

August 29, 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
1434 (f/k/a 1428) Monroe Turnpike, Monroe, 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. The tower was approved by the Siting Council (“Council”) in October of 2002 (Docket No. 210). Cellco’s facility was approved by the Council in June of 2005 (EM-VER-085-085A-050513). A copy of the Council’s exempt modification approval is included in Attachment 1.

Cellco’s proposed modification involves the installation of four (4) 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 Monroe’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.

Melanie A. Bachman, Esq.

August 29, 2023

Page 2

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:

Kenneth M. Kellogg, First Selectman

Rick Schultz, AICP, Town Planner

Jeanette Cardentry, Property Owner

Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 210 - James E. Dwyer Co., Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility at 1428 Monroe Turnpike, Monroe, Connecticut.

} Connecticut
} Siting
} Council

October 23, 2002

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 at the proposed site in Monroe, Connecticut, 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 James E. Dwyer Co., Inc., now known as Connecticut Architectural Towers, LLC (CAT)*, for the construction, maintenance and operation of a cellular telecommunications facility at the revised proposed site located at 1428 Monroe Turnpike, Monroe, Connecticut.

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

1. The tower shall be constructed as a monopole facility, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T and other entities, both public and private, but such tower shall not exceed a height of 160 feet above ground level (AGL). Appurtenances extending from the top of the tower should not exceed 15 feet in height.
2. The Certificate Holder shall prepare a 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 final site plan(s) for site development to include the location and specifications for the tower foundation, placement of carrier antennas, tower height, equipment buildings, security fence, access road, and utility line; construction plans for site clearing, tree trimming, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; landscaping and provisions to protect the existing vegetative buffer that would extend around the facility compound; a tower finish that may include painting; and provisions for the prevention and containment of spills and/or other discharge into surface water and groundwater bodies. The Certificate Holder must

have a commitment from at least one carrier prior to commencement of construction of the facility.

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 provide a recalculated report of electromagnetic radio frequency power density 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.
4. 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.
5. If the facility does not initially provide, or permanently ceases to provide wireless services following completion of construction, 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.
6. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antenna becomes obsolete and ceases to function.
7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed and the site in operation as a telecommunications facility 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 Hartford Courant and The Advocate.

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:

Connecticut Architectural Towers, LLC (CAT)/
James E. Dwyer Co., Inc. (Dwyer)

Dennis Morrissey, P.E.
Attorney at Law

AT&T Wireless Corporation, Inc.

Town of Monroe

106 Sherman Street
Fairfield, CT 06430

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby
90 Maple Avenue
White Plains, NY 10601

John Radshaw, III
Howd & Ludorf
65 Wethersfield Avenue
Hartford, CT 06114



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

June 9, 2005

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

RE: **EM-VER-085-085A-050513** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify existing telecommunications facilities located at 500 Moose Hill Road, Monroe and 1428 Monroe Turnpike, Monroe, Connecticut.

Dear Attorney Baldwin:

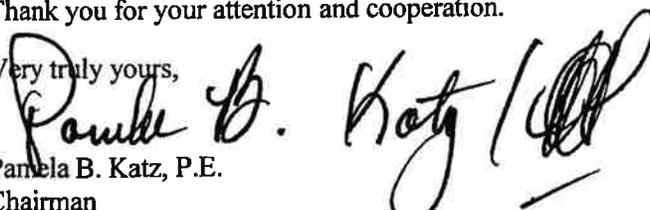
At a public meeting held on June 8, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated May 13, 2005, including the placement of all necessary equipment and shelters within the tower compounds. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

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

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/jkl

- c: The Honorable Andrew J. Nunn, First Selectman, Town of Monroe
- Daniel A. Tuba, Planning Administrator, Town of Monroe
- Optasite, Inc.
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Christine Farrell, T-Mobile Inc.
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
- Thomas F. Flynn, III, Nextel Communications Inc.

ATTACHMENT 2

BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

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



FEATURES

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

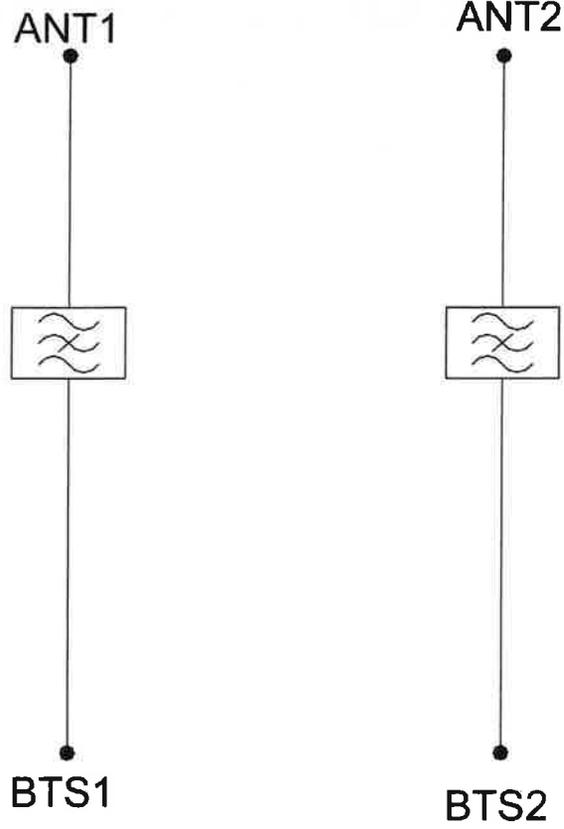
TECHNICAL SPECIFICATIONS

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

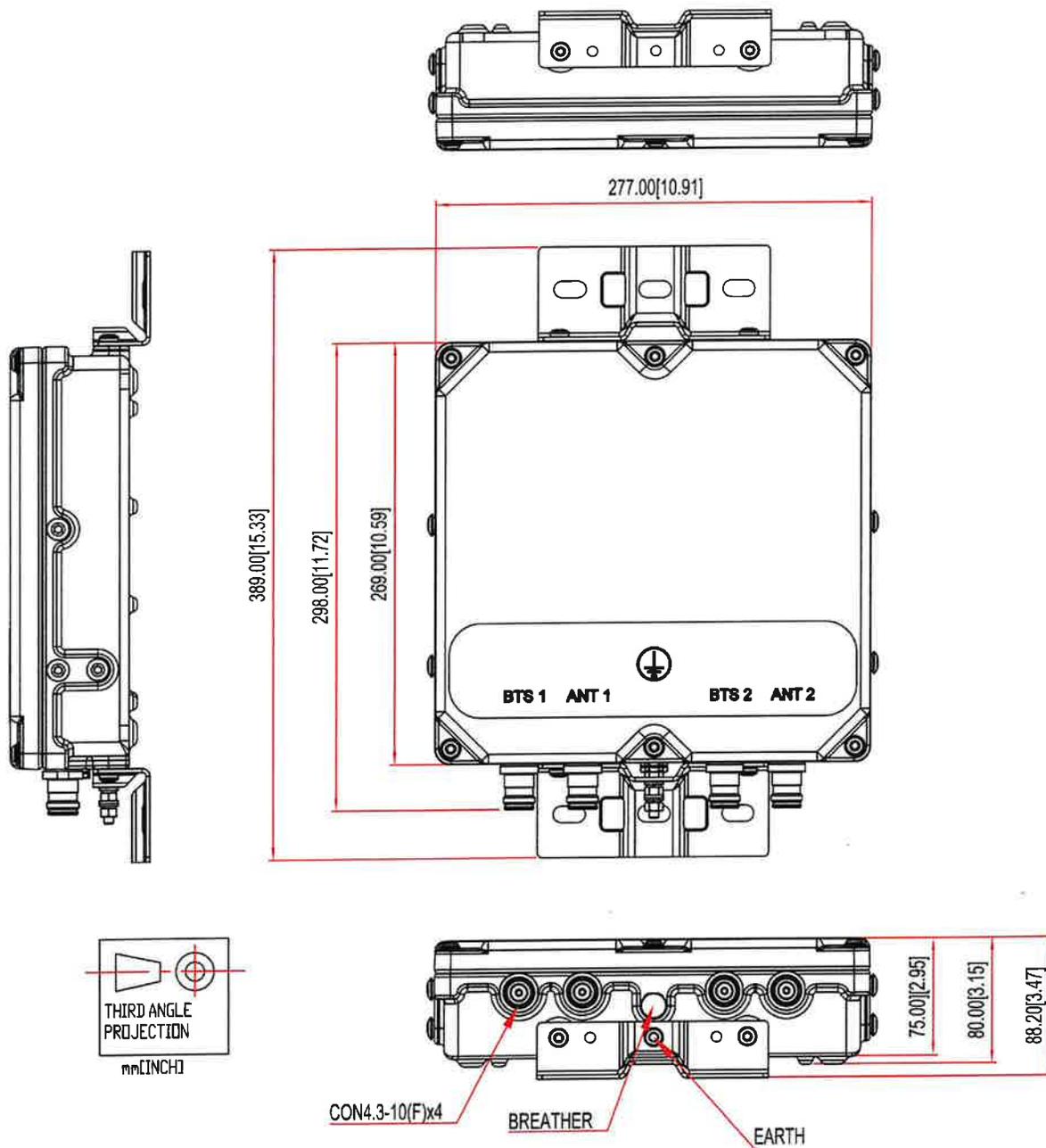
ORDERING INFORMATION

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

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



ATTACHMENT 3



SBA Communications Corporation
 8051 Congress Avenue
 Boca Raton, FL 33487-1307

T + 561 995 7670
 F + 561 995 7626

sbsite.com

Structural Analysis Report

Client: Verizon

Client Site ID / Name: 5000383136 / MONROE NORTHEAST CT
 Application #: 232535, v2

SBA Site ID / Name: CT13055-A / Monroe Turnpike

160 ft Monopole

1428 Monroe Turnpike
 Monroe, Connecticut 06468
 Lat: 41.376464, Long: -73.186542

Project number: CT13055-VZW-072823

Analysis Results

Tower	99.2%	Pass
Foundation	90.0%	Pass

Change in tower stress due to mount modification / replacement	N/A
--	-----

Prepared by:

Aaron Corona
 Structural Engineer I
 561-322-7797
 ACorona@sbsite.com

Reviewed by:

Anantha (Shan) Shanubhogue, P.E.
 Senior Manager, Structural Engineering
 561-981-7390
 SShanubhogue@sbsite.com

August 1, 2023



AS/02/23



SBA Communications Corporation
8051 Congress Avenue
Boca Raton, FL 33487-1307

T + 561 995 7670
F + 561 995 7626

sbsite.com

Structural Analysis Report

Client: Verizon

Client Site ID / Name: 5000383136 / MONROE NORTHEAST CT
Application #: 232535, v2

SBA Site ID / Name: CT13055-A / Monroe Turnpike

160 ft Monopole

1428 Monroe Turnpike
Monroe, Connecticut 06468
Lat: 41.376464, Long: -73.186542

Project number: CT13055-VZW-072823

Analysis Results

Tower	99.2%	Pass
Foundation	90.0%	Pass

Change in tower stress due to mount modification / replacement	N/A
--	-----

Prepared by:

Aaron Corona
Structural Engineer I
561-322-7797
ACorona@sbsite.com

Reviewed by:

Anantha (Shan) Shanubhogue, P.E.
Senior Manager, Structural Engineering
561-981-7390
SShanubhogue@sbsite.com

August 1, 2023

Table of Contents

Introduction..... 3

Analysis Criteria 3

Appurtenance Loading 4

 Existing Loading: 4

 Proposed Loading: 5

Analysis Results 6

 Tower 6

 Foundation 6

Conclusions 7

Installation Requirements 7

Assumptions and Limitations 8

 Assumptions 8

 Limitations 8

Appendix 9

 Tower Geometry.....

 Coax Layout.....

 TESPole Report.....

 Foundation Analysis Report.....



Introduction

The purpose of this report is to summarize the analysis results on the 160 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document
Tower design/drawings	Sabre, Job # 04-05018, dated 5/23/2003
Foundation drawings	Sabre, Job # 04-05018, dated 5/23/2003
Geotechnical report	Dr. Clarence Welti, P.E., P.C., dated 4/25/2003
Mount Analysis	Colliers Engineering & Design, Project # 23777151, dated 7/20/2023
Modification drawings	N/A
Latest SA	TES, Project # 106415, dated 4/27/2021

Analysis Criteria

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut/Fairfield/Monroe
Governing Codes	ANSI/TIA/EIA 222-H, 2021 IBC, 2022 Connecticut State Building Code
Ultimate Wind Speed (3-Sec gust)	120.0 mph
Wind Speed with Ice (3-Sec gust)	50 mph
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	1.00"
Risk Category	II
Exposure Category	C
Topographic Category	1
Crest Height	0 ft
Ground Elevation	589.17 ft.
Seismic Parameter S_s	0.204
Seismic Parameter 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.

Appurtenance Loading

Existing Loading:

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	162.0	3	Powerwave 7770 - Panel	Platform w/ Handrails [SitePro1 RMQP-496-HK] @ 160'	(12) 1 5/8" (2) 1/2" Fiber (4) 3/4" DC Power	AT&T
2		3	Powerwave P65-16-XLHH-RR - Panel			
3		3	Quintel QS66512-2 - Panel			
4		6	Powerwave Technologies LGP21401			
5		3	Kaelus DBC0061F1V51-2			
6		3	Ericsson RRUS 11-700			
7		3	Ericsson RRUS 32 B30			
8		3	Ericsson RRUS 32 B2			
9		2	Raycap DC6-48-60-18-8F			
10			1		Decibel DB404-B - Omni Whip	
11	151.0	3	RFS APXVSP18-C-A20 - Panel	Low Profile Platform w/ Handrail Kit [SitePro1 HRK-12] @ 149'	(4) 1-1/4" Hybrid	T-Mobile Sprint
12		3	RFS APXVTM14-C-I20 - Panel			
13		4	RFS ACU-A20-N			
14		3	Alcatel Lucent 1900 MHz RRH			
15		3	Alcatel Lucent 800 MHz RRH			
16		3	Alcatel Lucent TD-RRH8x20-25			
17		3	Alcatel Lucent 800 MHz Filters			
18	140.0	3	EMS FR90-16-XXDP - Panel - Panel	Low Profile Platform w/ Handrails [SitePro1 VSR-MS-B]	(20) 1 1/4" (3) 1 5/8" Fiber	T-Mobile
19		3	RFS APX16DWV-16DWVS-E-A20 - Panel			
20		3	RFS APXVAA24_43-U-A20 - Panel			
21		3	RFS ATMA4P4DBP-1A20 - TMA			
22		3	Andrew ATSBT-TOP-FM - Bias T			
23		3	AIR6449 B41 - Panel			
24		3	4449 B71 + B85			
25		3	4424 B25			
26		3	4415 B66A			
27	131.0	3	Samsung VZS01 - Panel	Low Profile Platform w/ Handrails	(12) 1 5/8" (1) 1 5/8" Hybrid (1) 1/2"	Verizon
28		2	Andrew JAHH-45B-R3B - Panel			
29		4	Andrew JAHH-65B-R3B - Panel			
30		3	Commscope CBC78T-DS-43-2X			
31		3	Samsung B5/B13 RRH-BR04C			
32		3	Samsung B2/B66A RRH-BR049			
33		6	Antel LPA-80063/6CF_5 - Panel			
34	130.0	1	RFS DB-C1-12C-24AB-OZ			
35	115.55	1	Sinclair SCL329-HL - Omni	(1) 4 ft. Standoff @ 110'	(1) 7/8"	Town
36	85.55	1	Sinclair SCL329-HL - Omni	(1) 4 ft Standoff @ 80'	(1) 7/8"	
37	50.0	1	Decibel 26DB - GPS	(1) 4 ft Standoff @ 47'	(1) 1/2"	T-Mobile Sprint

Note: AT&T loading includes FirstNET equipment

Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 232535, v2 from Verizon and is listed in Table 4.

Table 4 Proposed Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	131.0	6	Antel LPA-80063/6CF_5 - Panel	Low Profile Platform w/ Handrails	(1) 1 5/8" Hybrid (12) 1 5/8" (1) 1/2"	Verizon
2		3	Samsung VZS01 - Panel			
3		2	Andrew JAHH-45B-R3B - Panel			
4		4	Andrew JAHH-65B-R3B - Panel			
5		3	Commscope CBC78T-DS-43-2X			
6		3	Samsung B2/B66A RRH-BR049			
7		3	Samsung B5/B13 RRH-BR04C			
8		4	Kaelus BSF0020F3V1-1			
9	130.0	1	RFS DB-C1-12C-24AB-OZ			



Analysis Results

Tower

The results of the structural analysis are shown below in table 5. Additional information for the tower analysis is provided within the Appendix.

Table 5 Tower Analysis Summary

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	90.2%	99.2%	44.5%
Pass/Fail	Pass	Pass	Pass

Foundation

The results of the foundation analysis are shown below in table 6. Additional information for the foundation analysis is provided within the Appendix.

Table 6 Foundation Analysis Summary

Structural Component	Max Usage (%)	Analysis Result
Foundation	90.0%	Pass

Conclusions

Based on the analysis results, the existing tower and foundation were found to be ***sufficient*** to safely support the equipment listed in this analysis. No modification to the tower and foundation is needed at this time.

Installation Requirements

This analysis was performed under the assumption that the carrier will place the proposed equipment and feed lines at the installation height listed in Table 4 and in accordance with the coax layout shown. TMAs and RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met the carrier must notify SBA Communications Corporation engineers for approval of an alternative placement.

Assumptions and Limitations

Assumptions

This analysis was completed based on the following assumptions:

- Tower and foundation were built in accordance to manufacturer specifications.
- Tower and foundation has been properly maintained in accordance with the manufacturer's specifications
- All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion
- Welds and bolts are assumed able to carry their intended original design loads.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.
- This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

Limitations

The computer generated analysis performed by the tower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.

Appendix

Usage Diagram - Max Ratio 90.22% at 0.0ft

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)

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

8/1/2023



Page: 1

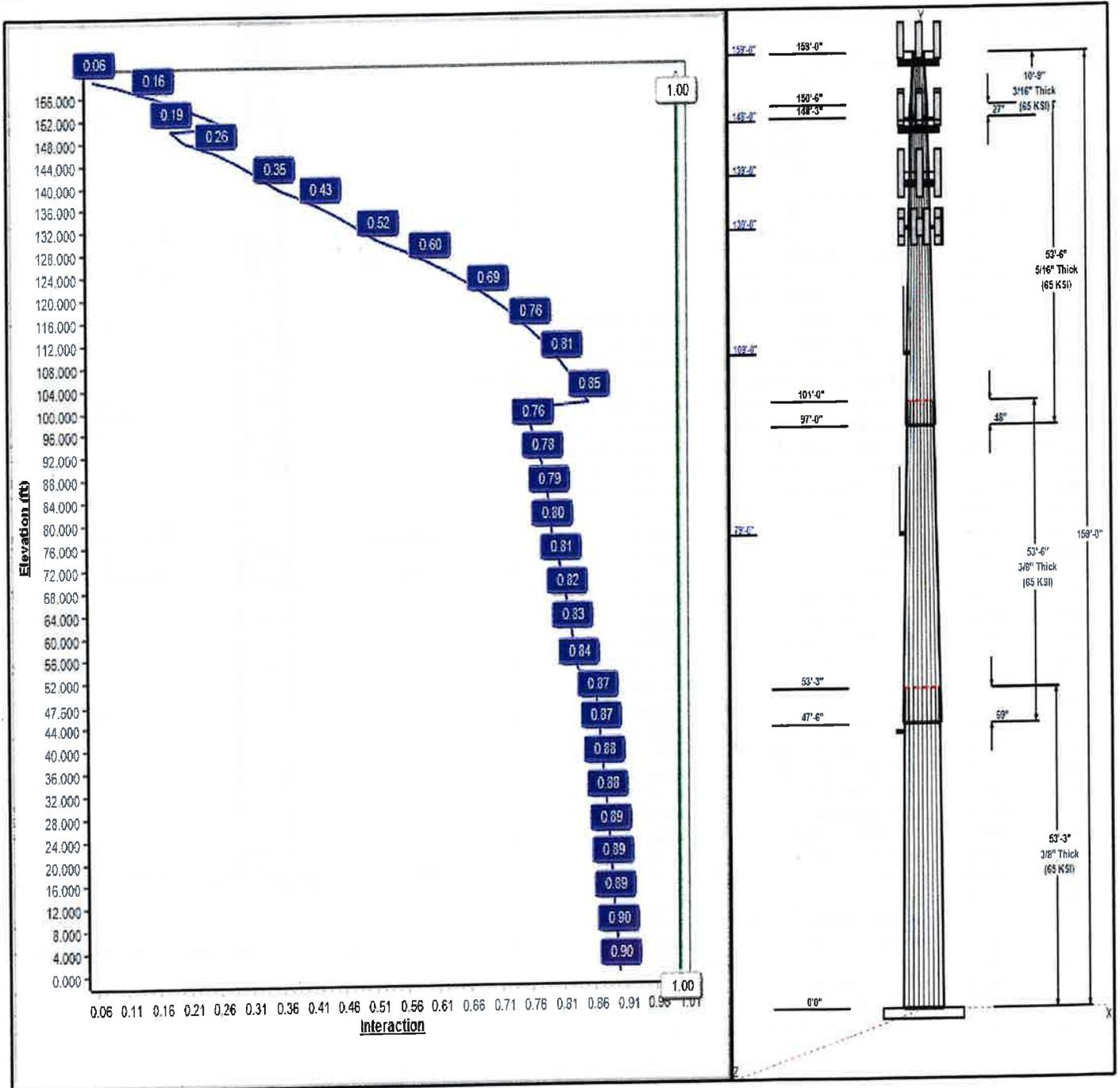
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 120 mph Wind



Iterations: 30

Copyright © 2023 by Tower Engineering Solutions, LLC. All rights reserved.



Structure: CT13055-A

Type: Tapered
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.00 (ft)

Base Shape: 18 Sided
Taper: 0.28270

8/1/2023

Page: 2

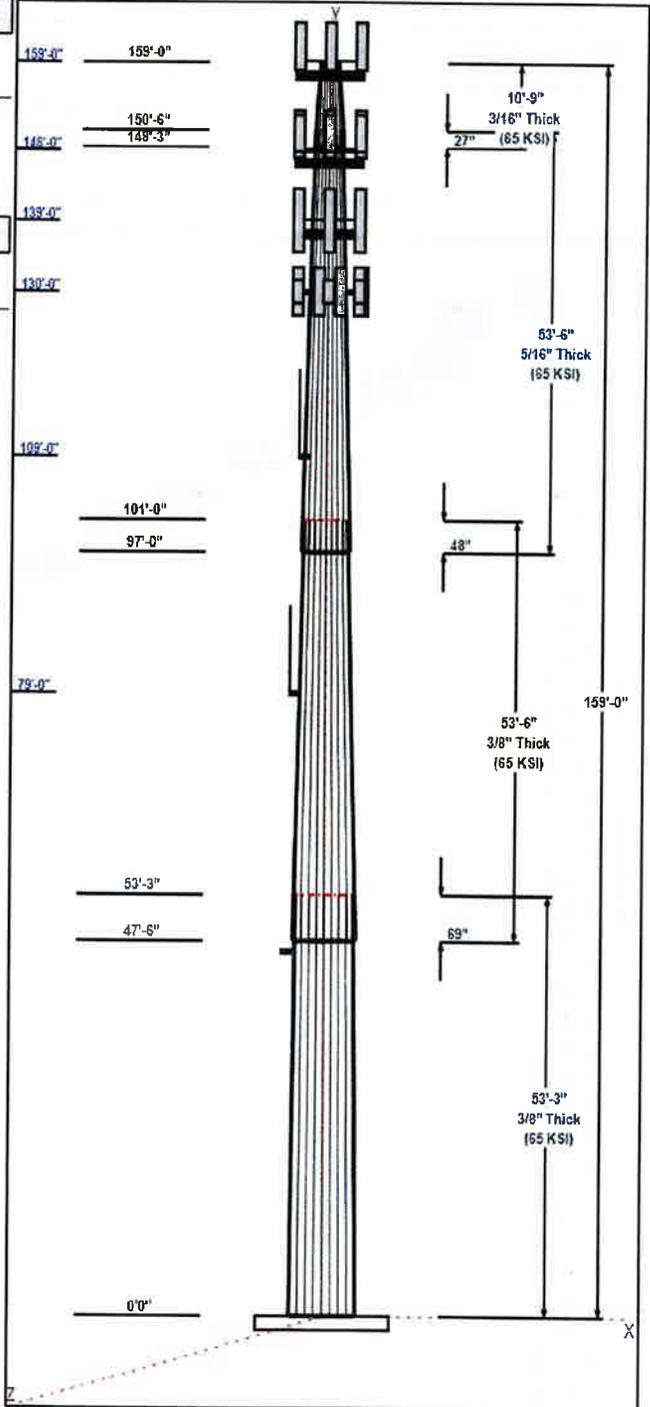


Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.25	43.15	58.20	0.375		0.28270	65
2	53.50	30.40	45.52	0.375	Slip	0.28270	65
3	53.50	17.03	32.15	0.313	Slip	0.28270	65
4	10.75	15.00	18.04	0.188	Slip	0.28270	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
159.00	161.00	3	Powerwave 7770	AT&T
159.00	161.00	6	Powerwave Technologies	AT&T
159.00	161.00	2	Raycap DC6-48-60-18-8F	AT&T
159.00	161.00	1	Site Pro 1 - RMQP-496-HK	AT&T
159.00	161.00	1	Decibel DB404-B - Omni	Town
159.00	161.00	3	Powerwave	AT&T
159.00	161.00	3	Ericsson RRUS 11-700	AT&T
159.00	161.00	3	Quintel QS66512-2	AT&T
159.00	161.00	3	Kaelus DBC0061F1V51-2	AT&T
159.00	161.00	3	Ericsson RRUS 32 B30	AT&T
159.00	161.00	3	Ericsson RRUS 32 B2	AT&T
148.00	148.00	1	SitePro HRK-12 Handrail	T-Mobile Sprint
148.00	150.00	3	Alcatel Lucent -	T-Mobile Sprint
148.00	150.00	3	RFS - APXVTM14-C-I20 -	T-Mobile Sprint
148.00	150.00	3	RFS - APXVSP18-C-A20	T-Mobile Sprint
148.00	150.00	3	Alcatel Lucent - 1900 MHz	T-Mobile Sprint
148.00	150.00	3	Alcatel Lucent - 800 MHz	T-Mobile Sprint
148.00	150.00	3	Alcatel Lucent - 800 MHz	T-Mobile Sprint
148.00	150.00	4	RFS - ACU-A20-N - RET	T-Mobile Sprint
148.00	148.00	1	Low Profile Platform	T-Mobile Sprint
139.00	139.00	3	EMS - FR90-16-XXDP -	T-Mobile
139.00	139.00	3	RFS -	T-Mobile
139.00	139.00	3	RFS -	T-Mobile
139.00	139.00	3	RFS -	T-Mobile
139.00	139.00	3	Andrew - ATSBT-TOP-FM	T-Mobile
139.00	139.00	3	AIR6449 B41	T-Mobile
139.00	139.00	3	4449 B71 + B85	T-Mobile
139.00	139.00	3	4424 B25	T-Mobile
139.00	139.00	3	4415 B66A	T-Mobile
139.00	139.00	1	LP Platform w/ Handrails	T-Mobile
130.00	130.00	3	Samsung VZS01	Verizon
130.00	130.00	2	Andrew JAHH-45B-R3B	Verizon
130.00	130.00	4	Andrew JAHH-65B-R3B	Verizon
130.00	130.00	3	Commscope	Verizon
130.00	130.00	3	Samsung B5/B13	Verizon
130.00	130.00	3	Samsung B2/B66A	Verizon
130.00	130.00	6	Antel LPA-80063/6CF_5	Verizon
130.00	129.00	1	RFS DB-C1-12C-24AB-0Z	Verizon
130.00	130.00	1	Low Profile Platform	Verizon
130.00	130.00	4	Kaelus BSF0020F3V1-1	Verizon
130.00	130.00	15	Mount pipes	Verizon
109.00	114.55	1	Sinclair SCL329-HL - Omni	Town
109.00	109.00	1	4 ft. Standoff	Town
79.00	79.00	1	4 ft Standoff	Town
79.00	84.55	1	Sinclair SCL329-HL - Omni	Town



