331	4.331	0	%100
16	M112	Z	2.501	2.501	0	%100
17	M114	X	4.562	4.562	0	%100
18	M114	Z	2.634	2.634	0	%100
19	M116	X	12.758	12.758	0	%100
20	M116	Z	7.366	7.366	0	%100
21	M117	X	17.325	17.325	0	%100
22	M117	Z	10.003	10.003	0	%100
23	M119	X	18.248	18.248	0	%100
24	M119	Z	10.536	10.536	0	%100
25	M124	X	7.559	7.559	0	%100
26	M124	Z	4.364	4.364	0	%100
27	M125	X	2.132	2.132	0	%100
28	M125	Z	1.231	1.231	0	%100
29	M126	X	2.132	2.132	0	%100
30	M126	Z	1.231	1.231	0	%100
31	M127	X	4.253	4.253	0	%100
32	M127	Z	2.455	2.455	0	%100
33	M130	X	9.445	9.445	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
34	M130	Z	5.453	5.453	0	%100
35	M131	X	2.361	2.361	0	%100
36	M131	Z	1.363	1.363	0	%100
37	M135	X	12.758	12.758	0	%100
38	M135	Z	7.366	7.366	0	%100
39	M136	X	17.325	17.325	0	%100
40	M136	Z	10.003	10.003	0	%100
41	M138	X	18.248	18.248	0	%100
42	M138	Z	10.536	10.536	0	%100
43	M140	X	12.758	12.758	0	%100
44	M140	Z	7.366	7.366	0	%100
45	M141	X	4.331	4.331	0	%100
46	M141	Z	2.501	2.501	0	%100
47	M143	X	4.562	4.562	0	%100
48	M143	Z	2.634	2.634	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	8.528	8.528	0	%100
52	M149	Z	4.924	4.924	0	%100
53	M150	X	8.528	8.528	0	%100
54	M150	Z	4.924	4.924	0	%100
55	M151	X	17.01	17.01	0	%100
56	M151	Z	9.821	9.821	0	%100
57	M154	X	2.361	2.361	0	%100
58	M154	Z	1.363	1.363	0	%100
59	M155	X	2.361	2.361	0	%100
60	M155	Z	1.363	1.363	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	4.331	4.331	0	%100
64	M160	Z	2.501	2.501	0	%100
65	M162	X	4.562	4.562	0	%100
66	M162	Z	2.634	2.634	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	4.331	4.331	0	%100
70	M165	Z	2.501	2.501	0	%100
71	M167	X	4.562	4.562	0	%100
72	M167	Z	2.634	2.634	0	%100
73	M172	X	2.481	2.481	0	%100
74	M172	Z	1.432	1.432	0	%100
75	MP1A	X	6.733	6.733	0	%100
76	MP1A	Z	3.887	3.887	0	%100
77	MP3A	X	8.151	8.151	0	%100
78	MP3A	Z	4.706	4.706	0	%100
79	MP2A	X	6.733	6.733	0	%100
80	MP2A	Z	3.887	3.887	0	%100
81	MP4A	X	6.733	6.733	0	%100
82	MP4A	Z	3.887	3.887	0	%100
83	M82	X	2.481	2.481	0	%100
84	M82	Z	1.432	1.432	0	%100
85	M91	X	9.923	9.923	0	%100
86	M91	Z	5.729	5.729	0	%100
87	OVP PIPE	X	5.506	5.506	0	%100
88	OVP PIPE	Z	3.179	3.179	0	%100
89	M102A	X	2.038	2.038	0	%100
90	M102A	Z	1.176	1.176	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
91	M107A	X	2.038	2.038	0	%100
92	M107A	Z	1.176	1.176	0	%100
93	M112A	X	8.151	8.151	0	%100
94	M112A	Z	4.706	4.706	0	%100
95	M123A	X	2.691	2.691	0	%100
96	M123A	Z	1.553	1.553	0	%100
97	M124A	X	10.762	10.762	0	%100
98	M124A	Z	6.214	6.214	0	%100
99	M125A	X	2.691	2.691	0	%100
100	M125A	Z	1.553	1.553	0	%100
101	MP1C	X	6.733	6.733	0	%100
102	MP1C	Z	3.887	3.887	0	%100
103	MP3C	X	8.151	8.151	0	%100
104	MP3C	Z	4.706	4.706	0	%100
105	MP2C	X	6.733	6.733	0	%100
106	MP2C	Z	3.887	3.887	0	%100
107	MP4C	X	6.733	6.733	0	%100
108	MP4C	Z	3.887	3.887	0	%100
109	MP1B	X	6.733	6.733	0	%100
110	MP1B	Z	3.887	3.887	0	%100
111	MP3B	X	8.151	8.151	0	%100
112	MP3B	Z	4.706	4.706	0	%100
113	MP2B	X	6.733	6.733	0	%100
114	MP2B	Z	3.887	3.887	0	%100
115	MP4B	X	6.733	6.733	0	%100
116	MP4B	Z	3.887	3.887	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	1.455	1.455	0	%100
2	M100	Z	2.52	2.52	0	%100
3	M101	X	3.693	3.693	0	%100
4	M101	Z	6.396	6.396	0	%100
5	M102	X	3.693	3.693	0	%100
6	M102	Z	6.396	6.396	0	%100
7	M103	X	7.366	7.366	0	%100
8	M103	Z	12.758	12.758	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	4.09	4.09	0	%100
12	M107	Z	7.084	7.084	0	%100
13	M111	X	2.455	2.455	0	%100
14	M111	Z	4.253	4.253	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	2.455	2.455	0	%100
20	M116	Z	4.253	4.253	0	%100
21	M117	X	7.502	7.502	0	%100
22	M117	Z	12.994	12.994	0	%100
23	M119	X	7.902	7.902	0	%100
24	M119	Z	13.686	13.686	0	%100
25	M124	X	5.819	5.819	0	%100
26	M124	Z	10.079	10.079	0	%100
27	M125	X	0	0	0	%100



Company :  
 Designer :  
 Job Number :  
 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	4.09	4.09	0	%100
34	M130	Z	7.084	7.084	0	%100
35	M131	X	4.09	4.09	0	%100
36	M131	Z	7.084	7.084	0	%100
37	M135	X	9.821	9.821	0	%100
38	M135	Z	17.01	17.01	0	%100
39	M136	X	7.502	7.502	0	%100
40	M136	Z	12.994	12.994	0	%100
41	M138	X	7.902	7.902	0	%100
42	M138	Z	13.686	13.686	0	%100
43	M140	X	9.821	9.821	0	%100
44	M140	Z	17.01	17.01	0	%100
45	M141	X	7.502	7.502	0	%100
46	M141	Z	12.994	12.994	0	%100
47	M143	X	7.902	7.902	0	%100
48	M143	Z	13.686	13.686	0	%100
49	M148	X	1.455	1.455	0	%100
50	M148	Z	2.52	2.52	0	%100
51	M149	X	3.693	3.693	0	%100
52	M149	Z	6.396	6.396	0	%100
53	M150	X	3.693	3.693	0	%100
54	M150	Z	6.396	6.396	0	%100
55	M151	X	7.366	7.366	0	%100
56	M151	Z	12.758	12.758	0	%100
57	M154	X	4.09	4.09	0	%100
58	M154	Z	7.084	7.084	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	2.455	2.455	0	%100
62	M159	Z	4.253	4.253	0	%100
63	M160	X	7.502	7.502	0	%100
64	M160	Z	12.994	12.994	0	%100
65	M162	X	7.902	7.902	0	%100
66	M162	Z	13.686	13.686	0	%100
67	M164	X	2.455	2.455	0	%100
68	M164	Z	4.253	4.253	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	4.297	4.297	0	%100
74	M172	Z	7.442	7.442	0	%100
75	MP1A	X	3.887	3.887	0	%100
76	MP1A	Z	6.733	6.733	0	%100
77	MP3A	X	4.706	4.706	0	%100
78	MP3A	Z	8.151	8.151	0	%100
79	MP2A	X	3.887	3.887	0	%100
80	MP2A	Z	6.733	6.733	0	%100
81	MP4A	X	3.887	3.887	0	%100
82	MP4A	Z	6.733	6.733	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
85	M91	X	4.297	4.297	0	%100
86	M91	Z	7.442	7.442	0	%100
87	OVP PIPE	X	3.179	3.179	0	%100
88	OVP PIPE	Z	5.506	5.506	0	%100
89	M102A	X	3.529	3.529	0	%100
90	M102A	Z	6.113	6.113	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	3.529	3.529	0	%100
94	M112A	Z	6.113	6.113	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	4.66	4.66	0	%100
98	M124A	Z	8.072	8.072	0	%100
99	M125A	X	4.66	4.66	0	%100
100	M125A	Z	8.072	8.072	0	%100
101	MP1C	X	3.887	3.887	0	%100
102	MP1C	Z	6.733	6.733	0	%100
103	MP3C	X	4.706	4.706	0	%100
104	MP3C	Z	8.151	8.151	0	%100
105	MP2C	X	3.887	3.887	0	%100
106	MP2C	Z	6.733	6.733	0	%100
107	MP4C	X	3.887	3.887	0	%100
108	MP4C	Z	6.733	6.733	0	%100
109	MP1B	X	3.887	3.887	0	%100
110	MP1B	Z	6.733	6.733	0	%100
111	MP3B	X	4.706	4.706	0	%100
112	MP3B	Z	8.151	8.151	0	%100
113	MP2B	X	3.887	3.887	0	%100
114	MP2B	Z	6.733	6.733	0	%100
115	MP4B	X	3.887	3.887	0	%100
116	MP4B	Z	6.733	6.733	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	9.847	9.847	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	9.847	9.847	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	19.642	19.642	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	2.727	2.727	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	2.727	2.727	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	5.001	5.001	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	5.268	5.268	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft.F...	Start Locationft.-%	End Locationft.-%
22	M117	Z	5.001	5.001	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	5.268	5.268	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	8.728	8.728	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	2.462	2.462	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	2.462	2.462	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	4.91	4.91	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	2.727	2.727	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	10.907	10.907	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	14.731	14.731	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	5.001	5.001	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	5.268	5.268	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	14.731	14.731	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	20.006	20.006	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	21.071	21.071	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	8.728	8.728	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	2.462	2.462	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	2.462	2.462	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	4.91	4.91	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	10.907	10.907	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	2.727	2.727	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	14.731	14.731	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	20.006	20.006	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	21.071	21.071	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	14.731	14.731	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	5.001	5.001	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	5.268	5.268	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	11.458	11.458	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	7.775	7.775	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	9.412	9.412	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
79	MP2A	X	0	0	0	%100
80	MP2A	Z	7.775	7.775	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	7.775	7.775	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	2.864	2.864	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	2.864	2.864	0	%100
87	OVP PIPE	X	0	0	0	%100
88	OVP PIPE	Z	6.358	6.358	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	9.412	9.412	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	2.353	2.353	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	2.353	2.353	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	3.107	3.107	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	3.107	3.107	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	12.427	12.427	0	%100
101	MP1C	X	0	0	0	%100
102	MP1C	Z	7.775	7.775	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	9.412	9.412	0	%100
105	MP2C	X	0	0	0	%100
106	MP2C	Z	7.775	7.775	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	7.775	7.775	0	%100
109	MP1B	X	0	0	0	%100
110	MP1B	Z	7.775	7.775	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	9.412	9.412	0	%100
113	MP2B	X	0	0	0	%100
114	MP2B	Z	7.775	7.775	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	7.775	7.775	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-1.455	-1.455	0	%100
2	M100	Z	2.52	2.52	0	%100
3	M101	X	-3.693	-3.693	0	%100
4	M101	Z	6.396	6.396	0	%100
5	M102	X	-3.693	-3.693	0	%100
6	M102	Z	6.396	6.396	0	%100
7	M103	X	-7.366	-7.366	0	%100
8	M103	Z	12.758	12.758	0	%100
9	M106	X	-4.09	-4.09	0	%100
10	M106	Z	7.084	7.084	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-2.455	-2.455	0	%100
14	M111	Z	4.253	4.253	0	%100
15	M112	X	-7.502	-7.502	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft.F....)	Start Location(ft.%)	End Location(ft.%)
16	M112	Z	12.994	12.994	0	%100
17	M114	X	-7.902	-7.902	0	%100
18	M114	Z	13.686	13.686	0	%100
19	M116	X	-2.455	-2.455	0	%100
20	M116	Z	4.253	4.253	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-1.455	-1.455	0	%100
26	M124	Z	2.52	2.52	0	%100
27	M125	X	-3.693	-3.693	0	%100
28	M125	Z	6.396	6.396	0	%100
29	M126	X	-3.693	-3.693	0	%100
30	M126	Z	6.396	6.396	0	%100
31	M127	X	-7.366	-7.366	0	%100
32	M127	Z	12.758	12.758	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	-4.09	-4.09	0	%100
36	M131	Z	7.084	7.084	0	%100
37	M135	X	-2.455	-2.455	0	%100
38	M135	Z	4.253	4.253	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-2.455	-2.455	0	%100
44	M140	Z	4.253	4.253	0	%100
45	M141	X	-7.502	-7.502	0	%100
46	M141	Z	12.994	12.994	0	%100
47	M143	X	-7.902	-7.902	0	%100
48	M143	Z	13.686	13.686	0	%100
49	M148	X	-5.819	-5.819	0	%100
50	M148	Z	10.079	10.079	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	-4.09	-4.09	0	%100
58	M154	Z	7.084	7.084	0	%100
59	M155	X	-4.09	-4.09	0	%100
60	M155	Z	7.084	7.084	0	%100
61	M159	X	-9.821	-9.821	0	%100
62	M159	Z	17.01	17.01	0	%100
63	M160	X	-7.502	-7.502	0	%100
64	M160	Z	12.994	12.994	0	%100
65	M162	X	-7.902	-7.902	0	%100
66	M162	Z	13.686	13.686	0	%100
67	M164	X	-9.821	-9.821	0	%100
68	M164	Z	17.01	17.01	0	%100
69	M165	X	-7.502	-7.502	0	%100
70	M165	Z	12.994	12.994	0	%100
71	M167	X	-7.902	-7.902	0	%100
72	M167	Z	13.686	13.686	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
73	M172	X	-4.297	-4.297	0	%100
74	M172	Z	7.442	7.442	0	%100
75	MP1A	X	-3.887	-3.887	0	%100
76	MP1A	Z	6.733	6.733	0	%100
77	MP3A	X	-4.706	-4.706	0	%100
78	MP3A	Z	8.151	8.151	0	%100
79	MP2A	X	-3.887	-3.887	0	%100
80	MP2A	Z	6.733	6.733	0	%100
81	MP4A	X	-3.887	-3.887	0	%100
82	MP4A	Z	6.733	6.733	0	%100
83	M82	X	-4.297	-4.297	0	%100
84	M82	Z	7.442	7.442	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	-3.179	-3.179	0	%100
88	OVP PIPE	Z	5.506	5.506	0	%100
89	M102A	X	-3.529	-3.529	0	%100
90	M102A	Z	6.113	6.113	0	%100
91	M107A	X	-3.529	-3.529	0	%100
92	M107A	Z	6.113	6.113	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	-4.66	-4.66	0	%100
96	M123A	Z	8.072	8.072	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	-4.66	-4.66	0	%100
100	M125A	Z	8.072	8.072	0	%100
101	MP1C	X	-3.887	-3.887	0	%100
102	MP1C	Z	6.733	6.733	0	%100
103	MP3C	X	-4.706	-4.706	0	%100
104	MP3C	Z	8.151	8.151	0	%100
105	MP2C	X	-3.887	-3.887	0	%100
106	MP2C	Z	6.733	6.733	0	%100
107	MP4C	X	-3.887	-3.887	0	%100
108	MP4C	Z	6.733	6.733	0	%100
109	MP1B	X	-3.887	-3.887	0	%100
110	MP1B	Z	6.733	6.733	0	%100
111	MP3B	X	-4.706	-4.706	0	%100
112	MP3B	Z	8.151	8.151	0	%100
113	MP2B	X	-3.887	-3.887	0	%100
114	MP2B	Z	6.733	6.733	0	%100
115	MP4B	X	-3.887	-3.887	0	%100
116	MP4B	Z	6.733	6.733	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-7.559	-7.559	0	%100
2	M100	Z	4.364	4.364	0	%100
3	M101	X	-2.132	-2.132	0	%100
4	M101	Z	1.231	1.231	0	%100
5	M102	X	-2.132	-2.132	0	%100
6	M102	Z	1.231	1.231	0	%100
7	M103	X	-4.253	-4.253	0	%100
8	M103	Z	2.455	2.455	0	%100
9	M106	X	-9.445	-9.445	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
10	M106	Z	5.453	5.453	0	%100
11	M107	X	-2.361	-2.361	0	%100
12	M107	Z	1.363	1.363	0	%100
13	M111	X	-12.758	-12.758	0	%100
14	M111	Z	7.366	7.366	0	%100
15	M112	X	-17.325	-17.325	0	%100
16	M112	Z	10.003	10.003	0	%100
17	M114	X	-18.248	-18.248	0	%100
18	M114	Z	10.536	10.536	0	%100
19	M116	X	-12.758	-12.758	0	%100
20	M116	Z	7.366	7.366	0	%100
21	M117	X	-4.331	-4.331	0	%100
22	M117	Z	2.501	2.501	0	%100
23	M119	X	-4.562	-4.562	0	%100
24	M119	Z	2.634	2.634	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-8.528	-8.528	0	%100
28	M125	Z	4.924	4.924	0	%100
29	M126	X	-8.528	-8.528	0	%100
30	M126	Z	4.924	4.924	0	%100
31	M127	X	-17.01	-17.01	0	%100
32	M127	Z	9.821	9.821	0	%100
33	M130	X	-2.361	-2.361	0	%100
34	M130	Z	1.363	1.363	0	%100
35	M131	X	-2.361	-2.361	0	%100
36	M131	Z	1.363	1.363	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-4.331	-4.331	0	%100
40	M136	Z	2.501	2.501	0	%100
41	M138	X	-4.562	-4.562	0	%100
42	M138	Z	2.634	2.634	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	-4.331	-4.331	0	%100
46	M141	Z	2.501	2.501	0	%100
47	M143	X	-4.562	-4.562	0	%100
48	M143	Z	2.634	2.634	0	%100
49	M148	X	-7.559	-7.559	0	%100
50	M148	Z	4.364	4.364	0	%100
51	M149	X	-2.132	-2.132	0	%100
52	M149	Z	1.231	1.231	0	%100
53	M150	X	-2.132	-2.132	0	%100
54	M150	Z	1.231	1.231	0	%100
55	M151	X	-4.253	-4.253	0	%100
56	M151	Z	2.455	2.455	0	%100
57	M154	X	-2.361	-2.361	0	%100
58	M154	Z	1.363	1.363	0	%100
59	M155	X	-9.445	-9.445	0	%100
60	M155	Z	5.453	5.453	0	%100
61	M159	X	-12.758	-12.758	0	%100
62	M159	Z	7.366	7.366	0	%100
63	M160	X	-4.331	-4.331	0	%100
64	M160	Z	2.501	2.501	0	%100
65	M162	X	-4.562	-4.562	0	%100
66	M162	Z	2.634	2.634	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
67	M164	X	-12.758	-12.758	0	%100
68	M164	Z	7.366	7.366	0	%100
69	M165	X	-17.325	-17.325	0	%100
70	M165	Z	10.003	10.003	0	%100
71	M167	X	-18.248	-18.248	0	%100
72	M167	Z	10.536	10.536	0	%100
73	M172	X	-2.481	-2.481	0	%100
74	M172	Z	1.432	1.432	0	%100
75	MP1A	X	-6.733	-6.733	0	%100
76	MP1A	Z	3.887	3.887	0	%100
77	MP3A	X	-8.151	-8.151	0	%100
78	MP3A	Z	4.706	4.706	0	%100
79	MP2A	X	-6.733	-6.733	0	%100
80	MP2A	Z	3.887	3.887	0	%100
81	MP4A	X	-6.733	-6.733	0	%100
82	MP4A	Z	3.887	3.887	0	%100
83	M82	X	-9.923	-9.923	0	%100
84	M82	Z	5.729	5.729	0	%100
85	M91	X	-2.481	-2.481	0	%100
86	M91	Z	1.432	1.432	0	%100
87	OVP PIPE	X	-5.506	-5.506	0	%100
88	OVP PIPE	Z	3.179	3.179	0	%100
89	M102A	X	-2.038	-2.038	0	%100
90	M102A	Z	1.176	1.176	0	%100
91	M107A	X	-8.151	-8.151	0	%100
92	M107A	Z	4.706	4.706	0	%100
93	M112A	X	-2.038	-2.038	0	%100
94	M112A	Z	1.176	1.176	0	%100
95	M123A	X	-10.762	-10.762	0	%100
96	M123A	Z	6.214	6.214	0	%100
97	M124A	X	-2.691	-2.691	0	%100
98	M124A	Z	1.553	1.553	0	%100
99	M125A	X	-2.691	-2.691	0	%100
100	M125A	Z	1.553	1.553	0	%100
101	MP1C	X	-6.733	-6.733	0	%100
102	MP1C	Z	3.887	3.887	0	%100
103	MP3C	X	-8.151	-8.151	0	%100
104	MP3C	Z	4.706	4.706	0	%100
105	MP2C	X	-6.733	-6.733	0	%100
106	MP2C	Z	3.887	3.887	0	%100
107	MP4C	X	-6.733	-6.733	0	%100
108	MP4C	Z	3.887	3.887	0	%100
109	MP1B	X	-6.733	-6.733	0	%100
110	MP1B	Z	3.887	3.887	0	%100
111	MP3B	X	-8.151	-8.151	0	%100
112	MP3B	Z	4.706	4.706	0	%100
113	MP2B	X	-6.733	-6.733	0	%100
114	MP2B	Z	3.887	3.887	0	%100
115	MP4B	X	-6.733	-6.733	0	%100
116	MP4B	Z	3.887	3.887	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-11.638	-11.638	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	-8.18	-8.18	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-8.18	-8.18	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-19.642	-19.642	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	-15.004	-15.004	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	-15.804	-15.804	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-19.642	-19.642	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	-15.004	-15.004	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	-15.804	-15.804	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-2.909	-2.909	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-7.386	-7.386	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	-7.386	-7.386	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	-14.731	-14.731	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-8.18	-8.18	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	-4.91	-4.91	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-15.004	-15.004	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	-15.804	-15.804	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-4.91	-4.91	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	-2.909	-2.909	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-7.386	-7.386	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	-7.386	-7.386	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	-14.731	-14.731	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	-8.18	-8.18	0	%100
60	M155	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
61	M159	X	-4.91	-4.91	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	-4.91	-4.91	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-15.004	-15.004	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	-15.804	-15.804	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	-7.775	-7.775	0	%100
76	MP1A	Z	0	0	0	%100
77	MP3A	X	-9.412	-9.412	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	-7.775	-7.775	0	%100
80	MP2A	Z	0	0	0	%100
81	MP4A	X	-7.775	-7.775	0	%100
82	MP4A	Z	0	0	0	%100
83	M82	X	-8.593	-8.593	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	-8.593	-8.593	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	-6.358	-6.358	0	%100
88	OVP PIPE	Z	0	0	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	0	0	0	%100
91	M107A	X	-7.059	-7.059	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	-7.059	-7.059	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	-9.321	-9.321	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	-9.321	-9.321	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	0	0	0	%100
101	MP1C	X	-7.775	-7.775	0	%100
102	MP1C	Z	0	0	0	%100
103	MP3C	X	-9.412	-9.412	0	%100
104	MP3C	Z	0	0	0	%100
105	MP2C	X	-7.775	-7.775	0	%100
106	MP2C	Z	0	0	0	%100
107	MP4C	X	-7.775	-7.775	0	%100
108	MP4C	Z	0	0	0	%100
109	MP1B	X	-7.775	-7.775	0	%100
110	MP1B	Z	0	0	0	%100
111	MP3B	X	-9.412	-9.412	0	%100
112	MP3B	Z	0	0	0	%100
113	MP2B	X	-7.775	-7.775	0	%100
114	MP2B	Z	0	0	0	%100
115	MP4B	X	-7.775	-7.775	0	%100
116	MP4B	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-7.559	-7.559	0	%100
2	M100	Z	-4.364	-4.364	0	%100
3	M101	X	-2.132	-2.132	0	%100
4	M101	Z	-1.231	-1.231	0	%100
5	M102	X	-2.132	-2.132	0	%100
6	M102	Z	-1.231	-1.231	0	%100
7	M103	X	-4.253	-4.253	0	%100
8	M103	Z	-2.455	-2.455	0	%100
9	M106	X	-2.361	-2.361	0	%100
10	M106	Z	-1.363	-1.363	0	%100
11	M107	X	-9.445	-9.445	0	%100
12	M107	Z	-5.453	-5.453	0	%100
13	M111	X	-12.758	-12.758	0	%100
14	M111	Z	-7.366	-7.366	0	%100
15	M112	X	-4.331	-4.331	0	%100
16	M112	Z	-2.501	-2.501	0	%100
17	M114	X	-4.562	-4.562	0	%100
18	M114	Z	-2.634	-2.634	0	%100
19	M116	X	-12.758	-12.758	0	%100
20	M116	Z	-7.366	-7.366	0	%100
21	M117	X	-17.325	-17.325	0	%100
22	M117	Z	-10.003	-10.003	0	%100
23	M119	X	-18.248	-18.248	0	%100
24	M119	Z	-10.536	-10.536	0	%100
25	M124	X	-7.559	-7.559	0	%100
26	M124	Z	-4.364	-4.364	0	%100
27	M125	X	-2.132	-2.132	0	%100
28	M125	Z	-1.231	-1.231	0	%100
29	M126	X	-2.132	-2.132	0	%100
30	M126	Z	-1.231	-1.231	0	%100
31	M127	X	-4.253	-4.253	0	%100
32	M127	Z	-2.455	-2.455	0	%100
33	M130	X	-9.445	-9.445	0	%100
34	M130	Z	-5.453	-5.453	0	%100
35	M131	X	-2.361	-2.361	0	%100
36	M131	Z	-1.363	-1.363	0	%100
37	M135	X	-12.758	-12.758	0	%100
38	M135	Z	-7.366	-7.366	0	%100
39	M136	X	-17.325	-17.325	0	%100
40	M136	Z	-10.003	-10.003	0	%100
41	M138	X	-18.248	-18.248	0	%100
42	M138	Z	-10.536	-10.536	0	%100
43	M140	X	-12.758	-12.758	0	%100
44	M140	Z	-7.366	-7.366	0	%100
45	M141	X	-4.331	-4.331	0	%100
46	M141	Z	-2.501	-2.501	0	%100
47	M143	X	-4.562	-4.562	0	%100
48	M143	Z	-2.634	-2.634	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-8.528	-8.528	0	%100
52	M149	Z	-4.924	-4.924	0	%100
53	M150	X	-8.528	-8.528	0	%100
54	M150	Z	-4.924	-4.924	0	%100
55	M151	X	-17.01	-17.01	0	%100
56	M151	Z	-9.821	-9.821	0	%100
57	M154	X	-2.361	-2.361	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
58	M154	Z	-1.363	-1.363	0	%100
59	M155	X	-2.361	-2.361	0	%100
60	M155	Z	-1.363	-1.363	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	-4.331	-4.331	0	%100
64	M160	Z	-2.501	-2.501	0	%100
65	M162	X	-4.562	-4.562	0	%100
66	M162	Z	-2.634	-2.634	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-4.331	-4.331	0	%100
70	M165	Z	-2.501	-2.501	0	%100
71	M167	X	-4.562	-4.562	0	%100
72	M167	Z	-2.634	-2.634	0	%100
73	M172	X	-2.481	-2.481	0	%100
74	M172	Z	-1.432	-1.432	0	%100
75	MP1A	X	-6.733	-6.733	0	%100
76	MP1A	Z	-3.887	-3.887	0	%100
77	MP3A	X	-8.151	-8.151	0	%100
78	MP3A	Z	-4.706	-4.706	0	%100
79	MP2A	X	-6.733	-6.733	0	%100
80	MP2A	Z	-3.887	-3.887	0	%100
81	MP4A	X	-6.733	-6.733	0	%100
82	MP4A	Z	-3.887	-3.887	0	%100
83	M82	X	-2.481	-2.481	0	%100
84	M82	Z	-1.432	-1.432	0	%100
85	M91	X	-9.923	-9.923	0	%100
86	M91	Z	-5.729	-5.729	0	%100
87	OVP PIPE	X	-5.506	-5.506	0	%100
88	OVP PIPE	Z	-3.179	-3.179	0	%100
89	M102A	X	-2.038	-2.038	0	%100
90	M102A	Z	-1.176	-1.176	0	%100
91	M107A	X	-2.038	-2.038	0	%100
92	M107A	Z	-1.176	-1.176	0	%100
93	M112A	X	-8.151	-8.151	0	%100
94	M112A	Z	-4.706	-4.706	0	%100
95	M123A	X	-2.691	-2.691	0	%100
96	M123A	Z	-1.553	-1.553	0	%100
97	M124A	X	-10.762	-10.762	0	%100
98	M124A	Z	-6.214	-6.214	0	%100
99	M125A	X	-2.691	-2.691	0	%100
100	M125A	Z	-1.553	-1.553	0	%100
101	MP1C	X	-6.733	-6.733	0	%100
102	MP1C	Z	-3.887	-3.887	0	%100
103	MP3C	X	-8.151	-8.151	0	%100
104	MP3C	Z	-4.706	-4.706	0	%100
105	MP2C	X	-6.733	-6.733	0	%100
106	MP2C	Z	-3.887	-3.887	0	%100
107	MP4C	X	-6.733	-6.733	0	%100
108	MP4C	Z	-3.887	-3.887	0	%100
109	MP1B	X	-6.733	-6.733	0	%100
110	MP1B	Z	-3.887	-3.887	0	%100
111	MP3B	X	-8.151	-8.151	0	%100
112	MP3B	Z	-4.706	-4.706	0	%100
113	MP2B	X	-6.733	-6.733	0	%100
114	MP2B	Z	-3.887	-3.887	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
115	MP4B	X	-6.733	-6.733	0	%100
116	MP4B	Z	-3.887	-3.887	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-1.455	-1.455	0	%100
2	M100	Z	-2.52	-2.52	0	%100
3	M101	X	-3.693	-3.693	0	%100
4	M101	Z	-6.396	-6.396	0	%100
5	M102	X	-3.693	-3.693	0	%100
6	M102	Z	-6.396	-6.396	0	%100
7	M103	X	-7.366	-7.366	0	%100
8	M103	Z	-12.758	-12.758	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-4.09	-4.09	0	%100
12	M107	Z	-7.084	-7.084	0	%100
13	M111	X	-2.455	-2.455	0	%100
14	M111	Z	-4.253	-4.253	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-2.455	-2.455	0	%100
20	M116	Z	-4.253	-4.253	0	%100
21	M117	X	-7.502	-7.502	0	%100
22	M117	Z	-12.994	-12.994	0	%100
23	M119	X	-7.902	-7.902	0	%100
24	M119	Z	-13.686	-13.686	0	%100
25	M124	X	-5.819	-5.819	0	%100
26	M124	Z	-10.079	-10.079	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-4.09	-4.09	0	%100
34	M130	Z	-7.084	-7.084	0	%100
35	M131	X	-4.09	-4.09	0	%100
36	M131	Z	-7.084	-7.084	0	%100
37	M135	X	-9.821	-9.821	0	%100
38	M135	Z	-17.01	-17.01	0	%100
39	M136	X	-7.502	-7.502	0	%100
40	M136	Z	-12.994	-12.994	0	%100
41	M138	X	-7.902	-7.902	0	%100
42	M138	Z	-13.686	-13.686	0	%100
43	M140	X	-9.821	-9.821	0	%100
44	M140	Z	-17.01	-17.01	0	%100
45	M141	X	-7.502	-7.502	0	%100
46	M141	Z	-12.994	-12.994	0	%100
47	M143	X	-7.902	-7.902	0	%100
48	M143	Z	-13.686	-13.686	0	%100
49	M148	X	-1.455	-1.455	0	%100
50	M148	Z	-2.52	-2.52	0	%100
51	M149	X	-3.693	-3.693	0	%100





Company :  
 Designer :  
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**Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
52	M149	Z	-6.396	-6.396	0	%100
53	M150	X	-3.693	-3.693	0	%100
54	M150	Z	-6.396	-6.396	0	%100
55	M151	X	-7.366	-7.366	0	%100
56	M151	Z	-12.758	-12.758	0	%100
57	M154	X	-4.09	-4.09	0	%100
58	M154	Z	-7.084	-7.084	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-2.455	-2.455	0	%100
62	M159	Z	-4.253	-4.253	0	%100
63	M160	X	-7.502	-7.502	0	%100
64	M160	Z	-12.994	-12.994	0	%100
65	M162	X	-7.902	-7.902	0	%100
66	M162	Z	-13.686	-13.686	0	%100
67	M164	X	-2.455	-2.455	0	%100
68	M164	Z	-4.253	-4.253	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	-4.297	-4.297	0	%100
74	M172	Z	-7.442	-7.442	0	%100
75	MP1A	X	-3.887	-3.887	0	%100
76	MP1A	Z	-6.733	-6.733	0	%100
77	MP3A	X	-4.706	-4.706	0	%100
78	MP3A	Z	-8.151	-8.151	0	%100
79	MP2A	X	-3.887	-3.887	0	%100
80	MP2A	Z	-6.733	-6.733	0	%100
81	MP4A	X	-3.887	-3.887	0	%100
82	MP4A	Z	-6.733	-6.733	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	-4.297	-4.297	0	%100
86	M91	Z	-7.442	-7.442	0	%100
87	OVP PIPE	X	-3.179	-3.179	0	%100
88	OVP PIPE	Z	-5.506	-5.506	0	%100
89	M102A	X	-3.529	-3.529	0	%100
90	M102A	Z	-6.113	-6.113	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	-3.529	-3.529	0	%100
94	M112A	Z	-6.113	-6.113	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	-4.66	-4.66	0	%100
98	M124A	Z	-8.072	-8.072	0	%100
99	M125A	X	-4.66	-4.66	0	%100
100	M125A	Z	-8.072	-8.072	0	%100
101	MP1C	X	-3.887	-3.887	0	%100
102	MP1C	Z	-6.733	-6.733	0	%100
103	MP3C	X	-4.706	-4.706	0	%100
104	MP3C	Z	-8.151	-8.151	0	%100
105	MP2C	X	-3.887	-3.887	0	%100
106	MP2C	Z	-6.733	-6.733	0	%100
107	MP4C	X	-3.887	-3.887	0	%100
108	MP4C	Z	-6.733	-6.733	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
109	MP1B	X	-3.887	-3.887	0	%100
110	MP1B	Z	-6.733	-6.733	0	%100
111	MP3B	X	-4.706	-4.706	0	%100
112	MP3B	Z	-8.151	-8.151	0	%100
113	MP2B	X	-3.887	-3.887	0	%100
114	MP2B	Z	-6.733	-6.733	0	%100
115	MP4B	X	-3.887	-3.887	0	%100
116	MP4B	Z	-6.733	-6.733	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	-2.977	-2.977	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	-2.977	-2.977	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	-4.644	-4.644	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	-856	-856	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	-856	-856	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	-1.16	-1.16	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	-1.21	-1.21	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	-1.16	-1.16	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	-1.21	-1.21	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	-2.752	-2.752	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	-744	-744	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	-744	-744	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	-1.161	-1.161	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	-856	-856	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	-3.423	-3.423	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	-3.427	-3.427	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	-1.16	-1.16	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	-1.21	-1.21	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	-3.427	-3.427	0	%100
45	M141	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
46	M141	Z	-4.639	-4.639	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	-4.84	-4.84	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	-2.752	-2.752	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	-.744	-.744	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	-.744	-.744	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	-1.161	-1.161	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	-3.423	-3.423	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	-.856	-.856	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	-3.427	-3.427	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	-4.639	-4.639	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	-4.84	-4.84	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	-3.427	-3.427	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	-1.16	-1.16	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	-1.21	-1.21	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	-3.635	-3.635	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-2.939	-2.939	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-3.248	-3.248	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-2.939	-2.939	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-2.939	-2.939	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	-.909	-.909	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	-.909	-.909	0	%100
87	OVP PIPE	X	0	0	0	%100
88	OVP PIPE	Z	-2.403	-2.403	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	-3.248	-3.248	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	-.812	-.812	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	-.812	-.812	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	-.875	-.875	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	-.875	-.875	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	-3.501	-3.501	0	%100
101	MP1C	X	0	0	0	%100
102	MP1C	Z	-2.939	-2.939	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
103	MP3C	X	0	0	0	%100
104	MP3C	Z	-3.248	-3.248	0	%100
105	MP2C	X	0	0	0	%100
106	MP2C	Z	-2.939	-2.939	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	-2.939	-2.939	0	%100
109	MP1B	X	0	0	0	%100
110	MP1B	Z	-2.939	-2.939	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	-3.248	-3.248	0	%100
113	MP2B	X	0	0	0	%100
114	MP2B	Z	-2.939	-2.939	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	-2.939	-2.939	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.459	.459	0	%100
2	M100	Z	-.794	-.794	0	%100
3	M101	X	1.116	1.116	0	%100
4	M101	Z	-1.934	-1.934	0	%100
5	M102	X	1.116	1.116	0	%100
6	M102	Z	-1.934	-1.934	0	%100
7	M103	X	1.741	1.741	0	%100
8	M103	Z	-3.016	-3.016	0	%100
9	M106	X	1.284	1.284	0	%100
10	M106	Z	-2.223	-2.223	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	.571	.571	0	%100
14	M111	Z	-.989	-.989	0	%100
15	M112	X	1.739	1.739	0	%100
16	M112	Z	-3.013	-3.013	0	%100
17	M114	X	1.815	1.815	0	%100
18	M114	Z	-3.144	-3.144	0	%100
19	M116	X	.571	.571	0	%100
20	M116	Z	-.989	-.989	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.459	.459	0	%100
26	M124	Z	-.794	-.794	0	%100
27	M125	X	1.116	1.116	0	%100
28	M125	Z	-1.934	-1.934	0	%100
29	M126	X	1.116	1.116	0	%100
30	M126	Z	-1.934	-1.934	0	%100
31	M127	X	1.741	1.741	0	%100
32	M127	Z	-3.016	-3.016	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	1.284	1.284	0	%100
36	M131	Z	-2.223	-2.223	0	%100
37	M135	X	.571	.571	0	%100
38	M135	Z	-.989	-.989	0	%100
39	M136	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	.571	.571	0	%100
44	M140	Z	-.989	-.989	0	%100
45	M141	X	1.739	1.739	0	%100
46	M141	Z	-3.013	-3.013	0	%100
47	M143	X	1.815	1.815	0	%100
48	M143	Z	-3.144	-3.144	0	%100
49	M148	X	1.834	1.834	0	%100
50	M148	Z	-3.177	-3.177	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	1.284	1.284	0	%100
58	M154	Z	-2.223	-2.223	0	%100
59	M155	X	1.284	1.284	0	%100
60	M155	Z	-2.223	-2.223	0	%100
61	M159	X	2.285	2.285	0	%100
62	M159	Z	-3.958	-3.958	0	%100
63	M160	X	1.739	1.739	0	%100
64	M160	Z	-3.013	-3.013	0	%100
65	M162	X	1.815	1.815	0	%100
66	M162	Z	-3.144	-3.144	0	%100
67	M164	X	2.285	2.285	0	%100
68	M164	Z	-3.958	-3.958	0	%100
69	M165	X	1.739	1.739	0	%100
70	M165	Z	-3.013	-3.013	0	%100
71	M167	X	1.815	1.815	0	%100
72	M167	Z	-3.144	-3.144	0	%100
73	M172	X	1.363	1.363	0	%100
74	M172	Z	-2.361	-2.361	0	%100
75	MP1A	X	1.469	1.469	0	%100
76	MP1A	Z	-2.545	-2.545	0	%100
77	MP3A	X	1.624	1.624	0	%100
78	MP3A	Z	-2.813	-2.813	0	%100
79	MP2A	X	1.469	1.469	0	%100
80	MP2A	Z	-2.545	-2.545	0	%100
81	MP4A	X	1.469	1.469	0	%100
82	MP4A	Z	-2.545	-2.545	0	%100
83	M82	X	1.363	1.363	0	%100
84	M82	Z	-2.361	-2.361	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	1.202	1.202	0	%100
88	OVP PIPE	Z	-2.081	-2.081	0	%100
89	M102A	X	1.218	1.218	0	%100
90	M102A	Z	-2.11	-2.11	0	%100
91	M107A	X	1.218	1.218	0	%100
92	M107A	Z	-2.11	-2.11	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	1.313	1.313	0	%100
96	M123A	Z	-2.274	-2.274	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
97	M124A	X	0	0	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	1.313	1.313	0	%100
100	M125A	Z	-2.274	-2.274	0	%100
101	MP1C	X	1.469	1.469	0	%100
102	MP1C	Z	-2.545	-2.545	0	%100
103	MP3C	X	1.624	1.624	0	%100
104	MP3C	Z	-2.813	-2.813	0	%100
105	MP2C	X	1.469	1.469	0	%100
106	MP2C	Z	-2.545	-2.545	0	%100
107	MP4C	X	1.469	1.469	0	%100
108	MP4C	Z	-2.545	-2.545	0	%100
109	MP1B	X	1.469	1.469	0	%100
110	MP1B	Z	-2.545	-2.545	0	%100
111	MP3B	X	1.624	1.624	0	%100
112	MP3B	Z	-2.813	-2.813	0	%100
113	MP2B	X	1.469	1.469	0	%100
114	MP2B	Z	-2.545	-2.545	0	%100
115	MP4B	X	1.469	1.469	0	%100
116	MP4B	Z	-2.545	-2.545	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	2.383	2.383	0	%100
2	M100	Z	-1.376	-1.376	0	%100
3	M101	X	.645	.645	0	%100
4	M101	Z	-.372	-.372	0	%100
5	M102	X	.645	.645	0	%100
6	M102	Z	-.372	-.372	0	%100
7	M103	X	1.005	1.005	0	%100
8	M103	Z	-.58	-.58	0	%100
9	M106	X	2.964	2.964	0	%100
10	M106	Z	-1.711	-1.711	0	%100
11	M107	X	.741	.741	0	%100
12	M107	Z	-.428	-.428	0	%100
13	M111	X	2.968	2.968	0	%100
14	M111	Z	-1.714	-1.714	0	%100
15	M112	X	4.017	4.017	0	%100
16	M112	Z	-2.319	-2.319	0	%100
17	M114	X	4.192	4.192	0	%100
18	M114	Z	-2.42	-2.42	0	%100
19	M116	X	2.968	2.968	0	%100
20	M116	Z	-1.714	-1.714	0	%100
21	M117	X	1.004	1.004	0	%100
22	M117	Z	-.58	-.58	0	%100
23	M119	X	1.048	1.048	0	%100
24	M119	Z	-.605	-.605	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	2.578	2.578	0	%100
28	M125	Z	-1.488	-1.488	0	%100
29	M126	X	2.578	2.578	0	%100
30	M126	Z	-1.488	-1.488	0	%100
31	M127	X	4.022	4.022	0	%100
32	M127	Z	-2.322	-2.322	0	%100
33	M130	X	.741	.741	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	M130	Z	- .428	- .428	0	%100
35	M131	X	.741	.741	0	%100
36	M131	Z	- .428	- .428	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	1.004	1.004	0	%100
40	M136	Z	- .58	- .58	0	%100
41	M138	X	1.048	1.048	0	%100
42	M138	Z	- .605	- .605	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	1.004	1.004	0	%100
46	M141	Z	- .58	- .58	0	%100
47	M143	X	1.048	1.048	0	%100
48	M143	Z	- .605	- .605	0	%100
49	M148	X	2.383	2.383	0	%100
50	M148	Z	-1.376	-1.376	0	%100
51	M149	X	.645	.645	0	%100
52	M149	Z	- .372	- .372	0	%100
53	M150	X	.645	.645	0	%100
54	M150	Z	- .372	- .372	0	%100
55	M151	X	1.005	1.005	0	%100
56	M151	Z	- .58	- .58	0	%100
57	M154	X	.741	.741	0	%100
58	M154	Z	- .428	- .428	0	%100
59	M155	X	2.964	2.964	0	%100
60	M155	Z	-1.711	-1.711	0	%100
61	M159	X	2.968	2.968	0	%100
62	M159	Z	-1.714	-1.714	0	%100
63	M160	X	1.004	1.004	0	%100
64	M160	Z	- .58	- .58	0	%100
65	M162	X	1.048	1.048	0	%100
66	M162	Z	- .605	- .605	0	%100
67	M164	X	2.968	2.968	0	%100
68	M164	Z	-1.714	-1.714	0	%100
69	M165	X	4.017	4.017	0	%100
70	M165	Z	-2.319	-2.319	0	%100
71	M167	X	4.192	4.192	0	%100
72	M167	Z	-2.42	-2.42	0	%100
73	M172	X	.787	.787	0	%100
74	M172	Z	- .454	- .454	0	%100
75	MP1A	X	2.545	2.545	0	%100
76	MP1A	Z	-1.469	-1.469	0	%100
77	MP3A	X	2.813	2.813	0	%100
78	MP3A	Z	-1.624	-1.624	0	%100
79	MP2A	X	2.545	2.545	0	%100
80	MP2A	Z	-1.469	-1.469	0	%100
81	MP4A	X	2.545	2.545	0	%100
82	MP4A	Z	-1.469	-1.469	0	%100
83	M82	X	3.148	3.148	0	%100
84	M82	Z	-1.817	-1.817	0	%100
85	M91	X	.787	.787	0	%100
86	M91	Z	- .454	- .454	0	%100
87	OVP PIPE	X	2.081	2.081	0	%100
88	OVP PIPE	Z	-1.202	-1.202	0	%100
89	M102A	X	.703	.703	0	%100
90	M102A	Z	- .406	- .406	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
91	M107A	X	2.813	2.813	0	%100
92	M107A	Z	-1.624	-1.624	0	%100
93	M112A	X	.703	.703	0	%100
94	M112A	Z	-.406	-.406	0	%100
95	M123A	X	3.032	3.032	0	%100
96	M123A	Z	-1.75	-1.75	0	%100
97	M124A	X	.758	.758	0	%100
98	M124A	Z	-.438	-.438	0	%100
99	M125A	X	.758	.758	0	%100
100	M125A	Z	-.438	-.438	0	%100
101	MP1C	X	2.545	2.545	0	%100
102	MP1C	Z	-1.469	-1.469	0	%100
103	MP3C	X	2.813	2.813	0	%100
104	MP3C	Z	-1.624	-1.624	0	%100
105	MP2C	X	2.545	2.545	0	%100
106	MP2C	Z	-1.469	-1.469	0	%100
107	MP4C	X	2.545	2.545	0	%100
108	MP4C	Z	-1.469	-1.469	0	%100
109	MP1B	X	2.545	2.545	0	%100
110	MP1B	Z	-1.469	-1.469	0	%100
111	MP3B	X	2.813	2.813	0	%100
112	MP3B	Z	-1.624	-1.624	0	%100
113	MP2B	X	2.545	2.545	0	%100
114	MP2B	Z	-1.469	-1.469	0	%100
115	MP4B	X	2.545	2.545	0	%100
116	MP4B	Z	-1.469	-1.469	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	3.669	3.669	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	2.567	2.567	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	2.567	2.567	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	4.57	4.57	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	3.479	3.479	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	3.63	3.63	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	4.57	4.57	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	3.479	3.479	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	3.63	3.63	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.917	.917	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	2.233	2.233	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
28	M125	Z	0	0	0	%100
29	M126	X	2.233	2.233	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	3.483	3.483	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	2.567	2.567	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	1.142	1.142	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	3.479	3.479	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	3.63	3.63	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	1.142	1.142	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	.917	.917	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	2.233	2.233	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	2.233	2.233	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	3.483	3.483	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	2.567	2.567	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	1.142	1.142	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	1.142	1.142	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	3.479	3.479	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	3.63	3.63	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	2.939	2.939	0	%100
76	MP1A	Z	0	0	0	%100
77	MP3A	X	3.248	3.248	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	2.939	2.939	0	%100
80	MP2A	Z	0	0	0	%100
81	MP4A	X	2.939	2.939	0	%100
82	MP4A	Z	0	0	0	%100
83	M82	X	2.726	2.726	0	%100
84	M82	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
85	M91	X	2.726	2.726	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	2.403	2.403	0	%100
88	OVP PIPE	Z	0	0	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	0	0	0	%100
91	M107A	X	2.436	2.436	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	2.436	2.436	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	2.626	2.626	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	2.626	2.626	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	0	0	0	%100
101	MP1C	X	2.939	2.939	0	%100
102	MP1C	Z	0	0	0	%100
103	MP3C	X	3.248	3.248	0	%100
104	MP3C	Z	0	0	0	%100
105	MP2C	X	2.939	2.939	0	%100
106	MP2C	Z	0	0	0	%100
107	MP4C	X	2.939	2.939	0	%100
108	MP4C	Z	0	0	0	%100
109	MP1B	X	2.939	2.939	0	%100
110	MP1B	Z	0	0	0	%100
111	MP3B	X	3.248	3.248	0	%100
112	MP3B	Z	0	0	0	%100
113	MP2B	X	2.939	2.939	0	%100
114	MP2B	Z	0	0	0	%100
115	MP4B	X	2.939	2.939	0	%100
116	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	2.383	2.383	0	%100
2	M100	Z	1.376	1.376	0	%100
3	M101	X	.645	.645	0	%100
4	M101	Z	.372	.372	0	%100
5	M102	X	.645	.645	0	%100
6	M102	Z	.372	.372	0	%100
7	M103	X	1.005	1.005	0	%100
8	M103	Z	.58	.58	0	%100
9	M106	X	.741	.741	0	%100
10	M106	Z	.428	.428	0	%100
11	M107	X	2.964	2.964	0	%100
12	M107	Z	1.711	1.711	0	%100
13	M111	X	2.968	2.968	0	%100
14	M111	Z	1.714	1.714	0	%100
15	M112	X	1.004	1.004	0	%100
16	M112	Z	.58	.58	0	%100
17	M114	X	1.048	1.048	0	%100
18	M114	Z	.605	.605	0	%100
19	M116	X	2.968	2.968	0	%100
20	M116	Z	1.714	1.714	0	%100
21	M117	X	4.017	4.017	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
22	M117	Z	2.319	2.319	0	%100
23	M119	X	4.192	4.192	0	%100
24	M119	Z	2.42	2.42	0	%100
25	M124	X	2.383	2.383	0	%100
26	M124	Z	1.376	1.376	0	%100
27	M125	X	.645	.645	0	%100
28	M125	Z	.372	.372	0	%100
29	M126	X	.645	.645	0	%100
30	M126	Z	.372	.372	0	%100
31	M127	X	1.005	1.005	0	%100
32	M127	Z	.58	.58	0	%100
33	M130	X	2.964	2.964	0	%100
34	M130	Z	1.711	1.711	0	%100
35	M131	X	.741	.741	0	%100
36	M131	Z	.428	.428	0	%100
37	M135	X	2.968	2.968	0	%100
38	M135	Z	1.714	1.714	0	%100
39	M136	X	4.017	4.017	0	%100
40	M136	Z	2.319	2.319	0	%100
41	M138	X	4.192	4.192	0	%100
42	M138	Z	2.42	2.42	0	%100
43	M140	X	2.968	2.968	0	%100