Structure: CT13055-A

Type: Tapered
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.00 (ft)

Base Shape: 18 Sided
Taper: 0.28270

8/1/2023

Page: 3



46.00	49.00	1	Decibel 26DB - GPS	T-Mobile Sprint
46.00	46.00	1	4 ft Standoff	T-Mobile Sprint

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	159.00	Inside	1 5/8"	AT&T
0.00	159.00	Inside	1/2" Fiber	AT&T
0.00	159.00	Outside	1/2" Fiber	Town
0.00	159.00	Inside	3/4" DC Power	AT&T
0.00	159.00	Outside	Safety Cable	
0.00	159.00	Outside	Step bolts (ladder)	
0.00	150.00	Inside	1-1/4" Hybrid	Sprint Nextel
0.00	139.00	Inside	1 1/4"	T-Mobile
0.00	139.00	Inside	1 5/8" Coax	T-Mobile
0.00	130.00	Inside	1 5/8" Coax	Verizon
0.00	130.00	Inside	1 5/8" Hybrid	Verizon
0.00	130.00	Inside	1/2" Coax	Verizon
0.00	109.00	Outside	7/8"	Town
0.00	79.00	Outside	7/8"	Town
0.00	49.00	Outside	1/2"	Sprint Nextel

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
14	2.25" 18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.2500	71.0	60.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 120 mph Wind	4650.9	38.4	52.5
0.9D + 1.0W 120 mph Wind	4576.9	38.3	39.4
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1193.3	9.9	71.3
1.2D + 1.0Ev + 1.0Eh	101.7	0.7	54.5
0.9D + 1.0Ev + 1.0Eh	100.2	0.7	41.3
1.0D + 1.0W 60 mph Wind	1032.9	8.6	43.8

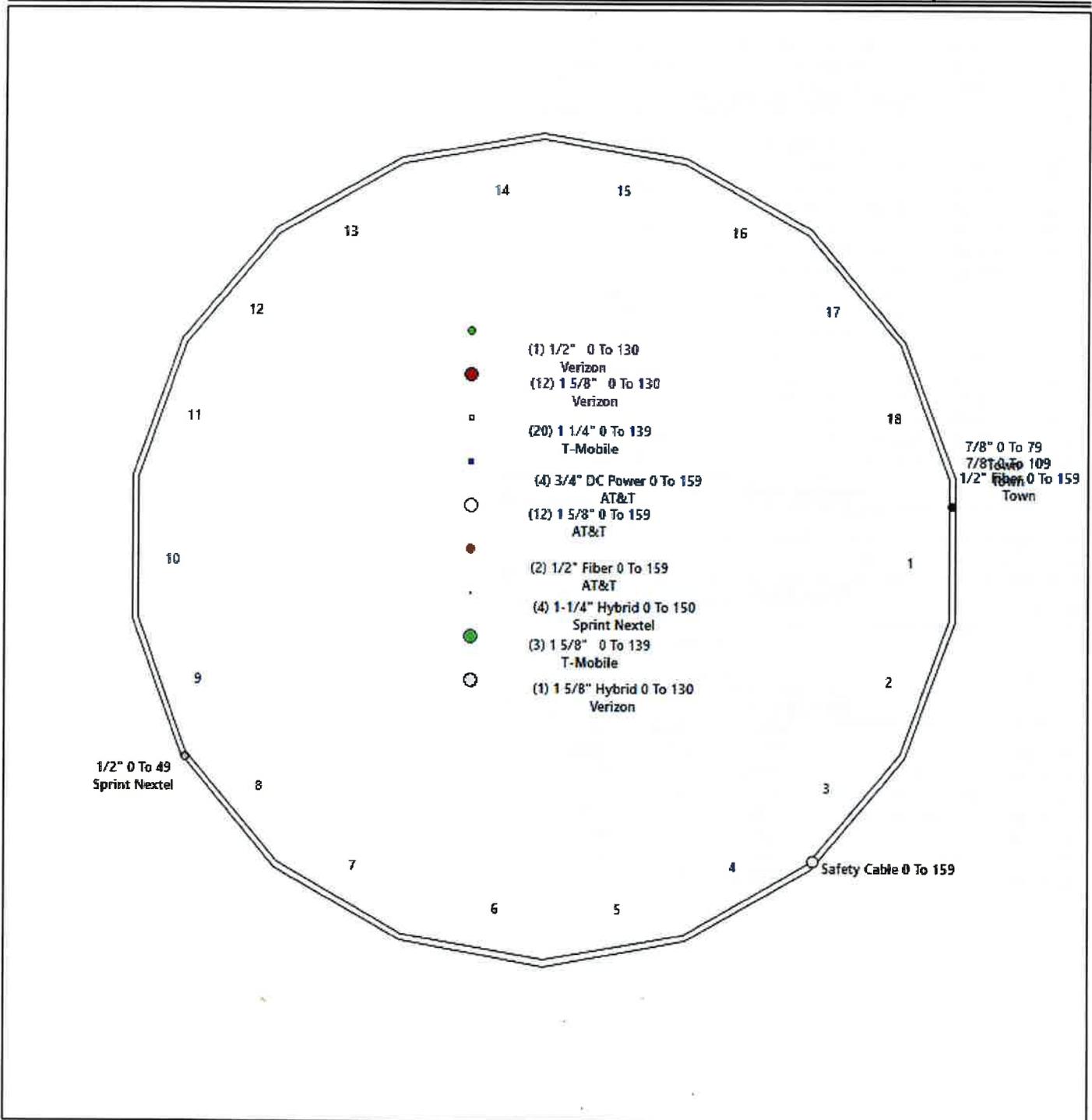
Structure: CT13055-A - Coax Line Placement

Type: Monopole
 Site Name: Monroe Turnpike
 Height: 159.00 (ft)

8/1/2023



Page: 4



Shaft Properties

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 5



Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.250	0.3750	65		0.00	10,847
2	18	53.500	0.3750	65	Slip	69.00	8,144
3	18	53.500	0.3125	65	Slip	48.00	4,384
4	18	10.750	0.1875	65	Slip	27.00	356
Total Shaft Weight:							23,730

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	58.20	0.00	68.82	29075.19	25.96	155.20	43.15	53.25	50.91	11765.8	18.88	115.0	0.282704
2	45.52	47.50	53.73	13837.23	19.99	121.39	30.40	101.00	35.73	4069.01	12.88	81.06	0.282704
3	32.15	97.00	31.58	4045.02	16.73	102.89	17.03	150.50	16.58	585.26	8.20	54.49	0.282704
4	18.04	148.2	10.62	427.74	15.55	96.21	15.00	159.00	8.81	244.36	12.70	80.00	0.282704

Load Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 6

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	159.00	Powerwave 7770	3	35.00	5.79	0.73	112.58	6.777	0.73	0.00	2.00
2	159.00	Powerwave Technologies LGP21401	6	14.10	1.29	0.50	30.88	1.851	0.50	0.00	2.00
3	159.00	Raycap DC6-48-60-18-8F	2	32.80	0.92	1.00	75.59	1.214	1.00	0.00	2.00
4	159.00	Site Pro 1 - RMQP-496-HK	1	2645.00	48.00	1.00	4503.39	71.832	1.00	0.00	2.00
5	159.00	Decibel DB404-B - Omni	1	14.00	1.50	1.00	45.94	2.233	1.00	0.00	2.00
6	159.00	Powerwave P65-16-XLHH-RR	3	53.00	8.16	0.75	163.75	10.040	0.75	0.00	2.00
7	159.00	Ericsson RRUS 11-700	3	51.00	2.52	0.67	99.49	2.945	0.67	0.00	2.00
8	159.00	Quintel QS66512-2	3	111.00	8.13	0.92	254.84	8.982	0.92	0.00	2.00
9	159.00	Kaelus DBC0061F1V51-2	3	18.30	0.43	0.50	25.33	0.621	0.50	0.00	2.00
10	159.00	Ericsson RRUS 32 B30	3	60.00	2.74	0.67	114.51	3.217	0.67	0.00	2.00
11	159.00	Ericsson RRUS 32 B2	3	53.00	2.74	0.67	107.51	3.217	0.67	0.00	2.00
12	148.00	SitePro HRK-12 Handrail Kit	1	261.72	6.75	1.00	468.64	11.145	1.00	0.00	0.00
13	148.00	Alcatel Lucent - TD-RRH8x20-25 -	3	70.00	4.05	0.67	135.11	4.992	0.67	0.00	2.00
14	148.00	RFS - APXVTM14-C-I20 - Panel	3	56.00	6.34	0.79	140.41	7.080	0.79	0.00	2.00
15	148.00	RFS - APXVSP18-C-A20 - Panel	3	106.00	8.42	0.83	284.16	9.665	0.83	0.00	2.00
16	148.00	Alcatel Lucent - 1900 MHz RRH	3	44.00	3.80	0.67	116.73	4.726	0.67	0.00	2.00
17	148.00	Alcatel Lucent - 800 MHz RRH	3	53.00	2.49	0.67	102.27	3.252	0.67	0.00	2.00
18	148.00	Alcatel Lucent - 800 MHz Filters	3	8.80	0.78	0.50	20.55	1.211	0.50	0.00	2.00
19	148.00	RFS - ACU-A20-N - RET	4	1.00	0.14	0.50	3.86	0.338	0.50	0.00	2.00
20	148.00	Low Profile Platform	1	1200.00	35.00	1.00	1897.62	54.533	1.00	0.00	0.00
21	139.00	EMS - FR90-16-XXDP - Panel	3	18.00	4.36	0.68	76.93	4.989	0.68	0.00	0.00
22	139.00	RFS - APX16DWV-16DWVS-E-A20 -	3	40.70	6.61	0.62	118.20	8.052	0.62	0.00	0.00
23	139.00	RFS - APXVAA24_43-U-A20 - Panel	3	101.40	20.24	0.73	372.98	21.507	0.73	0.00	0.00
24	139.00	RFS - ATMA4P4DBP-1A20 - TMA	3	15.85	1.17	0.50	37.31	1.688	0.50	0.00	0.00
25	139.00	Andrew - ATSBT-TOP-FM - Bias T	3	1.80	0.20	0.50	5.67	0.430	0.50	0.00	0.00
26	139.00	AIR6449 B41	3	103.00	5.65	0.71	193.78	6.279	0.71	0.00	0.00
27	139.00	4449 B71 + B85	3	73.20	1.97	0.67	111.43	2.347	0.67	0.00	0.00
28	139.00	4424 B25	3	79.00	2.22	0.67	118.80	2.630	0.67	0.00	0.00
29	139.00	4415 B66A	3	44.10	1.86	0.50	75.51	2.239	0.50	0.00	0.00
30	139.00	LP Platform w/ Handrails	1	1600.00	34.00	1.00	2990.27	53.643	1.00	0.00	0.00
31	130.00	Samsung VZS01	3	87.10	4.70	0.70	160.88	5.293	0.71	0.00	0.00
32	130.00	Andrew JAHH-45B-R3B	2	91.00	11.40	0.73	261.93	12.326	0.74	0.00	0.00
33	130.00	Andrew JAHH-65B-R3B	4	63.30	9.11	0.83	206.78	9.967	0.84	0.00	0.00
34	130.00	Commscope CBC78T-DS-43-2X	3	20.00	0.56	0.96	31.76	0.767	0.96	0.00	0.00
35	130.00	Samsung B5/B13 RRH-BR04C	3	84.40	1.88	0.67	117.76	2.238	0.67	0.00	0.00
36	130.00	Samsung B2/B66A RRH-BR049	3	70.30	1.88	0.67	101.93	2.238	0.67	0.00	0.00
37	130.00	Antel LPA-80063/6CF_5	6	27.00	9.59	0.95	200.29	10.462	0.95	0.00	0.00
38	130.00	RFS DB-C1-12C-24AB-0Z	1	32.00	4.06	1.00	107.02	4.597	1.00	0.00	-1.00
39	130.00	Low Profile Platform	1	1200.00	24.80	1.00	2191.72	39.033	1.00	0.00	0.00
40	130.00	Kaelus BSF0020F3V1-1	4	17.60	0.96	0.65	32.90	1.221	0.68	0.00	0.00
41	130.00	Mount pipes	15	30.00	0.97	1.00	54.79	1.527	1.00	0.00	0.00
42	109.00	Sinclair SCL329-HL - Omni	1	10.40	2.22	1.00	49.16	4.780	1.00	0.00	5.55
43	109.00	4 ft. Standoff	1	53.32	3.50	1.00	122.53	8.666	1.00	0.00	0.00
44	79.00	4 ft Standoff	1	53.32	3.50	1.00	120.36	8.504	1.00	0.00	0.00
45	79.00	Sinclair SCL329-HL - Omni	1	10.40	2.22	1.00	47.94	4.700	1.00	0.00	5.55
46	46.00	Decibel 26DB - GPS	1	10.00	0.16	1.00	13.29	0.388	1.00	0.00	3.00
47	46.00	4 ft Standoff	1	53.32	3.50	1.00	116.89	8.245	1.00	0.00	0.00
Totals:			134	12,789.13			26,133.43				

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		

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	159.00	(12) 1 5/8"	0.00	Inside
0.00	159.00	(2) 1/2" Fiber	0.00	Inside
0.00	159.00	(1) 1/2" Fiber	0.00	Outside
0.00	159.00	(4) 3/4" DC Power	0.00	Inside
0.00	159.00	(1) Safety Cable	0.38	Outside
0.00	159.00	(1) Step bolts (ladder)	0.63	Outside
0.00	150.00	(4) 1-1/4" Hybrid	0.00	Inside
0.00	139.00	(20) 1 1/4"	0.00	Inside
0.00	139.00	(3) 1 5/8" Coax	0.00	Inside
0.00	130.00	(12) 1 5/8" Coax	0.00	Inside
0.00	130.00	(1) 1 5/8" Hybrid	0.00	Inside
0.00	130.00	(1) 1/2" Coax	0.00	Inside
0.00	109.00	(1) 7/8"	1.11	Outside
0.00	79.00	(1) 7/8"	0.00	Outside
0.00	49.00	(1) 1/2"	0.65	Outside

Shaft Section Properties

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.3750	58.200	68.824	29075.2	25.96	155.20	70.9	984.0	0.0
2.00		0.3750	57.635	68.151	28230.6	25.69	153.69	71.2	964.8	466.1
4.00		0.3750	57.069	67.478	27402.6	25.42	152.18	71.5	945.7	461.5
6.00		0.3750	56.504	66.805	26590.9	25.16	150.68	71.8	926.9	456.9
8.00		0.3750	55.938	66.132	25795.3	24.89	149.17	72.1	908.3	452.4
10.00		0.3750	55.373	65.459	25015.9	24.63	147.66	72.4	889.8	447.8
12.00		0.3750	54.808	64.786	24252.2	24.36	146.15	72.7	871.6	443.2
14.00		0.3750	54.242	64.113	23504.3	24.09	144.65	73.1	853.5	438.6
16.00		0.3750	53.677	63.440	22771.9	23.83	143.14	73.4	835.6	434.0
18.00		0.3750	53.111	62.767	22054.9	23.56	141.63	73.7	817.9	429.5
20.00		0.3750	52.546	62.094	21353.1	23.30	140.12	74.0	800.4	424.9
22.00		0.3750	51.981	61.421	20666.3	23.03	138.61	74.3	783.1	420.3
24.00		0.3750	51.415	60.748	19994.5	22.77	137.11	74.6	766.0	415.7
26.00		0.3750	50.850	60.075	19337.3	22.50	135.60	74.9	749.0	411.1
28.00		0.3750	50.284	59.402	18694.7	22.23	134.09	75.3	732.3	406.6
30.00		0.3750	49.719	58.729	18066.5	21.97	132.58	75.6	715.7	402.0
32.00		0.3750	49.153	58.056	17452.6	21.70	131.08	75.9	699.3	397.4
34.00		0.3750	48.588	57.384	16852.7	21.44	129.57	76.2	683.2	392.8
36.00		0.3750	48.023	56.711	16266.7	21.17	128.06	76.5	667.2	388.2
38.00		0.3750	47.457	56.038	15694.5	20.90	126.55	76.8	651.4	383.7
40.00		0.3750	46.892	55.365	15135.8	20.64	125.04	77.1	635.8	379.1
42.00		0.3750	46.326	54.692	14590.6	20.37	123.54	77.4	620.3	374.5
44.00		0.3750	45.761	54.019	14058.6	20.11	122.03	77.8	605.1	369.9
46.00		0.3750	45.196	53.346	13539.7	19.84	120.52	78.1	590.1	365.3
47.50	Bot - Section 2	0.3750	44.772	52.841	13159.0	19.64	119.39	78.3	578.9	271.0
48.00		0.3750	44.630	52.673	13033.7	19.57	119.01	78.4	575.2	181.0
50.00		0.3750	44.065	52.000	12540.5	19.31	117.51	78.7	560.5	718.4
52.00		0.3750	43.499	51.327	12059.9	19.04	116.00	79.0	546.1	709.3
53.25	Top - Section 1	0.3750	43.896	51.799	12395.7	19.23	117.06	0.0	0.0	438.6
54.00		0.3750	43.684	51.547	12215.4	19.13	116.49	78.9	550.8	131.9
56.00		0.3750	43.119	50.874	11743.2	18.86	114.98	79.2	536.4	348.5
58.00		0.3750	42.553	50.201	11283.3	18.60	113.48	79.5	522.3	343.9
60.00		0.3750	41.988	49.528	10835.6	18.33	111.97	79.8	508.3	339.4
62.00		0.3750	41.422	48.855	10399.9	18.07	110.46	80.2	494.5	334.8
64.00		0.3750	40.857	48.182	9976.1	17.80	108.95	80.5	480.9	330.2
66.00		0.3750	40.292	47.509	9563.9	17.53	107.44	80.8	467.5	325.6
68.00		0.3750	39.726	46.836	9163.2	17.27	105.94	81.1	454.3	321.0
70.00		0.3750	39.161	46.163	8773.9	17.00	104.43	81.4	441.3	316.5
72.00		0.3750	38.595	45.490	8395.7	16.74	102.92	81.7	428.5	311.9
74.00		0.3750	38.030	44.817	8028.6	16.47	101.41	82.0	415.8	307.3
76.00		0.3750	37.464	44.144	7672.3	16.21	99.91	82.3	403.4	302.7
78.00		0.3750	36.899	43.471	7326.8	15.94	98.40	82.5	391.1	298.1
79.00		0.3750	36.616	43.135	7158.0	15.81	97.64	82.5	385.0	147.4
80.00		0.3750	36.334	42.798	6991.7	15.67	96.89	82.5	379.0	146.2
82.00		0.3750	35.768	42.125	6667.1	15.41	95.38	82.5	367.1	289.0
84.00		0.3750	35.203	41.452	6352.6	15.14	93.87	82.5	355.4	284.4
86.00		0.3750	34.637	40.779	6048.3	14.88	92.37	82.5	343.9	279.8
88.00		0.3750	34.072	40.106	5753.7	14.61	90.86	82.5	332.6	275.2
90.00		0.3750	33.507	39.433	5468.9	14.34	89.35	82.5	321.5	270.7
92.00		0.3750	32.941	38.761	5193.7	14.08	87.84	82.5	310.5	266.1

Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (In^3)	Weight (lb)
94.00		0.3750	32.376	38.088	4927.9	13.81	86.34	82.5	299.8	261.5
96.00		0.3750	31.810	37.415	4671.2	13.55	84.83	82.5	289.2	256.9
97.00	Bot - Section 3	0.3750	31.528	37.078	4546.3	13.41	84.07	82.5	284.0	126.7
98.00		0.3750	31.245	36.742	4423.7	13.28	83.32	82.5	278.9	232.6
100.00		0.3750	30.680	36.069	4185.0	13.02	81.81	82.5	268.7	458.9
101.00	Top - Section 2	0.3125	31.022	30.459	3629.2	16.09	99.27	0.0	0.0	226.3
102.00		0.3125	30.739	30.178	3529.9	15.93	98.37	82.5	226.2	103.2
104.00		0.3125	30.174	29.618	3336.7	15.61	96.56	82.5	217.8	203.5
106.00		0.3125	29.608	29.057	3150.7	15.30	94.75	82.5	209.6	199.7
108.00		0.3125	29.043	28.496	2971.8	14.98	92.94	82.5	201.5	195.8
109.00		0.3125	28.760	28.216	2884.9	14.82	92.03	82.5	197.6	96.5
110.00		0.3125	28.478	27.935	2799.8	14.66	91.13	82.5	193.6	95.5
112.00		0.3125	27.912	27.374	2634.5	14.34	89.32	82.5	185.9	188.2
114.00		0.3125	27.347	26.814	2475.9	14.02	87.51	82.5	178.3	184.4
116.00		0.3125	26.781	26.253	2323.8	13.70	85.70	82.5	170.9	180.6
118.00		0.3125	26.216	25.692	2178.0	13.38	83.89	82.5	163.6	176.8
120.00		0.3125	25.650	25.131	2038.5	13.06	82.08	82.5	156.5	172.9
122.00		0.3125	25.085	24.570	1905.1	12.74	80.27	82.5	149.6	169.1
124.00		0.3125	24.520	24.010	1777.6	12.42	78.46	82.5	142.8	165.3
126.00		0.3125	23.954	23.449	1655.9	12.11	76.65	82.5	136.2	161.5
128.00		0.3125	23.389	22.888	1539.9	11.79	74.84	82.5	129.7	157.7
130.00		0.3125	22.823	22.327	1429.5	11.47	73.03	82.5	123.4	153.9
132.00		0.3125	22.258	21.766	1324.4	11.15	71.23	82.5	117.2	150.0
134.00		0.3125	21.693	21.206	1224.7	10.83	69.42	82.5	111.2	146.2
136.00		0.3125	21.127	20.645	1130.1	10.51	67.61	82.5	105.4	142.4
138.00		0.3125	20.562	20.084	1040.5	10.19	65.80	82.5	99.7	138.6
139.00		0.3125	20.279	19.804	997.5	10.03	64.89	82.5	96.9	67.9
140.00		0.3125	19.996	19.523	955.7	9.87	63.99	82.5	94.1	66.9
142.00		0.3125	19.431	18.962	875.7	9.55	62.18	82.5	88.8	131.0
144.00		0.3125	18.866	18.402	800.3	9.23	60.37	82.5	83.6	127.1
146.00		0.3125	18.300	17.841	729.3	8.92	58.56	82.5	78.5	123.3
148.00		0.3125	17.735	17.280	662.7	8.60	56.75	82.5	73.6	119.5
148.25	Bot - Section 4	0.3125	17.664	17.210	654.7	8.56	56.53	82.5	73.0	14.7
150.00		0.3125	17.169	16.719	600.2	8.28	54.94	82.5	68.9	163.4
150.50	Top - Section 3	0.1875	17.403	10.245	383.6	14.96	92.82	0.0	0.0	45.8
152.00		0.1875	16.979	9.993	356.0	14.56	90.55	82.5	41.3	51.6
154.00		0.1875	16.414	9.656	321.2	14.02	87.54	82.5	38.5	66.9
156.00		0.1875	15.848	9.320	288.8	13.49	84.52	82.5	35.9	64.6
158.00		0.1875	15.283	8.983	258.6	12.96	81.51	82.5	33.3	62.3
159.00		0.1875	15.000	8.815	244.4	12.70	80.00	82.5	32.1	30.3
										23730.2

Wind Loading - Shaft

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 10

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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	29.140	32.05	539.08	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	29.140	32.05	533.84	0.730	0.000	2.00	9.802	7.16	229.4	0.0	559.3
4.00		1.00	0.85	29.140	32.05	528.60	0.730	0.000	2.00	9.706	7.09	227.1	0.0	553.8
6.00		1.00	0.85	29.140	32.05	523.36	0.730	0.000	2.00	9.610	7.02	224.9	0.0	548.3
8.00		1.00	0.85	29.140	32.05	518.13	0.730	0.000	2.00	9.515	6.95	222.6	0.0	542.8
10.00		1.00	0.85	29.140	32.05	512.89	0.730	0.000	2.00	9.419	6.88	220.4	0.0	537.3
12.00		1.00	0.85	29.140	32.05	507.65	0.730	0.000	2.00	9.323	6.81	218.2	0.0	531.8
14.00		1.00	0.85	29.140	32.05	502.42	0.730	0.000	2.00	9.228	6.74	215.9	0.0	526.3
16.00		1.00	0.87	29.878	32.87	503.44	0.730	0.000	2.00	9.132	6.67	219.1	0.0	520.8
18.00		1.00	0.89	30.586	33.64	504.01	0.730	0.000	2.00	9.036	6.60	221.9	0.0	515.3
20.00		1.00	0.91	31.238	34.36	503.92	0.730	0.000	2.00	8.941	6.53	224.3	0.0	509.9
22.00		1.00	0.93	31.842	35.03	503.30	0.730	0.000	2.00	8.845	6.46	226.2	0.0	504.4
24.00		1.00	0.95	32.405	35.65	502.21	0.730	0.000	2.00	8.749	6.39	227.7	0.0	498.9
26.00		1.00	0.96	32.935	36.23	500.73	0.730	0.000	2.00	8.654	6.32	228.9	0.0	493.4
28.00		1.00	0.98	33.434	36.78	498.90	0.730	0.000	2.00	8.558	6.25	229.8	0.0	487.9
30.00		1.00	0.99	33.907	37.30	496.76	0.730	0.000	2.00	8.462	6.18	230.4	0.0	482.4
32.00		1.00	1.00	34.356	37.79	494.36	0.730	0.000	2.00	8.366	6.11	230.8	0.0	476.9
34.00		1.00	1.01	34.784	38.26	491.71	0.730	0.000	2.00	8.271	6.04	231.0	0.0	471.4
36.00		1.00	1.03	35.193	38.71	488.84	0.730	0.000	2.00	8.175	5.97	231.0	0.0	465.9
38.00		1.00	1.04	35.586	39.14	485.76	0.730	0.000	2.00	8.079	5.90	230.9	0.0	460.4
40.00		1.00	1.05	35.962	39.56	482.51	0.730	0.000	2.00	7.984	5.83	230.6	0.0	454.9
42.00		1.00	1.06	36.325	39.96	479.09	0.730	0.000	2.00	7.888	5.76	230.1	0.0	449.4
44.00		1.00	1.07	36.674	40.34	475.51	0.730	0.000	2.00	7.792	5.69	229.5	0.0	443.9
46.00	Appurtenance(s)	1.00	1.08	37.011	40.71	471.79	0.730	0.000	2.00	7.697	5.62	228.7	0.0	438.4
47.50	Bot - Section 2	1.00	1.09	37.257	40.98	468.91	0.730	0.000	1.50	5.710	4.17	170.8	0.0	325.2
48.00		1.00	1.09	37.338	41.07	467.94	0.730	0.000	0.50	1.923	1.40	57.7	0.0	217.2
50.00		1.00	1.10	37.653	41.42	463.96	0.730	0.000	2.00	7.632	5.57	230.8	0.0	862.1
52.00		1.00	1.11	37.959	41.76	459.86	0.730	0.000	2.00	7.537	5.50	229.7	0.0	851.1
53.25	Top - Section 1	1.00	1.11	38.146	41.96	457.25	0.730	0.000	1.25	4.662	3.40	142.8	0.0	526.4
54.00		1.00	1.12	38.257	42.08	463.62	0.730	0.000	0.75	2.779	2.03	85.4	0.0	158.2
56.00		1.00	1.12	38.545	42.40	459.34	0.730	0.000	2.00	7.345	5.36	227.3	0.0	418.2
58.00		1.00	1.13	38.826	42.71	454.97	0.730	0.000	2.00	7.249	5.29	226.0	0.0	412.7
60.00		1.00	1.14	39.100	43.01	450.50	0.730	0.000	2.00	7.154	5.22	224.6	0.0	407.2
62.00		1.00	1.15	39.366	43.30	445.95	0.730	0.000	2.00	7.058	5.15	223.1	0.0	401.7
64.00		1.00	1.16	39.626	43.59	441.31	0.730	0.000	2.00	6.962	5.08	221.5	0.0	396.2
66.00		1.00	1.16	39.880	43.87	436.59	0.730	0.000	2.00	6.867	5.01	219.9	0.0	390.7
68.00		1.00	1.17	40.127	44.14	431.80	0.730	0.000	2.00	6.771	4.94	218.2	0.0	385.2
70.00		1.00	1.18	40.369	44.41	426.94	0.730	0.000	2.00	6.675	4.87	216.4	0.0	379.7
72.00		1.00	1.18	40.606	44.67	422.00	0.730	0.000	2.00	6.580	4.80	214.5	0.0	374.2
74.00		1.00	1.19	40.838	44.92	417.01	0.730	0.000	2.00	6.484	4.73	212.6	0.0	368.8
76.00		1.00	1.20	41.065	45.17	411.95	0.730	0.000	2.00	6.388	4.66	210.7	0.0	363.3
78.00		1.00	1.20	41.287	45.42	406.83	0.730	0.000	2.00	6.293	4.59	208.6	0.0	357.8
79.00	Appurtenance(s)	1.00	1.21	41.397	45.54	404.24	0.730	0.000	1.00	3.110	2.27	103.4	0.0	176.8
80.00		1.00	1.21	41.505	45.66	401.65	0.730	0.000	1.00	3.086	2.25	102.9	0.0	175.4
82.00		1.00	1.22	41.719	45.89	396.41	0.730	0.000	2.00	6.101	4.45	204.4	0.0	346.8
84.00		1.00	1.22	41.928	46.12	391.13	0.730	0.000	2.00	6.005	4.38	202.2	0.0	341.3
86.00		1.00	1.23	42.134	46.35	385.79	0.730	0.000	2.00	5.910	4.31	200.0	0.0	335.8