44	M140	Z	1.714	1.714	0	%100
45	M141	X	1.004	1.004	0	%100
46	M141	Z	.58	.58	0	%100
47	M143	X	1.048	1.048	0	%100
48	M143	Z	.605	.605	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	2.578	2.578	0	%100
52	M149	Z	1.488	1.488	0	%100
53	M150	X	2.578	2.578	0	%100
54	M150	Z	1.488	1.488	0	%100
55	M151	X	4.022	4.022	0	%100
56	M151	Z	2.322	2.322	0	%100
57	M154	X	.741	.741	0	%100
58	M154	Z	.428	.428	0	%100
59	M155	X	.741	.741	0	%100
60	M155	Z	.428	.428	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	1.004	1.004	0	%100
64	M160	Z	.58	.58	0	%100
65	M162	X	1.048	1.048	0	%100
66	M162	Z	.605	.605	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	1.004	1.004	0	%100
70	M165	Z	.58	.58	0	%100
71	M167	X	1.048	1.048	0	%100
72	M167	Z	.605	.605	0	%100
73	M172	X	.787	.787	0	%100
74	M172	Z	.454	.454	0	%100
75	MP1A	X	2.545	2.545	0	%100
76	MP1A	Z	1.469	1.469	0	%100
77	MP3A	X	2.813	2.813	0	%100
78	MP3A	Z	1.624	1.624	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
79	MP2A	X	2.545	2.545	0	%100
80	MP2A	Z	1.469	1.469	0	%100
81	MP4A	X	2.545	2.545	0	%100
82	MP4A	Z	1.469	1.469	0	%100
83	M82	X	.787	.787	0	%100
84	M82	Z	.454	.454	0	%100
85	M91	X	3.148	3.148	0	%100
86	M91	Z	1.817	1.817	0	%100
87	OVP PIPE	X	2.081	2.081	0	%100
88	OVP PIPE	Z	1.202	1.202	0	%100
89	M102A	X	.703	.703	0	%100
90	M102A	Z	.406	.406	0	%100
91	M107A	X	.703	.703	0	%100
92	M107A	Z	.406	.406	0	%100
93	M112A	X	2.813	2.813	0	%100
94	M112A	Z	1.624	1.624	0	%100
95	M123A	X	.758	.758	0	%100
96	M123A	Z	.438	.438	0	%100
97	M124A	X	3.032	3.032	0	%100
98	M124A	Z	1.75	1.75	0	%100
99	M125A	X	.758	.758	0	%100
100	M125A	Z	.438	.438	0	%100
101	MP1C	X	2.545	2.545	0	%100
102	MP1C	Z	1.469	1.469	0	%100
103	MP3C	X	2.813	2.813	0	%100
104	MP3C	Z	1.624	1.624	0	%100
105	MP2C	X	2.545	2.545	0	%100
106	MP2C	Z	1.469	1.469	0	%100
107	MP4C	X	2.545	2.545	0	%100
108	MP4C	Z	1.469	1.469	0	%100
109	MP1B	X	2.545	2.545	0	%100
110	MP1B	Z	1.469	1.469	0	%100
111	MP3B	X	2.813	2.813	0	%100
112	MP3B	Z	1.624	1.624	0	%100
113	MP2B	X	2.545	2.545	0	%100
114	MP2B	Z	1.469	1.469	0	%100
115	MP4B	X	2.545	2.545	0	%100
116	MP4B	Z	1.469	1.469	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.459	.459	0	%100
2	M100	Z	.794	.794	0	%100
3	M101	X	1.116	1.116	0	%100
4	M101	Z	1.934	1.934	0	%100
5	M102	X	1.116	1.116	0	%100
6	M102	Z	1.934	1.934	0	%100
7	M103	X	1.741	1.741	0	%100
8	M103	Z	3.016	3.016	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	1.284	1.284	0	%100
12	M107	Z	2.223	2.223	0	%100
13	M111	X	.571	.571	0	%100
14	M111	Z	.989	.989	0	%100
15	M112	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	.571	.571	0	%100
20	M116	Z	.989	.989	0	%100
21	M117	X	1.739	1.739	0	%100
22	M117	Z	3.013	3.013	0	%100
23	M119	X	1.815	1.815	0	%100
24	M119	Z	3.144	3.144	0	%100
25	M124	X	1.834	1.834	0	%100
26	M124	Z	3.177	3.177	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	1.284	1.284	0	%100
34	M130	Z	2.223	2.223	0	%100
35	M131	X	1.284	1.284	0	%100
36	M131	Z	2.223	2.223	0	%100
37	M135	X	2.285	2.285	0	%100
38	M135	Z	3.958	3.958	0	%100
39	M136	X	1.739	1.739	0	%100
40	M136	Z	3.013	3.013	0	%100
41	M138	X	1.815	1.815	0	%100
42	M138	Z	3.144	3.144	0	%100
43	M140	X	2.285	2.285	0	%100
44	M140	Z	3.958	3.958	0	%100
45	M141	X	1.739	1.739	0	%100
46	M141	Z	3.013	3.013	0	%100
47	M143	X	1.815	1.815	0	%100
48	M143	Z	3.144	3.144	0	%100
49	M148	X	.459	.459	0	%100
50	M148	Z	.794	.794	0	%100
51	M149	X	1.116	1.116	0	%100
52	M149	Z	1.934	1.934	0	%100
53	M150	X	1.116	1.116	0	%100
54	M150	Z	1.934	1.934	0	%100
55	M151	X	1.741	1.741	0	%100
56	M151	Z	3.016	3.016	0	%100
57	M154	X	1.284	1.284	0	%100
58	M154	Z	2.223	2.223	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	.571	.571	0	%100
62	M159	Z	.989	.989	0	%100
63	M160	X	1.739	1.739	0	%100
64	M160	Z	3.013	3.013	0	%100
65	M162	X	1.815	1.815	0	%100
66	M162	Z	3.144	3.144	0	%100
67	M164	X	.571	.571	0	%100
68	M164	Z	.989	.989	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
73	M172	X	1.363	1.363	0	%100
74	M172	Z	2.361	2.361	0	%100
75	MP1A	X	1.469	1.469	0	%100
76	MP1A	Z	2.545	2.545	0	%100
77	MP3A	X	1.624	1.624	0	%100
78	MP3A	Z	2.813	2.813	0	%100
79	MP2A	X	1.469	1.469	0	%100
80	MP2A	Z	2.545	2.545	0	%100
81	MP4A	X	1.469	1.469	0	%100
82	MP4A	Z	2.545	2.545	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	1.363	1.363	0	%100
86	M91	Z	2.361	2.361	0	%100
87	OVP PIPE	X	1.202	1.202	0	%100
88	OVP PIPE	Z	2.081	2.081	0	%100
89	M102A	X	1.218	1.218	0	%100
90	M102A	Z	2.11	2.11	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	1.218	1.218	0	%100
94	M112A	Z	2.11	2.11	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	1.313	1.313	0	%100
98	M124A	Z	2.274	2.274	0	%100
99	M125A	X	1.313	1.313	0	%100
100	M125A	Z	2.274	2.274	0	%100
101	MP1C	X	1.469	1.469	0	%100
102	MP1C	Z	2.545	2.545	0	%100
103	MP3C	X	1.624	1.624	0	%100
104	MP3C	Z	2.813	2.813	0	%100
105	MP2C	X	1.469	1.469	0	%100
106	MP2C	Z	2.545	2.545	0	%100
107	MP4C	X	1.469	1.469	0	%100
108	MP4C	Z	2.545	2.545	0	%100
109	MP1B	X	1.469	1.469	0	%100
110	MP1B	Z	2.545	2.545	0	%100
111	MP3B	X	1.624	1.624	0	%100
112	MP3B	Z	2.813	2.813	0	%100
113	MP2B	X	1.469	1.469	0	%100
114	MP2B	Z	2.545	2.545	0	%100
115	MP4B	X	1.469	1.469	0	%100
116	MP4B	Z	2.545	2.545	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	2.977	2.977	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	2.977	2.977	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	4.644	4.644	0	%100
9	M106	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
10	M106	Z	.856	.856	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	.856	.856	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	1.16	1.16	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	1.21	1.21	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	1.16	1.16	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	1.21	1.21	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	2.752	2.752	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	.744	.744	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	.744	.744	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	1.161	1.161	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	.856	.856	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	3.423	3.423	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	3.427	3.427	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	1.16	1.16	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	1.21	1.21	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	3.427	3.427	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	4.639	4.639	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	4.84	4.84	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	2.752	2.752	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	.744	.744	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	.744	.744	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	1.161	1.161	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	3.423	3.423	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	.856	.856	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	3.427	3.427	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	4.639	4.639	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	4.84	4.84	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
67	M164	X	0	0	0	%100
68	M164	Z	3.427	3.427	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	1.16	1.16	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	1.21	1.21	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	3.635	3.635	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	2.939	2.939	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	3.248	3.248	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	2.939	2.939	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	2.939	2.939	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	.909	.909	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	.909	.909	0	%100
87	OVP PIPE	X	0	0	0	%100
88	OVP PIPE	Z	2.403	2.403	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	3.248	3.248	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	.812	.812	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	.812	.812	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	.875	.875	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	.875	.875	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	3.501	3.501	0	%100
101	MP1C	X	0	0	0	%100
102	MP1C	Z	2.939	2.939	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	3.248	3.248	0	%100
105	MP2C	X	0	0	0	%100
106	MP2C	Z	2.939	2.939	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	2.939	2.939	0	%100
109	MP1B	X	0	0	0	%100
110	MP1B	Z	2.939	2.939	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	3.248	3.248	0	%100
113	MP2B	X	0	0	0	%100
114	MP2B	Z	2.939	2.939	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	2.939	2.939	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	- .459	- .459	0	%100
2	M100	Z	.794	.794	0	%100
3	M101	X	-1.116	-1.116	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
4	M101	Z	1.934	1.934	0	%100
5	M102	X	-1.116	-1.116	0	%100
6	M102	Z	1.934	1.934	0	%100
7	M103	X	-1.741	-1.741	0	%100
8	M103	Z	3.016	3.016	0	%100
9	M106	X	-1.284	-1.284	0	%100
10	M106	Z	2.223	2.223	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-.571	-.571	0	%100
14	M111	Z	.989	.989	0	%100
15	M112	X	-1.739	-1.739	0	%100
16	M112	Z	3.013	3.013	0	%100
17	M114	X	-1.815	-1.815	0	%100
18	M114	Z	3.144	3.144	0	%100
19	M116	X	-.571	-.571	0	%100
20	M116	Z	.989	.989	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-.459	-.459	0	%100
26	M124	Z	.794	.794	0	%100
27	M125	X	-1.116	-1.116	0	%100
28	M125	Z	1.934	1.934	0	%100
29	M126	X	-1.116	-1.116	0	%100
30	M126	Z	1.934	1.934	0	%100
31	M127	X	-1.741	-1.741	0	%100
32	M127	Z	3.016	3.016	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	-1.284	-1.284	0	%100
36	M131	Z	2.223	2.223	0	%100
37	M135	X	-.571	-.571	0	%100
38	M135	Z	.989	.989	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-.571	-.571	0	%100
44	M140	Z	.989	.989	0	%100
45	M141	X	-1.739	-1.739	0	%100
46	M141	Z	3.013	3.013	0	%100
47	M143	X	-1.815	-1.815	0	%100
48	M143	Z	3.144	3.144	0	%100
49	M148	X	-1.834	-1.834	0	%100
50	M148	Z	3.177	3.177	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	-1.284	-1.284	0	%100
58	M154	Z	2.223	2.223	0	%100
59	M155	X	-1.284	-1.284	0	%100
60	M155	Z	2.223	2.223	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
61	M159	X	-2.285	-2.285	0	%100
62	M159	Z	3.958	3.958	0	%100
63	M160	X	-1.739	-1.739	0	%100
64	M160	Z	3.013	3.013	0	%100
65	M162	X	-1.815	-1.815	0	%100
66	M162	Z	3.144	3.144	0	%100
67	M164	X	-2.285	-2.285	0	%100
68	M164	Z	3.958	3.958	0	%100
69	M165	X	-1.739	-1.739	0	%100
70	M165	Z	3.013	3.013	0	%100
71	M167	X	-1.815	-1.815	0	%100
72	M167	Z	3.144	3.144	0	%100
73	M172	X	-1.363	-1.363	0	%100
74	M172	Z	2.361	2.361	0	%100
75	MP1A	X	-1.469	-1.469	0	%100
76	MP1A	Z	2.545	2.545	0	%100
77	MP3A	X	-1.624	-1.624	0	%100
78	MP3A	Z	2.813	2.813	0	%100
79	MP2A	X	-1.469	-1.469	0	%100
80	MP2A	Z	2.545	2.545	0	%100
81	MP4A	X	-1.469	-1.469	0	%100
82	MP4A	Z	2.545	2.545	0	%100
83	M82	X	-1.363	-1.363	0	%100
84	M82	Z	2.361	2.361	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	-1.202	-1.202	0	%100
88	OVP PIPE	Z	2.081	2.081	0	%100
89	M102A	X	-1.218	-1.218	0	%100
90	M102A	Z	2.11	2.11	0	%100
91	M107A	X	-1.218	-1.218	0	%100
92	M107A	Z	2.11	2.11	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	-1.313	-1.313	0	%100
96	M123A	Z	2.274	2.274	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	-1.313	-1.313	0	%100
100	M125A	Z	2.274	2.274	0	%100
101	MP1C	X	-1.469	-1.469	0	%100
102	MP1C	Z	2.545	2.545	0	%100
103	MP3C	X	-1.624	-1.624	0	%100
104	MP3C	Z	2.813	2.813	0	%100
105	MP2C	X	-1.469	-1.469	0	%100
106	MP2C	Z	2.545	2.545	0	%100
107	MP4C	X	-1.469	-1.469	0	%100
108	MP4C	Z	2.545	2.545	0	%100
109	MP1B	X	-1.469	-1.469	0	%100
110	MP1B	Z	2.545	2.545	0	%100
111	MP3B	X	-1.624	-1.624	0	%100
112	MP3B	Z	2.813	2.813	0	%100
113	MP2B	X	-1.469	-1.469	0	%100
114	MP2B	Z	2.545	2.545	0	%100
115	MP4B	X	-1.469	-1.469	0	%100
116	MP4B	Z	2.545	2.545	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-2.383	-2.383	0	%100
2	M100	Z	1.376	1.376	0	%100
3	M101	X	-.645	-.645	0	%100
4	M101	Z	.372	.372	0	%100
5	M102	X	-.645	-.645	0	%100
6	M102	Z	.372	.372	0	%100
7	M103	X	-1.005	-1.005	0	%100
8	M103	Z	.58	.58	0	%100
9	M106	X	-2.964	-2.964	0	%100
10	M106	Z	1.711	1.711	0	%100
11	M107	X	-.741	-.741	0	%100
12	M107	Z	.428	.428	0	%100
13	M111	X	-2.968	-2.968	0	%100
14	M111	Z	1.714	1.714	0	%100
15	M112	X	-4.017	-4.017	0	%100
16	M112	Z	2.319	2.319	0	%100
17	M114	X	-4.192	-4.192	0	%100
18	M114	Z	2.42	2.42	0	%100
19	M116	X	-2.968	-2.968	0	%100
20	M116	Z	1.714	1.714	0	%100
21	M117	X	-1.004	-1.004	0	%100
22	M117	Z	.58	.58	0	%100
23	M119	X	-1.048	-1.048	0	%100
24	M119	Z	.605	.605	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-2.578	-2.578	0	%100
28	M125	Z	1.488	1.488	0	%100
29	M126	X	-2.578	-2.578	0	%100
30	M126	Z	1.488	1.488	0	%100
31	M127	X	-4.022	-4.022	0	%100
32	M127	Z	2.322	2.322	0	%100
33	M130	X	-.741	-.741	0	%100
34	M130	Z	.428	.428	0	%100
35	M131	X	-.741	-.741	0	%100
36	M131	Z	.428	.428	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-1.004	-1.004	0	%100
40	M136	Z	.58	.58	0	%100
41	M138	X	-1.048	-1.048	0	%100
42	M138	Z	.605	.605	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	-1.004	-1.004	0	%100
46	M141	Z	.58	.58	0	%100
47	M143	X	-1.048	-1.048	0	%100
48	M143	Z	.605	.605	0	%100
49	M148	X	-2.383	-2.383	0	%100
50	M148	Z	1.376	1.376	0	%100
51	M149	X	-.645	-.645	0	%100
52	M149	Z	.372	.372	0	%100
53	M150	X	-.645	-.645	0	%100
54	M150	Z	.372	.372	0	%100
55	M151	X	-1.005	-1.005	0	%100
56	M151	Z	.58	.58	0	%100
57	M154	X	-.741	-.741	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
58	M154	Z	.428	.428	0	%100
59	M155	X	-2.964	-2.964	0	%100
60	M155	Z	1.711	1.711	0	%100
61	M159	X	-2.968	-2.968	0	%100
62	M159	Z	1.714	1.714	0	%100
63	M160	X	-1.004	-1.004	0	%100
64	M160	Z	.58	.58	0	%100
65	M162	X	-1.048	-1.048	0	%100
66	M162	Z	.605	.605	0	%100
67	M164	X	-2.968	-2.968	0	%100
68	M164	Z	1.714	1.714	0	%100
69	M165	X	-4.017	-4.017	0	%100
70	M165	Z	2.319	2.319	0	%100
71	M167	X	-4.192	-4.192	0	%100
72	M167	Z	2.42	2.42	0	%100
73	M172	X	-.787	-.787	0	%100
74	M172	Z	.454	.454	0	%100
75	MP1A	X	-2.545	-2.545	0	%100
76	MP1A	Z	1.469	1.469	0	%100
77	MP3A	X	-2.813	-2.813	0	%100
78	MP3A	Z	1.624	1.624	0	%100
79	MP2A	X	-2.545	-2.545	0	%100
80	MP2A	Z	1.469	1.469	0	%100
81	MP4A	X	-2.545	-2.545	0	%100
82	MP4A	Z	1.469	1.469	0	%100
83	M82	X	-3.148	-3.148	0	%100
84	M82	Z	1.817	1.817	0	%100
85	M91	X	-.787	-.787	0	%100
86	M91	Z	.454	.454	0	%100
87	OVP PIPE	X	-2.081	-2.081	0	%100
88	OVP PIPE	Z	1.202	1.202	0	%100
89	M102A	X	-.703	-.703	0	%100
90	M102A	Z	.406	.406	0	%100
91	M107A	X	-2.813	-2.813	0	%100
92	M107A	Z	1.624	1.624	0	%100
93	M112A	X	-.703	-.703	0	%100
94	M112A	Z	.406	.406	0	%100
95	M123A	X	-3.032	-3.032	0	%100
96	M123A	Z	1.75	1.75	0	%100
97	M124A	X	-.758	-.758	0	%100
98	M124A	Z	.438	.438	0	%100
99	M125A	X	-.758	-.758	0	%100
100	M125A	Z	.438	.438	0	%100
101	MP1C	X	-2.545	-2.545	0	%100
102	MP1C	Z	1.469	1.469	0	%100
103	MP3C	X	-2.813	-2.813	0	%100
104	MP3C	Z	1.624	1.624	0	%100
105	MP2C	X	-2.545	-2.545	0	%100
106	MP2C	Z	1.469	1.469	0	%100
107	MP4C	X	-2.545	-2.545	0	%100
108	MP4C	Z	1.469	1.469	0	%100
109	MP1B	X	-2.545	-2.545	0	%100
110	MP1B	Z	1.469	1.469	0	%100
111	MP3B	X	-2.813	-2.813	0	%100
112	MP3B	Z	1.624	1.624	0	%100
113	MP2B	X	-2.545	-2.545	0	%100
114	MP2B	Z	1.469	1.469	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
115	MP4B	X	-2.545	-2.545	0	%100
116	MP4B	Z	1.469	1.469	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-3.669	-3.669	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	-2.567	-2.567	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-2.567	-2.567	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-4.57	-4.57	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	-3.479	-3.479	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	-3.63	-3.63	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-4.57	-4.57	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	-3.479	-3.479	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	-3.63	-3.63	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-0.917	-0.917	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-2.233	-2.233	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	-2.233	-2.233	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	-3.483	-3.483	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-2.567	-2.567	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	-1.142	-1.142	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-3.479	-3.479	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	-3.63	-3.63	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-1.142	-1.142	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	-0.917	-0.917	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-2.233	-2.233	0	%100



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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft,F...	Start Locationft.%	End Locationft.%
52	M149	Z	0	0	0	%100
53	M150	X	-2.233	-2.233	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	-3.483	-3.483	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	-2.567	-2.567	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-1.142	-1.142	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	-1.142	-1.142	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-3.479	-3.479	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	-3.63	-3.63	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	-2.939	-2.939	0	%100
76	MP1A	Z	0	0	0	%100
77	MP3A	X	-3.248	-3.248	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	-2.939	-2.939	0	%100
80	MP2A	Z	0	0	0	%100
81	MP4A	X	-2.939	-2.939	0	%100
82	MP4A	Z	0	0	0	%100
83	M82	X	-2.726	-2.726	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	-2.726	-2.726	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	-2.403	-2.403	0	%100
88	OVP PIPE	Z	0	0	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	0	0	0	%100
91	M107A	X	-2.436	-2.436	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	-2.436	-2.436	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	-2.626	-2.626	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	-2.626	-2.626	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	0	0	0	%100
101	MP1C	X	-2.939	-2.939	0	%100
102	MP1C	Z	0	0	0	%100
103	MP3C	X	-3.248	-3.248	0	%100
104	MP3C	Z	0	0	0	%100
105	MP2C	X	-2.939	-2.939	0	%100
106	MP2C	Z	0	0	0	%100
107	MP4C	X	-2.939	-2.939	0	%100
108	MP4C	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
109	MP1B	X	-2.939	-2.939	0	%100
110	MP1B	Z	0	0	0	%100
111	MP3B	X	-3.248	-3.248	0	%100
112	MP3B	Z	0	0	0	%100
113	MP2B	X	-2.939	-2.939	0	%100
114	MP2B	Z	0	0	0	%100
115	MP4B	X	-2.939	-2.939	0	%100
116	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-2.383	-2.383	0	%100
2	M100	Z	-1.376	-1.376	0	%100
3	M101	X	-.645	-.645	0	%100
4	M101	Z	-.372	-.372	0	%100
5	M102	X	-.645	-.645	0	%100
6	M102	Z	-.372	-.372	0	%100
7	M103	X	-1.005	-1.005	0	%100
8	M103	Z	-.58	-.58	0	%100
9	M106	X	-.741	-.741	0	%100
10	M106	Z	-.428	-.428	0	%100
11	M107	X	-2.964	-2.964	0	%100
12	M107	Z	-1.711	-1.711	0	%100
13	M111	X	-2.968	-2.968	0	%100
14	M111	Z	-1.714	-1.714	0	%100
15	M112	X	-1.004	-1.004	0	%100
16	M112	Z	-.58	-.58	0	%100
17	M114	X	-1.048	-1.048	0	%100
18	M114	Z	-.605	-.605	0	%100
19	M116	X	-2.968	-2.968	0	%100
20	M116	Z	-1.714	-1.714	0	%100
21	M117	X	-4.017	-4.017	0	%100
22	M117	Z	-2.319	-2.319	0	%100
23	M119	X	-4.192	-4.192	0	%100
24	M119	Z	-2.42	-2.42	0	%100
25	M124	X	-2.383	-2.383	0	%100
26	M124	Z	-1.376	-1.376	0	%100
27	M125	X	-.645	-.645	0	%100
28	M125	Z	-.372	-.372	0	%100
29	M126	X	-.645	-.645	0	%100
30	M126	Z	-.372	-.372	0	%100
31	M127	X	-1.005	-1.005	0	%100
32	M127	Z	-.58	-.58	0	%100
33	M130	X	-2.964	-2.964	0	%100
34	M130	Z	-1.711	-1.711	0	%100
35	M131	X	-.741	-.741	0	%100
36	M131	Z	-.428	-.428	0	%100
37	M135	X	-2.968	-2.968	0	%100
38	M135	Z	-1.714	-1.714	0	%100
39	M136	X	-4.017	-4.017	0	%100
40	M136	Z	-2.319	-2.319	0	%100
41	M138	X	-4.192	-4.192	0	%100
42	M138	Z	-2.42	-2.42	0	%100
43	M140	X	-2.968	-2.968	0	%100
44	M140	Z	-1.714	-1.714	0	%100
45	M141	X	-1.004	-1.004	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)
46	M141	Z	- .58	- .58	0	%100
47	M143	X	-1.048	-1.048	0	%100
48	M143	Z	- .605	- .605	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-2.578	-2.578	0	%100
52	M149	Z	-1.488	-1.488	0	%100
53	M150	X	-2.578	-2.578	0	%100
54	M150	Z	-1.488	-1.488	0	%100
55	M151	X	-4.022	-4.022	0	%100
56	M151	Z	-2.322	-2.322	0	%100
57	M154	X	- .741	- .741	0	%100
58	M154	Z	- .428	- .428	0	%100
59	M155	X	- .741	- .741	0	%100
60	M155	Z	- .428	- .428	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	-1.004	-1.004	0	%100
64	M160	Z	- .58	- .58	0	%100
65	M162	X	-1.048	-1.048	0	%100
66	M162	Z	- .605	- .605	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-1.004	-1.004	0	%100
70	M165	Z	- .58	- .58	0	%100
71	M167	X	-1.048	-1.048	0	%100
72	M167	Z	- .605	- .605	0	%100
73	M172	X	- .787	- .787	0	%100
74	M172	Z	- .454	- .454	0	%100
75	MP1A	X	-2.545	-2.545	0	%100
76	MP1A	Z	-1.469	-1.469	0	%100
77	MP3A	X	-2.813	-2.813	0	%100
78	MP3A	Z	-1.624	-1.624	0	%100
79	MP2A	X	-2.545	-2.545	0	%100
80	MP2A	Z	-1.469	-1.469	0	%100
81	MP4A	X	-2.545	-2.545	0	%100
82	MP4A	Z	-1.469	-1.469	0	%100
83	M82	X	- .787	- .787	0	%100
84	M82	Z	- .454	- .454	0	%100
85	M91	X	-3.148	-3.148	0	%100
86	M91	Z	-1.817	-1.817	0	%100
87	OVP PIPE	X	-2.081	-2.081	0	%100
88	OVP PIPE	Z	-1.202	-1.202	0	%100
89	M102A	X	- .703	- .703	0	%100
90	M102A	Z	- .406	- .406	0	%100
91	M107A	X	- .703	- .703	0	%100
92	M107A	Z	- .406	- .406	0	%100
93	M112A	X	-2.813	-2.813	0	%100
94	M112A	Z	-1.624	-1.624	0	%100
95	M123A	X	- .758	- .758	0	%100
96	M123A	Z	- .438	- .438	0	%100
97	M124A	X	-3.032	-3.032	0	%100
98	M124A	Z	-1.75	-1.75	0	%100
99	M125A	X	- .758	- .758	0	%100
100	M125A	Z	- .438	- .438	0	%100
101	MP1C	X	-2.545	-2.545	0	%100
102	MP1C	Z	-1.469	-1.469	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
103	MP3C	X	-2.813	-2.813	0	%100
104	MP3C	Z	-1.624	-1.624	0	%100
105	MP2C	X	-2.545	-2.545	0	%100
106	MP2C	Z	-1.469	-1.469	0	%100
107	MP4C	X	-2.545	-2.545	0	%100
108	MP4C	Z	-1.469	-1.469	0	%100
109	MP1B	X	-2.545	-2.545	0	%100
110	MP1B	Z	-1.469	-1.469	0	%100
111	MP3B	X	-2.813	-2.813	0	%100
112	MP3B	Z	-1.624	-1.624	0	%100
113	MP2B	X	-2.545	-2.545	0	%100
114	MP2B	Z	-1.469	-1.469	0	%100
115	MP4B	X	-2.545	-2.545	0	%100
116	MP4B	Z	-1.469	-1.469	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-459	-459	0	%100
2	M100	Z	-794	-794	0	%100
3	M101	X	-1.116	-1.116	0	%100
4	M101	Z	-1.934	-1.934	0	%100
5	M102	X	-1.116	-1.116	0	%100
6	M102	Z	-1.934	-1.934	0	%100
7	M103	X	-1.741	-1.741	0	%100
8	M103	Z	-3.016	-3.016	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-1.284	-1.284	0	%100
12	M107	Z	-2.223	-2.223	0	%100
13	M111	X	-571	-571	0	%100
14	M111	Z	-989	-989	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-571	-571	0	%100
20	M116	Z	-989	-989	0	%100
21	M117	X	-1.739	-1.739	0	%100
22	M117	Z	-3.013	-3.013	0	%100
23	M119	X	-1.815	-1.815	0	%100
24	M119	Z	-3.144	-3.144	0	%100
25	M124	X	-1.834	-1.834	0	%100
26	M124	Z	-3.177	-3.177	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-1.284	-1.284	0	%100
34	M130	Z	-2.223	-2.223	0	%100
35	M131	X	-1.284	-1.284	0	%100
36	M131	Z	-2.223	-2.223	0	%100
37	M135	X	-2.285	-2.285	0	%100
38	M135	Z	-3.958	-3.958	0	%100
39	M136	X	-1.739	-1.739	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft.F....)	Start Location(ft.%)	End Location(ft.%)
40	M136	Z	-3.013	-3.013	0	%100
41	M138	X	-1.815	-1.815	0	%100
42	M138	Z	-3.144	-3.144	0	%100
43	M140	X	-2.285	-2.285	0	%100
44	M140	Z	-3.958	-3.958	0	%100
45	M141	X	-1.739	-1.739	0	%100
46	M141	Z	-3.013	-3.013	0	%100
47	M143	X	-1.815	-1.815	0	%100
48	M143	Z	-3.144	-3.144	0	%100
49	M148	X	-459	-459	0	%100
50	M148	Z	-794	-794	0	%100
51	M149	X	-1.116	-1.116	0	%100
52	M149	Z	-1.934	-1.934	0	%100
53	M150	X	-1.116	-1.116	0	%100
54	M150	Z	-1.934	-1.934	0	%100
55	M151	X	-1.741	-1.741	0	%100
56	M151	Z	-3.016	-3.016	0	%100
57	M154	X	-1.284	-1.284	0	%100
58	M154	Z	-2.223	-2.223	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-571	-571	0	%100
62	M159	Z	-989	-989	0	%100
63	M160	X	-1.739	-1.739	0	%100
64	M160	Z	-3.013	-3.013	0	%100
65	M162	X	-1.815	-1.815	0	%100
66	M162	Z	-3.144	-3.144	0	%100
67	M164	X	-571	-571	0	%100
68	M164	Z	-989	-989	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	-1.363	-1.363	0	%100
74	M172	Z	-2.361	-2.361	0	%100
75	MP1A	X	-1.469	-1.469	0	%100
76	MP1A	Z	-2.545	-2.545	0	%100
77	MP3A	X	-1.624	-1.624	0	%100
78	MP3A	Z	-2.813	-2.813	0	%100
79	MP2A	X	-1.469	-1.469	0	%100
80	MP2A	Z	-2.545	-2.545	0	%100
81	MP4A	X	-1.469	-1.469	0	%100
82	MP4A	Z	-2.545	-2.545	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	-1.363	-1.363	0	%100
86	M91	Z	-2.361	-2.361	0	%100
87	OVP PIPE	X	-1.202	-1.202	0	%100
88	OVP PIPE	Z	-2.081	-2.081	0	%100
89	M102A	X	-1.218	-1.218	0	%100
90	M102A	Z	-2.11	-2.11	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	-1.218	-1.218	0	%100
94	M112A	Z	-2.11	-2.11	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
97	M124A	X	-1.313	-1.313	0	%100
98	M124A	Z	-2.274	-2.274	0	%100
99	M125A	X	-1.313	-1.313	0	%100
100	M125A	Z	-2.274	-2.274	0	%100
101	MP1C	X	-1.469	-1.469	0	%100
102	MP1C	Z	-2.545	-2.545	0	%100
103	MP3C	X	-1.624	-1.624	0	%100
104	MP3C	Z	-2.813	-2.813	0	%100
105	MP2C	X	-1.469	-1.469	0	%100
106	MP2C	Z	-2.545	-2.545	0	%100
107	MP4C	X	-1.469	-1.469	0	%100
108	MP4C	Z	-2.545	-2.545	0	%100
109	MP1B	X	-1.469	-1.469	0	%100
110	MP1B	Z	-2.545	-2.545	0	%100
111	MP3B	X	-1.624	-1.624	0	%100
112	MP3B	Z	-2.813	-2.813	0	%100
113	MP2B	X	-1.469	-1.469	0	%100
114	MP2B	Z	-2.545	-2.545	0	%100
115	MP4B	X	-1.469	-1.469	0	%100
116	MP4B	Z	-2.545	-2.545	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	-0.67	-0.67	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	-0.67	-0.67	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	-1.337	-1.337	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	-0.186	-0.186	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	-0.186	-0.186	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	-0.34	-0.34	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	-0.358	-0.358	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	-0.34	-0.34	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	-0.358	-0.358	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	-0.594	-0.594	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	-0.168	-0.168	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	-0.168	-0.168	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	-0.334	-0.334	0	%100
33	M130	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
34	M130	Z	-186	-186	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	-742	-742	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	-1.003	-1.003	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	-.34	-.34	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	-.358	-.358	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	-1.003	-1.003	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	-1.361	-1.361	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	-1.434	-1.434	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	-.594	-.594	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	-.168	-.168	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	-.168	-.168	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	-.334	-.334	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	-.742	-.742	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	-.186	-.186	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	-1.003	-1.003	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	-1.361	-1.361	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	-1.434	-1.434	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	-1.003	-1.003	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	-.34	-.34	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	-.358	-.358	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	-.78	-.78	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-.529	-.529	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-.64	-.64	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-.529	-.529	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-.529	-.529	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	-.195	-.195	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	-.195	-.195	0	%100
87	OVP PIPE	X	0	0	0	%100
88	OVP PIPE	Z	-.433	-.433	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	-.64	-.64	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
91	M107A	X	0	0	0	%100
92	M107A	Z	-16	-16	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	-16	-16	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	-.211	-.211	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	-.211	-.211	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	-.846	-.846	0	%100
101	MP1C	X	0	0	0	%100
102	MP1C	Z	-.529	-.529	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	-.64	-.64	0	%100
105	MP2C	X	0	0	0	%100
106	MP2C	Z	-.529	-.529	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	-.529	-.529	0	%100
109	MP1B	X	0	0	0	%100
110	MP1B	Z	-.529	-.529	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	-.64	-.64	0	%100
113	MP2B	X	0	0	0	%100
114	MP2B	Z	-.529	-.529	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	-.529	-.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.099	.099	0	%100
2	M100	Z	-.171	-.171	0	%100
3	M101	X	.251	.251	0	%100
4	M101	Z	-.435	-.435	0	%100
5	M102	X	.251	.251	0	%100
6	M102	Z	-.435	-.435	0	%100
7	M103	X	.501	.501	0	%100
8	M103	Z	-.868	-.868	0	%100
9	M106	X	.278	.278	0	%100
10	M106	Z	-.482	-.482	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	.167	.167	0	%100
14	M111	Z	-.289	-.289	0	%100
15	M112	X	.511	.511	0	%100
16	M112	Z	-.884	-.884	0	%100
17	M114	X	.538	.538	0	%100
18	M114	Z	-.931	-.931	0	%100
19	M116	X	.167	.167	0	%100
20	M116	Z	-.289	-.289	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.099	.099	0	%100
26	M124	Z	-.171	-.171	0	%100
27	M125	X	.251	.251	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft.F...	Start Location ft.%	End Location ft.%
28	M125	Z	-.435	-.435	0	%100
29	M126	X	.251	.251	0	%100
30	M126	Z	-.435	-.435	0	%100
31	M127	X	.501	.501	0	%100
32	M127	Z	-.868	-.868	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	.278	.278	0	%100
36	M131	Z	-.482	-.482	0	%100
37	M135	X	.167	.167	0	%100
38	M135	Z	-.289	-.289	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	.167	.167	0	%100
44	M140	Z	-.289	-.289	0	%100
45	M141	X	.511	.511	0	%100
46	M141	Z	-.884	-.884	0	%100
47	M143	X	.538	.538	0	%100
48	M143	Z	-.931	-.931	0	%100
49	M148	X	.396	.396	0	%100
50	M148	Z	-.686	-.686	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	.278	.278	0	%100
58	M154	Z	-.482	-.482	0	%100
59	M155	X	.278	.278	0	%100
60	M155	Z	-.482	-.482	0	%100
61	M159	X	.668	.668	0	%100
62	M159	Z	-1.158	-1.158	0	%100
63	M160	X	.511	.511	0	%100
64	M160	Z	-.884	-.884	0	%100
65	M162	X	.538	.538	0	%100
66	M162	Z	-.931	-.931	0	%100
67	M164	X	.668	.668	0	%100
68	M164	Z	-1.158	-1.158	0	%100
69	M165	X	.511	.511	0	%100
70	M165	Z	-.884	-.884	0	%100
71	M167	X	.538	.538	0	%100
72	M167	Z	-.931	-.931	0	%100
73	M172	X	.292	.292	0	%100
74	M172	Z	-.506	-.506	0	%100
75	MP1A	X	.265	.265	0	%100
76	MP1A	Z	-.458	-.458	0	%100
77	MP3A	X	.32	.32	0	%100
78	MP3A	Z	-.555	-.555	0	%100
79	MP2A	X	.265	.265	0	%100
80	MP2A	Z	-.458	-.458	0	%100
81	MP4A	X	.265	.265	0	%100
82	MP4A	Z	-.458	-.458	0	%100
83	M82	X	.292	.292	0	%100
84	M82	Z	-.506	-.506	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
85	M91	X	0	0	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	.216	.216	0	%100
88	OVP PIPE	Z	-.375	-.375	0	%100
89	M102A	X	.24	.24	0	%100
90	M102A	Z	-.416	-.416	0	%100
91	M107A	X	.24	.24	0	%100
92	M107A	Z	-.416	-.416	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	.317	.317	0	%100
96	M123A	Z	-.549	-.549	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	.317	.317	0	%100
100	M125A	Z	-.549	-.549	0	%100
101	MP1C	X	.265	.265	0	%100
102	MP1C	Z	-.458	-.458	0	%100
103	MP3C	X	.32	.32	0	%100
104	MP3C	Z	-.555	-.555	0	%100
105	MP2C	X	.265	.265	0	%100
106	MP2C	Z	-.458	-.458	0	%100
107	MP4C	X	.265	.265	0	%100
108	MP4C	Z	-.458	-.458	0	%100
109	MP1B	X	.265	.265	0	%100
110	MP1B	Z	-.458	-.458	0	%100
111	MP3B	X	.32	.32	0	%100
112	MP3B	Z	-.555	-.555	0	%100
113	MP2B	X	.265	.265	0	%100
114	MP2B	Z	-.458	-.458	0	%100
115	MP4B	X	.265	.265	0	%100
116	MP4B	Z	-.458	-.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.514	.514	0	%100
2	M100	Z	-.297	-.297	0	%100
3	M101	X	.145	.145	0	%100
4	M101	Z	-.084	-.084	0	%100
5	M102	X	.145	.145	0	%100
6	M102	Z	-.084	-.084	0	%100
7	M103	X	.289	.289	0	%100
8	M103	Z	-.167	-.167	0	%100
9	M106	X	.643	.643	0	%100
10	M106	Z	-.371	-.371	0	%100
11	M107	X	.161	.161	0	%100
12	M107	Z	-.093	-.093	0	%100
13	M111	X	.868	.868	0	%100
14	M111	Z	-.501	-.501	0	%100
15	M112	X	1.179	1.179	0	%100
16	M112	Z	-.681	-.681	0	%100
17	M114	X	1.242	1.242	0	%100
18	M114	Z	-.717	-.717	0	%100
19	M116	X	.868	.868	0	%100
20	M116	Z	-.501	-.501	0	%100
21	M117	X	.295	.295	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
22	M117	Z	-.17	-.17	0	%100
23	M119	X	.31	.31	0	%100
24	M119	Z	-.179	-.179	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	.58	.58	0	%100
28	M125	Z	-.335	-.335	0	%100
29	M126	X	.58	.58	0	%100
30	M126	Z	-.335	-.335	0	%100
31	M127	X	1.158	1.158	0	%100
32	M127	Z	-.668	-.668	0	%100
33	M130	X	.161	.161	0	%100
34	M130	Z	-.093	-.093	0	%100
35	M131	X	.161	.161	0	%100
36	M131	Z	-.093	-.093	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	.295	.295	0	%100
40	M136	Z	-.17	-.17	0	%100
41	M138	X	.31	.31	0	%100
42	M138	Z	-.179	-.179	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	.295	.295	0	%100
46	M141	Z	-.17	-.17	0	%100
47	M143	X	.31	.31	0	%100
48	M143	Z	-.179	-.179	0	%100
49	M148	X	.514	.514	0	%100
50	M148	Z	-.297	-.297	0	%100
51	M149	X	.145	.145	0	%100
52	M149	Z	-.084	-.084	0	%100
53	M150	X	.145	.145	0	%100
54	M150	Z	-.084	-.084	0	%100
55	M151	X	.289	.289	0	%100
56	M151	Z	-.167	-.167	0	%100
57	M154	X	.161	.161	0	%100
58	M154	Z	-.093	-.093	0	%100
59	M155	X	.643	.643	0	%100
60	M155	Z	-.371	-.371	0	%100
61	M159	X	.868	.868	0	%100
62	M159	Z	-.501	-.501	0	%100
63	M160	X	.295	.295	0	%100
64	M160	Z	-.17	-.17	0	%100
65	M162	X	.31	.31	0	%100
66	M162	Z	-.179	-.179	0	%100
67	M164	X	.868	.868	0	%100
68	M164	Z	-.501	-.501	0	%100
69	M165	X	1.179	1.179	0	%100
70	M165	Z	-.681	-.681	0	%100
71	M167	X	1.242	1.242	0	%100
72	M167	Z	-.717	-.717	0	%100
73	M172	X	.169	.169	0	%100
74	M172	Z	-.097	-.097	0	%100
75	MP1A	X	.458	.458	0	%100
76	MP1A	Z	-.265	-.265	0	%100
77	MP3A	X	.555	.555	0	%100
78	MP3A	Z	-.32	-.32	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
79	MP2A	X	.458	.458	0	%100
80	MP2A	Z	-.265	-.265	0	%100
81	MP4A	X	.458	.458	0	%100
82	MP4A	Z	-.265	-.265	0	%100
83	M82	X	.675	.675	0	%100
84	M82	Z	-.39	-.39	0	%100
85	M91	X	.169	.169	0	%100
86	M91	Z	-.097	-.097	0	%100
87	OVP PIPE	X	.375	.375	0	%100
88	OVP PIPE	Z	-.216	-.216	0	%100
89	M102A	X	.139	.139	0	%100
90	M102A	Z	-.08	-.08	0	%100
91	M107A	X	.555	.555	0	%100
92	M107A	Z	-.32	-.32	0	%100
93	M112A	X	.139	.139	0	%100
94	M112A	Z	-.08	-.08	0	%100
95	M123A	X	.732	.732	0	%100
96	M123A	Z	-.423	-.423	0	%100
97	M124A	X	.183	.183	0	%100
98	M124A	Z	-.106	-.106	0	%100
99	M125A	X	.183	.183	0	%100
100	M125A	Z	-.106	-.106	0	%100
101	MP1C	X	.458	.458	0	%100
102	MP1C	Z	-.265	-.265	0	%100
103	MP3C	X	.555	.555	0	%100
104	MP3C	Z	-.32	-.32	0	%100
105	MP2C	X	.458	.458	0	%100
106	MP2C	Z	-.265	-.265	0	%100
107	MP4C	X	.458	.458	0	%100
108	MP4C	Z	-.265	-.265	0	%100
109	MP1B	X	.458	.458	0	%100
110	MP1B	Z	-.265	-.265	0	%100
111	MP3B	X	.555	.555	0	%100
112	MP3B	Z	-.32	-.32	0	%100
113	MP2B	X	.458	.458	0	%100
114	MP2B	Z	-.265	-.265	0	%100
115	MP4B	X	.458	.458	0	%100
116	MP4B	Z	-.265	-.265	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.792	.792	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	.557	.557	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	.557	.557	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	1.337	1.337	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	1.021	1.021	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
16	M112	Z	0	0	0	%100
17	M114	X	1.075	1.075	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	1.337	1.337	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	1.021	1.021	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	1.075	1.075	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.198	.198	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	.503	.503	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	.503	.503	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	1.003	1.003	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	.557	.557	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	.334	.334	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	1.021	1.021	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	1.075	1.075	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	.334	.334	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	.198	.198	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	.503	.503	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	.503	.503	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	1.003	1.003	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	.557	.557	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	.334	.334	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	.334	.334	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	1.021	1.021	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	1.075	1.075	0	%100
72	M167	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	.529	.529	0	%100
76	MP1A	Z	0	0	0	%100
77	MP3A	X	.64	.64	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	.529	.529	0	%100
80	MP2A	Z	0	0	0	%100
81	MP4A	X	.529	.529	0	%100
82	MP4A	Z	0	0	0	%100
83	M82	X	.585	.585	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	.585	.585	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	.433	.433	0	%100
88	OVP PIPE	Z	0	0	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	0	0	0	%100
91	M107A	X	.48	.48	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	.48	.48	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	.634	.634	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	.634	.634	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	0	0	0	%100
101	MP1C	X	.529	.529	0	%100
102	MP1C	Z	0	0	0	%100
103	MP3C	X	.64	.64	0	%100
104	MP3C	Z	0	0	0	%100
105	MP2C	X	.529	.529	0	%100
106	MP2C	Z	0	0	0	%100
107	MP4C	X	.529	.529	0	%100
108	MP4C	Z	0	0	0	%100
109	MP1B	X	.529	.529	0	%100
110	MP1B	Z	0	0	0	%100
111	MP3B	X	.64	.64	0	%100
112	MP3B	Z	0	0	0	%100
113	MP2B	X	.529	.529	0	%100
114	MP2B	Z	0	0	0	%100
115	MP4B	X	.529	.529	0	%100
116	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.514	.514	0	%100
2	M100	Z	.297	.297	0	%100
3	M101	X	.145	.145	0	%100
4	M101	Z	.084	.084	0	%100
5	M102	X	.145	.145	0	%100
6	M102	Z	.084	.084	0	%100
7	M103	X	.289	.289	0	%100
8	M103	Z	.167	.167	0	%100
9	M106	X	.161	.161	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)
10	M106	Z	.093	.093	0	%100
11	M107	X	.643	.643	0	%100
12	M107	Z	.371	.371	0	%100
13	M111	X	.868	.868	0	%100
14	M111	Z	.501	.501	0	%100
15	M112	X	.295	.295	0	%100
16	M112	Z	.17	.17	0	%100
17	M114	X	.31	.31	0	%100
18	M114	Z	.179	.179	0	%100
19	M116	X	.868	.868	0	%100
20	M116	Z	.501	.501	0	%100
21	M117	X	1.179	1.179	0	%100
22	M117	Z	.681	.681	0	%100
23	M119	X	1.242	1.242	0	%100
24	M119	Z	.717	.717	0	%100
25	M124	X	.514	.514	0	%100
26	M124	Z	.297	.297	0	%100
27	M125	X	.145	.145	0	%100
28	M125	Z	.084	.084	0	%100
29	M126	X	.145	.145	0	%100
30	M126	Z	.084	.084	0	%100
31	M127	X	.289	.289	0	%100
32	M127	Z	.167	.167	0	%100
33	M130	X	.643	.643	0	%100
34	M130	Z	.371	.371	0	%100
35	M131	X	.161	.161	0	%100
36	M131	Z	.093	.093	0	%100
37	M135	X	.868	.868	0	%100
38	M135	Z	.501	.501	0	%100
39	M136	X	1.179	1.179	0	%100
40	M136	Z	.681	.681	0	%100
41	M138	X	1.242	1.242	0	%100
42	M138	Z	.717	.717	0	%100
43	M140	X	.868	.868	0	%100
44	M140	Z	.501	.501	0	%100
45	M141	X	.295	.295	0	%100
46	M141	Z	.17	.17	0	%100
47	M143	X	.31	.31	0	%100
48	M143	Z	.179	.179	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	.58	.58	0	%100
52	M149	Z	.335	.335	0	%100
53	M150	X	.58	.58	0	%100
54	M150	Z	.335	.335	0	%100
55	M151	X	1.158	1.158	0	%100
56	M151	Z	.668	.668	0	%100
57	M154	X	.161	.161	0	%100
58	M154	Z	.093	.093	0	%100
59	M155	X	.161	.161	0	%100
60	M155	Z	.093	.093	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	.295	.295	0	%100
64	M160	Z	.17	.17	0	%100
65	M162	X	.31	.31	0	%100
66	M162	Z	.179	.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	.295	.295	0	%100
70	M165	Z	.17	.17	0	%100
71	M167	X	.31	.31	0	%100
72	M167	Z	.179	.179	0	%100
73	M172	X	.169	.169	0	%100
74	M172	Z	.097	.097	0	%100
75	MP1A	X	.458	.458	0	%100
76	MP1A	Z	.265	.265	0	%100
77	MP3A	X	.555	.555	0	%100
78	MP3A	Z	.32	.32	0	%100
79	MP2A	X	.458	.458	0	%100
80	MP2A	Z	.265	.265	0	%100
81	MP4A	X	.458	.458	0	%100
82	MP4A	Z	.265	.265	0	%100
83	M82	X	.169	.169	0	%100
84	M82	Z	.097	.097	0	%100
85	M91	X	.675	.675	0	%100
86	M91	Z	.39	.39	0	%100
87	OVP PIPE	X	.375	.375	0	%100
88	OVP PIPE	Z	.216	.216	0	%100
89	M102A	X	.139	.139	0	%100
90	M102A	Z	.08	.08	0	%100
91	M107A	X	.139	.139	0	%100
92	M107A	Z	.08	.08	0	%100
93	M112A	X	.555	.555	0	%100
94	M112A	Z	.32	.32	0	%100
95	M123A	X	.183	.183	0	%100
96	M123A	Z	.106	.106	0	%100
97	M124A	X	.732	.732	0	%100
98	M124A	Z	.423	.423	0	%100
99	M125A	X	.183	.183	0	%100
100	M125A	Z	.106	.106	0	%100
101	MP1C	X	.458	.458	0	%100
102	MP1C	Z	.265	.265	0	%100
103	MP3C	X	.555	.555	0	%100
104	MP3C	Z	.32	.32	0	%100
105	MP2C	X	.458	.458	0	%100
106	MP2C	Z	.265	.265	0	%100
107	MP4C	X	.458	.458	0	%100
108	MP4C	Z	.265	.265	0	%100
109	MP1B	X	.458	.458	0	%100
110	MP1B	Z	.265	.265	0	%100
111	MP3B	X	.555	.555	0	%100
112	MP3B	Z	.32	.32	0	%100
113	MP2B	X	.458	.458	0	%100
114	MP2B	Z	.265	.265	0	%100
115	MP4B	X	.458	.458	0	%100
116	MP4B	Z	.265	.265	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	.099	.099	0	%100
2	M100	Z	.171	.171	0	%100
3	M101	X	.251	.251	0	%100