Wind Loading - Shaft

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023

Page: 11



88.00	1.00	1.23	42.336	46.57	380.40	0.730	0.000	2.00	5.814	4.24	197.7	0.0	330.3
90.00	1.00	1.24	42.535	46.79	374.96	0.730	0.000	2.00	5.718	4.17	195.3	0.0	324.8
92.00	1.00	1.25	42.730	47.00	369.48	0.730	0.000	2.00	5.623	4.10	192.9	0.0	319.3
94.00	1.00	1.25	42.922	47.21	363.95	0.730	0.000	2.00	5.527	4.03	190.5	0.0	313.8
96.00	1.00	1.26	43.110	47.42	358.38	0.730	0.000	2.00	5.431	3.96	188.0	0.0	308.3
97.00 Bot - Section 3	1.00	1.26	43.204	47.52	355.58	0.730	0.000	1.00	2.680	1.96	93.0	0.0	152.1
98.00	1.00	1.26	43.296	47.63	352.77	0.730	0.000	1.00	2.709	1.98	94.2	0.0	279.1
100.00	1.00	1.27	43.479	47.83	347.11	0.730	0.000	2.00	5.346	3.90	186.6	0.0	550.6
101.00 Top - Section 2	1.00	1.27	43.569	47.93	344.27	0.730	0.000	1.00	2.637	1.93	92.3	0.0	271.5
102.00	1.00	1.27	43.659	48.02	348.51	0.730	0.000	1.00	2.613	1.91	91.6	0.0	123.8
104.00	1.00	1.28	43.836	48.22	342.79	0.730	0.000	2.00	5.154	3.76	181.4	0.0	244.2
106.00	1.00	1.28	44.010	48.41	337.04	0.730	0.000	2.00	5.059	3.69	178.8	0.0	239.6
108.00	1.00	1.29	44.182	48.60	331.24	0.730	0.000	2.00	4.963	3.62	176.1	0.0	235.0
109.00 Appurtenance(s)	1.00	1.29	44.267	48.69	328.34	0.730	0.000	1.00	2.446	1.79	86.9	0.0	115.8
110.00	1.00	1.29	44.352	48.79	325.42	0.730	0.000	1.00	2.422	1.77	86.2	0.0	114.6
112.00	1.00	1.30	44.519	48.97	319.56	0.730	0.000	2.00	4.772	3.48	170.6	0.0	225.8
114.00	1.00	1.30	44.683	49.15	313.66	0.730	0.000	2.00	4.676	3.41	167.8	0.0	221.3
116.00	1.00	1.31	44.846	49.33	307.74	0.730	0.000	2.00	4.580	3.34	164.9	0.0	216.7
118.00	1.00	1.31	45.006	49.51	301.78	0.730	0.000	2.00	4.485	3.27	162.1	0.0	212.1
120.00	1.00	1.32	45.164	49.68	295.79	0.730	0.000	2.00	4.389	3.20	159.2	0.0	207.5
122.00	1.00	1.32	45.321	49.85	289.77	0.730	0.000	2.00	4.293	3.13	156.2	0.0	202.9
124.00	1.00	1.33	45.475	50.02	283.72	0.730	0.000	2.00	4.197	3.06	153.3	0.0	198.4
126.00	1.00	1.33	45.627	50.19	277.64	0.730	0.000	2.00	4.102	2.99	150.3	0.0	193.8
128.00	1.00	1.34	45.777	50.35	271.53	0.730	0.000	2.00	4.006	2.92	147.3	0.0	189.2
130.00 Appurtenance(s)	1.00	1.34	45.926	50.52	265.40	0.730	0.000	2.00	3.910	2.85	144.2	0.0	184.6
132.00	1.00	1.34	46.072	50.68	259.23	0.730	0.000	2.00	3.815	2.78	141.1	0.0	180.0
134.00	1.00	1.35	46.217	50.84	253.05	0.730	0.000	2.00	3.719	2.71	138.0	0.0	175.5
136.00	1.00	1.35	46.361	51.00	246.83	0.730	0.000	2.00	3.623	2.65	134.9	0.0	170.9
138.00	1.00	1.36	46.502	51.15	240.59	0.730	0.000	2.00	3.528	2.58	131.7	0.0	166.3
139.00 Appurtenance(s)	1.00	1.36	46.573	51.23	237.46	0.730	0.000	1.00	1.728	1.26	64.6	0.0	81.4
140.00	1.00	1.36	46.643	51.31	234.33	0.730	0.000	1.00	1.704	1.24	63.8	0.0	80.3
142.00	1.00	1.36	46.781	51.46	228.04	0.730	0.000	2.00	3.336	2.44	125.3	0.0	157.1
144.00	1.00	1.37	46.918	51.61	221.73	0.730	0.000	2.00	3.241	2.37	122.1	0.0	152.6
146.00	1.00	1.37	47.054	51.76	215.40	0.730	0.000	2.00	3.145	2.30	118.8	0.0	148.0
148.00 Appurtenance(s)	1.00	1.38	47.188	51.91	209.04	0.730	0.000	2.00	3.049	2.23	115.5	0.0	143.4
148.25 Bot - Section 4	1.00	1.38	47.204	51.92	208.24	0.730	0.000	0.25	0.374	0.27	14.2	0.0	17.6
150.00	1.00	1.38	47.320	52.05	202.66	0.730	0.000	1.75	2.635	1.92	100.1	0.0	196.1
150.50 Top - Section 3	1.00	1.38	47.353	52.09	201.06	0.730	0.000	0.50	0.739	0.54	28.1	0.0	55.0
152.00	1.00	1.38	47.451	52.20	200.69	0.730	0.000	1.50	2.182	1.59	83.1	0.0	62.0
154.00	1.00	1.39	47.581	52.34	194.27	0.730	0.000	2.00	2.826	2.06	108.0	0.0	80.2
156.00	1.00	1.39	47.710	52.48	187.83	0.730	0.000	2.00	2.730	1.99	104.6	0.0	77.5
158.00	1.00	1.40	47.837	52.62	181.37	0.730	0.000	2.00	2.634	1.92	101.2	0.0	74.7
159.00 Appurtenance(s)	1.00	1.40	47.900	52.69	178.13	0.730	0.000	1.00	1.281	0.94	49.3	0.0	36.3
Totals:								159.00			15,114.6		28,476.2

Discrete Appurtenance Forces

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

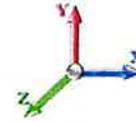
8/1/2023

Page: 12



Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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	159.00	Decibel DB404-B - Omni	1	48.026	52.829	0.90	0.90	1.35	16.80	0.000	2.000	71.32	0.00	142.64
2	159.00	Powerwave 7770	3	48.026	52.829	0.66	0.90	11.41	126.00	0.000	2.000	602.88	0.00	1205.77
3	159.00	Powerwave Technologies	6	48.026	52.829	0.45	0.90	3.48	101.52	0.000	2.000	184.00	0.00	368.00
4	159.00	Raycap DC6-48-60-18-8F	2	48.026	52.829	0.90	0.90	1.66	78.72	0.000	2.000	87.48	0.00	174.97
5	159.00	Site Pro 1 -	1	48.026	52.829	1.00	1.00	48.00	3174.00	0.000	2.000	2535.77	0.00	5071.54
6	159.00	Ericsson RRUS 32 B2	3	48.026	52.829	0.60	0.90	4.96	190.80	0.000	2.000	261.85	0.00	523.71
7	159.00	Powerwave	3	48.026	52.829	0.68	0.90	16.52	190.80	0.000	2.000	872.94	0.00	1745.88
8	159.00	Ericsson RRUS 11-700	3	48.026	52.829	0.60	0.90	4.56	183.60	0.000	2.000	240.83	0.00	481.66
9	159.00	Quintel QS66512-2	3	48.026	52.829	0.83	0.90	20.19	399.60	0.000	2.000	1066.87	0.00	2133.74
10	159.00	Kaelus DBC0061F1V51-2	3	48.026	52.829	0.45	0.90	0.58	65.88	0.000	2.000	30.67	0.00	61.33
11	159.00	Ericsson RRUS 32 B30	3	48.026	52.829	0.60	0.90	4.96	216.00	0.000	2.000	261.85	0.00	523.71
12	148.00	RFS - APXVTM14-C-I20 -	3	47.320	52.052	0.59	0.75	11.27	201.60	0.000	2.000	586.59	0.00	1173.19
13	148.00	Alcatel Lucent -	3	47.320	52.052	0.50	0.75	6.11	252.00	0.000	2.000	317.80	0.00	635.60
14	148.00	RFS - APXVSP18-C-A20	3	47.320	52.052	0.62	0.75	15.72	381.60	0.000	2.000	818.49	0.00	1636.98
15	148.00	SitePro HRK-12 Handrail	1	47.188	51.906	1.00	1.00	6.75	314.06	0.000	0.000	350.37	0.00	0.00
16	148.00	Low Profile Platform	1	47.188	51.906	1.00	1.00	35.00	1440.00	0.000	0.000	1816.72	0.00	0.00
17	148.00	Alcatel Lucent - 1900 MHz	3	47.320	52.052	0.50	0.75	5.73	158.40	0.000	2.000	298.18	0.00	596.36
18	148.00	Alcatel Lucent - 800 MHz	3	47.320	52.052	0.50	0.75	3.75	190.80	0.000	2.000	195.39	0.00	390.77
19	148.00	Alcatel Lucent - 800 MHz	3	47.320	52.052	0.38	0.75	0.88	31.88	0.000	2.000	45.68	0.00	91.35
20	148.00	RFS - ACU-A20-N - RET	4	47.320	52.052	0.38	0.75	0.21	4.80	0.000	2.000	10.93	0.00	21.86
21	139.00	LP Platform w/ Handrails	1	46.573	51.230	1.00	1.00	34.00	1920.00	0.000	0.000	1741.82	0.00	0.00
22	139.00	4415 B66A	3	46.573	51.230	0.38	0.75	2.09	158.76	0.000	0.000	107.20	0.00	0.00
23	139.00	4424 B25	3	46.573	51.230	0.50	0.75	3.35	284.40	0.000	0.000	171.45	0.00	0.00
24	139.00	4449 B71 + B85	3	46.573	51.230	0.50	0.75	2.97	263.52	0.000	0.000	152.14	0.00	0.00
25	139.00	RFS -	3	46.573	51.230	0.55	0.75	33.24	365.04	0.000	0.000	1703.10	0.00	0.00
26	139.00	EMS - FR90-16-XXDP -	3	46.573	51.230	0.51	0.75	6.67	64.80	0.000	0.000	341.74	0.00	0.00
27	139.00	RFS -	3	46.573	51.230	0.46	0.75	9.22	146.52	0.000	0.000	472.39	0.00	0.00
28	139.00	AIR6449 B41	3	46.573	51.230	0.53	0.75	9.03	370.80	0.000	0.000	462.39	0.00	0.00
29	139.00	RFS -	3	46.573	51.230	0.38	0.75	1.32	57.06	0.000	0.000	67.43	0.00	0.00
30	139.00	Andrew - ATSBT-TOP-FM	3	46.573	51.230	0.38	0.75	0.23	6.48	0.000	0.000	11.53	0.00	0.00
31	130.00	Samsung VZS01	3	45.926	50.518	0.52	0.75	7.40	313.56	0.000	0.000	373.96	0.00	0.00
32	130.00	Andrew JAHH-45B-R3B	2	45.926	50.518	0.55	0.75	12.48	218.40	0.000	0.000	630.62	0.00	0.00
33	130.00	Andrew JAHH-65B-R3B	4	45.926	50.518	0.62	0.75	22.68	303.84	0.000	0.000	1145.95	0.00	0.00
34	130.00	Commscope	3	45.926	50.518	0.72	0.75	1.21	72.00	0.000	0.000	61.11	0.00	0.00
35	130.00	Samsung B5/B13	3	45.926	50.518	0.50	0.75	2.83	303.84	0.000	0.000	143.17	0.00	0.00
36	130.00	Samsung B2/B66A	3	45.926	50.518	0.50	0.75	2.83	253.08	0.000	0.000	143.17	0.00	0.00
37	130.00	RFS DB-C1-12C-24AB-OZ	1	45.852	50.437	0.75	0.75	3.04	38.40	0.000	-1.000	153.58	0.00	-153.58
38	130.00	Low Profile Platform	1	45.926	50.518	1.00	1.00	24.80	1440.00	0.000	0.000	1252.85	0.00	0.00
39	130.00	Kaelus BSF0020F3V1-1	4	45.926	50.518	0.49	0.75	1.87	84.48	0.000	0.000	94.57	0.00	0.00
40	130.00	Mount pipes	15	45.926	50.518	0.75	0.75	10.91	540.00	0.000	0.000	551.28	0.00	0.00
41	130.00	Antel LPA-80063/6CF_5	6	45.926	50.518	0.71	0.75	41.00	194.40	0.000	0.000	2071.11	0.00	0.00
42	109.00	Sinclair SCL329-HL -	1	44.728	49.201	1.00	1.00	2.22	12.48	0.000	5.550	109.23	0.00	606.21
43	109.00	4 ft. Standoff	1	44.267	48.694	1.00	1.00	3.50	63.98	0.000	0.000	170.43	0.00	0.00
44	79.00	Sinclair SCL329-HL -	1	41.985	46.184	1.00	1.00	2.22	12.48	0.000	5.550	102.53	0.00	569.03
45	79.00	4 ft Standoff	1	41.397	45.536	1.00	1.00	3.50	63.98	0.000	0.000	159.38	0.00	0.00
46	46.00	4 ft Standoff	1	37.011	40.713	1.00	1.00	3.50	63.98	0.000	0.000	142.49	0.00	0.00
47	46.00	Decibel 26DB - GPS	1	37.497	41.246	1.00	1.00	0.16	12.00	0.000	3.000	6.60	0.00	19.80

Discrete Appurtenance Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Struct Class: II	Page: 13



Totals: 15,346.96 23,199.84

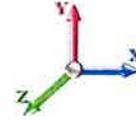
Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 14



Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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
2.00		229.35	681.59	0.00	0.00
4.00		227.11	676.09	0.00	0.00
6.00		224.87	670.60	0.00	0.00
8.00		222.64	665.10	0.00	0.00
10.00		220.40	659.61	0.00	0.00
12.00		218.16	654.11	0.00	0.00
14.00		215.92	648.62	0.00	0.00
16.00		219.10	643.12	0.00	0.00
18.00		221.94	637.62	0.00	0.00
20.00		224.26	632.13	0.00	0.00
22.00		226.15	626.63	0.00	0.00
24.00		227.67	621.14	0.00	0.00
26.00		228.86	615.64	0.00	0.00
28.00		229.76	610.14	0.00	0.00
30.00		230.40	604.65	0.00	0.00
32.00		230.81	599.15	0.00	0.00
34.00		231.02	593.66	0.00	0.00
36.00		231.03	588.16	0.00	0.00
38.00		230.87	582.67	0.00	0.00
40.00		230.55	577.17	0.00	0.00
42.00		230.08	571.67	0.00	0.00
44.00		229.48	566.18	0.00	0.00
46.00	(2) attachments	377.84	636.67	0.00	19.80
47.50		170.82	416.91	0.00	0.00
48.00		57.66	247.82	0.00	0.00
50.00		230.76	984.20	0.00	0.00
52.00		229.72	973.02	0.00	0.00
53.25		142.80	602.56	0.00	0.00
54.00		85.37	203.96	0.00	0.00
56.00		227.35	540.11	0.00	0.00
58.00		226.02	534.61	0.00	0.00
60.00		224.61	529.12	0.00	0.00
62.00		223.11	523.62	0.00	0.00
64.00		221.54	518.13	0.00	0.00
66.00		219.89	512.63	0.00	0.00
68.00		218.18	507.14	0.00	0.00
70.00		216.39	501.64	0.00	0.00
72.00		214.54	496.14	0.00	0.00
74.00		212.63	490.65	0.00	0.00
76.00		210.65	485.15	0.00	0.00
78.00		208.62	479.66	0.00	0.00
79.00	(2) attachments	365.30	314.23	0.00	569.03
80.00		102.87	235.77	0.00	0.00
82.00		204.39	467.42	0.00	0.00
84.00		202.20	461.92	0.00	0.00
86.00		199.95	456.43	0.00	0.00

Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 15

88.00		197.66	450.93	0.00	0.00
90.00		195.32	445.43	0.00	0.00
92.00		192.93	439.94	0.00	0.00
94.00		190.50	434.44	0.00	0.00
96.00		188.02	428.95	0.00	0.00
97.00		92.97	212.41	0.00	0.00
98.00		94.17	339.42	0.00	0.00
100.00		186.64	671.28	0.00	0.00
101.00		92.26	331.86	0.00	0.00
102.00		91.61	184.12	0.00	0.00
104.00		181.43	364.81	0.00	0.00
106.00		178.78	360.23	0.00	0.00
108.00		176.08	355.65	0.00	0.00
109.00	(2) attachments	366.59	252.57	0.00	606.21
110.00		86.25	174.34	0.00	0.00
112.00		170.58	345.24	0.00	0.00
114.00		167.78	340.67	0.00	0.00
116.00		164.94	336.09	0.00	0.00
118.00		162.07	331.51	0.00	0.00
120.00		159.17	326.93	0.00	0.00
122.00		156.24	322.35	0.00	0.00
124.00		153.28	317.77	0.00	0.00
126.00		150.28	313.19	0.00	0.00
128.00		147.26	308.61	0.00	0.00
130.00	(45) attachments	6765.59	4066.03	0.00	-153.58
132.00		141.13	266.47	0.00	0.00
134.00		138.02	261.89	0.00	0.00
136.00		134.89	257.31	0.00	0.00
138.00		131.73	252.73	0.00	0.00
139.00	(28) attachments	5295.81	3762.03	0.00	0.00
140.00		63.82	103.92	0.00	0.00
142.00		125.33	204.40	0.00	0.00
144.00		122.09	199.82	0.00	0.00
146.00		118.83	195.24	0.00	0.00
148.00	(24) attachments	4555.69	3165.61	0.00	4546.11
148.25		14.19	23.51	0.00	0.00
150.00		100.11	237.44	0.00	0.00
150.50		28.11	64.52	0.00	0.00
152.00		83.14	90.55	0.00	0.00
154.00		107.96	118.33	0.00	0.00
156.00		104.59	115.58	0.00	0.00
158.00		101.19	112.83	0.00	0.00
159.00	(31) attachments	6265.75	4799.11	0.00	12432.93
	Totals:	38,314.40	52,530.98	0.00	18,020.50

Linear Appurtenance Segment Forces (Factored)

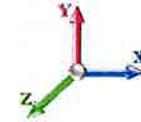
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 16

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
2.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	29.140	0.00	0.38
2.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.047	0.000	29.140	0.00	0.66
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.047	0.000	29.140	0.00	2.50
2.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.047	0.000	29.140	0.00	1.25
2.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	29.140	0.00	1.25
2.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.047	0.000	29.140	0.00	0.38
4.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	0.38
4.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	29.140	0.00	0.66
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	29.140	0.00	2.50
4.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	29.140	0.00	1.25
4.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	1.25
4.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.048	0.000	29.140	0.00	0.38
6.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	0.38
6.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	29.140	0.00	0.66
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	29.140	0.00	2.50
6.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	29.140	0.00	1.25
6.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	1.25
6.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.048	0.000	29.140	0.00	0.38
8.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	0.38
8.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	29.140	0.00	0.66
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	29.140	0.00	2.50
8.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	29.140	0.00	1.25
8.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	1.25
8.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.049	0.000	29.140	0.00	0.38
10.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	0.38
10.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	29.140	0.00	0.66
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	29.140	0.00	2.50
10.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	29.140	0.00	1.25
10.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	1.25
10.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.049	0.000	29.140	0.00	0.38
12.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	0.38
12.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	29.140	0.00	0.66
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	29.140	0.00	2.50
12.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	29.140	0.00	1.25
12.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	1.25
12.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.050	0.000	29.140	0.00	0.38
14.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	0.38
14.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	29.140	0.00	0.66
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	29.140	0.00	2.50
14.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	29.140	0.00	1.25
14.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	1.25
14.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.050	0.000	29.140	0.00	0.38
16.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	29.878	0.00	0.38
16.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	29.878	0.00	0.66
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	29.878	0.00	2.50
16.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	29.878	0.00	1.25
16.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	29.878	0.00	1.25

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 17

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
16.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.051	0.000	29.878	0.00	0.38
18.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	30.586	0.00	0.38
18.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	30.586	0.00	0.66
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	30.586	0.00	2.50
18.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	30.586	0.00	1.25
18.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	30.586	0.00	1.25
18.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.051	0.000	30.586	0.00	0.38
20.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.238	0.00	0.38
20.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	31.238	0.00	0.66
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	31.238	0.00	2.50
20.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	31.238	0.00	1.25
20.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.238	0.00	1.25
20.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.052	0.000	31.238	0.00	0.38
22.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.842	0.00	0.38
22.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	31.842	0.00	0.66
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	31.842	0.00	2.50
22.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	31.842	0.00	1.25
22.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.842	0.00	1.25
22.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.052	0.000	31.842	0.00	0.38
24.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.405	0.00	0.38
24.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	32.405	0.00	0.66
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	32.405	0.00	2.50
24.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	32.405	0.00	1.25
24.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.405	0.00	1.25
24.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.053	0.000	32.405	0.00	0.38
24.00	1/2"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.935	0.00	0.38
26.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.935	0.00	0.66
26.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	32.935	0.00	2.50
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	32.935	0.00	1.25
26.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	32.935	0.00	1.25
26.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.935	0.00	0.38
26.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.053	0.000	32.935	0.00	0.38
28.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	33.434	0.00	0.66
28.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	33.434	0.00	2.50
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	33.434	0.00	1.25
28.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	33.434	0.00	1.25
28.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	33.434	0.00	0.38
28.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.054	0.000	33.434	0.00	0.38
30.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	33.907	0.00	0.66
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	33.907	0.00	2.50
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	33.907	0.00	1.25
30.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	33.907	0.00	1.25
30.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	33.907	0.00	0.38
30.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.055	0.000	33.907	0.00	0.38
32.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	34.356	0.00	0.66
32.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	34.356	0.00	2.50
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	34.356	0.00	1.25
32.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	34.356	0.00	1.25

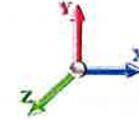
Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
32.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	34.356	0.00	1.25
32.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.055	0.000	34.356	0.00	0.38
34.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	34.784	0.00	0.38
34.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	34.784	0.00	0.66
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	34.784	0.00	2.50
34.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	34.784	0.00	1.25
34.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	34.784	0.00	1.25
34.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.056	0.000	34.784	0.00	0.38
36.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	35.193	0.00	0.38
36.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	35.193	0.00	0.66
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	35.193	0.00	2.50
36.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	35.193	0.00	1.25
36.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	35.193	0.00	1.25
36.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.056	0.000	35.193	0.00	0.38
38.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	35.586	0.00	0.38
38.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.057	0.000	35.586	0.00	0.66
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.057	0.000	35.586	0.00	2.50
38.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.057	0.000	35.586	0.00	1.25
38.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	35.586	0.00	1.25
38.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.057	0.000	35.586	0.00	0.38
40.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	35.962	0.00	0.38
40.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.058	0.000	35.962	0.00	0.66
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.058	0.000	35.962	0.00	2.50
40.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.058	0.000	35.962	0.00	1.25
40.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	35.962	0.00	1.25
40.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.058	0.000	35.962	0.00	0.38
42.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.325	0.00	0.38
42.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	36.325	0.00	0.66
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	36.325	0.00	2.50
42.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	36.325	0.00	1.25
42.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.325	0.00	1.25
42.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.059	0.000	36.325	0.00	0.38
44.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.674	0.00	0.38
44.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	36.674	0.00	0.66
44.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	36.674	0.00	2.50
44.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	36.674	0.00	1.25
44.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.674	0.00	1.25
44.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.059	0.000	36.674	0.00	0.38
46.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.011	0.00	0.38
46.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	37.011	0.00	0.66
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	37.011	0.00	2.50
46.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.060	0.000	37.011	0.00	1.25
46.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.011	0.00	1.25
46.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.060	0.000	37.011	0.00	0.38
47.50	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	37.257	0.00	0.29
47.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.061	0.000	37.257	0.00	0.49
47.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.061	0.000	37.257	0.00	1.87

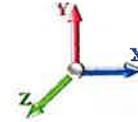
Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 19



Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
47.50	7/8"	Yes	1.50	0.000	1.11	0.14	0.00	0.061	0.000	37.257	0.00	0.94
47.50	7/8"	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	37.257	0.00	0.94
47.50	1/2"	Yes	1.50	0.000	0.65	0.08	0.00	0.061	0.000	37.257	0.00	0.29
48.00	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	37.338	0.00	0.10
48.00	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.061	0.000	37.338	0.00	0.16
48.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.061	0.000	37.338	0.00	0.62
48.00	7/8"	Yes	0.50	0.000	1.11	0.05	0.00	0.061	0.000	37.338	0.00	0.31
48.00	7/8"	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	37.338	0.00	0.31
48.00	7/8"	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	37.338	0.00	0.10
48.00	1/2"	Yes	0.50	0.000	0.65	0.03	0.00	0.061	0.000	37.338	0.00	0.38
50.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	37.653	0.00	0.66
50.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	37.653	0.00	0.66
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	37.653	0.00	2.50
50.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	37.653	0.00	1.25
50.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	37.653	0.00	1.25
50.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	37.653	0.00	0.19
50.00	1/2"	Yes	1.00	0.000	0.65	0.05	0.00	0.054	0.000	37.653	0.00	0.38
52.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	37.959	0.00	0.66
52.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	37.959	0.00	0.66
52.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	37.959	0.00	2.50
52.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	37.959	0.00	1.25
52.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	37.959	0.00	1.25
52.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	37.959	0.00	0.24
53.25	1/2" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	38.146	0.00	0.41
53.25	Safety Cable	Yes	1.25	0.000	0.38	0.04	0.00	0.048	0.000	38.146	0.00	0.41
53.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.07	0.00	0.048	0.000	38.146	0.00	1.56
53.25	7/8"	Yes	1.25	0.000	1.11	0.12	0.00	0.048	0.000	38.146	0.00	0.78
53.25	7/8"	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	38.146	0.00	0.78
53.25	7/8"	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	38.146	0.00	0.14
54.00	1/2" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	38.257	0.00	0.25
54.00	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.048	0.000	38.257	0.00	0.25
54.00	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.04	0.00	0.048	0.000	38.257	0.00	0.94
54.00	7/8"	Yes	0.75	0.000	1.11	0.07	0.00	0.048	0.000	38.257	0.00	0.47
54.00	7/8"	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	38.257	0.00	0.47
54.00	7/8"	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	38.257	0.00	0.38
56.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	38.545	0.00	0.66
56.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	38.545	0.00	0.66
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	38.545	0.00	2.50
56.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	38.545	0.00	1.25
56.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	38.545	0.00	1.25
56.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	38.545	0.00	0.38
58.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	38.826	0.00	0.66
58.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	38.826	0.00	0.66
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	38.826	0.00	2.50
58.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	38.826	0.00	1.25
58.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	38.826	0.00	1.25
58.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	38.826	0.00	0.38
60.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	39.100	0.00	0.66
60.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	39.100	0.00	0.66
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	39.100	0.00	2.50
60.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	39.100	0.00	1.25
60.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	39.100	0.00	1.25
60.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	39.100	0.00	0.38
62.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	39.366	0.00	0.66
62.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	39.366	0.00	0.66