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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft.F...	Start Locationft.%	End Locationft.%
4	M101	Z	.435	.435	0	%100
5	M102	X	.251	.251	0	%100
6	M102	Z	.435	.435	0	%100
7	M103	X	.501	.501	0	%100
8	M103	Z	.868	.868	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	.278	.278	0	%100
12	M107	Z	.482	.482	0	%100
13	M111	X	.167	.167	0	%100
14	M111	Z	.289	.289	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	.167	.167	0	%100
20	M116	Z	.289	.289	0	%100
21	M117	X	.511	.511	0	%100
22	M117	Z	.884	.884	0	%100
23	M119	X	.538	.538	0	%100
24	M119	Z	.931	.931	0	%100
25	M124	X	.396	.396	0	%100
26	M124	Z	.686	.686	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	.278	.278	0	%100
34	M130	Z	.482	.482	0	%100
35	M131	X	.278	.278	0	%100
36	M131	Z	.482	.482	0	%100
37	M135	X	.668	.668	0	%100
38	M135	Z	1.158	1.158	0	%100
39	M136	X	.511	.511	0	%100
40	M136	Z	.884	.884	0	%100
41	M138	X	.538	.538	0	%100
42	M138	Z	.931	.931	0	%100
43	M140	X	.668	.668	0	%100
44	M140	Z	1.158	1.158	0	%100
45	M141	X	.511	.511	0	%100
46	M141	Z	.884	.884	0	%100
47	M143	X	.538	.538	0	%100
48	M143	Z	.931	.931	0	%100
49	M148	X	.099	.099	0	%100
50	M148	Z	.171	.171	0	%100
51	M149	X	.251	.251	0	%100
52	M149	Z	.435	.435	0	%100
53	M150	X	.251	.251	0	%100
54	M150	Z	.435	.435	0	%100
55	M151	X	.501	.501	0	%100
56	M151	Z	.868	.868	0	%100
57	M154	X	.278	.278	0	%100
58	M154	Z	.482	.482	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
61	M159	X	.167	.167	0	%100
62	M159	Z	.289	.289	0	%100
63	M160	X	.511	.511	0	%100
64	M160	Z	.884	.884	0	%100
65	M162	X	.538	.538	0	%100
66	M162	Z	.931	.931	0	%100
67	M164	X	.167	.167	0	%100
68	M164	Z	.289	.289	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	.292	.292	0	%100
74	M172	Z	.506	.506	0	%100
75	MP1A	X	.265	.265	0	%100
76	MP1A	Z	.458	.458	0	%100
77	MP3A	X	.32	.32	0	%100
78	MP3A	Z	.555	.555	0	%100
79	MP2A	X	.265	.265	0	%100
80	MP2A	Z	.458	.458	0	%100
81	MP4A	X	.265	.265	0	%100
82	MP4A	Z	.458	.458	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	.292	.292	0	%100
86	M91	Z	.506	.506	0	%100
87	OVP PIPE	X	.216	.216	0	%100
88	OVP PIPE	Z	.375	.375	0	%100
89	M102A	X	.24	.24	0	%100
90	M102A	Z	.416	.416	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	.24	.24	0	%100
94	M112A	Z	.416	.416	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	.317	.317	0	%100
98	M124A	Z	.549	.549	0	%100
99	M125A	X	.317	.317	0	%100
100	M125A	Z	.549	.549	0	%100
101	MP1C	X	.265	.265	0	%100
102	MP1C	Z	.458	.458	0	%100
103	MP3C	X	.32	.32	0	%100
104	MP3C	Z	.555	.555	0	%100
105	MP2C	X	.265	.265	0	%100
106	MP2C	Z	.458	.458	0	%100
107	MP4C	X	.265	.265	0	%100
108	MP4C	Z	.458	.458	0	%100
109	MP1B	X	.265	.265	0	%100
110	MP1B	Z	.458	.458	0	%100
111	MP3B	X	.32	.32	0	%100
112	MP3B	Z	.555	.555	0	%100
113	MP2B	X	.265	.265	0	%100
114	MP2B	Z	.458	.458	0	%100
115	MP4B	X	.265	.265	0	%100
116	MP4B	Z	.458	.458	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	.67	.67	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	.67	.67	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	1.337	1.337	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	.186	.186	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	.186	.186	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	.34	.34	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	.358	.358	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	.34	.34	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	.358	.358	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	.594	.594	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	.168	.168	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	.168	.168	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	.334	.334	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	.186	.186	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	.742	.742	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	1.003	1.003	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	.34	.34	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	.358	.358	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	1.003	1.003	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	1.361	1.361	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	1.434	1.434	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	.594	.594	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	.168	.168	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	.168	.168	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	.334	.334	0	%100
57	M154	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M154	Z	.742	.742	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	.186	.186	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	1.003	1.003	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	1.361	1.361	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	1.434	1.434	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	1.003	1.003	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	.34	.34	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	.358	.358	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	.78	.78	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	.529	.529	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	.64	.64	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	.529	.529	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	.529	.529	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	.195	.195	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	.195	.195	0	%100
87	OVP PIPE	X	0	0	0	%100
88	OVP PIPE	Z	.433	.433	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	.64	.64	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	.16	.16	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	.16	.16	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	.211	.211	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	.211	.211	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	.846	.846	0	%100
101	MP1C	X	0	0	0	%100
102	MP1C	Z	.529	.529	0	%100
103	MP3C	X	0	0	0	%100
104	MP3C	Z	.64	.64	0	%100
105	MP2C	X	0	0	0	%100
106	MP2C	Z	.529	.529	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	.529	.529	0	%100
109	MP1B	X	0	0	0	%100
110	MP1B	Z	.529	.529	0	%100
111	MP3B	X	0	0	0	%100
112	MP3B	Z	.64	.64	0	%100
113	MP2B	X	0	0	0	%100
114	MP2B	Z	.529	.529	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
115	MP4B	X	0	0	0	%100
116	MP4B	Z	.529	.529	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-.099	-.099	0	%100
2	M100	Z	.171	.171	0	%100
3	M101	X	-.251	-.251	0	%100
4	M101	Z	.435	.435	0	%100
5	M102	X	-.251	-.251	0	%100
6	M102	Z	.435	.435	0	%100
7	M103	X	-.501	-.501	0	%100
8	M103	Z	.868	.868	0	%100
9	M106	X	-.278	-.278	0	%100
10	M106	Z	.482	.482	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-.167	-.167	0	%100
14	M111	Z	.289	.289	0	%100
15	M112	X	-.511	-.511	0	%100
16	M112	Z	.884	.884	0	%100
17	M114	X	-.538	-.538	0	%100
18	M114	Z	.931	.931	0	%100
19	M116	X	-.167	-.167	0	%100
20	M116	Z	.289	.289	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-.099	-.099	0	%100
26	M124	Z	.171	.171	0	%100
27	M125	X	-.251	-.251	0	%100
28	M125	Z	.435	.435	0	%100
29	M126	X	-.251	-.251	0	%100
30	M126	Z	.435	.435	0	%100
31	M127	X	-.501	-.501	0	%100
32	M127	Z	.868	.868	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	-.278	-.278	0	%100
36	M131	Z	.482	.482	0	%100
37	M135	X	-.167	-.167	0	%100
38	M135	Z	.289	.289	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-.167	-.167	0	%100
44	M140	Z	.289	.289	0	%100
45	M141	X	-.511	-.511	0	%100
46	M141	Z	.884	.884	0	%100
47	M143	X	-.538	-.538	0	%100
48	M143	Z	.931	.931	0	%100
49	M148	X	-.396	-.396	0	%100
50	M148	Z	.686	.686	0	%100
51	M149	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	-.278	-.278	0	%100
58	M154	Z	.482	.482	0	%100
59	M155	X	-.278	-.278	0	%100
60	M155	Z	.482	.482	0	%100
61	M159	X	-.668	-.668	0	%100
62	M159	Z	1.158	1.158	0	%100
63	M160	X	-.511	-.511	0	%100
64	M160	Z	.884	.884	0	%100
65	M162	X	-.538	-.538	0	%100
66	M162	Z	.931	.931	0	%100
67	M164	X	-.668	-.668	0	%100
68	M164	Z	1.158	1.158	0	%100
69	M165	X	-.511	-.511	0	%100
70	M165	Z	.884	.884	0	%100
71	M167	X	-.538	-.538	0	%100
72	M167	Z	.931	.931	0	%100
73	M172	X	-.292	-.292	0	%100
74	M172	Z	.506	.506	0	%100
75	MP1A	X	-.265	-.265	0	%100
76	MP1A	Z	.458	.458	0	%100
77	MP3A	X	-.32	-.32	0	%100
78	MP3A	Z	.555	.555	0	%100
79	MP2A	X	-.265	-.265	0	%100
80	MP2A	Z	.458	.458	0	%100
81	MP4A	X	-.265	-.265	0	%100
82	MP4A	Z	.458	.458	0	%100
83	M82	X	-.292	-.292	0	%100
84	M82	Z	.506	.506	0	%100
85	M91	X	0	0	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	-.216	-.216	0	%100
88	OVP PIPE	Z	.375	.375	0	%100
89	M102A	X	-.24	-.24	0	%100
90	M102A	Z	.416	.416	0	%100
91	M107A	X	-.24	-.24	0	%100
92	M107A	Z	.416	.416	0	%100
93	M112A	X	0	0	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	-.317	-.317	0	%100
96	M123A	Z	.549	.549	0	%100
97	M124A	X	0	0	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	-.317	-.317	0	%100
100	M125A	Z	.549	.549	0	%100
101	MP1C	X	-.265	-.265	0	%100
102	MP1C	Z	.458	.458	0	%100
103	MP3C	X	-.32	-.32	0	%100
104	MP3C	Z	.555	.555	0	%100
105	MP2C	X	-.265	-.265	0	%100
106	MP2C	Z	.458	.458	0	%100
107	MP4C	X	-.265	-.265	0	%100
108	MP4C	Z	.458	.458	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
109	MP1B	X	-.265	-.265	0	%100
110	MP1B	Z	.458	.458	0	%100
111	MP3B	X	-.32	-.32	0	%100
112	MP3B	Z	.555	.555	0	%100
113	MP2B	X	-.265	-.265	0	%100
114	MP2B	Z	.458	.458	0	%100
115	MP4B	X	-.265	-.265	0	%100
116	MP4B	Z	.458	.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-.514	-.514	0	%100
2	M100	Z	.297	.297	0	%100
3	M101	X	-.145	-.145	0	%100
4	M101	Z	.084	.084	0	%100
5	M102	X	-.145	-.145	0	%100
6	M102	Z	.084	.084	0	%100
7	M103	X	-.289	-.289	0	%100
8	M103	Z	.167	.167	0	%100
9	M106	X	-.643	-.643	0	%100
10	M106	Z	.371	.371	0	%100
11	M107	X	-.161	-.161	0	%100
12	M107	Z	.093	.093	0	%100
13	M111	X	-.868	-.868	0	%100
14	M111	Z	.501	.501	0	%100
15	M112	X	-1.179	-1.179	0	%100
16	M112	Z	.681	.681	0	%100
17	M114	X	-1.242	-1.242	0	%100
18	M114	Z	.717	.717	0	%100
19	M116	X	-.868	-.868	0	%100
20	M116	Z	.501	.501	0	%100
21	M117	X	-.295	-.295	0	%100
22	M117	Z	.17	.17	0	%100
23	M119	X	-.31	-.31	0	%100
24	M119	Z	.179	.179	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-.58	-.58	0	%100
28	M125	Z	.335	.335	0	%100
29	M126	X	-.58	-.58	0	%100
30	M126	Z	.335	.335	0	%100
31	M127	X	-1.158	-1.158	0	%100
32	M127	Z	.668	.668	0	%100
33	M130	X	-.161	-.161	0	%100
34	M130	Z	.093	.093	0	%100
35	M131	X	-.161	-.161	0	%100
36	M131	Z	.093	.093	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-.295	-.295	0	%100
40	M136	Z	.17	.17	0	%100
41	M138	X	-.31	-.31	0	%100
42	M138	Z	.179	.179	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	-.295	-.295	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
46	M141	Z	.17	.17	0	%100
47	M143	X	-.31	-.31	0	%100
48	M143	Z	.179	.179	0	%100
49	M148	X	-.514	-.514	0	%100
50	M148	Z	.297	.297	0	%100
51	M149	X	-.145	-.145	0	%100
52	M149	Z	.084	.084	0	%100
53	M150	X	-.145	-.145	0	%100
54	M150	Z	.084	.084	0	%100
55	M151	X	-.289	-.289	0	%100
56	M151	Z	.167	.167	0	%100
57	M154	X	-.161	-.161	0	%100
58	M154	Z	.093	.093	0	%100
59	M155	X	-.643	-.643	0	%100
60	M155	Z	.371	.371	0	%100
61	M159	X	-.868	-.868	0	%100
62	M159	Z	.501	.501	0	%100
63	M160	X	-.295	-.295	0	%100
64	M160	Z	.17	.17	0	%100
65	M162	X	-.31	-.31	0	%100
66	M162	Z	.179	.179	0	%100
67	M164	X	-.868	-.868	0	%100
68	M164	Z	.501	.501	0	%100
69	M165	X	-1.179	-1.179	0	%100
70	M165	Z	.681	.681	0	%100
71	M167	X	-1.242	-1.242	0	%100
72	M167	Z	.717	.717	0	%100
73	M172	X	-.169	-.169	0	%100
74	M172	Z	.097	.097	0	%100
75	MP1A	X	-.458	-.458	0	%100
76	MP1A	Z	.265	.265	0	%100
77	MP3A	X	-.555	-.555	0	%100
78	MP3A	Z	.32	.32	0	%100
79	MP2A	X	-.458	-.458	0	%100
80	MP2A	Z	.265	.265	0	%100
81	MP4A	X	-.458	-.458	0	%100
82	MP4A	Z	.265	.265	0	%100
83	M82	X	-.675	-.675	0	%100
84	M82	Z	.39	.39	0	%100
85	M91	X	-.169	-.169	0	%100
86	M91	Z	.097	.097	0	%100
87	OVP PIPE	X	-.375	-.375	0	%100
88	OVP PIPE	Z	.216	.216	0	%100
89	M102A	X	-.139	-.139	0	%100
90	M102A	Z	.08	.08	0	%100
91	M107A	X	-.555	-.555	0	%100
92	M107A	Z	.32	.32	0	%100
93	M112A	X	-.139	-.139	0	%100
94	M112A	Z	.08	.08	0	%100
95	M123A	X	-.732	-.732	0	%100
96	M123A	Z	.423	.423	0	%100
97	M124A	X	-.183	-.183	0	%100
98	M124A	Z	.106	.106	0	%100
99	M125A	X	-.183	-.183	0	%100
100	M125A	Z	.106	.106	0	%100
101	MP1C	X	-.458	-.458	0	%100
102	MP1C	Z	.265	.265	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
103	MP3C	X	-555	-555	0	%100
104	MP3C	Z	.32	.32	0	%100
105	MP2C	X	-458	-458	0	%100
106	MP2C	Z	.265	.265	0	%100
107	MP4C	X	-458	-458	0	%100
108	MP4C	Z	.265	.265	0	%100
109	MP1B	X	-458	-458	0	%100
110	MP1B	Z	.265	.265	0	%100
111	MP3B	X	-555	-555	0	%100
112	MP3B	Z	.32	.32	0	%100
113	MP2B	X	-458	-458	0	%100
114	MP2B	Z	.265	.265	0	%100
115	MP4B	X	-458	-458	0	%100
116	MP4B	Z	.265	.265	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-792	-792	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	-557	-557	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-557	-557	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-1.337	-1.337	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	-1.021	-1.021	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	-1.075	-1.075	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-1.337	-1.337	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	-1.021	-1.021	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	-1.075	-1.075	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-198	-198	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-503	-503	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	-503	-503	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	-1.003	-1.003	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-557	-557	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	-334	-334	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-1.021	-1.021	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft...)	End Magnitude(lb/ft.F...)	Start Location(ft.%)	End Location(ft.%)
40	M136	Z	0	0	0	%100
41	M138	X	-1.075	-1.075	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-.334	-.334	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	-.198	-.198	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-.503	-.503	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	-.503	-.503	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	-1.003	-1.003	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	-.557	-.557	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-.334	-.334	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	-.334	-.334	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-1.021	-1.021	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	-1.075	-1.075	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	-.529	-.529	0	%100
76	MP1A	Z	0	0	0	%100
77	MP3A	X	-.64	-.64	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	-.529	-.529	0	%100
80	MP2A	Z	0	0	0	%100
81	MP4A	X	-.529	-.529	0	%100
82	MP4A	Z	0	0	0	%100
83	M82	X	-.585	-.585	0	%100
84	M82	Z	0	0	0	%100
85	M91	X	-.585	-.585	0	%100
86	M91	Z	0	0	0	%100
87	OVP PIPE	X	-.433	-.433	0	%100
88	OVP PIPE	Z	0	0	0	%100
89	M102A	X	0	0	0	%100
90	M102A	Z	0	0	0	%100
91	M107A	X	-.48	-.48	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	-.48	-.48	0	%100
94	M112A	Z	0	0	0	%100
95	M123A	X	-.634	-.634	0	%100
96	M123A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
97	M124A	X	-634	-634	0	%100
98	M124A	Z	0	0	0	%100
99	M125A	X	0	0	0	%100
100	M125A	Z	0	0	0	%100
101	MP1C	X	-529	-529	0	%100
102	MP1C	Z	0	0	0	%100
103	MP3C	X	-.64	-.64	0	%100
104	MP3C	Z	0	0	0	%100
105	MP2C	X	-529	-529	0	%100
106	MP2C	Z	0	0	0	%100
107	MP4C	X	-529	-529	0	%100
108	MP4C	Z	0	0	0	%100
109	MP1B	X	-529	-529	0	%100
110	MP1B	Z	0	0	0	%100
111	MP3B	X	-.64	-.64	0	%100
112	MP3B	Z	0	0	0	%100
113	MP2B	X	-529	-529	0	%100
114	MP2B	Z	0	0	0	%100
115	MP4B	X	-529	-529	0	%100
116	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-.514	-.514	0	%100
2	M100	Z	-.297	-.297	0	%100
3	M101	X	-.145	-.145	0	%100
4	M101	Z	-.084	-.084	0	%100
5	M102	X	-.145	-.145	0	%100
6	M102	Z	-.084	-.084	0	%100
7	M103	X	-.289	-.289	0	%100
8	M103	Z	-.167	-.167	0	%100
9	M106	X	-.161	-.161	0	%100
10	M106	Z	-.093	-.093	0	%100
11	M107	X	-.643	-.643	0	%100
12	M107	Z	-.371	-.371	0	%100
13	M111	X	-.868	-.868	0	%100
14	M111	Z	-.501	-.501	0	%100
15	M112	X	-.295	-.295	0	%100
16	M112	Z	-.17	-.17	0	%100
17	M114	X	-.31	-.31	0	%100
18	M114	Z	-.179	-.179	0	%100
19	M116	X	-.868	-.868	0	%100
20	M116	Z	-.501	-.501	0	%100
21	M117	X	-1.179	-1.179	0	%100
22	M117	Z	-.681	-.681	0	%100
23	M119	X	-1.242	-1.242	0	%100
24	M119	Z	-.717	-.717	0	%100
25	M124	X	-.514	-.514	0	%100
26	M124	Z	-.297	-.297	0	%100
27	M125	X	-.145	-.145	0	%100
28	M125	Z	-.084	-.084	0	%100
29	M126	X	-.145	-.145	0	%100
30	M126	Z	-.084	-.084	0	%100
31	M127	X	-.289	-.289	0	%100
32	M127	Z	-.167	-.167	0	%100
33	M130	X	-.643	-.643	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	M130	Z	-0.371	-0.371	0	%100
35	M131	X	-0.161	-0.161	0	%100
36	M131	Z	-0.093	-0.093	0	%100
37	M135	X	-0.868	-0.868	0	%100
38	M135	Z	-0.501	-0.501	0	%100
39	M136	X	-1.179	-1.179	0	%100
40	M136	Z	-0.681	-0.681	0	%100
41	M138	X	-1.242	-1.242	0	%100
42	M138	Z	-0.717	-0.717	0	%100
43	M140	X	-0.868	-0.868	0	%100
44	M140	Z	-0.501	-0.501	0	%100
45	M141	X	-0.295	-0.295	0	%100
46	M141	Z	-0.17	-0.17	0	%100
47	M143	X	-0.31	-0.31	0	%100
48	M143	Z	-0.179	-0.179	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-0.58	-0.58	0	%100
52	M149	Z	-0.335	-0.335	0	%100
53	M150	X	-0.58	-0.58	0	%100
54	M150	Z	-0.335	-0.335	0	%100
55	M151	X	-1.158	-1.158	0	%100
56	M151	Z	-0.668	-0.668	0	%100
57	M154	X	-0.161	-0.161	0	%100
58	M154	Z	-0.093	-0.093	0	%100
59	M155	X	-0.161	-0.161	0	%100
60	M155	Z	-0.093	-0.093	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	-0.295	-0.295	0	%100
64	M160	Z	-0.17	-0.17	0	%100
65	M162	X	-0.31	-0.31	0	%100
66	M162	Z	-0.179	-0.179	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-0.295	-0.295	0	%100
70	M165	Z	-0.17	-0.17	0	%100
71	M167	X	-0.31	-0.31	0	%100
72	M167	Z	-0.179	-0.179	0	%100
73	M172	X	-0.169	-0.169	0	%100
74	M172	Z	-0.097	-0.097	0	%100
75	MP1A	X	-0.458	-0.458	0	%100
76	MP1A	Z	-0.265	-0.265	0	%100
77	MP3A	X	-0.555	-0.555	0	%100
78	MP3A	Z	-0.32	-0.32	0	%100
79	MP2A	X	-0.458	-0.458	0	%100
80	MP2A	Z	-0.265	-0.265	0	%100
81	MP4A	X	-0.458	-0.458	0	%100
82	MP4A	Z	-0.265	-0.265	0	%100
83	M82	X	-0.169	-0.169	0	%100
84	M82	Z	-0.097	-0.097	0	%100
85	M91	X	-0.675	-0.675	0	%100
86	M91	Z	-0.39	-0.39	0	%100
87	OVP PIPE	X	-0.375	-0.375	0	%100
88	OVP PIPE	Z	-0.216	-0.216	0	%100
89	M102A	X	-0.139	-0.139	0	%100
90	M102A	Z	-0.08	-0.08	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
91	M107A	X	-139	-139	0	%100
92	M107A	Z	-.08	-.08	0	%100
93	M112A	X	-555	-555	0	%100
94	M112A	Z	-.32	-.32	0	%100
95	M123A	X	-183	-183	0	%100
96	M123A	Z	-.106	-.106	0	%100
97	M124A	X	-.732	-.732	0	%100
98	M124A	Z	-.423	-.423	0	%100
99	M125A	X	-.183	-.183	0	%100
100	M125A	Z	-.106	-.106	0	%100
101	MP1C	X	-.458	-.458	0	%100
102	MP1C	Z	-.265	-.265	0	%100
103	MP3C	X	-555	-555	0	%100
104	MP3C	Z	-.32	-.32	0	%100
105	MP2C	X	-.458	-.458	0	%100
106	MP2C	Z	-.265	-.265	0	%100
107	MP4C	X	-.458	-.458	0	%100
108	MP4C	Z	-.265	-.265	0	%100
109	MP1B	X	-.458	-.458	0	%100
110	MP1B	Z	-.265	-.265	0	%100
111	MP3B	X	-555	-555	0	%100
112	MP3B	Z	-.32	-.32	0	%100
113	MP2B	X	-.458	-.458	0	%100
114	MP2B	Z	-.265	-.265	0	%100
115	MP4B	X	-.458	-.458	0	%100
116	MP4B	Z	-.265	-.265	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M100	X	-.099	-.099	0	%100
2	M100	Z	-.171	-.171	0	%100
3	M101	X	-.251	-.251	0	%100
4	M101	Z	-.435	-.435	0	%100
5	M102	X	-.251	-.251	0	%100
6	M102	Z	-.435	-.435	0	%100
7	M103	X	-.501	-.501	0	%100
8	M103	Z	-.868	-.868	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-.278	-.278	0	%100
12	M107	Z	-.482	-.482	0	%100
13	M111	X	-.167	-.167	0	%100
14	M111	Z	-.289	-.289	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-.167	-.167	0	%100
20	M116	Z	-.289	-.289	0	%100
21	M117	X	-.511	-.511	0	%100
22	M117	Z	-.884	-.884	0	%100
23	M119	X	-.538	-.538	0	%100
24	M119	Z	-.931	-.931	0	%100
25	M124	X	-.396	-.396	0	%100
26	M124	Z	-.686	-.686	0	%100
27	M125	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-.278	-.278	0	%100
34	M130	Z	-.482	-.482	0	%100
35	M131	X	-.278	-.278	0	%100
36	M131	Z	-.482	-.482	0	%100
37	M135	X	-.668	-.668	0	%100
38	M135	Z	-1.158	-1.158	0	%100
39	M136	X	-.511	-.511	0	%100
40	M136	Z	-.884	-.884	0	%100
41	M138	X	-.538	-.538	0	%100
42	M138	Z	-.931	-.931	0	%100
43	M140	X	-.668	-.668	0	%100
44	M140	Z	-1.158	-1.158	0	%100
45	M141	X	-.511	-.511	0	%100
46	M141	Z	-.884	-.884	0	%100
47	M143	X	-.538	-.538	0	%100
48	M143	Z	-.931	-.931	0	%100
49	M148	X	-.099	-.099	0	%100
50	M148	Z	-.171	-.171	0	%100
51	M149	X	-.251	-.251	0	%100
52	M149	Z	-.435	-.435	0	%100
53	M150	X	-.251	-.251	0	%100
54	M150	Z	-.435	-.435	0	%100
55	M151	X	-.501	-.501	0	%100
56	M151	Z	-.868	-.868	0	%100
57	M154	X	-.278	-.278	0	%100
58	M154	Z	-.482	-.482	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-.167	-.167	0	%100
62	M159	Z	-.289	-.289	0	%100
63	M160	X	-.511	-.511	0	%100
64	M160	Z	-.884	-.884	0	%100
65	M162	X	-.538	-.538	0	%100
66	M162	Z	-.931	-.931	0	%100
67	M164	X	-.167	-.167	0	%100
68	M164	Z	-.289	-.289	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	-.292	-.292	0	%100
74	M172	Z	-.506	-.506	0	%100
75	MP1A	X	-.265	-.265	0	%100
76	MP1A	Z	-.458	-.458	0	%100
77	MP3A	X	-.32	-.32	0	%100
78	MP3A	Z	-.555	-.555	0	%100
79	MP2A	X	-.265	-.265	0	%100
80	MP2A	Z	-.458	-.458	0	%100
81	MP4A	X	-.265	-.265	0	%100
82	MP4A	Z	-.458	-.458	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
85	M91	X	-292	-292	0	%100
86	M91	Z	-506	-506	0	%100
87	OVP PIPE	X	-216	-216	0	%100
88	OVP PIPE	Z	-375	-375	0	%100
89	M102A	X	-.24	-.24	0	%100
90	M102A	Z	-.416	-.416	0	%100
91	M107A	X	0	0	0	%100
92	M107A	Z	0	0	0	%100
93	M112A	X	-.24	-.24	0	%100
94	M112A	Z	-.416	-.416	0	%100
95	M123A	X	0	0	0	%100
96	M123A	Z	0	0	0	%100
97	M124A	X	-.317	-.317	0	%100
98	M124A	Z	-.549	-.549	0	%100
99	M125A	X	-.317	-.317	0	%100
100	M125A	Z	-.549	-.549	0	%100
101	MP1C	X	-.265	-.265	0	%100
102	MP1C	Z	-.458	-.458	0	%100
103	MP3C	X	-.32	-.32	0	%100
104	MP3C	Z	-.555	-.555	0	%100
105	MP2C	X	-.265	-.265	0	%100
106	MP2C	Z	-.458	-.458	0	%100
107	MP4C	X	-.265	-.265	0	%100
108	MP4C	Z	-.458	-.458	0	%100
109	MP1B	X	-.265	-.265	0	%100
110	MP1B	Z	-.458	-.458	0	%100
111	MP3B	X	-.32	-.32	0	%100
112	MP3B	Z	-.555	-.555	0	%100
113	MP2B	X	-.265	-.265	0	%100
114	MP2B	Z	-.458	-.458	0	%100
115	MP4B	X	-.265	-.265	0	%100
116	MP4B	Z	-.458	-.458	0	%100

**Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M130	Y	-1.881	-4.429	0	.832
2	M130	Y	-4.429	-7.041	.832	1.665
3	M130	Y	-7.041	-8.256	1.665	2.497
4	M130	Y	-8.256	-6.578	2.497	3.329
5	M130	Y	-6.578	-3.469	3.329	4.162
6	M131	Y	-3.463	-6.544	0	.832
7	M131	Y	-6.544	-8.189	.832	1.665
8	M131	Y	-8.189	-6.901	1.665	2.497
9	M131	Y	-6.901	-4.226	2.497	3.329
10	M131	Y	-4.226	-1.665	3.329	4.162
11	M154	Y	-1.661	-4.228	0	.832
12	M154	Y	-4.228	-6.902	.832	1.665
13	M154	Y	-6.902	-8.189	1.665	2.497
14	M154	Y	-8.189	-6.545	2.497	3.329
15	M154	Y	-6.545	-3.463	3.329	4.162
16	M155	Y	-3.462	-6.573	0	.832
17	M155	Y	-6.573	-8.26	.832	1.665
18	M155	Y	-8.26	-7.044	1.665	2.497
19	M155	Y	-7.044	-4.426	2.497	3.329
20	M155	Y	-4.426	-1.884	3.329	4.162
21	M106	Y	-1.884	-4.426	0	.832

**Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
22	M106	Y	-4.426	-7.044	.832	1.665
23	M106	Y	-7.044	-8.26	1.665	2.497
24	M106	Y	-8.26	-6.573	2.497	3.329
25	M106	Y	-6.573	-3.462	3.329	4.162
26	M107	Y	-3.463	-6.545	0	.832
27	M107	Y	-6.545	-8.189	.832	1.665
28	M107	Y	-8.189	-6.902	1.665	2.497
29	M107	Y	-6.902	-4.228	2.497	3.329
30	M107	Y	-4.228	-1.661	3.329	4.162

**Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M130	Y	-3.691	-8.692	0	.832
2	M130	Y	-8.692	-13.819	.832	1.665
3	M130	Y	-13.819	-16.201	1.665	2.497
4	M130	Y	-16.201	-12.908	2.497	3.329
5	M130	Y	-12.908	-6.808	3.329	4.162
6	M131	Y	-6.796	-12.842	0	.832
7	M131	Y	-12.842	-16.072	.832	1.665
8	M131	Y	-16.072	-13.543	1.665	2.497
9	M131	Y	-13.543	-8.294	2.497	3.329
10	M131	Y	-8.294	-3.268	3.329	4.162
11	M154	Y	-3.26	-8.298	0	.832
12	M154	Y	-8.298	-13.545	.832	1.665
13	M154	Y	-13.545	-16.07	1.665	2.497
14	M154	Y	-16.07	-12.844	2.497	3.329
15	M154	Y	-12.844	-6.796	3.329	4.162
16	M155	Y	-6.793	-12.9	0	.832
17	M155	Y	-12.9	-16.211	.832	1.665
18	M155	Y	-16.211	-13.825	1.665	2.497
19	M155	Y	-13.825	-8.686	2.497	3.329
20	M155	Y	-8.686	-3.698	3.329	4.162
21	M106	Y	-3.698	-8.686	0	.832
22	M106	Y	-8.686	-13.825	.832	1.665
23	M106	Y	-13.825	-16.211	1.665	2.497
24	M106	Y	-16.211	-12.9	2.497	3.329
25	M106	Y	-12.9	-6.793	3.329	4.162
26	M107	Y	-6.796	-12.844	0	.832
27	M107	Y	-12.844	-16.07	.832	1.665
28	M107	Y	-16.07	-13.545	1.665	2.497
29	M107	Y	-13.545	-8.298	2.497	3.329
30	M107	Y	-8.298	-3.26	3.329	4.162

**Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M130	Y	-.069	-.162	0	.832
2	M130	Y	-.162	-.257	.832	1.665
3	M130	Y	-.257	-.302	1.665	2.497
4	M130	Y	-.302	-.24	2.497	3.329
5	M130	Y	-.24	-.127	3.329	4.162
6	M131	Y	-.127	-.239	0	.832
7	M131	Y	-.239	-.299	.832	1.665
8	M131	Y	-.299	-.252	1.665	2.497
9	M131	Y	-.252	-.154	2.497	3.329
10	M131	Y	-.154	-.061	3.329	4.162
11	M154	Y	-.061	-.154	0	.832



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**Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
12	M154	Y	-154	-252	.832	1.665
13	M154	Y	-252	-299	1.665	2.497
14	M154	Y	-299	-239	2.497	3.329
15	M154	Y	-239	-127	3.329	4.162
16	M155	Y	-126	-.24	0	.832
17	M155	Y	-.24	-.302	.832	1.665
18	M155	Y	-.302	-.257	1.665	2.497
19	M155	Y	-.257	-.162	2.497	3.329
20	M155	Y	-.162	-.069	3.329	4.162
21	M106	Y	-.069	-.162	0	.832
22	M106	Y	-.162	-.257	.832	1.665
23	M106	Y	-.257	-.302	1.665	2.497
24	M106	Y	-.302	-.24	2.497	3.329
25	M106	Y	-.24	-.126	3.329	4.162
26	M107	Y	-.127	-.239	0	.832
27	M107	Y	-.239	-.299	.832	1.665
28	M107	Y	-.299	-.252	1.665	2.497
29	M107	Y	-.252	-.154	2.497	3.329
30	M107	Y	-.154	-.061	3.329	4.162

**Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M130	Z	-.171	-.404	0	.832
2	M130	Z	-.404	-.642	.832	1.665
3	M130	Z	-.642	-.753	1.665	2.497
4	M130	Z	-.753	-.6	2.497	3.329
5	M130	Z	-.6	-.316	3.329	4.162
6	M131	Z	-.316	-.596	0	.832
7	M131	Z	-.596	-.746	.832	1.665
8	M131	Z	-.746	-.629	1.665	2.497
9	M131	Z	-.629	-.385	2.497	3.329
10	M131	Z	-.385	-.152	3.329	4.162
11	M154	Z	-.151	-.385	0	.832
12	M154	Z	-.385	-.629	.832	1.665
13	M154	Z	-.629	-.746	1.665	2.497
14	M154	Z	-.746	-.597	2.497	3.329
15	M154	Z	-.597	-.316	3.329	4.162
16	M155	Z	-.316	-.599	0	.832
17	M155	Z	-.599	-.753	.832	1.665
18	M155	Z	-.753	-.642	1.665	2.497
19	M155	Z	-.642	-.403	2.497	3.329
20	M155	Z	-.403	-.172	3.329	4.162
21	M106	Z	-.172	-.403	0	.832
22	M106	Z	-.403	-.642	.832	1.665
23	M106	Z	-.642	-.753	1.665	2.497
24	M106	Z	-.753	-.599	2.497	3.329
25	M106	Z	-.599	-.316	3.329	4.162
26	M107	Z	-.316	-.597	0	.832
27	M107	Z	-.597	-.746	.832	1.665
28	M107	Z	-.746	-.629	1.665	2.497
29	M107	Z	-.629	-.385	2.497	3.329
30	M107	Z	-.385	-.151	3.329	4.162

**Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M130	X	.171	.404	0	.832

**Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
2	M130	X	.404	.642	.832	1.665
3	M130	X	.642	.753	1.665	2.497
4	M130	X	.753	.6	2.497	3.329
5	M130	X	.6	.316	3.329	4.162
6	M131	X	.316	.596	0	.832
7	M131	X	.596	.746	.832	1.665
8	M131	X	.746	.629	1.665	2.497
9	M131	X	.629	.385	2.497	3.329
10	M131	X	.385	.152	3.329	4.162
11	M154	X	.151	.385	0	.832
12	M154	X	.385	.629	.832	1.665
13	M154	X	.629	.746	1.665	2.497
14	M154	X	.746	.597	2.497	3.329
15	M154	X	.597	.316	3.329	4.162
16	M155	X	.316	.599	0	.832
17	M155	X	.599	.753	.832	1.665
18	M155	X	.753	.642	1.665	2.497
19	M155	X	.642	.403	2.497	3.329
20	M155	X	.403	.172	3.329	4.162
21	M106	X	.172	.403	0	.832
22	M106	X	.403	.642	.832	1.665
23	M106	X	.642	.753	1.665	2.497
24	M106	X	.753	.599	2.497	3.329
25	M106	X	.599	.316	3.329	4.162
26	M107	X	.316	.597	0	.832
27	M107	X	.597	.746	.832	1.665
28	M107	X	.746	.629	1.665	2.497
29	M107	X	.629	.385	2.497	3.329
30	M107	X	.385	.151	3.329	4.162

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N198	N196	N174	N175	Y	Two Way	-.005
2	N202	N203	N226	N224	Y	Two Way	-.005
3	N147	N146	N168	N170	Y	Two Way	-.005

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N198	N196	N174	N175	Y	Two Way	-.01
2	N202	N203	N226	N224	Y	Two Way	-.01
3	N147	N146	N168	N170	Y	Two Way	-.01

**Member Area Loads (BLC 84 : Structure Ev)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N198	N196	N174	N175	Y	Two Way	-.00019
2	N202	N203	N226	N224	Y	Two Way	-.00019
3	N147	N146	N168	N170	Y	Two Way	-.00019

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N198	N196	N174	N175	Z	Two Way	-.000474
2	N202	N203	N226	N224	Z	Two Way	-.000474
3	N147	N146	N168	N170	Z	Two Way	-.000474



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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N198	N196	N174	N175	X	Two Way	.000474
2	N202	N203	N226	N224	X	Two Way	.000474
3	N147	N146	N168	N170	X	Two Way	.000474

**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	N144A	max	1051.963	10	2711.854	13	1758.303	1	5.136	13	1.348	4	.127	4
		min	-1057.112	4	580.035	7	-1925.64	7	.128	7	-1.362	10	-.249	10
3	N172	max	1380.438	9	2527.706	21	1176.435	1	-.153	3	1.236	12	-.093	3
		min	-1522.327	3	511.41	3	-1086.162	7	-2.566	21	-1.248	6	-4.215	21
5	N200	max	1606.258	10	2516.528	17	1016.356	1	.026	11	1.238	8	4.334	17
		min	-1456.92	4	492.235	11	-939.291	7	-2.355	29	-1.25	2	.14	11
7	Totals:	max	3977.226	10	7199.482	17	3951.094	1						
8		min	-3977.227	4	2421.815	73	-3951.093	7						