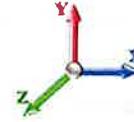
Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 20



Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	39.366	0.00	2.50
62.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	39.366	0.00	1.25
62.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	39.366	0.00	1.25
64.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.626	0.00	0.38
64.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	39.626	0.00	0.66
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	39.626	0.00	2.50
64.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	39.626	0.00	1.25
64.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.626	0.00	1.25
66.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.880	0.00	0.38
66.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	39.880	0.00	0.66
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	39.880	0.00	2.50
66.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	39.880	0.00	1.25
66.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.880	0.00	1.25
68.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	40.127	0.00	0.38
68.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	40.127	0.00	0.66
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	40.127	0.00	2.50
68.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	40.127	0.00	1.25
68.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	40.127	0.00	1.25
70.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	40.369	0.00	0.38
70.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	40.369	0.00	0.66
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	40.369	0.00	2.50
70.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	40.369	0.00	1.25
70.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	40.369	0.00	1.25
72.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.606	0.00	0.38
72.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	40.606	0.00	0.66
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	40.606	0.00	2.50
72.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	40.606	0.00	1.25
72.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.606	0.00	1.25
74.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.838	0.00	0.38
74.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	40.838	0.00	0.66
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	40.838	0.00	2.50
74.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	40.838	0.00	1.25
74.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.838	0.00	1.25
76.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	41.065	0.00	0.38
76.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	41.065	0.00	0.66
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	41.065	0.00	2.50
76.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	41.065	0.00	1.25
76.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	41.065	0.00	1.25
78.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	41.287	0.00	0.38
78.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	41.287	0.00	0.66
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	41.287	0.00	2.50
78.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	41.287	0.00	1.25
78.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	41.287	0.00	1.25
79.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	41.397	0.00	0.19
79.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.057	0.000	41.397	0.00	0.33
79.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.057	0.000	41.397	0.00	1.25
79.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.057	0.000	41.397	0.00	0.62

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II

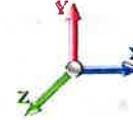


Page: 21

Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 30

Dead Load Factor 1.20
Wind Load Factor 1.00



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)
79.00	7/8"	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	41.397	0.00	0.62
80.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	41.505	0.00	0.19
80.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.057	0.000	41.505	0.00	0.33
80.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.057	0.000	41.505	0.00	1.25
80.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.057	0.000	41.505	0.00	0.62
82.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	41.719	0.00	0.38
82.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.058	0.000	41.719	0.00	0.66
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.058	0.000	41.719	0.00	2.50
82.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.058	0.000	41.719	0.00	1.25
84.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	41.928	0.00	0.38
84.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	41.928	0.00	0.66
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	41.928	0.00	2.50
84.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	41.928	0.00	1.25
86.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	42.134	0.00	0.38
86.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	42.134	0.00	0.66
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	42.134	0.00	2.50
86.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.060	0.000	42.134	0.00	1.25
88.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	42.336	0.00	0.38
88.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.061	0.000	42.336	0.00	0.66
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.061	0.000	42.336	0.00	2.50
88.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.061	0.000	42.336	0.00	1.25
90.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	42.535	0.00	0.38
90.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.062	0.000	42.535	0.00	0.66
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.062	0.000	42.535	0.00	2.50
90.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.062	0.000	42.535	0.00	1.25
92.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	42.730	0.00	0.38
92.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.063	0.000	42.730	0.00	0.66
92.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.063	0.000	42.730	0.00	2.50
92.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.063	0.000	42.730	0.00	1.25
94.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	42.922	0.00	0.38
94.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.064	0.000	42.922	0.00	0.66
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.064	0.000	42.922	0.00	2.50
94.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.064	0.000	42.922	0.00	1.25
96.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	43.110	0.00	0.38
96.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.065	0.000	43.110	0.00	0.66
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.065	0.000	43.110	0.00	2.50
96.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.065	0.000	43.110	0.00	1.25
97.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	43.204	0.00	0.19
97.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.066	0.000	43.204	0.00	0.33
97.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.066	0.000	43.204	0.00	1.25
97.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.066	0.000	43.204	0.00	0.62
98.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.067	0.000	43.296	0.00	0.19
98.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.067	0.000	43.296	0.00	0.33
98.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.067	0.000	43.296	0.00	1.25
98.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.067	0.000	43.296	0.00	0.62
100.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	43.479	0.00	0.38
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.067	0.000	43.479	0.00	0.66

Linear Appurtenance Segment Forces (Factored)

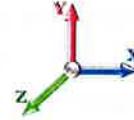
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 22

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.067	0.000	43.479	0.00	2.50
100.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.067	0.000	43.479	0.00	1.25
101.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	43.569	0.00	0.19
101.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.068	0.000	43.569	0.00	0.33
101.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.068	0.000	43.569	0.00	1.25
101.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.068	0.000	43.569	0.00	0.62
102.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	43.659	0.00	0.19
102.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.068	0.000	43.659	0.00	0.33
102.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.068	0.000	43.659	0.00	1.25
102.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.068	0.000	43.659	0.00	0.62
104.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	43.836	0.00	0.38
104.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.069	0.000	43.836	0.00	0.66
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.069	0.000	43.836	0.00	2.50
104.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.069	0.000	43.836	0.00	1.25
106.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	44.010	0.00	0.38
106.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.070	0.000	44.010	0.00	0.66
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.070	0.000	44.010	0.00	2.50
106.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.070	0.000	44.010	0.00	1.25
108.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	44.182	0.00	0.38
108.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.071	0.000	44.182	0.00	0.66
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.071	0.000	44.182	0.00	2.50
108.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.071	0.000	44.182	0.00	1.25
109.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	44.267	0.00	0.19
109.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.072	0.000	44.267	0.00	0.33
109.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.072	0.000	44.267	0.00	1.25
109.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.072	0.000	44.267	0.00	0.62
110.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.035	0.000	44.352	0.00	0.19
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	44.352	0.00	0.33
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	44.352	0.00	1.25
112.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.035	0.000	44.519	0.00	0.38
112.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.035	0.000	44.519	0.00	0.66
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.035	0.000	44.519	0.00	2.50
114.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.036	0.000	44.683	0.00	0.38
114.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.036	0.000	44.683	0.00	0.66
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.036	0.000	44.683	0.00	2.50
116.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	44.846	0.00	0.38
116.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.037	0.000	44.846	0.00	0.66
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.037	0.000	44.846	0.00	2.50
118.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	45.006	0.00	0.38
118.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	45.006	0.00	0.66
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	45.006	0.00	2.50
120.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	45.164	0.00	0.38
120.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	45.164	0.00	0.66
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	45.164	0.00	2.50
122.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.039	0.000	45.321	0.00	0.38
122.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	45.321	0.00	0.66
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	45.321	0.00	2.50

Linear Appurtenance Segment Forces (Factored)

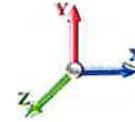
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 23

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
124.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.040	0.000	45.475	0.00	0.38
124.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.040	0.000	45.475	0.00	0.66
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.040	0.000	45.475	0.00	2.50
126.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.041	0.000	45.627	0.00	0.38
126.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.041	0.000	45.627	0.00	0.66
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.041	0.000	45.627	0.00	2.50
128.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.042	0.000	45.777	0.00	0.38
128.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.042	0.000	45.777	0.00	0.66
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.042	0.000	45.777	0.00	2.50
128.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.042	0.000	45.777	0.00	0.66
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.042	0.000	45.777	0.00	2.50
130.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.043	0.000	45.926	0.00	0.38
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.043	0.000	45.926	0.00	0.66
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.043	0.000	45.926	0.00	2.50
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.043	0.000	45.926	0.00	0.66
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.043	0.000	45.926	0.00	2.50
132.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.044	0.000	46.072	0.00	0.38
132.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.044	0.000	46.072	0.00	0.66
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.044	0.000	46.072	0.00	2.50
132.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.044	0.000	46.072	0.00	0.66
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.044	0.000	46.072	0.00	2.50
134.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.045	0.000	46.217	0.00	0.38
134.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.045	0.000	46.217	0.00	0.66
134.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.045	0.000	46.217	0.00	2.50
134.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.045	0.000	46.217	0.00	0.66
134.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.045	0.000	46.217	0.00	2.50
136.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.046	0.000	46.361	0.00	0.38
136.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.046	0.000	46.361	0.00	0.66
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.046	0.000	46.361	0.00	2.50
136.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.046	0.000	46.361	0.00	0.66
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.046	0.000	46.361	0.00	2.50
138.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	46.502	0.00	0.38
138.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	46.502	0.00	0.66
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	46.502	0.00	2.50
138.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	46.502	0.00	0.66
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	46.502	0.00	2.50
139.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	46.573	0.00	0.19
139.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	46.573	0.00	0.33
139.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	46.573	0.00	1.25
139.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	46.573	0.00	0.33
139.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	46.573	0.00	1.25
140.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	46.643	0.00	0.19
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	46.643	0.00	0.33
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	46.643	0.00	1.25
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	46.643	0.00	0.33
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	46.643	0.00	1.25
142.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	46.781	0.00	0.38
142.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	46.781	0.00	0.66
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	46.781	0.00	2.50
142.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	46.781	0.00	0.66
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	46.781	0.00	2.50
144.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	46.918	0.00	0.38
144.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	46.918	0.00	0.66
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	46.918	0.00	2.50
144.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	46.918	0.00	0.66
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	46.918	0.00	2.50
146.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	47.054	0.00	0.38
146.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	47.054	0.00	0.66
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	47.054	0.00	2.50
146.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	47.054	0.00	0.66
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	47.054	0.00	2.50
148.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	47.188	0.00	0.38
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	47.188	0.00	0.66
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	47.188	0.00	2.50
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	47.188	0.00	0.66
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	47.188	0.00	2.50
148.25	1/2" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.056	0.000	47.204	0.00	0.05
148.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.056	0.000	47.204	0.00	0.08
148.25	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.056	0.000	47.204	0.00	0.31
148.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.056	0.000	47.204	0.00	0.08
148.25	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.056	0.000	47.204	0.00	0.31
150.00	1/2" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.057	0.000	47.320	0.00	0.34
150.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.057	0.000	47.320	0.00	0.57

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 24

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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)
150.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.057	0.000	47.320	0.00	2.18
150.50	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.058	0.000	47.353	0.00	0.10
150.50	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.058	0.000	47.353	0.00	0.16
150.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.058	0.000	47.353	0.00	0.62
152.00	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.058	0.000	47.451	0.00	0.29
152.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.058	0.000	47.451	0.00	0.49
152.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.058	0.000	47.451	0.00	1.87
154.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	47.581	0.00	0.38
154.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	47.581	0.00	0.66
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	47.581	0.00	2.50
156.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	47.710	0.00	0.38
156.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.062	0.000	47.710	0.00	0.66
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.062	0.000	47.710	0.00	2.50
158.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	47.837	0.00	0.38
158.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.064	0.000	47.837	0.00	0.66
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.064	0.000	47.837	0.00	2.50
159.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	47.900	0.00	0.19
159.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.066	0.000	47.900	0.00	0.33
159.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.066	0.000	47.900	0.00	1.25
Totals:											0.0	407.8

Calculated Forces

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

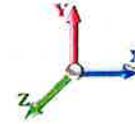
8/1/2023



Page: 25

Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 30

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	-52.50	-38.36	0.00	-4650.8	0.00	4650.85	4389.95	1207.86	5794.89	5230.24	0.00	0.000	0.000	0.902
2.00	-51.76	-38.21	0.00	-4574.1	0.00	4574.14	4366.21	1196.05	5682.12	5150.75	0.02	-0.090	0.000	0.901
4.00	-51.02	-38.06	0.00	-4497.7	0.00	4497.72	4342.08	1184.24	5570.46	5071.39	0.08	-0.182	0.000	0.900
6.00	-50.29	-37.92	0.00	-4421.6	0.00	4421.60	4317.58	1172.43	5459.91	4992.14	0.17	-0.274	0.000	0.898
8.00	-49.56	-37.77	0.00	-4345.7	0.00	4345.77	4292.70	1160.62	5350.46	4913.05	0.31	-0.368	0.000	0.897
10.00	-48.84	-37.63	0.00	-4270.2	0.00	4270.23	4267.44	1148.80	5242.12	4834.10	0.48	-0.463	0.000	0.896
12.00	-48.13	-37.49	0.00	-4194.9	0.00	4194.97	4241.80	1136.99	5134.89	4755.32	0.70	-0.559	0.000	0.895
14.00	-47.42	-37.34	0.00	-4120.0	0.00	4120.00	4215.78	1125.18	5028.77	4676.73	0.96	-0.657	0.000	0.893
16.00	-46.71	-37.20	0.00	-4045.3	0.00	4045.31	4189.38	1113.37	4923.76	4598.33	1.25	-0.756	0.000	0.892
18.00	-46.01	-37.05	0.00	-3970.9	0.00	3970.92	4162.60	1101.56	4819.85	4520.13	1.59	-0.856	0.000	0.891
20.00	-45.32	-36.90	0.00	-3896.8	0.00	3896.82	4135.45	1089.75	4717.06	4442.16	1.97	-0.957	0.000	0.889
22.00	-44.63	-36.74	0.00	-3823.0	0.00	3823.03	4107.92	1077.94	4615.37	4364.42	2.40	-1.060	0.000	0.888
24.00	-43.95	-36.58	0.00	-3749.5	0.00	3749.55	4080.00	1066.13	4514.79	4286.93	2.86	-1.165	0.000	0.887
26.00	-43.27	-36.42	0.00	-3676.4	0.00	3676.40	4051.71	1054.32	4415.31	4209.70	3.37	-1.270	0.000	0.885
28.00	-42.59	-36.25	0.00	-3603.5	0.00	3603.56	4023.04	1042.51	4316.95	4132.74	3.93	-1.377	0.000	0.884
30.00	-41.93	-36.09	0.00	-3531.0	0.00	3531.05	3994.00	1030.70	4219.69	4056.08	4.53	-1.486	0.000	0.882
32.00	-41.27	-35.92	0.00	-3458.8	0.00	3458.88	3964.57	1018.89	4123.54	3979.71	5.18	-1.596	0.000	0.881
34.00	-40.61	-35.75	0.00	-3387.0	0.00	3387.03	3934.76	1007.08	4028.50	3903.66	5.87	-1.708	0.000	0.879
36.00	-39.96	-35.58	0.00	-3315.5	0.00	3315.52	3904.58	995.27	3934.57	3827.93	6.61	-1.821	0.000	0.878
38.00	-39.31	-35.41	0.00	-3244.3	0.00	3244.36	3874.01	983.46	3841.74	3752.55	7.40	-1.935	0.000	0.876
40.00	-38.67	-35.24	0.00	-3173.5	0.00	3173.53	3843.07	971.65	3750.03	3677.52	8.23	-2.052	0.000	0.874
42.00	-38.03	-35.07	0.00	-3103.0	0.00	3103.05	3811.75	959.84	3659.42	3602.86	9.12	-2.170	0.000	0.873
44.00	-37.40	-34.90	0.00	-3032.9	0.00	3032.91	3780.05	948.03	3569.92	3528.58	10.05	-2.289	0.000	0.871
46.00	-36.72	-34.56	0.00	-2963.0	0.00	2963.09	3747.97	936.22	3481.52	3454.69	11.04	-2.411	0.000	0.869
47.50	-36.27	-34.41	0.00	-2911.2	0.00	2911.25	3723.67	927.36	3415.96	3399.54	11.81	-2.503	0.000	0.867
48.00	-35.98	-34.39	0.00	-2894.0	0.00	2894.04	3715.52	924.41	3394.24	3381.21	12.07	-2.535	0.000	0.867
50.00	-34.93	-34.20	0.00	-2825.2	0.00	2825.25	3682.68	912.60	3308.06	3308.15	13.16	-2.660	0.000	0.865
52.00	-33.91	-33.98	0.00	-2756.8	0.00	2756.86	3649.47	900.79	3223.00	3235.53	14.30	-2.786	0.000	0.863
53.25	-33.28	-33.85	0.00	-2714.3	0.00	2714.39	3672.80	909.07	3282.55	3286.43	15.04	-2.867	0.000	0.836
54.00	-33.03	-33.80	0.00	-2689.0	0.00	2689.00	3660.35	904.64	3250.65	3259.19	15.50	-2.916	0.000	0.835
56.00	-32.43	-33.62	0.00	-2621.4	0.00	2621.40	3626.88	892.83	3166.32	3186.86	16.75	-3.040	0.000	0.833
58.00	-31.83	-33.43	0.00	-2554.1	0.00	2554.17	3593.03	881.02	3083.11	3115.00	18.05	-3.165	0.000	0.830
60.00	-31.24	-33.25	0.00	-2487.3	0.00	2487.31	3558.80	869.21	3001.01	3043.60	19.40	-3.292	0.000	0.827
62.00	-30.66	-33.06	0.00	-2420.8	0.00	2420.81	3524.20	857.40	2920.01	2972.69	20.81	-3.421	0.000	0.825
64.00	-30.08	-32.88	0.00	-2354.6	0.00	2354.68	3489.21	845.59	2840.12	2902.27	22.27	-3.552	0.000	0.821
66.00	-29.50	-32.70	0.00	-2288.9	0.00	2288.92	3453.85	833.78	2761.34	2832.36	23.78	-3.684	0.000	0.818
68.00	-28.94	-32.52	0.00	-2223.5	0.00	2223.53	3418.11	821.97	2683.66	2762.97	25.35	-3.818	0.000	0.815
70.00	-28.37	-32.33	0.00	-2158.5	0.00	2158.50	3381.99	810.16	2607.10	2694.13	26.98	-3.954	0.000	0.811
72.00	-27.82	-32.15	0.00	-2093.8	0.00	2093.83	3345.49	798.35	2531.64	2625.83	28.67	-4.092	0.000	0.807
74.00	-27.26	-31.97	0.00	-2029.5	0.00	2029.53	3308.61	786.54	2457.29	2558.09	30.41	-4.232	0.000	0.803
76.00	-26.72	-31.79	0.00	-1965.5	0.00	1965.59	3271.35	774.73	2384.05	2490.93	32.21	-4.373	0.000	0.799
78.00	-26.19	-31.60	0.00	-1902.0	0.00	1902.01	3229.69	762.92	2311.92	2421.35	34.07	-4.517	0.000	0.795
79.00	-25.87	-31.24	0.00	-1869.8	0.00	1869.84	3204.69	757.01	2276.27	2383.82	35.03	-4.590	0.000	0.794
80.00	-25.58	-31.17	0.00	-1838.6	0.00	1838.61	3179.70	751.11	2240.89	2346.59	36.00	-4.664	0.000	0.793
82.00	-25.05	-30.99	0.00	-1776.2	0.00	1776.27	3129.70	739.30	2170.98	2273.00	37.98	-4.811	0.000	0.791
84.00	-24.53	-30.81	0.00	-1714.2	0.00	1714.29	3079.70	727.49	2102.17	2200.58	40.02	-4.960	0.000	0.789
86.00	-24.01	-30.64	0.00	-1652.6	0.00	1652.67	3029.70	715.68	2034.47	2129.34	42.13	-5.111	0.000	0.786
88.00	-23.50	-30.46	0.00	-1591.3	0.00	1591.39	2979.71	703.87	1967.87	2059.26	44.30	-5.263	0.000	0.783

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 26



90.00	-22.99	-30.29	0.00	-1530.4	0.00	1530.47	2929.71	692.06	1902.39	1990.36	46.54	-5.418	0.000	0.779
92.00	-22.49	-30.12	0.00	-1469.8	0.00	1469.89	2879.71	680.25	1838.01	1922.64	48.84	-5.574	0.000	0.774
94.00	-21.99	-29.95	0.00	-1409.6	0.00	1409.65	2829.72	668.44	1774.74	1856.08	51.20	-5.731	0.000	0.769
96.00	-21.52	-29.76	0.00	-1349.7	0.00	1349.76	2779.72	656.63	1712.58	1790.70	53.63	-5.891	0.000	0.764
97.00	-21.28	-29.68	0.00	-1320.0	0.00	1320.00	2754.72	650.72	1681.92	1758.45	54.88	-5.972	0.000	0.760
98.00	-20.89	-29.59	0.00	-1290.3	0.00	1290.32	2729.72	644.82	1651.53	1726.49	56.13	-6.054	0.000	0.757
100.00	-20.18	-29.38	0.00	-1231.1	0.00	1231.14	2679.72	633.01	1591.59	1663.45	58.70	-6.216	0.000	0.750
101.00	-19.82	-29.28	0.00	-1201.7	0.00	1201.76	2260.79	534.55	1361.99	1425.24	60.01	-6.299	0.000	0.855
102.00	-19.58	-29.21	0.00	-1172.4	0.00	1172.49	2242.10	529.63	1337.03	1400.31	61.33	-6.382	0.000	0.849
104.00	-19.14	-29.05	0.00	-1114.0	0.00	1114.06	2200.44	519.79	1287.80	1348.49	64.04	-6.566	0.000	0.838
106.00	-18.71	-28.90	0.00	-1055.9	0.00	1055.95	2158.77	509.95	1239.49	1297.65	66.83	-6.751	0.000	0.826
108.00	-18.31	-28.72	0.00	-998.16	0.00	998.16	2117.11	500.10	1192.11	1247.79	69.69	-6.936	0.000	0.812
109.00	-18.06	-28.36	0.00	-968.84	0.00	968.84	2096.28	495.18	1168.77	1223.22	71.15	-7.031	0.000	0.804
110.00	-17.82	-28.29	0.00	-940.48	0.00	940.48	2075.44	490.26	1145.65	1198.90	72.63	-7.125	0.000	0.796
112.00	-17.41	-28.14	0.00	-883.89	0.00	883.89	2033.78	480.42	1100.12	1150.99	75.64	-7.310	0.000	0.780
114.00	-17.01	-27.98	0.00	-827.62	0.00	827.62	1992.11	470.58	1055.50	1104.05	78.74	-7.495	0.000	0.762
116.00	-16.61	-27.83	0.00	-771.65	0.00	771.65	1950.45	460.74	1011.82	1058.10	81.91	-7.679	0.000	0.741
118.00	-16.21	-27.67	0.00	-716.00	0.00	716.00	1908.79	450.89	969.05	1013.12	85.16	-7.861	0.000	0.719
120.00	-15.82	-27.52	0.00	-660.65	0.00	660.65	1867.12	441.05	927.21	969.11	88.48	-8.041	0.000	0.694
122.00	-15.44	-27.37	0.00	-605.61	0.00	605.61	1825.46	431.21	886.29	926.09	91.87	-8.217	0.000	0.666
124.00	-15.07	-27.22	0.00	-550.88	0.00	550.88	1783.79	421.37	846.29	884.04	95.34	-8.390	0.000	0.636
126.00	-14.71	-27.06	0.00	-496.45	0.00	496.45	1742.13	411.53	807.22	842.97	98.88	-8.558	0.000	0.602
128.00	-14.35	-26.91	0.00	-442.32	0.00	442.32	1700.47	401.68	769.07	802.87	102.49	-8.719	0.000	0.564
130.00	-11.31	-19.63	0.00	-388.50	0.00	388.50	1658.80	391.84	731.85	763.75	106.16	-8.872	0.000	0.518
132.00	-11.02	-19.48	0.00	-349.24	0.00	349.24	1617.14	382.00	695.54	725.61	109.90	-9.019	0.000	0.491
134.00	-10.74	-19.33	0.00	-310.29	0.00	310.29	1575.47	372.16	660.17	688.45	113.69	-9.161	0.000	0.460
136.00	-10.46	-19.18	0.00	-271.63	0.00	271.63	1533.81	362.32	625.71	652.26	117.54	-9.296	0.000	0.426
138.00	-10.21	-19.02	0.00	-233.28	0.00	233.28	1492.14	352.47	592.18	617.05	121.45	-9.423	0.000	0.388
139.00	-7.35	-13.19	0.00	-214.26	0.00	214.26	1471.31	347.55	575.76	599.82	123.42	-9.484	0.000	0.364
140.00	-7.24	-13.12	0.00	-201.07	0.00	201.07	1450.48	342.63	559.57	582.82	125.40	-9.544	0.000	0.351
142.00	-7.03	-12.97	0.00	-174.84	0.00	174.84	1408.82	332.79	527.89	549.57	129.40	-9.656	0.000	0.325
144.00	-6.84	-12.83	0.00	-148.89	0.00	148.89	1367.15	322.95	497.12	517.29	133.45	-9.761	0.000	0.294
146.00	-6.64	-12.69	0.00	-123.22	0.00	123.22	1325.49	313.11	467.29	485.99	137.54	-9.858	0.000	0.260
148.00	-4.30	-7.66	0.00	-93.29	0.00	93.29	1283.82	303.27	438.37	455.66	141.67	-9.944	0.000	0.209
148.25	-4.28	-7.65	0.00	-91.38	0.00	91.38	1278.61	302.03	434.82	451.94	142.19	-9.954	0.000	0.206
150.00	-4.05	-7.51	0.00	-77.99	0.00	77.99	1242.16	293.42	410.38	426.31	145.83	-10.018	0.000	0.187
150.50	-3.99	-7.48	0.00	-74.24	0.00	74.24	761.15	179.80	256.82	268.81	146.88	-10.036	0.000	0.283
152.00	-3.91	-7.38	0.00	-63.02	0.00	63.02	742.40	175.37	244.32	255.66	150.02	-10.086	0.000	0.254
154.00	-3.80	-7.26	0.00	-48.26	0.00	48.26	717.40	169.47	228.14	238.64	154.25	-10.175	0.000	0.209
156.00	-3.70	-7.14	0.00	-33.74	0.00	33.74	692.41	163.56	212.52	222.21	158.50	-10.248	0.000	0.159
158.00	-3.60	-7.02	0.00	-19.46	0.00	19.46	667.41	157.66	197.45	206.36	162.79	-10.300	0.000	0.102
159.00	0.00	-6.27	0.00	-12.43	0.00	12.43	654.91	154.70	190.13	198.65	164.93	-10.318	0.000	0.064