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

Member	Shape	Code Check	Loc[ft]	LC Shear	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn		
1	M100	HSS4X4X4	.322	0	13	.082	0	v	24	124657....	139518	16.181	16.181	3...	H1-1b
2	M101	HSS4X4X4	.177	2.375	14	.054	2.375	y	13	136263....	139518	16.181	16.181	1...	H1-1b
3	M102	HSS4X4X4	.188	0	24	.062	0	v	13	136263....	139518	16.181	16.181	1...	H1-1b
4	M103	PL1/2x6	.126	.516	7	.105	0	v	10	66009.2...	97200	1.012	12.15	1...	H1-1b
5	M106	L2x2x3	.109	0	2	.013	0	v	16	9823.122	23392.8	.558	1.084	1...	H2-1
6	M107	L2x2x3	.119	4.162	11	.013	4.162	y	21	9823.122	23392.8	.558	1.216	2...	H2-1
7	M111	PL3/8x6	.218	0	4	.269	0	v	18	70677.9...	72900	.57	9.113	1...	H1-1b
8	M112	PL3/8x6	.185	.167	8	.368	0	v	13	71601.7...	72900	.57	9.113	1...	H1-1b
9	M114	PL1/2x6	.058	.112	1	.061	.112	y	4	96757.5...	97200	1.012	12.15	1...	H1-1b
10	M116	PL3/8x6	.295	0	4	.234	0	v	21	70677.9...	72900	.57	9.113	1...	H1-1b
11	M117	PL3/8x6	.191	.167	6	.397	0	v	24	71601.7...	72900	.57	9.113	1...	H1-1b
12	M119	PL1/2x6	.055	.112	1	.070	.112	y	9	96757.5...	97200	1.012	12.15	1...	H1-1b
13	M124	HSS4X4X4	.309	0	21	.099	0	v	44	124657....	139518	16.181	16.181	3...	H1-1b
14	M125	HSS4X4X4	.177	2.375	22	.054	2.375	y	21	136263....	139518	16.181	16.181	1...	H1-1b
15	M126	HSS4X4X4	.184	0	20	.060	0	v	21	136263....	139518	16.181	16.181	1...	H1-1b
16	M127	PL1/2x6	.126	.516	3	.106	0	v	6	66009.2...	97200	1.012	12.15	1...	H1-1b
17	M130	L2x2x3	.108	0	10	.013	0	v	24	9823.122	23392.8	.558	1.084	1...	H2-1
18	M131	L2x2x3	.120	4.162	7	.013	4.162	y	17	9823.122	23392.8	.558	1.216	2...	H2-1
19	M135	PL3/8x6	.212	0	12	.269	0	v	13	70677.9...	72900	.57	9.113	1...	H1-1b
20	M136	PL3/8x6	.185	.167	4	.367	0	v	22	71601.7...	72900	.57	9.113	1...	H1-1b
21	M138	PL1/2x6	.059	.112	9	.061	.112	y	12	96757.5...	97200	1.012	12.15	1...	H1-1b
22	M140	PL3/8x6	.292	0	12	.235	0	v	17	70677.9...	72900	.57	9.113	1...	H1-1b
23	M141	PL3/8x6	.192	.167	2	.388	0	v	20	71601.7...	72900	.57	9.113	1...	H1-1b
24	M143	PL1/2x6	.055	.112	9	.072	.112	y	5	96757.5...	97200	1.012	12.15	1...	H1-1b
25	M148	HSS4X4X4	.308	0	17	.092	0	v	30	124657....	139518	16.181	16.181	3...	H1-1b
26	M149	HSS4X4X4	.175	2.375	18	.054	2.375	y	29	136263....	139518	16.181	16.181	1...	H1-1b
27	M150	HSS4X4X4	.184	0	16	.060	0	v	17	136263....	139518	16.181	16.181	1...	H1-1b
28	M151	PL1/2x6	.127	.516	11	.105	0	v	2	66009.2...	97200	1.012	12.15	1...	H1-1b
29	M154	L2x2x3	.109	0	6	.013	0	v	20	9823.122	23392.8	.558	1.084	1...	H2-1
30	M155	L2x2x3	.120	4.162	3	.013	4.162	y	13	9823.122	23392.8	.558	1.197	1...	H2-1
31	M159	PL3/8x6	.209	0	8	.263	0	v	22	70677.9...	72900	.57	9.113	1...	H1-1b
32	M160	PL3/8x6	.186	.167	12	.363	0	v	17	71601.7...	72900	.57	9.113	1...	H1-1b
33	M162	PL1/2x6	.059	.112	5	.059	.112	y	8	96757.5...	97200	1.012	12.15	1...	H1-1b
34	M164	PL3/8x6	.289	0	8	.234	0	v	24	70677.9...	72900	.57	9.113	1...	H1-1b
35	M165	PL3/8x6	.194	.167	10	.387	0	v	16	71601.7...	72900	.57	9.113	1...	H1-1b
36	M167	PL1/2x6	.057	.112	5	.072	.112	y	1	96757.5...	97200	1.012	12.15	1...	H1-1b
37	M172	PIPE 3.0	.112	8.333	4	.071	8.203		8	28250.5...	65205	5.749	5.749	3...	H1-1b





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

Member	Shape	Code Check	Locffl	LC Shear ...	Locffl	Dir	LC phi*Pnc ...	phi*Pnt [ ...	phi*Mn v ...	phi*Mn z ...	Cb	Ean		
38	MP1A	PIPE 2.0	.229	4.813	9	.070	2.375	7	20866.7...	32130	1.872	1.872	1...	H1-1b
39	MP3A	PIPE 2.5	.271	5.333	5	.089	2.833	8	30038.4...	50715	3.596	3.596	3...	H1-1b
40	MP2A	PIPE 2.0	.307	4.813	9	.087	2.938	11	20866.7...	32130	1.872	1.872	1...	H1-1b
41	MP4A	PIPE 2.0	.194	2.375	6	.074	2.375	7	20866.7...	32130	1.872	1.872	1...	H1-1b
42	M82	PIPE 3.0	.112	8.333	12	.074	8.203	4	28250.5...	65205	5.749	5.749	3...	H1-1b
43	M91	PIPE 3.0	.111	8.333	8	.071	8.203	21	28250.5...	65205	5.749	5.749	3...	H1-1b
44	OVP PIPE	PIPE 2.0	.079	2	11	.015	2	11	28843.4...	32130	1.872	1.872	2...	H1-1b
45	M102A	PIPE 2.5	.149	8.464	6	.084	10.547	7	14558.7...	50715	3.596	3.596	2...	H1-1b
46	M107A	PIPE 2.5	.147	8.464	2	.085	10.547	4	14558.7...	50715	3.596	3.596	2.4	H1-1b
47	M112A	PIPE 2.5	.154	8.464	10	.092	10.547	11	14558.7...	50715	3.596	3.596	2...	H1-1b
48	M123A	L3X3X4	.307	2.639	11	.026	2.639	z 11	39987.5...	46656	1.688	3.756	2...	H2-1
49	M124A	L3X3X4	.294	2.639	7	.025	1.044	z 8	39987.5...	46656	1.688	3.756	2...	H2-1
50	M125A	L3X3X4	.314	0	11	.026	.165	z 4	39987.5...	46656	1.688	3.756	2...	H2-1
51	MP1C	PIPE 2.0	.233	4.813	5	.070	2.375	3	20866.7...	32130	1.872	1.872	2...	H1-1b
52	MP3C	PIPE 2.5	.268	5.333	1	.092	2.833	4	30038.4...	50715	3.596	3.596	3.6	H1-1b
53	MP2C	PIPE 2.0	.316	4.813	5	.085	2.938	7	20866.7...	32130	1.872	1.872	1...	H1-1b
54	MP4C	PIPE 2.0	.192	2.375	2	.074	2.375	3	20866.7...	32130	1.872	1.872	1...	H1-1b
55	MP1B	PIPE 2.0	.232	4.813	1	.073	2.375	11	20866.7...	32130	1.872	1.872	1...	H1-1b
56	MP3B	PIPE 2.5	.266	5.333	9	.093	2.833	12	30038.4...	50715	3.596	3.596	3...	H1-1b
57	MP2B	PIPE 2.0	.309	4.813	1	.087	2.938	3	20866.7...	32130	1.872	1.872	1...	H1-1b
58	MP4B	PIPE 2.0	.197	2.375	10	.079	2.375	11	20866.7...	32130	1.872	1.872	1...	H1-1b

**I. Mount-to-Tower Connection Check**

Custom Orientation Required

No

Tower Connection Bolt Checks

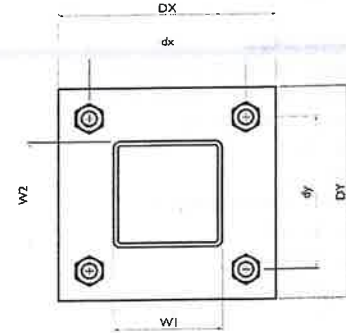
Yes

Bolt Orientation

Parallel

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

4
7.5
7.5
A325N
0.625
4.3
0.7
20.7
12.4
20.9%

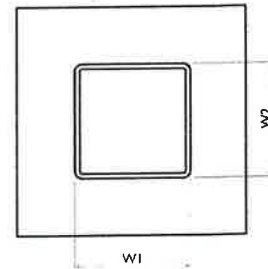


Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:  
 Weld Stiffener Configuration:  
 Plate Width,  $D_x$  (in):  
 Plate Height,  $D_y$  (in):  
 $W_1$  (in):  
 $W_2$  (in):  
 Member Thickness (in):  
 Stiffener location  $a_1$  (in):  
 Stiffener location  $b_1$  (in):  
 Stiffener location  $a_2$  (in):  
 Stiffener location  $b_2$  (in):  
 $F_y$  (ksi, plate):  
 Plate Thickness (in):  
 Length of Yield Line,  $L_y$  (in):  
 Bolt Eccentricity,  $e$  (in):  
 $M_u$  (kip-in):  
 $\Phi * M_n$  (kip-in):  
 Plate Bending Utilization:

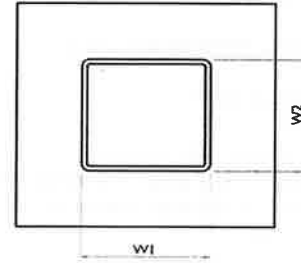
Rect Tube
No Stiffeners
10
10
4
4
0.25
36
0.625
7.85
2.71
11.73
24.84
47.2%



Tower Connection Weld Checks

Weld Shape:  
Weld Stiffener Configuration:  
Stiffener Notch Length, n (in):  
Weld Size (1/16 in):  
W1 (in):  
W2 (in):  
Weld Total Length (in):  
 $Z_x$  (in<sup>3</sup>/in):  
 $Z_y$  (in<sup>3</sup>/in):  
 $J_p$  (in<sup>4</sup>/in):  
 $c_x$  (in)  
 $c_y$  (in)  
Required combined strength (kip/in):  
Weld Capacity (kip/in):  
Weld Utilization:

Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
2.01
5.57
36.1%

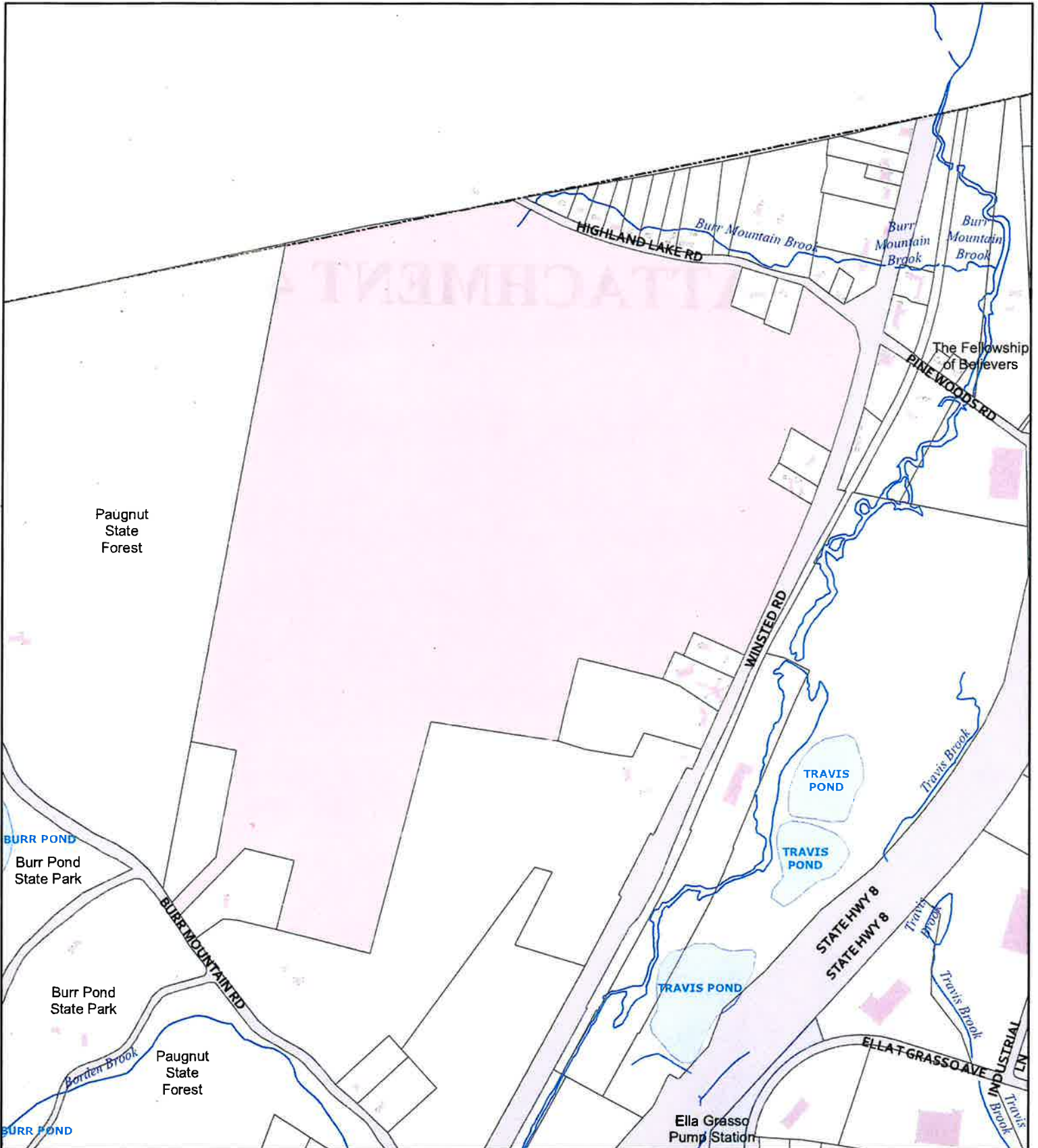


# **ATTACHMENT 4**

# City of Torrington, Connecticut - Assessment Parcel Map

Map/Block/Lot 242/001/005

Address: 242/001/005



Paugnut State Forest

BURR POND

Burr Pond State Park

Burr Pond State Park

BURR POND

Paugnut State Forest

HIGHLAND LAKE RD

Burr Mountain Brook

Burr Mountain Brook

Burr Mountain Brook

The Fellowship of Believers

PINE WOODS RD

WINSTED RD

TRAVIS POND

TRAVIS POND

TRAVIS POND

STATE HWY 8  
STATE HWY 8

ELLAT GRASSO AVE  
INDUSTRIAL LN

Ella Grasso Pump Station

Map Produced: May 2023



Approximate Scale: 1 inch = 699 feet

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The City of Torrington and its mapping contractors assume no legal responsibility for the information contained herein.

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2019.



Information on the Property Records for the Municipality of Torrington was last updated on 8/2/2023.



### Parcel Information

Location:	3345 WINSTED RD	Property Use:	Vacant Land	Primary Use:	Commercial Vacant Land
Unique ID:	8172	Map Block Lot:	242/001/005	Acres:	193.6100
490 Acres:	132.98	Zone:	I	Volume / Page:	0444/0497
Developers Map / Lot:	5417/5554	Census:	3107-0N		

### Value Information

	Appraised Value	Assessed Value
Land	4,598,238	1,019,140
Buildings	0	0
Detached Outbuildings	0	0
Total	4,598,238	1,019,140

## Owner's Information

### Owner's Data

O & G INDUSTRIES INC  
112 WALL ST  
TORRINGTON, CT 06790

## Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
O & G INDUSTRIES INC	0444	0497	09/23/1988		\$2,104,500

## Building Permits

Permit Number	Permit Type	Date Opened	Reason
22-600	Building	10/17/2023	REPLACE (6) EXISTING ANTENNA WITH (6) NEW ANTENNAS.
		07/26/2023	
		07/26/2023	
23-990	Building	04/27/2023	DISH WIRELESS COLLOCATION AT EXISTING SBA CELL SITE: INSTALL
23-902	Building	04/03/2023	INSTALLATION OF 2 NON- PENETRATING MICROWAVE SLEDS TO MEASURE INTERIOR SHELTER CONDITIONS (SIMILAR
23-788	Commercial Void	01/24/2023	REMOVE SPRINT ANTENNAS, MOUNT BRACKETS & CABLES FROM TOWER. REMOVE SPRINT EQUIPMENT CABINETS FROM C
19-530	Building	04/01/2019	REM & REPL 6 NEW ANTENNAS/RADIO UNITS
19-439	Building	03/19/2019	MODIFY AT&T FACILITY/REPL 6 ANTENNAS & RADIO UNITS
19-401 Z	Commercial	03/14/2019	CELL TOWER UPGRADE
19-337	Certificate of Completion	03/04/2019	CERT OF COMPL- GENERATOR
18-974	Electrical	06/13/2018	GENERATOR INSTALLED
17-1669	Certificate of Completion	09/06/2017	CERT OF COMPL- 3 NEWER CELL ANTENNAS & ASSOCIATED EQUIP= PP
17-1081	Certificate of Completion	06/14/2017	CERT OF COMPL- MODIFY AT&T ANTENNA & REPL RADIO HEADS
17-679	Building	05/02/2017	UPGRADES TO EXISTING CELL SITE/3 ANTENNAS & EQUIP

Permit Number	Permit Type	Date Opened	Reason
17-544 Z	Commercial	04/17/2017	UPGARDE 3 CELL ANTENNAS & EQUIP
17-323	Building	03/08/2017	MODIFY AT&T ANTENNA SITE/3 REMOTE RADIO UNITS
17-263 Z	Commercial	02/27/2017	CELL TOWER- AT & T ANTENNA MODIFICATION
14-1368	Building	07/11/2014	ADD 3 CELL ANTENNAS & ASSOC EQUIP = PP
14-711	Building	04/24/2014	CABINET/8 KW GENERATOR/MICO DISH FOR PD = PP
14-397	Building	03/06/2014	TELECOMMUNICATION SITE ALTERATION=PP
13-5987	Certificate of Completion	10/10/2013	CERT OF COMPL- 3 MEW ANTENNAD W/SUPPORT EQUIP
13-5813	Building	09/11/2013	MODIFICATIONS TO CELL SITE= PP
12-3424	Building	01/24/2013	ADD 3 NEW ANTENNAS & CABINET TO EXISTING PLATFORM
12-2303	Building	09/20/2012	REPL 6 ANTENNA
11-199	Certificate of Completion	03/17/2011	CERT OF COMPL/PANEL ANTENNAS/COAX & RELATED EQUIP
10-1852	Commercial	10/21/2010	INSTALL PANEL ANTENNAS/PP
08-2511	Commercial	12/08/2008	ADDING ANTENNAS TO EXISTING STRUCTURE AND RELATED GROUND EQUIPMENT. NO CHANGE IN FOOTPRINT.
08-1729	Commercial New	09/09/2008	DOOR CANOPY
08-1545	Commercial New	08/13/2008	DOOR CANOPY
08-533	Commercial New	04/11/2008	NEW TRUCK SCALE
05-192	Commercial New	05/25/2005	CELL ANTENNAE & PRE-FAB SHELTER
04-591	Commercial New	12/08/2004	12'X30' EQUIP SHELTER&ANT
04-541	Commercial New	11/05/2004	EQUIP BLDG & CELLULAR ANTENNAS
04-437	Commercial New	09/07/2004	NEW 195' CELL TOWER

Information Published With Permission From The Assessor



# **ATTACHMENT 5**



Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  <div style="text-align: center; font-size: 2em;">3</div>	TOTAL NO. of Pieces Received at Post Office™  <div style="text-align: center; font-size: 2em;">3</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  <div style="text-align: right;"> </div>
	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.	Elinor Carbone, Mayor City of Torrington 140 Main Street Torrington, CT 06790				
2.	Jeremy Leifert, City Planner City of Torrington 140 Main Street Torrington, CT 062790				
3.	O & G Industries, Inc. 112 Wall Street Torrington, CT 06790				
4.					
5.					
6.					