Wind Loading - Shaft

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 27

Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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	29.140	32.05	539.08	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	29.140	32.05	533.84	0.730	0.000	2.00	9.802	7.16	229.4	0.0	419.5
4.00		1.00	0.85	29.140	32.05	528.60	0.730	0.000	2.00	9.706	7.09	227.1	0.0	415.4
6.00		1.00	0.85	29.140	32.05	523.36	0.730	0.000	2.00	9.610	7.02	224.9	0.0	411.2
8.00		1.00	0.85	29.140	32.05	518.13	0.730	0.000	2.00	9.515	6.95	222.6	0.0	407.1
10.00		1.00	0.85	29.140	32.05	512.89	0.730	0.000	2.00	9.419	6.88	220.4	0.0	403.0
12.00		1.00	0.85	29.140	32.05	507.65	0.730	0.000	2.00	9.323	6.81	218.2	0.0	398.9
14.00		1.00	0.85	29.140	32.05	502.42	0.730	0.000	2.00	9.228	6.74	215.9	0.0	394.8
16.00		1.00	0.87	29.878	32.87	503.44	0.730	0.000	2.00	9.132	6.67	219.1	0.0	390.6
18.00		1.00	0.89	30.586	33.64	504.01	0.730	0.000	2.00	9.036	6.60	221.9	0.0	386.5
20.00		1.00	0.91	31.238	34.36	503.92	0.730	0.000	2.00	8.941	6.53	224.3	0.0	382.4
22.00		1.00	0.93	31.842	35.03	503.30	0.730	0.000	2.00	8.845	6.46	226.2	0.0	378.3
24.00		1.00	0.95	32.405	35.65	502.21	0.730	0.000	2.00	8.749	6.39	227.7	0.0	374.1
26.00		1.00	0.96	32.935	36.23	500.73	0.730	0.000	2.00	8.654	6.32	228.9	0.0	370.0
28.00		1.00	0.98	33.434	36.78	498.90	0.730	0.000	2.00	8.558	6.25	229.8	0.0	365.9
30.00		1.00	0.99	33.907	37.30	496.76	0.730	0.000	2.00	8.462	6.18	230.4	0.0	361.8
32.00		1.00	1.00	34.356	37.79	494.36	0.730	0.000	2.00	8.366	6.11	230.8	0.0	357.7
34.00		1.00	1.01	34.784	38.26	491.71	0.730	0.000	2.00	8.271	6.04	231.0	0.0	353.5
36.00		1.00	1.03	35.193	38.71	488.84	0.730	0.000	2.00	8.175	5.97	231.0	0.0	349.4
38.00		1.00	1.04	35.586	39.14	485.76	0.730	0.000	2.00	8.079	5.90	230.9	0.0	345.3
40.00		1.00	1.05	35.962	39.56	482.51	0.730	0.000	2.00	7.984	5.83	230.6	0.0	341.2
42.00		1.00	1.06	36.325	39.96	479.09	0.730	0.000	2.00	7.888	5.76	230.1	0.0	337.0
44.00		1.00	1.07	36.674	40.34	475.51	0.730	0.000	2.00	7.792	5.69	229.5	0.0	332.9
46.00	Appurtenance(s)	1.00	1.08	37.011	40.71	471.79	0.730	0.000	2.00	7.697	5.62	228.7	0.0	328.8
47.50	Bot - Section 2	1.00	1.09	37.257	40.98	468.91	0.730	0.000	1.50	5.710	4.17	170.8	0.0	243.9
48.00		1.00	1.09	37.338	41.07	467.94	0.730	0.000	0.50	1.923	1.40	57.7	0.0	162.9
50.00		1.00	1.10	37.653	41.42	463.96	0.730	0.000	2.00	7.632	5.57	230.8	0.0	646.6
52.00		1.00	1.11	37.959	41.76	459.86	0.730	0.000	2.00	7.537	5.50	229.7	0.0	638.3
53.25	Top - Section 1	1.00	1.11	38.146	41.96	457.25	0.730	0.000	1.25	4.662	3.40	142.8	0.0	394.8
54.00		1.00	1.12	38.257	42.08	463.62	0.730	0.000	0.75	2.779	2.03	85.4	0.0	118.7
56.00		1.00	1.12	38.545	42.40	459.34	0.730	0.000	2.00	7.345	5.36	227.3	0.0	313.7
58.00		1.00	1.13	38.826	42.71	454.97	0.730	0.000	2.00	7.249	5.29	226.0	0.0	309.5
60.00		1.00	1.14	39.100	43.01	450.50	0.730	0.000	2.00	7.154	5.22	224.6	0.0	305.4
62.00		1.00	1.15	39.366	43.30	445.95	0.730	0.000	2.00	7.058	5.15	223.1	0.0	301.3
64.00		1.00	1.16	39.626	43.59	441.31	0.730	0.000	2.00	6.962	5.08	221.5	0.0	297.2
66.00		1.00	1.16	39.880	43.87	436.59	0.730	0.000	2.00	6.867	5.01	219.9	0.0	293.1
68.00		1.00	1.17	40.127	44.14	431.80	0.730	0.000	2.00	6.771	4.94	218.2	0.0	288.9
70.00		1.00	1.18	40.369	44.41	426.94	0.730	0.000	2.00	6.675	4.87	216.4	0.0	284.8
72.00		1.00	1.18	40.606	44.67	422.00	0.730	0.000	2.00	6.580	4.80	214.5	0.0	280.7
74.00		1.00	1.19	40.838	44.92	417.01	0.730	0.000	2.00	6.484	4.73	212.6	0.0	276.6
76.00		1.00	1.20	41.065	45.17	411.95	0.730	0.000	2.00	6.388	4.66	210.7	0.0	272.4
78.00		1.00	1.20	41.287	45.42	406.83	0.730	0.000	2.00	6.293	4.59	208.6	0.0	268.3
79.00	Appurtenance(s)	1.00	1.21	41.397	45.54	404.24	0.730	0.000	1.00	3.110	2.27	103.4	0.0	132.6
80.00		1.00	1.21	41.505	45.66	401.65	0.730	0.000	1.00	3.086	2.25	102.9	0.0	131.6
82.00		1.00	1.22	41.719	45.89	396.41	0.730	0.000	2.00	6.101	4.45	204.4	0.0	260.1
84.00		1.00	1.22	41.928	46.12	391.13	0.730	0.000	2.00	6.005	4.38	202.2	0.0	256.0
86.00		1.00	1.23	42.134	46.35	385.79	0.730	0.000	2.00	5.910	4.31	200.0	0.0	251.8

Wind Loading - Shaft

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023



Page: 28

88.00	1.00	1.23	42.336	46.57	380.40	0.730	0.000	2.00	5.814	4.24	197.7	0.0	247.7		
90.00	1.00	1.24	42.535	46.79	374.96	0.730	0.000	2.00	5.718	4.17	195.3	0.0	243.6		
92.00	1.00	1.25	42.730	47.00	369.48	0.730	0.000	2.00	5.623	4.10	192.9	0.0	239.5		
94.00	1.00	1.25	42.922	47.21	363.95	0.730	0.000	2.00	5.527	4.03	190.5	0.0	235.3		
96.00	1.00	1.26	43.110	47.42	358.38	0.730	0.000	2.00	5.431	3.96	188.0	0.0	231.2		
97.00 Bot - Section 3	1.00	1.26	43.204	47.52	355.58	0.730	0.000	1.00	2.680	1.96	93.0	0.0	114.1		
98.00	1.00	1.26	43.296	47.63	352.77	0.730	0.000	1.00	2.709	1.98	94.2	0.0	209.3		
100.00	1.00	1.27	43.479	47.83	347.11	0.730	0.000	2.00	5.346	3.90	186.6	0.0	413.0		
101.00 Top - Section 2	1.00	1.27	43.569	47.93	344.27	0.730	0.000	1.00	2.637	1.93	92.3	0.0	203.7		
102.00	1.00	1.27	43.659	48.02	348.51	0.730	0.000	1.00	2.613	1.91	91.6	0.0	92.9		
104.00	1.00	1.28	43.836	48.22	342.79	0.730	0.000	2.00	5.154	3.76	181.4	0.0	183.1		
106.00	1.00	1.28	44.010	48.41	337.04	0.730	0.000	2.00	5.059	3.69	178.8	0.0	179.7		
108.00	1.00	1.29	44.182	48.60	331.24	0.730	0.000	2.00	4.963	3.62	176.1	0.0	176.3		
109.00 Appurtenance(s)	1.00	1.29	44.267	48.69	328.34	0.730	0.000	1.00	2.446	1.79	86.9	0.0	86.8		
110.00	1.00	1.29	44.352	48.79	325.42	0.730	0.000	1.00	2.422	1.77	86.2	0.0	86.0		
112.00	1.00	1.30	44.519	48.97	319.56	0.730	0.000	2.00	4.772	3.48	170.6	0.0	169.4		
114.00	1.00	1.30	44.683	49.15	313.66	0.730	0.000	2.00	4.676	3.41	167.8	0.0	166.0		
116.00	1.00	1.31	44.846	49.33	307.74	0.730	0.000	2.00	4.580	3.34	164.9	0.0	162.5		
118.00	1.00	1.31	45.006	49.51	301.78	0.730	0.000	2.00	4.485	3.27	162.1	0.0	159.1		
120.00	1.00	1.32	45.164	49.68	295.79	0.730	0.000	2.00	4.389	3.20	159.2	0.0	155.6		
122.00	1.00	1.32	45.321	49.85	289.77	0.730	0.000	2.00	4.293	3.13	156.2	0.0	152.2		
124.00	1.00	1.33	45.475	50.02	283.72	0.730	0.000	2.00	4.197	3.06	153.3	0.0	148.8		
126.00	1.00	1.33	45.627	50.19	277.64	0.730	0.000	2.00	4.102	2.99	150.3	0.0	145.3		
128.00	1.00	1.34	45.777	50.35	271.53	0.730	0.000	2.00	4.006	2.92	147.3	0.0	141.9		
130.00 Appurtenance(s)	1.00	1.34	45.926	50.52	265.40	0.730	0.000	2.00	3.910	2.85	144.2	0.0	138.5		
132.00	1.00	1.34	46.072	50.68	259.23	0.730	0.000	2.00	3.815	2.78	141.1	0.0	135.0		
134.00	1.00	1.35	46.217	50.84	253.05	0.730	0.000	2.00	3.719	2.71	138.0	0.0	131.6		
136.00	1.00	1.35	46.361	51.00	246.83	0.730	0.000	2.00	3.623	2.65	134.9	0.0	128.2		
138.00	1.00	1.36	46.502	51.15	240.59	0.730	0.000	2.00	3.528	2.58	131.7	0.0	124.7		
139.00 Appurtenance(s)	1.00	1.36	46.573	51.23	237.46	0.730	0.000	1.00	1.728	1.26	64.6	0.0	61.1		
140.00	1.00	1.36	46.643	51.31	234.33	0.730	0.000	1.00	1.704	1.24	63.8	0.0	60.2		
142.00	1.00	1.36	46.781	51.46	228.04	0.730	0.000	2.00	3.336	2.44	125.3	0.0	117.9		
144.00	1.00	1.37	46.918	51.61	221.73	0.730	0.000	2.00	3.241	2.37	122.1	0.0	114.4		
146.00	1.00	1.37	47.054	51.76	215.40	0.730	0.000	2.00	3.145	2.30	118.8	0.0	111.0		
148.00 Appurtenance(s)	1.00	1.38	47.188	51.91	209.04	0.730	0.000	2.00	3.049	2.23	115.5	0.0	107.6		
148.25 Bot - Section 4	1.00	1.38	47.204	51.92	208.24	0.730	0.000	0.25	0.374	0.27	14.2	0.0	13.2		
150.00	1.00	1.38	47.320	52.05	202.66	0.730	0.000	1.75	2.635	1.92	100.1	0.0	147.1		
150.50 Top - Section 3	1.00	1.38	47.353	52.09	201.06	0.730	0.000	0.50	0.739	0.54	28.1	0.0	41.2		
152.00	1.00	1.38	47.451	52.20	200.69	0.730	0.000	1.50	2.182	1.59	83.1	0.0	46.5		
154.00	1.00	1.39	47.581	52.34	194.27	0.730	0.000	2.00	2.826	2.06	108.0	0.0	60.2		
156.00	1.00	1.39	47.710	52.48	187.83	0.730	0.000	2.00	2.730	1.99	104.6	0.0	58.1		
158.00	1.00	1.40	47.837	52.62	181.37	0.730	0.000	2.00	2.634	1.92	101.2	0.0	56.1		
159.00 Appurtenance(s)	1.00	1.40	47.900	52.69	178.13	0.730	0.000	1.00	1.281	0.94	49.3	0.0	27.3		
Totals:								159.00				15,114.6			21,357.2

Discrete Appurtenance Forces

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023

Page: 29



Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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	159.00	Decibel DB404-B - Omni	1	48.026	52.829	0.90	0.90	1.35	12.60	0.000	2.000	71.32	0.00	142.64
2	159.00	Powerwave 7770	3	48.026	52.829	0.66	0.90	11.41	94.50	0.000	2.000	602.88	0.00	1205.77
3	159.00	Powerwave Technologies	6	48.026	52.829	0.45	0.90	3.48	76.14	0.000	2.000	184.00	0.00	368.00
4	159.00	Raycap DC6-48-60-18-8F	2	48.026	52.829	0.90	0.90	1.66	59.04	0.000	2.000	87.48	0.00	174.97
5	159.00	Site Pro 1 -	1	48.026	52.829	1.00	1.00	48.00	2380.50	0.000	2.000	2535.77	0.00	5071.54
6	159.00	Ericsson RRUS 32 B2	3	48.026	52.829	0.60	0.90	4.96	143.10	0.000	2.000	261.85	0.00	523.71
7	159.00	Powerwave	3	48.026	52.829	0.68	0.90	16.52	143.10	0.000	2.000	872.94	0.00	1745.88
8	159.00	Ericsson RRUS 11-700	3	48.026	52.829	0.60	0.90	4.56	137.70	0.000	2.000	240.83	0.00	481.66
9	159.00	Quintel QS66512-2	3	48.026	52.829	0.83	0.90	20.19	299.70	0.000	2.000	1066.87	0.00	2133.74
10	159.00	Kaelus DBC0061F1V51-2	3	48.026	52.829	0.45	0.90	0.58	49.41	0.000	2.000	30.67	0.00	61.33
11	159.00	Ericsson RRUS 32 B30	3	48.026	52.829	0.60	0.90	4.96	162.00	0.000	2.000	261.85	0.00	523.71
12	148.00	RFS - APXVTM14-C-I20 -	3	47.320	52.052	0.59	0.75	11.27	151.20	0.000	2.000	586.59	0.00	1173.19
13	148.00	Alcatel Lucent -	3	47.320	52.052	0.50	0.75	6.11	189.00	0.000	2.000	317.80	0.00	635.60
14	148.00	RFS - APXVSP18-C-A20	3	47.320	52.052	0.62	0.75	15.72	286.20	0.000	2.000	818.49	0.00	1636.98
15	148.00	SitePro HRK-12 Handrail	1	47.188	51.906	1.00	1.00	6.75	235.55	0.000	0.000	350.37	0.00	0.00
16	148.00	Low Profile Platform	1	47.188	51.906	1.00	1.00	35.00	1080.00	0.000	0.000	1816.72	0.00	0.00
17	148.00	Alcatel Lucent - 1900 MHz	3	47.320	52.052	0.50	0.75	5.73	118.80	0.000	2.000	298.18	0.00	596.36
18	148.00	Alcatel Lucent - 800 MHz	3	47.320	52.052	0.50	0.75	3.75	143.10	0.000	2.000	195.39	0.00	390.77
19	148.00	Alcatel Lucent - 800 MHz	3	47.320	52.052	0.38	0.75	0.88	23.76	0.000	2.000	45.68	0.00	91.35
20	148.00	RFS - ACU-A20-N - RET	4	47.320	52.052	0.38	0.75	0.21	3.60	0.000	2.000	10.93	0.00	21.86
21	139.00	LP Platform w/ Handrails	1	46.573	51.230	1.00	1.00	34.00	1440.00	0.000	0.000	1741.82	0.00	0.00
22	139.00	4415 B66A	3	46.573	51.230	0.38	0.75	2.09	119.07	0.000	0.000	107.20	0.00	0.00
23	139.00	4424 B25	3	46.573	51.230	0.50	0.75	3.35	213.30	0.000	0.000	171.45	0.00	0.00
24	139.00	4449 B71 + B85	3	46.573	51.230	0.50	0.75	2.97	197.64	0.000	0.000	152.14	0.00	0.00
25	139.00	RFS -	3	46.573	51.230	0.55	0.75	33.24	273.78	0.000	0.000	1703.10	0.00	0.00
26	139.00	EMS - FR90-16-XXDP -	3	46.573	51.230	0.51	0.75	6.67	48.60	0.000	0.000	341.74	0.00	0.00
27	139.00	RFS -	3	46.573	51.230	0.46	0.75	9.22	109.89	0.000	0.000	472.39	0.00	0.00
28	139.00	AIR6449 B41	3	46.573	51.230	0.53	0.75	9.03	278.10	0.000	0.000	462.39	0.00	0.00
29	139.00	RFS -	3	46.573	51.230	0.38	0.75	1.32	42.80	0.000	0.000	67.43	0.00	0.00
30	139.00	Andrew - ATSBT-TOP-FM	3	46.573	51.230	0.38	0.75	0.23	4.86	0.000	0.000	11.53	0.00	0.00
31	130.00	Samsung VZS01	3	45.926	50.518	0.52	0.75	7.40	235.17	0.000	0.000	373.96	0.00	0.00
32	130.00	Andrew JAHH-45B-R3B	2	45.926	50.518	0.55	0.75	12.48	163.80	0.000	0.000	630.62	0.00	0.00
33	130.00	Andrew JAHH-65B-R3B	4	45.926	50.518	0.62	0.75	22.68	227.88	0.000	0.000	1145.95	0.00	0.00
34	130.00	Commscope	3	45.926	50.518	0.72	0.75	1.21	54.00	0.000	0.000	61.11	0.00	0.00
35	130.00	Samsung B5/B13	3	45.926	50.518	0.50	0.75	2.83	227.88	0.000	0.000	143.17	0.00	0.00
36	130.00	Samsung B2/B66A	3	45.926	50.518	0.50	0.75	2.83	189.81	0.000	0.000	143.17	0.00	0.00
37	130.00	RFS DB-C1-12C-24AB-OZ	1	45.852	50.437	0.75	0.75	3.04	28.80	0.000	-1.000	153.58	0.00	-153.58
38	130.00	Low Profile Platform	1	45.926	50.518	1.00	1.00	24.80	1080.00	0.000	0.000	1252.85	0.00	0.00
39	130.00	Kaelus BSF0020F3V1-1	4	45.926	50.518	0.49	0.75	1.87	63.36	0.000	0.000	94.57	0.00	0.00
40	130.00	Mount pipes	15	45.926	50.518	0.75	0.75	10.91	405.00	0.000	0.000	551.28	0.00	0.00
41	130.00	Antel LPA-80063/6CF_5	6	45.926	50.518	0.71	0.75	41.00	145.80	0.000	0.000	2071.11	0.00	0.00
42	109.00	Sinclair SCL329-HL -	1	44.728	49.201	1.00	1.00	2.22	9.36	0.000	5.550	109.23	0.00	606.21
43	109.00	4 ft. Standoff	1	44.267	48.694	1.00	1.00	3.50	47.99	0.000	0.000	170.43	0.00	0.00
44	79.00	Sinclair SCL329-HL -	1	41.985	46.184	1.00	1.00	2.22	9.36	0.000	5.550	102.53	0.00	569.03
45	79.00	4 ft Standoff	1	41.397	45.536	1.00	1.00	3.50	47.99	0.000	0.000	159.38	0.00	0.00
46	46.00	4 ft Standoff	1	37.011	40.713	1.00	1.00	3.50	47.99	0.000	0.000	142.49	0.00	0.00
47	46.00	Decibel 26DB - GPS	1	37.497	41.246	1.00	1.00	0.16	9.00	0.000	3.000	6.60	0.00	19.80

Discrete Appurtenance Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Struct Class: II	Page: 30



Totals:	11,510.22	23,199.84
----------------	------------------	------------------

Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 31
	Struct Class: II	



Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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
2.00		229.35	511.19	0.00	0.00
4.00		227.11	507.07	0.00	0.00
6.00		224.87	502.95	0.00	0.00
8.00		222.64	498.83	0.00	0.00
10.00		220.40	494.71	0.00	0.00
12.00		218.16	490.58	0.00	0.00
14.00		215.92	486.46	0.00	0.00
16.00		219.10	482.34	0.00	0.00
18.00		221.94	478.22	0.00	0.00
20.00		224.26	474.10	0.00	0.00
22.00		226.15	469.97	0.00	0.00
24.00		227.67	465.85	0.00	0.00
26.00		228.86	461.73	0.00	0.00
28.00		229.76	457.61	0.00	0.00
30.00		230.40	453.49	0.00	0.00
32.00		230.81	449.36	0.00	0.00
34.00		231.02	445.24	0.00	0.00
36.00		231.03	441.12	0.00	0.00
38.00		230.87	437.00	0.00	0.00
40.00		230.55	432.88	0.00	0.00
42.00		230.08	428.76	0.00	0.00
44.00		229.48	424.63	0.00	0.00
46.00	(2) attachments	377.84	477.50	0.00	19.80
47.50		170.82	312.68	0.00	0.00
48.00		57.66	185.86	0.00	0.00
50.00		230.76	738.15	0.00	0.00
52.00		229.72	729.76	0.00	0.00
53.25		142.80	451.92	0.00	0.00
54.00		85.37	152.97	0.00	0.00
56.00		227.35	405.08	0.00	0.00
58.00		226.02	400.96	0.00	0.00
60.00		224.61	396.84	0.00	0.00
62.00		223.11	392.72	0.00	0.00
64.00		221.54	388.60	0.00	0.00
66.00		219.89	384.47	0.00	0.00
68.00		218.18	380.35	0.00	0.00
70.00		216.39	376.23	0.00	0.00
72.00		214.54	372.11	0.00	0.00
74.00		212.63	367.99	0.00	0.00
76.00		210.65	363.86	0.00	0.00
78.00		208.62	359.74	0.00	0.00
79.00	(2) attachments	365.30	235.67	0.00	569.03
80.00		102.87	176.83	0.00	0.00
82.00		204.39	350.56	0.00	0.00
84.00		202.20	346.44	0.00	0.00
86.00		199.95	342.32	0.00	0.00

Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 32

88.00		197.66	338.20	0.00	0.00
90.00		195.32	334.08	0.00	0.00
92.00		192.93	329.95	0.00	0.00
94.00		190.50	325.83	0.00	0.00
96.00		188.02	321.71	0.00	0.00
97.00		92.97	159.31	0.00	0.00
98.00		94.17	254.56	0.00	0.00
100.00		186.64	503.46	0.00	0.00
101.00		92.26	248.90	0.00	0.00
102.00		91.61	138.09	0.00	0.00
104.00		181.43	273.61	0.00	0.00
106.00		178.78	270.17	0.00	0.00
108.00		176.08	266.74	0.00	0.00
109.00	(2) attachments	366.59	189.43	0.00	606.21
110.00		86.25	130.75	0.00	0.00
112.00		170.58	258.93	0.00	0.00
114.00		167.78	255.50	0.00	0.00
116.00		164.94	252.06	0.00	0.00
118.00		162.07	248.63	0.00	0.00
120.00		159.17	245.19	0.00	0.00
122.00		156.24	241.76	0.00	0.00
124.00		153.28	238.32	0.00	0.00
126.00		150.28	234.89	0.00	0.00
128.00		147.26	231.45	0.00	0.00
130.00	(45) attachments	6765.59	3049.52	0.00	-153.58
132.00		141.13	199.85	0.00	0.00
134.00		138.02	196.42	0.00	0.00
136.00		134.89	192.98	0.00	0.00
138.00		131.73	189.55	0.00	0.00
139.00	(28) attachments	5295.81	2821.52	0.00	0.00
140.00		63.82	77.94	0.00	0.00
142.00		125.33	153.30	0.00	0.00
144.00		122.09	149.87	0.00	0.00
146.00		118.83	146.43	0.00	0.00
148.00	(24) attachments	4555.69	2374.21	0.00	4546.11
148.25		14.19	17.63	0.00	0.00
150.00		100.11	178.08	0.00	0.00
150.50		28.11	48.39	0.00	0.00
152.00		83.14	67.91	0.00	0.00
154.00		107.96	88.75	0.00	0.00
156.00		104.59	86.68	0.00	0.00
158.00		101.19	84.62	0.00	0.00
159.00	(31) attachments	6265.75	3599.33	0.00	12432.93
Totals:		38,314.40	39,398.24	0.00	18,020.50

Linear Appurtenance Segment Forces (Factored)

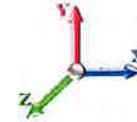
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 33

Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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)
2.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	29.140	0.00	0.29
2.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.047	0.000	29.140	0.00	0.49
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.047	0.000	29.140	0.00	1.87
2.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.047	0.000	29.140	0.00	0.94
2.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	29.140	0.00	0.94
2.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.047	0.000	29.140	0.00	0.29
4.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	0.29
4.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	29.140	0.00	0.49
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	29.140	0.00	1.87
4.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	29.140	0.00	0.94
4.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	0.94
4.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.048	0.000	29.140	0.00	0.29
6.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	0.29
6.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	29.140	0.00	0.49
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	29.140	0.00	1.87
6.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	29.140	0.00	0.94
6.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	29.140	0.00	0.94
6.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.048	0.000	29.140	0.00	0.29
8.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	0.29
8.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	29.140	0.00	0.49
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	29.140	0.00	1.87
8.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	29.140	0.00	0.94
8.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	0.94
8.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.049	0.000	29.140	0.00	0.29
10.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	0.29
10.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	29.140	0.00	0.49
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	29.140	0.00	1.87
10.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	29.140	0.00	0.94
10.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	29.140	0.00	0.94
10.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.049	0.000	29.140	0.00	0.29
12.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	0.29
12.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	29.140	0.00	0.49
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	29.140	0.00	1.87
12.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	29.140	0.00	0.94
12.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	0.94
12.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.050	0.000	29.140	0.00	0.29
14.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	0.29
14.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	29.140	0.00	0.49
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	29.140	0.00	1.87
14.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	29.140	0.00	0.94
14.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	29.140	0.00	0.94
14.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.050	0.000	29.140	0.00	0.29
16.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	29.878	0.00	0.29
16.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	29.878	0.00	0.49
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	29.878	0.00	1.87
16.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	29.878	0.00	0.94
16.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	29.878	0.00	0.94

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023

Page: 34



Topography: 1

Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Exposed Ca	Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
16.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.051	0.000	29.878	0.00	0.29
18.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	30.586	0.00	0.29
18.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	30.586	0.00	0.49
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	30.586	0.00	1.87
18.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	30.586	0.00	0.94
18.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	30.586	0.00	0.94
18.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.051	0.000	30.586	0.00	0.29
20.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.238	0.00	0.29
20.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	31.238	0.00	0.49
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	31.238	0.00	1.87
20.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	31.238	0.00	0.94
20.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.238	0.00	0.94
20.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.052	0.000	31.238	0.00	0.29
22.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.842	0.00	0.29
22.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	31.842	0.00	0.49
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	31.842	0.00	1.87
22.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	31.842	0.00	0.94
22.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	31.842	0.00	0.94
22.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.052	0.000	31.842	0.00	0.29
24.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.405	0.00	0.29
24.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	32.405	0.00	0.49
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	32.405	0.00	1.87
24.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	32.405	0.00	0.94
24.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.405	0.00	0.94
24.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.053	0.000	32.405	0.00	0.29
26.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.935	0.00	0.29
26.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	32.935	0.00	0.49
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	32.935	0.00	1.87
26.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	32.935	0.00	0.94
26.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	32.935	0.00	0.94
26.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.053	0.000	32.935	0.00	0.29
28.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	33.434	0.00	0.29
28.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	33.434	0.00	0.49
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	33.434	0.00	1.87
28.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	33.434	0.00	0.94
28.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	33.434	0.00	0.94
28.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.054	0.000	33.434	0.00	0.29
30.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	33.907	0.00	0.29
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	33.907	0.00	0.49
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	33.907	0.00	1.87
30.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	33.907	0.00	0.94
30.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	33.907	0.00	0.94
30.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.055	0.000	33.907	0.00	0.29
32.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	34.356	0.00	0.29
32.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	34.356	0.00	0.49
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	34.356	0.00	1.87
32.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	34.356	0.00	0.94

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A

Code: TIA-222-H

8/1/2023

Site Name: Monroe Turnpike

Exposure: C

Height: 159.00 (ft)

Crest Height: 0.00

Base Elev: 1.000 (ft)

Site Class: D - Default

Gh: 1.1

Topography: 1

Struct Class: II

Page: 35



Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 29

Dead Load Factor 0.90

Wind Load Factor 1.00



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)
32.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	34.356	0.00	0.94
32.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.055	0.000	34.356	0.00	0.29
34.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	34.784	0.00	0.29
34.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	34.784	0.00	0.49
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	34.784	0.00	1.87
34.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	34.784	0.00	0.94
34.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	34.784	0.00	0.94
34.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.056	0.000	34.784	0.00	0.29
36.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	35.193	0.00	0.29
36.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	35.193	0.00	0.49
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	35.193	0.00	1.87
36.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	35.193	0.00	0.94
36.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	35.193	0.00	0.94
36.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.056	0.000	35.193	0.00	0.29
38.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	35.586	0.00	0.29
38.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.057	0.000	35.586	0.00	0.49
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.057	0.000	35.586	0.00	1.87
38.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.057	0.000	35.586	0.00	0.94
38.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	35.586	0.00	0.94
38.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.057	0.000	35.586	0.00	0.29
40.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	35.962	0.00	0.29
40.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.058	0.000	35.962	0.00	0.49
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.058	0.000	35.962	0.00	1.87
40.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.058	0.000	35.962	0.00	0.94
40.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	35.962	0.00	0.94
40.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.058	0.000	35.962	0.00	0.29
42.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.325	0.00	0.29
42.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	36.325	0.00	0.49
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	36.325	0.00	1.87
42.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	36.325	0.00	0.94
42.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.325	0.00	0.94
42.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.059	0.000	36.325	0.00	0.29
44.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.674	0.00	0.29
44.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	36.674	0.00	0.49
44.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	36.674	0.00	1.87
44.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	36.674	0.00	0.94
44.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.674	0.00	0.94
44.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.059	0.000	36.674	0.00	0.29
46.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.011	0.00	0.29
46.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	37.011	0.00	0.49
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	37.011	0.00	1.87
46.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.060	0.000	37.011	0.00	0.94
46.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.011	0.00	0.94
46.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.060	0.000	37.011	0.00	0.29
47.50	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	37.257	0.00	0.22
47.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.061	0.000	37.257	0.00	0.37
47.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.061	0.000	37.257	0.00	1.40

Linear Appurtenance Segment Forces (Factored)

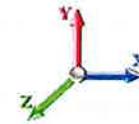
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 29

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)
47.50	7/8"	Yes	1.50	0.000	1.11	0.14	0.00	0.061	0.000	37.257	0.00	0.70
47.50	7/8"	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	37.257	0.00	0.70
47.50	1/2"	Yes	1.50	0.000	0.65	0.08	0.00	0.061	0.000	37.257	0.00	0.22
48.00	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	37.338	0.00	0.07
48.00	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.061	0.000	37.338	0.00	0.12
48.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.061	0.000	37.338	0.00	0.47
48.00	7/8"	Yes	0.50	0.000	1.11	0.05	0.00	0.061	0.000	37.338	0.00	0.23
48.00	7/8"	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	37.338	0.00	0.23
48.00	1/2"	Yes	0.50	0.000	0.65	0.03	0.00	0.061	0.000	37.338	0.00	0.07
50.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	37.653	0.00	0.29
50.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	37.653	0.00	0.49
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	37.653	0.00	1.87
50.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	37.653	0.00	0.94
50.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	37.653	0.00	0.94
50.00	1/2"	Yes	1.00	0.000	0.65	0.05	0.00	0.054	0.000	37.653	0.00	0.14
52.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	37.959	0.00	0.29
52.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	37.959	0.00	0.49
52.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	37.959	0.00	1.87
52.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	37.959	0.00	0.94
52.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	37.959	0.00	0.94
53.25	1/2" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	38.146	0.00	0.18
53.25	Safety Cable	Yes	1.25	0.000	0.38	0.04	0.00	0.048	0.000	38.146	0.00	0.31
53.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.07	0.00	0.048	0.000	38.146	0.00	1.17
53.25	7/8"	Yes	1.25	0.000	1.11	0.12	0.00	0.048	0.000	38.146	0.00	0.59
53.25	7/8"	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	38.146	0.00	0.59
54.00	1/2" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	38.257	0.00	0.11
54.00	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.048	0.000	38.257	0.00	0.18
54.00	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.04	0.00	0.048	0.000	38.257	0.00	0.70
54.00	7/8"	Yes	0.75	0.000	1.11	0.07	0.00	0.048	0.000	38.257	0.00	0.35
54.00	7/8"	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	38.257	0.00	0.35
56.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	38.545	0.00	0.29
56.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	38.545	0.00	0.49
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	38.545	0.00	1.87
56.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	38.545	0.00	0.94
56.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	38.545	0.00	0.94
58.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	38.826	0.00	0.29
58.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	38.826	0.00	0.49
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	38.826	0.00	1.87
58.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	38.826	0.00	0.94
58.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	38.826	0.00	0.94
60.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	39.100	0.00	0.29
60.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	39.100	0.00	0.49
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	39.100	0.00	1.87
60.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	39.100	0.00	0.94
60.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	39.100	0.00	0.94
62.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	39.366	0.00	0.29
62.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	39.366	0.00	0.49

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 37

Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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)
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	39.366	0.00	1.87
62.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	39.366	0.00	0.94
62.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	39.366	0.00	0.94
64.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.626	0.00	0.29
64.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	39.626	0.00	0.49
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	39.626	0.00	1.87
64.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	39.626	0.00	0.94
64.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.626	0.00	0.94
66.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.880	0.00	0.29
66.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	39.880	0.00	0.49
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	39.880	0.00	1.87
66.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	39.880	0.00	0.94
66.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	39.880	0.00	0.94
68.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	40.127	0.00	0.29
68.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	40.127	0.00	0.49
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	40.127	0.00	1.87
68.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	40.127	0.00	0.94
68.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	40.127	0.00	0.94
70.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	40.369	0.00	0.29
70.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	40.369	0.00	0.49
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	40.369	0.00	1.87
70.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	40.369	0.00	0.94
70.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	40.369	0.00	0.94
72.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.606	0.00	0.29
72.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	40.606	0.00	0.49
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	40.606	0.00	1.87
72.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	40.606	0.00	0.94
72.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.606	0.00	0.94
74.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.838	0.00	0.29
74.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	40.838	0.00	0.49
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	40.838	0.00	1.87
74.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	40.838	0.00	0.94
74.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	40.838	0.00	0.94
76.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	41.065	0.00	0.29
76.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	41.065	0.00	0.49
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	41.065	0.00	1.87
76.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	41.065	0.00	0.94
76.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	41.065	0.00	0.94
78.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	41.287	0.00	0.29
78.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	41.287	0.00	0.49
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	41.287	0.00	1.87
78.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	41.287	0.00	0.94
78.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	41.287	0.00	0.94
79.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	41.397	0.00	0.14
79.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.057	0.000	41.397	0.00	0.25
79.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.057	0.000	41.397	0.00	0.94
79.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.057	0.000	41.397	0.00	0.47

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A

Code: TIA-222-H

8/1/2023

Site Name: Monroe Turnpike

Exposure: C

Height: 159.00 (ft)

Crest Height: 0.00

Base Elev: 1.000 (ft)

Site Class: D - Default

Gh: 1.1

Topography: 1

Struct Class: II

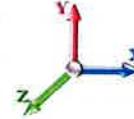
Page: 38



Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 29

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)
79.00	7/8"	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	41.397	0.00	0.47
80.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	41.505	0.00	0.14
80.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.057	0.000	41.505	0.00	0.25
80.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.057	0.000	41.505	0.00	0.94
80.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.057	0.000	41.505	0.00	0.47
82.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	41.719	0.00	0.29
82.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.058	0.000	41.719	0.00	0.49
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.058	0.000	41.719	0.00	1.87
82.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.058	0.000	41.719	0.00	0.94
84.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	41.928	0.00	0.29
84.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	41.928	0.00	0.49
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	41.928	0.00	1.87
84.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	41.928	0.00	0.94
86.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	42.134	0.00	0.29
86.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	42.134	0.00	0.49
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	42.134	0.00	1.87
86.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.060	0.000	42.134	0.00	0.94
88.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	42.336	0.00	0.29
88.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.061	0.000	42.336	0.00	0.49
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.061	0.000	42.336	0.00	1.87
88.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.061	0.000	42.336	0.00	0.94
90.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	42.535	0.00	0.29
90.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.062	0.000	42.535	0.00	0.49
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.062	0.000	42.535	0.00	1.87
90.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.062	0.000	42.535	0.00	0.94
92.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	42.730	0.00	0.29
92.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.063	0.000	42.730	0.00	0.49
92.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.063	0.000	42.730	0.00	1.87
92.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.063	0.000	42.730	0.00	0.94
94.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	42.922	0.00	0.29
94.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.064	0.000	42.922	0.00	0.49
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.064	0.000	42.922	0.00	1.87
94.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.064	0.000	42.922	0.00	0.94
96.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	43.110	0.00	0.29
96.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.065	0.000	43.110	0.00	0.49
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.065	0.000	43.110	0.00	1.87
96.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.065	0.000	43.110	0.00	0.94
97.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	43.204	0.00	0.14
97.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.066	0.000	43.204	0.00	0.25
97.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.066	0.000	43.204	0.00	0.94
97.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.066	0.000	43.204	0.00	0.47
98.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.067	0.000	43.296	0.00	0.14
98.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.067	0.000	43.296	0.00	0.25
98.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.067	0.000	43.296	0.00	0.94
98.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.067	0.000	43.296	0.00	0.47
100.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	43.479	0.00	0.29
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.067	0.000	43.479	0.00	0.49

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 29

Dead Load Factor 0.90
Wind Load Factor 1.00



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)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.067	0.000	43.479	0.00	1.87
100.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.067	0.000	43.479	0.00	0.94
100.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	43.569	0.00	0.14
101.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.068	0.000	43.569	0.00	0.25
101.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.068	0.000	43.569	0.00	0.94
101.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.068	0.000	43.569	0.00	0.47
102.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	43.659	0.00	0.14
102.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.068	0.000	43.659	0.00	0.25
102.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.068	0.000	43.659	0.00	0.94
102.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.068	0.000	43.659	0.00	0.47
104.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	43.836	0.00	0.29
104.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.069	0.000	43.836	0.00	0.49
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.069	0.000	43.836	0.00	1.87
104.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.069	0.000	43.836	0.00	0.94
106.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	44.010	0.00	0.29
106.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.070	0.000	44.010	0.00	0.49
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.070	0.000	44.010	0.00	1.87
106.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.070	0.000	44.010	0.00	0.94
108.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	44.182	0.00	0.29
108.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.071	0.000	44.182	0.00	0.49
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.071	0.000	44.182	0.00	1.87
108.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.071	0.000	44.182	0.00	0.94
109.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	44.267	0.00	0.14
109.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.072	0.000	44.267	0.00	0.25
109.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.072	0.000	44.267	0.00	0.94
109.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.072	0.000	44.267	0.00	0.47
110.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.035	0.000	44.352	0.00	0.14
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	44.352	0.00	0.25
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	44.352	0.00	0.94
112.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.035	0.000	44.519	0.00	0.29
112.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.035	0.000	44.519	0.00	0.49
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.035	0.000	44.519	0.00	1.87
114.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.036	0.000	44.683	0.00	0.29
114.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.036	0.000	44.683	0.00	0.49
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.036	0.000	44.683	0.00	1.87
116.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	44.846	0.00	0.29
116.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.037	0.000	44.846	0.00	0.49
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.037	0.000	44.846	0.00	1.87
118.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	45.006	0.00	0.29
118.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	45.006	0.00	0.49
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	45.006	0.00	1.87
120.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	45.164	0.00	0.29
120.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	45.164	0.00	0.49
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	45.164	0.00	1.87
122.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.039	0.000	45.321	0.00	0.29
122.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	45.321	0.00	0.49
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	45.321	0.00	1.87

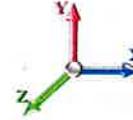
Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 40



Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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)
124.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.040	0.000	45.475	0.00	0.29
124.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.040	0.000	45.475	0.00	0.49
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.040	0.000	45.475	0.00	1.87
126.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.041	0.000	45.627	0.00	0.29
126.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.041	0.000	45.627	0.00	0.49
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.041	0.000	45.627	0.00	1.87
128.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.042	0.000	45.777	0.00	0.29
128.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.042	0.000	45.777	0.00	0.49
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.042	0.000	45.777	0.00	1.87
130.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.043	0.000	45.926	0.00	0.29
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.043	0.000	45.926	0.00	0.49
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.043	0.000	45.926	0.00	1.87
132.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.044	0.000	46.072	0.00	0.29
132.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.044	0.000	46.072	0.00	0.49
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.044	0.000	46.072	0.00	1.87
134.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.045	0.000	46.217	0.00	0.29
134.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.045	0.000	46.217	0.00	0.49
134.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.045	0.000	46.217	0.00	1.87
136.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.046	0.000	46.361	0.00	0.29
136.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.046	0.000	46.361	0.00	0.49
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.046	0.000	46.361	0.00	1.87
138.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	46.502	0.00	0.29
138.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	46.502	0.00	0.49
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	46.502	0.00	1.87
139.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	46.573	0.00	0.14
139.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	46.573	0.00	0.25
139.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	46.573	0.00	0.94
140.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	46.643	0.00	0.14
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	46.643	0.00	0.25
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	46.643	0.00	0.94
142.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	46.781	0.00	0.29
142.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	46.781	0.00	0.49
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	46.781	0.00	1.87
144.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	46.918	0.00	0.29
144.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	46.918	0.00	0.49
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	46.918	0.00	1.87
146.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	47.054	0.00	0.29
146.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	47.054	0.00	0.49
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	47.054	0.00	1.87
148.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	47.188	0.00	0.29
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	47.188	0.00	0.49
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	47.188	0.00	1.87
148.25	1/2" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.056	0.000	47.204	0.00	0.04
148.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.056	0.000	47.204	0.00	0.06
148.25	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.056	0.000	47.204	0.00	0.23
150.00	1/2" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.057	0.000	47.320	0.00	0.25
150.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.057	0.000	47.320	0.00	0.43

Linear Appurtenance Segment Forces (Factored)

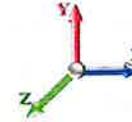
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 41

Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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)
150.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.057	0.000	47.320	0.00	1.64
150.50	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.058	0.000	47.353	0.00	0.07
150.50	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.058	0.000	47.353	0.00	0.12
150.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.058	0.000	47.353	0.00	0.47
152.00	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.058	0.000	47.451	0.00	0.22
152.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.058	0.000	47.451	0.00	0.37
152.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.058	0.000	47.451	0.00	1.40
154.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	47.581	0.00	0.29
154.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	47.581	0.00	0.49
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	47.581	0.00	1.87
156.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	47.710	0.00	0.29
156.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.062	0.000	47.710	0.00	0.49
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.062	0.000	47.710	0.00	1.87
158.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	47.837	0.00	0.29
158.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.064	0.000	47.837	0.00	0.49
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.064	0.000	47.837	0.00	1.87
159.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	47.900	0.00	0.14
159.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.066	0.000	47.900	0.00	0.25
159.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.066	0.000	47.900	0.00	0.94
Totals:											0.0	305.8

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 42



Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 29

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	-39.37	-38.34	0.00	-4576.9	0.00	4576.91	4389.95	1207.86	5794.89	5230.24	0.00	0.000	0.000	0.885
2.00	-38.80	-38.18	0.00	-4500.2	0.00	4500.22	4366.21	1196.05	5682.12	5150.75	0.02	-0.089	0.000	0.884
4.00	-38.23	-38.01	0.00	-4423.8	0.00	4423.87	4342.08	1184.24	5570.46	5071.39	0.08	-0.179	0.000	0.882
6.00	-37.67	-37.84	0.00	-4347.8	0.00	4347.86	4317.58	1172.43	5459.91	4992.14	0.17	-0.270	0.000	0.881
8.00	-37.11	-37.68	0.00	-4272.1	0.00	4272.18	4292.70	1160.62	5350.46	4913.05	0.30	-0.362	0.000	0.879
10.00	-36.55	-37.51	0.00	-4196.8	0.00	4196.83	4267.44	1148.80	5242.12	4834.10	0.48	-0.455	0.000	0.878
12.00	-36.00	-37.35	0.00	-4121.8	0.00	4121.81	4241.80	1136.99	5134.89	4755.32	0.69	-0.550	0.000	0.876
14.00	-35.46	-37.19	0.00	-4047.1	0.00	4047.11	4215.78	1125.18	5028.77	4676.73	0.94	-0.646	0.000	0.875
16.00	-34.91	-37.02	0.00	-3972.7	0.00	3972.74	4189.38	1113.37	4923.76	4598.33	1.23	-0.743	0.000	0.873
18.00	-34.38	-36.85	0.00	-3898.6	0.00	3898.69	4162.60	1101.56	4819.85	4520.13	1.56	-0.841	0.000	0.872
20.00	-33.84	-36.68	0.00	-3824.9	0.00	3824.98	4135.45	1089.75	4717.06	4442.16	1.94	-0.941	0.000	0.870
22.00	-33.31	-36.51	0.00	-3751.6	0.00	3751.62	4107.92	1077.94	4615.37	4364.42	2.36	-1.042	0.000	0.869
24.00	-32.78	-36.33	0.00	-3678.6	0.00	3678.61	4080.00	1066.13	4514.79	4286.93	2.81	-1.144	0.000	0.867
26.00	-32.26	-36.15	0.00	-3605.9	0.00	3605.96	4051.71	1054.32	4415.31	4209.70	3.32	-1.248	0.000	0.866
28.00	-31.74	-35.97	0.00	-3533.6	0.00	3533.66	4023.04	1042.51	4316.95	4132.74	3.86	-1.353	0.000	0.864
30.00	-31.23	-35.78	0.00	-3461.7	0.00	3461.73	3994.00	1030.70	4219.69	4056.08	4.45	-1.459	0.000	0.862
32.00	-30.72	-35.60	0.00	-3390.1	0.00	3390.16	3964.57	1018.89	4123.54	3979.71	5.09	-1.567	0.000	0.861
34.00	-30.21	-35.41	0.00	-3318.9	0.00	3318.96	3934.76	1007.08	4028.50	3903.66	5.77	-1.677	0.000	0.859
36.00	-29.71	-35.23	0.00	-3248.1	0.00	3248.13	3904.58	995.27	3934.57	3827.93	6.49	-1.787	0.000	0.857
38.00	-29.21	-35.04	0.00	-3177.6	0.00	3177.67	3874.01	983.46	3841.74	3752.55	7.27	-1.900	0.000	0.856
40.00	-28.71	-34.85	0.00	-3107.5	0.00	3107.59	3843.07	971.65	3750.03	3677.52	8.09	-2.014	0.000	0.854
42.00	-28.22	-34.67	0.00	-3037.8	0.00	3037.89	3811.75	959.84	3659.42	3602.86	8.96	-2.129	0.000	0.852
44.00	-27.74	-34.48	0.00	-2968.5	0.00	2968.56	3780.05	948.03	3569.92	3528.58	9.87	-2.246	0.000	0.850
46.00	-27.21	-34.13	0.00	-2899.5	0.00	2899.58	3747.97	936.22	3481.52	3454.69	10.84	-2.365	0.000	0.848
47.50	-26.87	-33.98	0.00	-2848.3	0.00	2848.39	3723.67	927.36	3415.96	3399.54	11.60	-2.456	0.000	0.846
48.00	-26.64	-33.95	0.00	-2831.4	0.00	2831.40	3715.52	924.41	3394.24	3381.21	11.86	-2.486	0.000	0.846
50.00	-25.84	-33.74	0.00	-2763.5	0.00	2763.51	3682.68	912.60	3308.06	3308.15	12.93	-2.609	0.000	0.844
52.00	-25.07	-33.52	0.00	-2696.0	0.00	2696.04	3649.47	900.79	3223.00	3235.53	14.04	-2.732	0.000	0.842
53.25	-24.59	-33.38	0.00	-2654.1	0.00	2654.14	3672.80	909.07	3282.55	3286.43	14.77	-2.811	0.000	0.816
54.00	-24.39	-33.32	0.00	-2629.1	0.00	2629.11	3660.35	904.64	3250.65	3259.19	15.22	-2.859	0.000	0.815
56.00	-23.92	-33.13	0.00	-2562.4	0.00	2562.46	3626.88	892.83	3166.32	3186.86	16.44	-2.980	0.000	0.812
58.00	-23.47	-32.93	0.00	-2496.2	0.00	2496.21	3593.03	881.02	3083.11	3115.00	17.71	-3.103	0.000	0.809
60.00	-23.01	-32.74	0.00	-2430.3	0.00	2430.34	3558.80	869.21	3001.01	3043.60	19.04	-3.227	0.000	0.806
62.00	-22.56	-32.54	0.00	-2364.8	0.00	2364.88	3524.20	857.40	2920.01	2972.69	20.42	-3.353	0.000	0.803
64.00	-22.11	-32.35	0.00	-2299.8	0.00	2299.80	3489.21	845.59	2840.12	2902.27	21.85	-3.480	0.000	0.800
66.00	-21.67	-32.15	0.00	-2235.1	0.00	2235.11	3453.85	833.78	2761.34	2832.36	23.34	-3.610	0.000	0.797
68.00	-21.23	-31.96	0.00	-2170.8	0.00	2170.81	3418.11	821.97	2683.66	2762.97	24.88	-3.741	0.000	0.793
70.00	-20.79	-31.77	0.00	-2106.8	0.00	2106.89	3381.99	810.16	2607.10	2694.13	26.47	-3.874	0.000	0.790
72.00	-20.36	-31.57	0.00	-2043.3	0.00	2043.36	3345.49	798.35	2531.64	2625.83	28.12	-4.008	0.000	0.786
74.00	-19.94	-31.38	0.00	-1980.2	0.00	1980.21	3308.61	786.54	2457.29	2558.09	29.83	-4.145	0.000	0.782
76.00	-19.51	-31.19	0.00	-1917.4	0.00	1917.45	3271.35	774.73	2384.05	2490.93	31.59	-4.283	0.000	0.777
78.00	-19.11	-30.99	0.00	-1855.0	0.00	1855.06	3229.69	762.92	2311.92	2421.35	33.42	-4.423	0.000	0.774
79.00	-18.87	-30.64	0.00	-1823.5	0.00	1823.50	3204.69	757.01	2276.27	2383.82	34.35	-4.494	0.000	0.772
80.00	-18.64	-30.55	0.00	-1792.8	0.00	1792.86	3179.70	751.11	2240.89	2346.59	35.30	-4.566	0.000	0.772
82.00	-18.23	-30.37	0.00	-1731.7	0.00	1731.75	3129.70	739.30	2170.98	2273.00	37.24	-4.709	0.000	0.769
84.00	-17.83	-30.18	0.00	-1671.0	0.00	1671.02	3079.70	727.49	2102.17	2200.58	39.24	-4.855	0.000	0.767
86.00	-17.43	-30.00	0.00	-1610.6	0.00	1610.65	3029.70	715.68	2034.47	2129.34	41.30	-5.001	0.000	0.764
88.00	-17.03	-29.82	0.00	-1550.6	0.00	1550.65	2979.71	703.87	1967.87	2059.26	43.43	-5.150	0.000	0.761

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 43



90.00	-16.64	-29.64	0.00	-1491.0	0.00	1491.02	2929.71	692.06	1902.39	1990.36	45.62	-5.301	0.000	0.757
92.00	-16.25	-29.46	0.00	-1431.7	0.00	1431.75	2879.71	680.25	1838.01	1922.64	47.87	-5.453	0.000	0.752
94.00	-15.86	-29.28	0.00	-1372.8	0.00	1372.83	2829.72	668.44	1774.74	1856.08	50.18	-5.606	0.000	0.747
96.00	-15.50	-29.09	0.00	-1314.2	0.00	1314.28	2779.72	656.63	1712.58	1790.70	52.56	-5.761	0.000	0.741
97.00	-15.31	-29.00	0.00	-1285.1	0.00	1285.18	2754.72	650.72	1681.92	1758.45	53.77	-5.841	0.000	0.738
98.00	-15.01	-28.92	0.00	-1256.1	0.00	1256.18	2729.72	644.82	1651.53	1726.49	55.00	-5.920	0.000	0.735
100.00	-14.47	-28.71	0.00	-1198.3	0.00	1198.35	2679.72	633.01	1591.59	1663.45	57.51	-6.078	0.000	0.728
101.00	-14.19	-28.61	0.00	-1169.6	0.00	1169.64	2260.79	534.55	1361.99	1425.24	58.79	-6.158	0.000	0.830
102.00	-14.00	-28.54	0.00	-1141.0	0.00	1141.03	2242.10	529.63	1337.03	1400.31	60.09	-6.239	0.000	0.824
104.00	-13.66	-28.37	0.00	-1083.9	0.00	1083.96	2200.44	519.79	1287.80	1348.49	62.74	-6.419	0.000	0.813
106.00	-13.32	-28.20	0.00	-1027.2	0.00	1027.23	2158.77	509.95	1239.49	1297.65	65.46	-6.599	0.000	0.801
108.00	-13.01	-28.03	0.00	-970.82	0.00	970.82	2117.11	500.10	1192.11	1247.79	68.26	-6.779	0.000	0.787
109.00	-12.82	-27.66	0.00	-942.19	0.00	942.19	2096.28	495.18	1168.77	1223.22	69.68	-6.871	0.000	0.779
110.00	-12.64	-27.59	0.00	-914.53	0.00	914.53	2075.44	490.26	1145.65	1198.90	71.13	-6.962	0.000	0.772
112.00	-12.31	-27.43	0.00	-859.35	0.00	859.35	2033.78	480.42	1100.12	1150.99	74.08	-7.142	0.000	0.756
114.00	-12.00	-27.27	0.00	-804.50	0.00	804.50	1992.11	470.58	1055.50	1104.05	77.10	-7.322	0.000	0.738
116.00	-11.68	-27.11	0.00	-749.97	0.00	749.97	1950.45	460.74	1011.82	1058.10	80.20	-7.501	0.000	0.718
118.00	-11.38	-26.95	0.00	-695.75	0.00	695.75	1908.79	450.89	969.05	1013.12	83.37	-7.678	0.000	0.696
120.00	-11.07	-26.79	0.00	-641.86	0.00	641.86	1867.12	441.05	927.21	969.11	86.61	-7.852	0.000	0.672
122.00	-10.78	-26.64	0.00	-588.28	0.00	588.28	1825.46	431.21	886.29	926.09	89.93	-8.024	0.000	0.645
124.00	-10.49	-26.48	0.00	-535.01	0.00	535.01	1783.79	421.37	846.29	884.04	93.32	-8.192	0.000	0.615
126.00	-10.20	-26.33	0.00	-482.05	0.00	482.05	1742.13	411.53	807.22	842.97	96.77	-8.355	0.000	0.582
128.00	-9.92	-26.17	0.00	-429.39	0.00	429.39	1700.47	401.68	769.07	802.87	100.30	-8.511	0.000	0.545
130.00	-7.87	-19.05	0.00	-377.05	0.00	377.05	1658.80	391.84	731.85	763.75	103.88	-8.660	0.000	0.501
132.00	-7.65	-18.90	0.00	-338.95	0.00	338.95	1617.14	382.00	695.54	725.61	107.53	-8.803	0.000	0.474
134.00	-7.43	-18.75	0.00	-301.16	0.00	301.16	1575.47	372.16	660.17	688.45	111.23	-8.940	0.000	0.445
136.00	-7.22	-18.60	0.00	-263.66	0.00	263.66	1533.81	362.32	625.71	652.26	114.99	-9.071	0.000	0.412
138.00	-7.03	-18.45	0.00	-226.46	0.00	226.46	1492.14	352.47	592.18	617.05	118.80	-9.195	0.000	0.374
139.00	-5.08	-12.78	0.00	-208.01	0.00	208.01	1471.31	347.55	575.76	599.82	120.73	-9.254	0.000	0.352
140.00	-4.99	-12.71	0.00	-195.23	0.00	195.23	1450.48	342.63	559.57	582.82	122.66	-9.312	0.000	0.340
142.00	-4.84	-12.57	0.00	-169.82	0.00	169.82	1408.82	332.79	527.89	549.57	126.57	-9.420	0.000	0.314
144.00	-4.69	-12.43	0.00	-144.68	0.00	144.68	1367.15	322.95	497.12	517.29	130.52	-9.523	0.000	0.285
146.00	-4.55	-12.30	0.00	-119.82	0.00	119.82	1325.49	313.11	467.29	485.99	134.51	-9.617	0.000	0.252
148.00	-2.96	-7.41	0.00	-90.67	0.00	90.67	1283.82	303.27	438.37	455.66	138.54	-9.700	0.000	0.202
148.25	-2.94	-7.40	0.00	-88.82	0.00	88.82	1278.61	302.03	434.82	451.94	139.05	-9.710	0.000	0.199
150.00	-2.78	-7.27	0.00	-75.88	0.00	75.88	1242.16	293.42	410.38	426.31	142.60	-9.773	0.000	0.181
150.50	-2.73	-7.23	0.00	-72.25	0.00	72.25	761.15	179.80	256.82	268.81	143.62	-9.790	0.000	0.274
152.00	-2.67	-7.14	0.00	-61.39	0.00	61.39	742.40	175.37	244.32	255.66	146.69	-9.839	0.000	0.245
154.00	-2.59	-7.03	0.00	-47.11	0.00	47.11	717.40	169.47	228.14	238.64	150.81	-9.926	0.000	0.203
156.00	-2.52	-6.91	0.00	-33.05	0.00	33.05	692.41	163.56	212.52	222.21	154.96	-9.997	0.000	0.154
158.00	-2.45	-6.80	0.00	-19.23	0.00	19.23	667.41	157.66	197.45	206.36	159.14	-10.048	0.000	0.099
159.00	0.00	-6.27	0.00	-12.43	0.00	12.43	654.91	154.70	190.13	198.65	161.24	-10.066	0.000	0.064

Wind Loading - Shaft

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023



Page: 44

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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	5.059	5.56	0.00	1.200	0.705	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	5.059	5.56	0.00	1.200	0.787	2.00	10.064	12.08	67.2	115.2	674.5
4.00		1.00	0.85	5.059	5.56	0.00	1.200	0.828	2.00	9.982	11.98	66.7	120.1	674.0
6.00		1.00	0.85	5.059	5.56	0.00	1.200	0.856	2.00	9.896	11.88	66.1	123.1	671.4
8.00		1.00	0.85	5.059	5.56	0.00	1.200	0.878	2.00	9.807	11.77	65.5	125.0	667.9
10.00		1.00	0.85	5.059	5.56	0.00	1.200	0.896	2.00	9.718	11.66	64.9	126.3	663.7
12.00		1.00	0.85	5.059	5.56	0.00	1.200	0.911	2.00	9.627	11.55	64.3	127.2	659.0
14.00		1.00	0.85	5.059	5.56	0.00	1.200	0.924	2.00	9.536	11.44	63.7	127.8	654.1
16.00		1.00	0.87	5.187	5.71	0.00	1.200	0.936	2.00	9.444	11.33	64.7	128.1	648.9
18.00		1.00	0.89	5.310	5.84	0.00	1.200	0.946	2.00	9.352	11.22	65.5	128.2	643.5
20.00		1.00	0.91	5.423	5.97	0.00	1.200	0.956	2.00	9.259	11.11	66.3	128.1	638.0
22.00		1.00	0.93	5.528	6.08	0.00	1.200	0.965	2.00	9.166	11.00	66.9	128.0	632.3
24.00		1.00	0.95	5.626	6.19	0.00	1.200	0.973	2.00	9.073	10.89	67.4	127.7	626.5
26.00		1.00	0.96	5.718	6.29	0.00	1.200	0.980	2.00	8.980	10.78	67.8	127.3	620.7
28.00		1.00	0.98	5.805	6.38	0.00	1.200	0.987	2.00	8.887	10.66	68.1	126.8	614.7
30.00		1.00	0.99	5.887	6.48	0.00	1.200	0.994	2.00	8.793	10.55	68.3	126.3	608.7
32.00		1.00	1.00	5.965	6.56	0.00	1.200	1.000	2.00	8.700	10.44	68.5	125.7	602.6
34.00		1.00	1.01	6.039	6.64	0.00	1.200	1.006	2.00	8.606	10.33	68.6	125.0	596.4
36.00		1.00	1.03	6.110	6.72	0.00	1.200	1.012	2.00	8.512	10.21	68.7	124.3	590.2
38.00		1.00	1.04	6.178	6.80	0.00	1.200	1.017	2.00	8.418	10.10	68.7	123.5	583.9
40.00		1.00	1.05	6.243	6.87	0.00	1.200	1.022	2.00	8.324	9.99	68.6	122.7	577.6
42.00		1.00	1.06	6.306	6.94	0.00	1.200	1.027	2.00	8.230	9.88	68.5	121.8	571.2
44.00		1.00	1.07	6.367	7.00	0.00	1.200	1.032	2.00	8.136	9.76	68.4	120.9	564.8
46.00	Appurtenance(s)	1.00	1.08	6.426	7.07	0.00	1.200	1.036	2.00	8.042	9.65	68.2	120.0	558.4
47.50	Bot - Section 2	1.00	1.09	6.468	7.12	0.00	1.200	1.039	1.50	5.970	7.16	51.0	89.5	414.7
48.00		1.00	1.09	6.482	7.13	0.00	1.200	1.040	0.50	2.010	2.41	17.2	30.3	247.5
50.00		1.00	1.10	6.537	7.19	0.00	1.200	1.044	2.00	7.980	9.58	68.9	120.0	982.1
52.00		1.00	1.11	6.590	7.25	0.00	1.200	1.049	2.00	7.886	9.46	68.6	119.0	970.1
53.25	Top - Section 1	1.00	1.11	6.623	7.28	0.00	1.200	1.051	1.25	4.881	5.86	42.7	74.0	600.4
54.00		1.00	1.12	6.642	7.31	0.00	1.200	1.052	0.75	2.911	3.49	25.5	44.2	202.5
56.00		1.00	1.12	6.692	7.36	0.00	1.200	1.056	2.00	7.697	9.24	68.0	116.9	535.1
58.00		1.00	1.13	6.741	7.41	0.00	1.200	1.060	2.00	7.603	9.12	67.6	115.8	528.5
60.00		1.00	1.14	6.788	7.47	0.00	1.200	1.063	2.00	7.508	9.01	67.3	114.7	521.9
62.00		1.00	1.15	6.834	7.52	0.00	1.200	1.067	2.00	7.414	8.90	66.9	113.6	515.3
64.00		1.00	1.16	6.880	7.57	0.00	1.200	1.070	2.00	7.319	8.78	66.5	112.4	508.7
66.00		1.00	1.16	6.924	7.62	0.00	1.200	1.073	2.00	7.224	8.67	66.0	111.3	502.0
68.00		1.00	1.17	6.967	7.66	0.00	1.200	1.077	2.00	7.130	8.56	65.6	110.1	495.3
70.00		1.00	1.18	7.009	7.71	0.00	1.200	1.080	2.00	7.035	8.44	65.1	108.9	488.6
72.00		1.00	1.18	7.050	7.75	0.00	1.200	1.083	2.00	6.941	8.33	64.6	107.6	481.9
74.00		1.00	1.19	7.090	7.80	0.00	1.200	1.086	2.00	6.846	8.21	64.1	106.4	475.1
76.00		1.00	1.20	7.129	7.84	0.00	1.200	1.088	2.00	6.751	8.10	63.5	105.1	468.4
78.00		1.00	1.20	7.168	7.88	0.00	1.200	1.091	2.00	6.656	7.99	63.0	103.9	461.6
79.00	Appurtenance(s)	1.00	1.21	7.187	7.91	0.00	1.200	1.093	1.00	3.292	3.95	31.2	51.6	228.4
80.00		1.00	1.21	7.206	7.93	0.00	1.200	1.094	1.00	3.269	3.92	31.1	51.3	226.7
82.00		1.00	1.22	7.243	7.97	0.00	1.200	1.097	2.00	6.467	7.76	61.8	101.3	448.1
84.00		1.00	1.22	7.279	8.01	0.00	1.200	1.099	2.00	6.372	7.65	61.2	100.0	441.3
86.00		1.00	1.23	7.315	8.05	0.00	1.200	1.102	2.00	6.277	7.53	60.6	98.7	434.4

Wind Loading - Shaft

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



88.00	1.00	1.23	7.350	8.09	0.00	1.200	1.104	2.00	6.182	7.42	60.0	97.3	427.6
90.00	1.00	1.24	7.385	8.12	0.00	1.200	1.107	2.00	6.087	7.30	59.3	96.0	420.8
92.00	1.00	1.25	7.418	8.16	0.00	1.200	1.109	2.00	5.992	7.19	58.7	94.6	413.9
94.00	1.00	1.25	7.452	8.20	0.00	1.200	1.112	2.00	5.898	7.08	58.0	93.3	407.1
96.00	1.00	1.26	7.484	8.23	0.00	1.200	1.114	2.00	5.803	6.96	57.3	91.9	400.2
97.00 Bot - Section 3	1.00	1.26	7.501	8.25	0.00	1.200	1.115	1.00	2.866	3.44	28.4	45.6	197.7
98.00	1.00	1.26	7.517	8.27	0.00	1.200	1.116	1.00	2.895	3.47	28.7	46.1	325.2
100.00	1.00	1.27	7.548	8.30	0.00	1.200	1.118	2.00	5.719	6.86	57.0	90.8	641.5
101.00 Top - Section 2	1.00	1.27	7.564	8.32	0.00	1.200	1.119	1.00	2.824	3.39	28.2	45.1	316.6
102.00	1.00	1.27	7.580	8.34	0.00	1.200	1.121	1.00	2.800	3.36	28.0	44.7	168.5
104.00	1.00	1.28	7.610	8.37	0.00	1.200	1.123	2.00	5.529	6.63	55.5	88.0	332.2
106.00	1.00	1.28	7.641	8.40	0.00	1.200	1.125	2.00	5.434	6.52	54.8	86.6	326.2
108.00	1.00	1.29	7.671	8.44	0.00	1.200	1.127	2.00	5.339	6.41	54.1	85.2	320.2
109.00 Appurtenance(s)	1.00	1.29	7.685	8.45	0.00	1.200	1.128	1.00	2.634	3.16	26.7	42.2	158.0
110.00	1.00	1.29	7.700	8.47	0.00	1.200	1.129	1.00	2.610	3.13	26.5	41.9	156.5
112.00	1.00	1.30	7.729	8.50	0.00	1.200	1.131	2.00	5.149	6.18	52.5	82.3	308.1
114.00	1.00	1.30	7.758	8.53	0.00	1.200	1.133	2.00	5.054	6.06	51.7	80.8	302.1
116.00	1.00	1.31	7.786	8.56	0.00	1.200	1.135	2.00	4.959	5.95	51.0	79.4	296.1
118.00	1.00	1.31	7.814	8.59	0.00	1.200	1.137	2.00	4.864	5.84	50.2	77.9	290.0
120.00	1.00	1.32	7.841	8.63	0.00	1.200	1.139	2.00	4.768	5.72	49.4	76.4	283.9
122.00	1.00	1.32	7.868	8.65	0.00	1.200	1.141	2.00	4.673	5.61	48.5	74.9	277.9
124.00	1.00	1.33	7.895	8.68	0.00	1.200	1.142	2.00	4.578	5.49	47.7	73.4	271.8
126.00	1.00	1.33	7.921	8.71	0.00	1.200	1.144	2.00	4.483	5.38	46.9	71.9	265.7
128.00	1.00	1.34	7.947	8.74	0.00	1.200	1.146	2.00	4.388	5.27	46.0	70.4	259.6
130.00 Appurtenance(s)	1.00	1.34	7.973	8.77	0.00	1.200	1.148	2.00	4.293	5.15	45.2	68.9	253.5
132.00	1.00	1.34	7.999	8.80	0.00	1.200	1.150	2.00	4.198	5.04	44.3	67.4	247.4
134.00	1.00	1.35	8.024	8.83	0.00	1.200	1.151	2.00	4.103	4.92	43.5	65.9	241.3
136.00	1.00	1.35	8.049	8.85	0.00	1.200	1.153	2.00	4.008	4.81	42.6	64.3	235.2
138.00	1.00	1.36	8.073	8.88	0.00	1.200	1.155	2.00	3.913	4.70	41.7	62.8	229.1
139.00 Appurtenance(s)	1.00	1.36	8.086	8.89	0.00	1.200	1.155	1.00	1.921	2.30	20.5	31.0	112.5
140.00	1.00	1.36	8.098	8.91	0.00	1.200	1.156	1.00	1.897	2.28	20.3	30.6	110.9
142.00	1.00	1.36	8.122	8.93	0.00	1.200	1.158	2.00	3.722	4.47	39.9	59.7	216.9
144.00	1.00	1.37	8.145	8.96	0.00	1.200	1.160	2.00	3.627	4.35	39.0	58.2	210.7
146.00	1.00	1.37	8.169	8.99	0.00	1.200	1.161	2.00	3.532	4.24	38.1	56.6	204.6
148.00 Appurtenance(s)	1.00	1.38	8.192	9.01	0.00	1.200	1.163	2.00	3.437	4.12	37.2	55.0	198.4
148.25 Bot - Section 4	1.00	1.38	8.195	9.01	0.00	1.200	1.163	0.25	0.423	0.51	4.6	6.9	24.5
150.00	1.00	1.38	8.215	9.04	0.00	1.200	1.164	1.75	2.974	3.57	32.3	47.7	243.8
150.50 Top - Section 3	1.00	1.38	8.221	9.04	0.00	1.200	1.165	0.50	0.836	1.00	9.1	13.5	68.5
152.00	1.00	1.38	8.238	9.06	0.00	1.200	1.166	1.50	2.473	2.97	26.9	39.7	101.7
154.00	1.00	1.39	8.261	9.09	0.00	1.200	1.167	2.00	3.215	3.86	35.1	51.4	131.6
156.00	1.00	1.39	8.283	9.11	0.00	1.200	1.169	2.00	3.120	3.74	34.1	49.8	127.3
158.00	1.00	1.40	8.305	9.14	0.00	1.200	1.170	2.00	3.024	3.63	33.2	48.2	122.9
159.00 Appurtenance(s)	1.00	1.40	8.316	9.15	0.00	1.200	1.171	1.00	1.476	1.77	16.2	23.7	60.0
Totals:								159.00	4,577.9	36,230.3			

Discrete Appurtenance Forces

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023

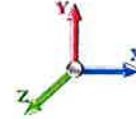
Page: 46



Topography: 1

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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	159.00	Decibel DB404-B - Omni	1	8.338	9.172	0.90	0.90	2.01	62.74	0.000	2.000	18.43	0.00	36.86
2	159.00	Powerwave 7770	3	8.338	9.172	0.66	0.90	13.36	-534.80	0.000	2.000	122.51	0.00	245.03
3	159.00	Powerwave Technologies	6	8.338	9.172	0.45	0.90	5.00	159.57	0.000	2.000	45.83	0.00	91.66
4	159.00	Raycap DC6-48-60-18-8F	2	8.338	9.172	0.90	0.90	2.19	130.90	0.000	2.000	20.04	0.00	40.08
5	159.00	Site Pro 1 -	1	8.338	9.172	1.00	1.00	71.83	4277.39	0.000	2.000	658.82	0.00	1317.64
6	159.00	Ericsson RRUS 32 B2	3	8.338	9.172	0.60	0.90	5.82	354.32	0.000	2.000	53.37	0.00	106.74
7	159.00	Powerwave	3	8.338	9.172	0.68	0.90	20.33	381.44	0.000	2.000	186.48	0.00	372.96
8	159.00	Ericsson RRUS 11-700	3	8.338	9.172	0.60	0.90	5.33	281.08	0.000	2.000	48.86	0.00	97.72
9	159.00	Quintel QS66512-2	3	8.338	9.172	0.83	0.90	22.31	831.11	0.000	2.000	204.64	0.00	409.28
10	159.00	Kaelus DBC0061F1V51-2	3	8.338	9.172	0.45	0.90	0.84	55.17	0.000	2.000	7.69	0.00	15.39
11	159.00	Ericsson RRUS 32 B30	3	8.338	9.172	0.60	0.90	5.82	379.52	0.000	2.000	53.37	0.00	106.74
12	148.00	RFS - APXVTM14-C-I20 -	3	8.215	9.037	0.59	0.75	12.58	347.13	0.000	2.000	113.73	0.00	227.46
13	148.00	Alcatel Lucent -	3	8.215	9.037	0.50	0.75	7.53	381.33	0.000	2.000	68.00	0.00	136.01
14	148.00	RFS - APXVSP18-C-A20	3	8.215	9.037	0.62	0.75	18.05	914.59	0.000	2.000	163.11	0.00	326.23
15	148.00	SitePro HRK-12 Handrail	1	8.192	9.012	1.00	1.00	11.15	782.71	0.000	0.000	100.43	0.00	0.00
16	148.00	Low Profile Platform	1	8.192	9.012	1.00	1.00	54.53	1837.62	0.000	0.000	491.43	0.00	0.00
17	148.00	Alcatel Lucent - 1900 MHz	3	8.215	9.037	0.50	0.75	7.12	282.98	0.000	2.000	64.38	0.00	128.77
18	148.00	Alcatel Lucent - 800 MHz	3	8.215	9.037	0.50	0.75	4.90	275.32	0.000	2.000	44.30	0.00	88.60
19	148.00	Alcatel Lucent - 800 MHz	3	8.215	9.037	0.38	0.75	1.36	51.94	0.000	2.000	12.31	0.00	24.62
20	148.00	RFS - ACU-A20-N - RET	4	8.215	9.037	0.38	0.75	0.51	11.05	0.000	2.000	4.58	0.00	9.15
21	139.00	LP Platform w/ Handrails	1	8.086	8.894	1.00	1.00	53.64	2710.27	0.000	0.000	477.11	0.00	0.00
22	139.00	4415 B66A	3	8.086	8.894	0.38	0.75	2.52	222.39	0.000	0.000	22.40	0.00	0.00
23	139.00	4424 B25	3	8.086	8.894	0.50	0.75	3.97	360.30	0.000	0.000	35.27	0.00	0.00
24	139.00	4449 B71 + B85	3	8.086	8.894	0.50	0.75	3.54	203.01	0.000	0.000	31.47	0.00	0.00
25	139.00	RFS -	3	8.086	8.894	0.55	0.75	35.33	1179.78	0.000	0.000	314.19	0.00	0.00
26	139.00	EMS - FR90-16-XXDP -	3	8.086	8.894	0.51	0.75	7.63	241.60	0.000	0.000	67.89	0.00	0.00
27	139.00	RFS -	3	8.086	8.894	0.46	0.75	11.23	278.53	0.000	0.000	99.90	0.00	0.00
28	139.00	AIR6449 B41	3	8.086	8.894	0.53	0.75	10.03	548.05	0.000	0.000	89.22	0.00	0.00
29	139.00	RFS -	3	8.086	8.894	0.38	0.75	1.90	107.18	0.000	0.000	16.89	0.00	0.00
30	139.00	Andrew - ATSBT-TOP-FM	3	8.086	8.894	0.38	0.75	0.48	12.98	0.000	0.000	4.30	0.00	0.00
31	130.00	Samsung VZS01	3	7.973	8.771	0.53	0.75	8.46	465.01	0.000	0.000	74.17	0.00	0.00
32	130.00	Andrew JAHH-45B-R3B	2	7.973	8.771	0.55	0.75	13.68	438.25	0.000	0.000	120.00	0.00	0.00
33	130.00	Andrew JAHH-65B-R3B	4	7.973	8.771	0.63	0.75	25.12	664.97	0.000	0.000	220.30	0.00	0.00
34	130.00	Commscope	3	7.973	8.771	0.72	0.75	1.66	95.59	0.000	0.000	14.54	0.00	0.00
35	130.00	Samsung B5/B13	3	7.973	8.771	0.50	0.75	3.37	298.33	0.000	0.000	29.59	0.00	0.00
36	130.00	Samsung B2/B66A	3	7.973	8.771	0.50	0.75	3.37	313.17	0.000	0.000	29.59	0.00	0.00
37	130.00	RFS DB-C1-12C-24AB-OZ	1	7.960	8.756	0.75	0.75	3.45	84.82	0.000	-1.000	30.19	0.00	-30.19
38	130.00	Low Profile Platform	1	7.973	8.771	1.00	1.00	39.03	2131.72	0.000	0.000	342.34	0.00	0.00
39	130.00	Kaelus BSF0020F3V1-1	4	7.973	8.771	0.51	0.75	2.49	216.07	0.000	0.000	21.85	0.00	0.00
40	130.00	Mount pipes	15	7.973	8.771	0.75	0.75	17.18	1361.90	0.000	0.000	150.64	0.00	0.00
41	130.00	Antel LPA-80063/6CF_5	6	7.973	8.771	0.71	0.75	44.72	1396.15	0.000	0.000	392.26	0.00	0.00
42	109.00	Sinclair SCL329-HL -	1	7.765	8.542	1.00	1.00	4.78	34.14	0.000	5.550	40.83	0.00	226.61
43	109.00	4 ft. Standoff	1	7.685	8.454	1.00	1.00	8.67	102.51	0.000	0.000	73.26	0.00	0.00
44	79.00	Sinclair SCL329-HL -	1	7.289	8.018	1.00	1.00	4.70	32.92	0.000	5.550	37.68	0.00	209.15
45	79.00	4 ft Standoff	1	7.187	7.906	1.00	1.00	8.50	100.35	0.000	0.000	67.23	0.00	0.00
46	46.00	4 ft Standoff	1	6.426	7.068	1.00	1.00	8.24	96.87	0.000	0.000	58.28	0.00	0.00
47	46.00	Decibel 26DB - GPS	1	6.510	7.161	1.00	1.00	0.39	13.79	0.000	3.000	2.78	0.00	8.33

Discrete Appurtenance Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 47

Totals: 24,973.75 5,346.49

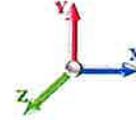
Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 48



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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
2.00		67.21	812.04	0.00	0.00
4.00		66.66	812.75	0.00	0.00
6.00		66.08	811.11	0.00	0.00
8.00		65.49	808.26	0.00	0.00
10.00		64.89	804.66	0.00	0.00
12.00		64.29	800.54	0.00	0.00
14.00		63.68	796.04	0.00	0.00
16.00		64.66	791.26	0.00	0.00
18.00		65.55	786.24	0.00	0.00
20.00		66.28	781.03	0.00	0.00
22.00		66.89	775.67	0.00	0.00
24.00		67.38	770.17	0.00	0.00
26.00		67.78	764.56	0.00	0.00
28.00		68.09	758.85	0.00	0.00
30.00		68.33	753.05	0.00	0.00
32.00		68.50	747.17	0.00	0.00
34.00		68.60	741.22	0.00	0.00
36.00		68.65	735.20	0.00	0.00
38.00		68.65	729.13	0.00	0.00
40.00		68.60	723.01	0.00	0.00
42.00		68.51	716.84	0.00	0.00
44.00		68.38	710.62	0.00	0.00
46.00	(2) attachments	129.26	815.02	0.00	8.33
47.50		50.97	524.22	0.00	0.00
48.00		17.20	284.02	0.00	0.00
50.00		68.86	1126.31	0.00	0.00
52.00		68.60	1112.35	0.00	0.00
53.25		42.67	689.28	0.00	0.00
54.00		25.52	255.86	0.00	0.00
56.00		67.99	677.58	0.00	0.00
58.00		67.65	671.11	0.00	0.00
60.00		67.28	664.61	0.00	0.00
62.00		66.88	658.10	0.00	0.00
64.00		66.46	651.56	0.00	0.00
66.00		66.03	644.99	0.00	0.00
68.00		65.57	638.41	0.00	0.00
70.00		65.08	631.81	0.00	0.00
72.00		64.59	625.18	0.00	0.00
74.00		64.07	618.54	0.00	0.00
76.00		63.53	611.89	0.00	0.00
78.00		62.98	605.21	0.00	0.00
79.00	(2) attachments	136.15	433.52	0.00	209.15
80.00		31.09	295.44	0.00	0.00
82.00		61.83	585.53	0.00	0.00
84.00		61.23	578.80	0.00	0.00
86.00		60.61	572.04	0.00	0.00

Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



88.00		59.98	565.28	0.00	0.00
90.00		59.34	558.50	0.00	0.00
92.00		58.68	551.71	0.00	0.00
94.00		58.01	544.91	0.00	0.00
96.00		57.33	538.10	0.00	0.00
97.00		28.37	266.66	0.00	0.00
98.00		28.72	394.20	0.00	0.00
100.00		56.98	779.52	0.00	0.00
101.00		28.19	385.64	0.00	0.00
102.00		28.01	237.57	0.00	0.00
104.00		55.54	470.34	0.00	0.00
106.00		54.80	464.40	0.00	0.00
108.00		54.05	458.44	0.00	0.00
109.00	(2) attachments	140.81	363.81	0.00	226.61
110.00		26.53	222.41	0.00	0.00
112.00		52.53	439.97	0.00	0.00
114.00		51.75	433.97	0.00	0.00
116.00		50.96	427.97	0.00	0.00
118.00		50.16	421.95	0.00	0.00
120.00		49.35	415.93	0.00	0.00
122.00		48.54	409.90	0.00	0.00
124.00		47.71	403.87	0.00	0.00
126.00		46.88	397.82	0.00	0.00
128.00		46.03	391.77	0.00	0.00
130.00	(45) attachments	1470.65	7851.68	0.00	-30.19
132.00		44.32	346.67	0.00	0.00
134.00		43.45	340.60	0.00	0.00
136.00		42.58	334.52	0.00	0.00
138.00		41.70	328.43	0.00	0.00
139.00	(28) attachments	1179.14	6026.21	0.00	0.00
140.00		20.27	141.01	0.00	0.00
142.00		39.91	277.07	0.00	0.00
144.00		39.00	270.97	0.00	0.00
146.00		38.09	264.86	0.00	0.00
148.00	(24) attachments	1099.45	5143.42	0.00	940.84
148.25		4.57	32.00	0.00	0.00
150.00		32.25	296.61	0.00	0.00
150.50		9.08	81.33	0.00	0.00
152.00		26.90	140.11	0.00	0.00
154.00		35.05	182.86	0.00	0.00
156.00		34.11	178.56	0.00	0.00
158.00		33.16	174.25	0.00	0.00
159.00	(31) attachments	1436.25	6464.13	0.00	2840.09
	Totals:	9,924.41	71,320.72	0.00	4,194.83

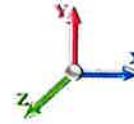
Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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)
2.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	5.059	0.00	2.76
2.00	Safety Cable	Yes	2.00	0.000	0.38	0.33	0.00	0.047	0.000	5.059	0.00	2.65
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.37	0.00	0.047	0.000	5.059	0.00	4.84
2.00	7/8"	Yes	2.00	0.000	1.11	0.45	0.00	0.047	0.000	5.059	0.00	4.32
2.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	5.059	0.00	4.32
2.00	1/2"	Yes	2.00	0.000	0.65	0.37	0.00	0.047	0.000	5.059	0.00	2.76
4.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	5.059	0.00	2.97
4.00	Safety Cable	Yes	2.00	0.000	0.38	0.34	0.00	0.048	0.000	5.059	0.00	2.84
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.38	0.00	0.048	0.000	5.059	0.00	5.04
4.00	7/8"	Yes	2.00	0.000	1.11	0.46	0.00	0.048	0.000	5.059	0.00	4.56
4.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	5.059	0.00	4.56
4.00	1/2"	Yes	2.00	0.000	0.65	0.38	0.00	0.048	0.000	5.059	0.00	2.97
6.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	5.059	0.00	3.11
6.00	Safety Cable	Yes	2.00	0.000	0.38	0.35	0.00	0.048	0.000	5.059	0.00	2.97
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.39	0.00	0.048	0.000	5.059	0.00	5.19
6.00	7/8"	Yes	2.00	0.000	1.11	0.47	0.00	0.048	0.000	5.059	0.00	4.72
6.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	5.059	0.00	4.72
6.00	1/2"	Yes	2.00	0.000	0.65	0.39	0.00	0.048	0.000	5.059	0.00	3.11
8.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	5.059	0.00	3.23
8.00	Safety Cable	Yes	2.00	0.000	0.38	0.36	0.00	0.049	0.000	5.059	0.00	3.08
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.40	0.00	0.049	0.000	5.059	0.00	5.30
8.00	7/8"	Yes	2.00	0.000	1.11	0.48	0.00	0.049	0.000	5.059	0.00	4.85
8.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	5.059	0.00	4.85
8.00	1/2"	Yes	2.00	0.000	0.65	0.40	0.00	0.049	0.000	5.059	0.00	3.23
10.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	5.059	0.00	3.32
10.00	Safety Cable	Yes	2.00	0.000	0.38	0.36	0.00	0.049	0.000	5.059	0.00	3.16
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.40	0.00	0.049	0.000	5.059	0.00	5.39
10.00	7/8"	Yes	2.00	0.000	1.11	0.48	0.00	0.049	0.000	5.059	0.00	4.96
10.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	5.059	0.00	4.96
10.00	1/2"	Yes	2.00	0.000	0.65	0.41	0.00	0.049	0.000	5.059	0.00	3.32
12.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	5.059	0.00	3.40
12.00	Safety Cable	Yes	2.00	0.000	0.38	0.37	0.00	0.050	0.000	5.059	0.00	3.24
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.41	0.00	0.050	0.000	5.059	0.00	5.48
12.00	7/8"	Yes	2.00	0.000	1.11	0.49	0.00	0.050	0.000	5.059	0.00	5.05
12.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	5.059	0.00	5.05
12.00	1/2"	Yes	2.00	0.000	0.65	0.41	0.00	0.050	0.000	5.059	0.00	3.40
14.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	5.059	0.00	3.48
14.00	Safety Cable	Yes	2.00	0.000	0.38	0.37	0.00	0.050	0.000	5.059	0.00	3.30
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.41	0.00	0.050	0.000	5.059	0.00	5.55
14.00	7/8"	Yes	2.00	0.000	1.11	0.49	0.00	0.050	0.000	5.059	0.00	5.14
14.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	5.059	0.00	5.14
14.00	1/2"	Yes	2.00	0.000	0.65	0.42	0.00	0.050	0.000	5.059	0.00	3.48
16.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	5.187	0.00	3.54
16.00	Safety Cable	Yes	2.00	0.000	0.38	0.38	0.00	0.051	0.000	5.187	0.00	3.36
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.42	0.00	0.051	0.000	5.187	0.00	5.61
16.00	7/8"	Yes	2.00	0.000	1.11	0.50	0.00	0.051	0.000	5.187	0.00	5.21
16.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	5.187	0.00	5.21

Linear Appurtenance Segment Forces (Factored)

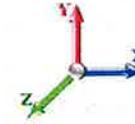
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 28

Dead Load Factor 1.20
Wind Load Factor 1.00



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)
16.00	1/2"	Yes	2.00	0.000	0.65	0.42	0.00	0.051	0.000	5.187	0.00	3.54
18.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	5.310	0.00	3.60
18.00	Safety Cable	Yes	2.00	0.000	0.38	0.38	0.00	0.051	0.000	5.310	0.00	3.42
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.42	0.00	0.051	0.000	5.310	0.00	5.67
18.00	7/8"	Yes	2.00	0.000	1.11	0.50	0.00	0.051	0.000	5.310	0.00	5.28
18.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	5.310	0.00	5.28
18.00	1/2"	Yes	2.00	0.000	0.65	0.42	0.00	0.051	0.000	5.310	0.00	3.60
20.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	5.423	0.00	3.65
20.00	Safety Cable	Yes	2.00	0.000	0.38	0.38	0.00	0.052	0.000	5.423	0.00	3.47
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.42	0.00	0.052	0.000	5.423	0.00	5.72
20.00	7/8"	Yes	2.00	0.000	1.11	0.50	0.00	0.052	0.000	5.423	0.00	5.34
20.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	5.423	0.00	5.34
20.00	1/2"	Yes	2.00	0.000	0.65	0.43	0.00	0.052	0.000	5.423	0.00	3.65
22.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	5.528	0.00	3.70
22.00	Safety Cable	Yes	2.00	0.000	0.38	0.38	0.00	0.052	0.000	5.528	0.00	3.51
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.43	0.00	0.052	0.000	5.528	0.00	5.77
22.00	7/8"	Yes	2.00	0.000	1.11	0.51	0.00	0.052	0.000	5.528	0.00	5.39
22.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	5.528	0.00	5.39
22.00	1/2"	Yes	2.00	0.000	0.65	0.43	0.00	0.052	0.000	5.528	0.00	3.70
24.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	5.626	0.00	3.75
24.00	Safety Cable	Yes	2.00	0.000	0.38	0.39	0.00	0.053	0.000	5.626	0.00	3.56
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.43	0.00	0.053	0.000	5.626	0.00	5.82
24.00	7/8"	Yes	2.00	0.000	1.11	0.51	0.00	0.053	0.000	5.626	0.00	5.44
24.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	5.626	0.00	5.44
24.00	1/2"	Yes	2.00	0.000	0.65	0.43	0.00	0.053	0.000	5.626	0.00	3.75
26.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	5.718	0.00	3.79
26.00	Safety Cable	Yes	2.00	0.000	0.38	0.39	0.00	0.053	0.000	5.718	0.00	3.60
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.43	0.00	0.053	0.000	5.718	0.00	5.86
26.00	7/8"	Yes	2.00	0.000	1.11	0.51	0.00	0.053	0.000	5.718	0.00	5.49
26.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	5.718	0.00	5.49
26.00	1/2"	Yes	2.00	0.000	0.65	0.44	0.00	0.053	0.000	5.718	0.00	3.79
28.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	5.805	0.00	3.83
28.00	Safety Cable	Yes	2.00	0.000	0.38	0.39	0.00	0.054	0.000	5.805	0.00	3.64
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.43	0.00	0.054	0.000	5.805	0.00	5.90
28.00	7/8"	Yes	2.00	0.000	1.11	0.51	0.00	0.054	0.000	5.805	0.00	5.54
28.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	5.805	0.00	5.54
28.00	1/2"	Yes	2.00	0.000	0.65	0.44	0.00	0.054	0.000	5.805	0.00	3.83
30.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	5.887	0.00	3.87
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.39	0.00	0.055	0.000	5.887	0.00	3.67
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.44	0.00	0.055	0.000	5.887	0.00	5.94
30.00	7/8"	Yes	2.00	0.000	1.11	0.52	0.00	0.055	0.000	5.887	0.00	5.58
30.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	5.887	0.00	5.58
30.00	1/2"	Yes	2.00	0.000	0.65	0.44	0.00	0.055	0.000	5.887	0.00	3.87
32.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	5.965	0.00	3.91
32.00	Safety Cable	Yes	2.00	0.000	0.38	0.40	0.00	0.055	0.000	5.965	0.00	3.71
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.44	0.00	0.055	0.000	5.965	0.00	5.98
32.00	7/8"	Yes	2.00	0.000	1.11	0.52	0.00	0.055	0.000	5.965	0.00	5.62

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023

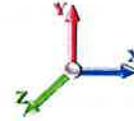
Page: 52



Topography: 1

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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)
32.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	5.965	0.00	5.62
32.00	1/2"	Yes	2.00	0.000	0.65	0.44	0.00	0.055	0.000	5.965	0.00	3.91
34.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	6.039	0.00	3.94
34.00	Safety Cable	Yes	2.00	0.000	0.38	0.40	0.00	0.056	0.000	6.039	0.00	3.74
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.44	0.00	0.056	0.000	6.039	0.00	6.01
34.00	7/8"	Yes	2.00	0.000	1.11	0.52	0.00	0.056	0.000	6.039	0.00	5.66
34.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	6.039	0.00	5.66
34.00	1/2"	Yes	2.00	0.000	0.65	0.44	0.00	0.056	0.000	6.039	0.00	3.94
36.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	6.110	0.00	3.98
36.00	Safety Cable	Yes	2.00	0.000	0.38	0.40	0.00	0.056	0.000	6.110	0.00	3.77
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.44	0.00	0.056	0.000	6.110	0.00	6.04
36.00	7/8"	Yes	2.00	0.000	1.11	0.52	0.00	0.056	0.000	6.110	0.00	5.70
36.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	6.110	0.00	5.70
36.00	1/2"	Yes	2.00	0.000	0.65	0.45	0.00	0.056	0.000	6.110	0.00	3.98
38.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	6.178	0.00	4.01
38.00	Safety Cable	Yes	2.00	0.000	0.38	0.40	0.00	0.057	0.000	6.178	0.00	3.80
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.44	0.00	0.057	0.000	6.178	0.00	6.08
38.00	7/8"	Yes	2.00	0.000	1.11	0.52	0.00	0.057	0.000	6.178	0.00	5.74
38.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	6.178	0.00	5.74
38.00	1/2"	Yes	2.00	0.000	0.65	0.45	0.00	0.057	0.000	6.178	0.00	4.01
40.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	6.243	0.00	4.04
40.00	Safety Cable	Yes	2.00	0.000	0.38	0.40	0.00	0.058	0.000	6.243	0.00	3.83
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.45	0.00	0.058	0.000	6.243	0.00	6.11
40.00	7/8"	Yes	2.00	0.000	1.11	0.53	0.00	0.058	0.000	6.243	0.00	5.77
40.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	6.243	0.00	5.77
40.00	1/2"	Yes	2.00	0.000	0.65	0.45	0.00	0.058	0.000	6.243	0.00	4.04
42.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	6.306	0.00	4.07
42.00	Safety Cable	Yes	2.00	0.000	0.38	0.41	0.00	0.059	0.000	6.306	0.00	3.85
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.45	0.00	0.059	0.000	6.306	0.00	6.14
42.00	7/8"	Yes	2.00	0.000	1.11	0.53	0.00	0.059	0.000	6.306	0.00	5.80
42.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	6.306	0.00	5.80
42.00	1/2"	Yes	2.00	0.000	0.65	0.45	0.00	0.059	0.000	6.306	0.00	4.07
44.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	6.367	0.00	4.10
44.00	Safety Cable	Yes	2.00	0.000	0.38	0.41	0.00	0.059	0.000	6.367	0.00	3.88
44.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.45	0.00	0.059	0.000	6.367	0.00	6.16
44.00	7/8"	Yes	2.00	0.000	1.11	0.53	0.00	0.059	0.000	6.367	0.00	5.83
44.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	6.367	0.00	5.83
44.00	1/2"	Yes	2.00	0.000	0.65	0.45	0.00	0.059	0.000	6.367	0.00	4.10
46.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	6.426	0.00	4.12
46.00	Safety Cable	Yes	2.00	0.000	0.38	0.41	0.00	0.060	0.000	6.426	0.00	3.91
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.45	0.00	0.060	0.000	6.426	0.00	6.19
46.00	7/8"	Yes	2.00	0.000	1.11	0.53	0.00	0.060	0.000	6.426	0.00	5.87
46.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	6.426	0.00	5.87
46.00	1/2"	Yes	2.00	0.000	0.65	0.45	0.00	0.060	0.000	6.426	0.00	4.12
47.50	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	6.468	0.00	3.11
47.50	Safety Cable	Yes	1.50	0.000	0.38	0.31	0.00	0.061	0.000	6.468	0.00	2.94
47.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.34	0.00	0.061	0.000	6.468	0.00	4.66

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 28

Dead Load Factor 1.20
Wind Load Factor 1.00



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)
47.50	7/8"	Yes	1.50	0.000	1.11	0.40	0.00	0.061	0.000	6.468	0.00	4.42
47.50	7/8"	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	6.468	0.00	4.42
47.50	1/2"	Yes	1.50	0.000	0.65	0.34	0.00	0.061	0.000	6.468	0.00	3.11
48.00	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	6.482	0.00	1.04
48.00	Safety Cable	Yes	0.50	0.000	0.38	0.10	0.00	0.061	0.000	6.482	0.00	0.98
48.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.11	0.00	0.061	0.000	6.482	0.00	1.55
48.00	7/8"	Yes	0.50	0.000	1.11	0.13	0.00	0.061	0.000	6.482	0.00	1.47
48.00	7/8"	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	6.482	0.00	1.47
48.00	1/2"	Yes	0.50	0.000	0.65	0.11	0.00	0.061	0.000	6.482	0.00	1.04
50.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	6.537	0.00	4.18
50.00	Safety Cable	Yes	2.00	0.000	0.38	0.41	0.00	0.054	0.000	6.537	0.00	3.95
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.45	0.00	0.054	0.000	6.537	0.00	6.24
50.00	7/8"	Yes	2.00	0.000	1.11	0.53	0.00	0.054	0.000	6.537	0.00	5.92
50.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	6.537	0.00	5.92
50.00	1/2"	Yes	1.00	0.000	0.65	0.23	0.00	0.054	0.000	6.537	0.00	2.09
52.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.590	0.00	4.20
52.00	Safety Cable	Yes	2.00	0.000	0.38	0.41	0.00	0.048	0.000	6.590	0.00	3.98
52.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.45	0.00	0.048	0.000	6.590	0.00	6.27
52.00	7/8"	Yes	2.00	0.000	1.11	0.53	0.00	0.048	0.000	6.590	0.00	5.95
52.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.590	0.00	5.95
53.25	1/2" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	6.623	0.00	2.64
53.25	Safety Cable	Yes	1.25	0.000	0.38	0.26	0.00	0.048	0.000	6.623	0.00	2.49
53.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.28	0.00	0.048	0.000	6.623	0.00	3.93
53.25	7/8"	Yes	1.25	0.000	1.11	0.33	0.00	0.048	0.000	6.623	0.00	3.73
53.25	7/8"	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	6.623	0.00	3.73
54.00	1/2" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	6.642	0.00	1.58
54.00	Safety Cable	Yes	0.75	0.000	0.38	0.16	0.00	0.048	0.000	6.642	0.00	1.50
54.00	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.17	0.00	0.048	0.000	6.642	0.00	2.36
54.00	7/8"	Yes	0.75	0.000	1.11	0.20	0.00	0.048	0.000	6.642	0.00	2.24
54.00	7/8"	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	6.642	0.00	2.24
56.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.692	0.00	4.25
56.00	Safety Cable	Yes	2.00	0.000	0.38	0.42	0.00	0.048	0.000	6.692	0.00	4.02
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.46	0.00	0.048	0.000	6.692	0.00	6.31
56.00	7/8"	Yes	2.00	0.000	1.11	0.54	0.00	0.048	0.000	6.692	0.00	6.00
56.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.692	0.00	6.00
58.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.741	0.00	4.27
58.00	Safety Cable	Yes	2.00	0.000	0.38	0.42	0.00	0.049	0.000	6.741	0.00	4.04
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.46	0.00	0.049	0.000	6.741	0.00	6.34
58.00	7/8"	Yes	2.00	0.000	1.11	0.54	0.00	0.049	0.000	6.741	0.00	6.03
58.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.741	0.00	6.03
60.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.788	0.00	4.29
60.00	Safety Cable	Yes	2.00	0.000	0.38	0.42	0.00	0.049	0.000	6.788	0.00	4.06
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.46	0.00	0.049	0.000	6.788	0.00	6.36
60.00	7/8"	Yes	2.00	0.000	1.11	0.54	0.00	0.049	0.000	6.788	0.00	6.05
60.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.788	0.00	6.05
62.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	6.834	0.00	4.31
62.00	Safety Cable	Yes	2.00	0.000	0.38	0.42	0.00	0.050	0.000	6.834	0.00	4.08

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

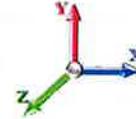
8/1/2023

Page: 54



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
62.00	Step bolts (ladder)	Yes	2.00	0.63	0.46	0.00	0.050	0.000	6.834	0.00	6.38
62.00	7/8"	Yes	2.00	1.11	0.54	0.00	0.050	0.000	6.834	0.00	6.08
62.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.050	0.000	6.834	0.00	6.08
64.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.051	0.000	6.880	0.00	4.33
64.00	Safety Cable	Yes	2.00	0.38	0.42	0.00	0.051	0.000	6.880	0.00	4.10
64.00	Step bolts (ladder)	Yes	2.00	0.63	0.46	0.00	0.051	0.000	6.880	0.00	6.40
64.00	7/8"	Yes	2.00	1.11	0.54	0.00	0.051	0.000	6.880	0.00	6.10
64.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.051	0.000	6.880	0.00	6.10
66.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.051	0.000	6.924	0.00	4.36
66.00	Safety Cable	Yes	2.00	0.38	0.42	0.00	0.051	0.000	6.924	0.00	4.12
66.00	Step bolts (ladder)	Yes	2.00	0.63	0.46	0.00	0.051	0.000	6.924	0.00	6.42
66.00	7/8"	Yes	2.00	1.11	0.54	0.00	0.051	0.000	6.924	0.00	6.12
66.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.051	0.000	6.924	0.00	6.12
68.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.052	0.000	6.967	0.00	4.37
68.00	Safety Cable	Yes	2.00	0.38	0.42	0.00	0.052	0.000	6.967	0.00	4.14
68.00	Step bolts (ladder)	Yes	2.00	0.63	0.46	0.00	0.052	0.000	6.967	0.00	6.44
68.00	7/8"	Yes	2.00	1.11	0.54	0.00	0.052	0.000	6.967	0.00	6.14
68.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.052	0.000	6.967	0.00	6.14
70.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.053	0.000	7.009	0.00	4.39
70.00	Safety Cable	Yes	2.00	0.38	0.42	0.00	0.053	0.000	7.009	0.00	4.16
70.00	Step bolts (ladder)	Yes	2.00	0.63	0.46	0.00	0.053	0.000	7.009	0.00	6.46
70.00	7/8"	Yes	2.00	1.11	0.54	0.00	0.053	0.000	7.009	0.00	6.17
70.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.053	0.000	7.009	0.00	6.17
72.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.054	0.000	7.050	0.00	4.41
72.00	Safety Cable	Yes	2.00	0.38	0.42	0.00	0.054	0.000	7.050	0.00	4.17
72.00	Step bolts (ladder)	Yes	2.00	0.63	0.47	0.00	0.054	0.000	7.050	0.00	6.48
72.00	7/8"	Yes	2.00	1.11	0.55	0.00	0.054	0.000	7.050	0.00	6.19
72.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.054	0.000	7.050	0.00	6.19
74.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.054	0.000	7.090	0.00	4.43
74.00	Safety Cable	Yes	2.00	0.38	0.43	0.00	0.054	0.000	7.090	0.00	4.19
74.00	Step bolts (ladder)	Yes	2.00	0.63	0.47	0.00	0.054	0.000	7.090	0.00	6.50
74.00	7/8"	Yes	2.00	1.11	0.55	0.00	0.054	0.000	7.090	0.00	6.21
74.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.054	0.000	7.090	0.00	6.21
76.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.055	0.000	7.129	0.00	4.45
76.00	Safety Cable	Yes	2.00	0.38	0.43	0.00	0.055	0.000	7.129	0.00	4.21
76.00	Step bolts (ladder)	Yes	2.00	0.63	0.47	0.00	0.055	0.000	7.129	0.00	6.51
76.00	7/8"	Yes	2.00	1.11	0.55	0.00	0.055	0.000	7.129	0.00	6.23
76.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.055	0.000	7.129	0.00	6.23
78.00	1/2" Fiber	Yes	2.00	0.00	0.00	0.00	0.056	0.000	7.168	0.00	4.47
78.00	Safety Cable	Yes	2.00	0.38	0.43	0.00	0.056	0.000	7.168	0.00	4.22
78.00	Step bolts (ladder)	Yes	2.00	0.63	0.47	0.00	0.056	0.000	7.168	0.00	6.53
78.00	7/8"	Yes	2.00	1.11	0.55	0.00	0.056	0.000	7.168	0.00	6.25
78.00	7/8"	Yes	2.00	0.00	0.00	0.00	0.056	0.000	7.168	0.00	6.25
79.00	1/2" Fiber	Yes	1.00	0.00	0.00	0.00	0.057	0.000	7.187	0.00	2.24
79.00	Safety Cable	Yes	1.00	0.38	0.21	0.00	0.057	0.000	7.187	0.00	2.12
79.00	Step bolts (ladder)	Yes	1.00	0.63	0.23	0.00	0.057	0.000	7.187	0.00	3.27
79.00	7/8"	Yes	1.00	1.11	0.27	0.00	0.057	0.000	7.187	0.00	3.13

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 55

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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)
79.00	7/8"	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	7.187	0.00	3.13
80.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	7.206	0.00	2.24
80.00	Safety Cable	Yes	1.00	0.000	0.38	0.21	0.00	0.057	0.000	7.206	0.00	2.12
80.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.23	0.00	0.057	0.000	7.206	0.00	3.27
80.00	7/8"	Yes	1.00	0.000	1.11	0.27	0.00	0.057	0.000	7.206	0.00	3.13
82.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	7.243	0.00	4.50
82.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.058	0.000	7.243	0.00	4.26
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.47	0.00	0.058	0.000	7.243	0.00	6.57
82.00	7/8"	Yes	2.00	0.000	1.11	0.55	0.00	0.058	0.000	7.243	0.00	6.29
84.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.279	0.00	4.52
84.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.059	0.000	7.279	0.00	4.27
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.47	0.00	0.059	0.000	7.279	0.00	6.58
84.00	7/8"	Yes	2.00	0.000	1.11	0.55	0.00	0.059	0.000	7.279	0.00	6.30
86.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.315	0.00	4.53
86.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.060	0.000	7.315	0.00	4.29
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.47	0.00	0.060	0.000	7.315	0.00	6.60
86.00	7/8"	Yes	2.00	0.000	1.11	0.55	0.00	0.060	0.000	7.315	0.00	6.32
88.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.350	0.00	4.55
88.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.061	0.000	7.350	0.00	4.30
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.47	0.00	0.061	0.000	7.350	0.00	6.61
88.00	7/8"	Yes	2.00	0.000	1.11	0.55	0.00	0.061	0.000	7.350	0.00	6.34
90.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.385	0.00	4.57
90.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.062	0.000	7.385	0.00	4.32
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.47	0.00	0.062	0.000	7.385	0.00	6.63
90.00	7/8"	Yes	2.00	0.000	1.11	0.55	0.00	0.062	0.000	7.385	0.00	6.36
92.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.418	0.00	4.58
92.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.063	0.000	7.418	0.00	4.33
92.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.47	0.00	0.063	0.000	7.418	0.00	6.65
92.00	7/8"	Yes	2.00	0.000	1.11	0.55	0.00	0.063	0.000	7.418	0.00	6.37
94.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	7.452	0.00	4.60
94.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.064	0.000	7.452	0.00	4.35
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.064	0.000	7.452	0.00	6.66
94.00	7/8"	Yes	2.00	0.000	1.11	0.56	0.00	0.064	0.000	7.452	0.00	6.39
96.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.484	0.00	4.61
96.00	Safety Cable	Yes	2.00	0.000	0.38	0.43	0.00	0.065	0.000	7.484	0.00	4.36
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.065	0.000	7.484	0.00	6.68
96.00	7/8"	Yes	2.00	0.000	1.11	0.56	0.00	0.065	0.000	7.484	0.00	6.41
97.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	7.501	0.00	2.31
97.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.066	0.000	7.501	0.00	2.18
97.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.066	0.000	7.501	0.00	3.34
97.00	7/8"	Yes	1.00	0.000	1.11	0.28	0.00	0.066	0.000	7.501	0.00	3.21
98.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.067	0.000	7.517	0.00	2.31
98.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.067	0.000	7.517	0.00	2.19
98.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.067	0.000	7.517	0.00	3.35
98.00	7/8"	Yes	1.00	0.000	1.11	0.28	0.00	0.067	0.000	7.517	0.00	3.21
100.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	7.548	0.00	4.64
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.067	0.000	7.548	0.00	4.39

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023

Page: 56



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.067	0.000	7.548	0.00	6.70
100.00	7/8"	Yes	2.00	0.000	1.11	0.56	0.00	0.067	0.000	7.548	0.00	6.44
101.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	7.564	0.00	2.32
101.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.068	0.000	7.564	0.00	2.20
101.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.068	0.000	7.564	0.00	3.36
101.00	7/8"	Yes	1.00	0.000	1.11	0.28	0.00	0.068	0.000	7.564	0.00	3.22
102.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	7.580	0.00	2.33
102.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.068	0.000	7.580	0.00	2.20
102.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.068	0.000	7.580	0.00	3.36
102.00	7/8"	Yes	1.00	0.000	1.11	0.28	0.00	0.068	0.000	7.580	0.00	3.23
104.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	7.610	0.00	4.67
104.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.069	0.000	7.610	0.00	4.41
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.069	0.000	7.610	0.00	6.73
104.00	7/8"	Yes	2.00	0.000	1.11	0.56	0.00	0.069	0.000	7.610	0.00	6.47
106.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	7.641	0.00	4.68
106.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.070	0.000	7.641	0.00	4.43
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.070	0.000	7.641	0.00	6.75
106.00	7/8"	Yes	2.00	0.000	1.11	0.56	0.00	0.070	0.000	7.641	0.00	6.49
108.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	7.671	0.00	4.70
108.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.071	0.000	7.671	0.00	4.44
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.071	0.000	7.671	0.00	6.76
108.00	7/8"	Yes	2.00	0.000	1.11	0.56	0.00	0.071	0.000	7.671	0.00	6.50
109.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	7.685	0.00	2.35
109.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.072	0.000	7.685	0.00	2.22
109.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.072	0.000	7.685	0.00	3.38
109.00	7/8"	Yes	1.00	0.000	1.11	0.28	0.00	0.072	0.000	7.685	0.00	3.25
110.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.035	0.000	7.700	0.00	2.36
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.035	0.000	7.700	0.00	2.23
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.035	0.000	7.700	0.00	3.39
112.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.035	0.000	7.729	0.00	4.72
112.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.035	0.000	7.729	0.00	4.46
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.035	0.000	7.729	0.00	6.79
114.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.036	0.000	7.758	0.00	4.74
114.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.036	0.000	7.758	0.00	4.48
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.036	0.000	7.758	0.00	6.80
116.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	7.786	0.00	4.75
116.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.037	0.000	7.786	0.00	4.49
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.037	0.000	7.786	0.00	6.81
118.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	7.814	0.00	4.76
118.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.038	0.000	7.814	0.00	4.50
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.038	0.000	7.814	0.00	6.82
120.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	7.841	0.00	4.77
120.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.038	0.000	7.841	0.00	4.51
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.038	0.000	7.841	0.00	6.84
122.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.039	0.000	7.868	0.00	4.79
122.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.039	0.000	7.868	0.00	4.52
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.039	0.000	7.868	0.00	6.85

Linear Appurtenance Segment Forces (Factored)

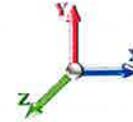
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 57

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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)
124.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.040	0.000	7.895	0.00	4.80
124.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.040	0.000	7.895	0.00	4.53
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.040	0.000	7.895	0.00	6.86
126.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.041	0.000	7.921	0.00	4.81
126.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.041	0.000	7.921	0.00	4.55
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.041	0.000	7.921	0.00	6.87
128.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.042	0.000	7.947	0.00	4.82
128.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.042	0.000	7.947	0.00	4.56
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.042	0.000	7.947	0.00	6.88
130.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.043	0.000	7.973	0.00	4.83
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.043	0.000	7.973	0.00	4.57
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.043	0.000	7.973	0.00	6.90
132.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.044	0.000	7.999	0.00	4.85
132.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.044	0.000	7.999	0.00	4.58
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.044	0.000	7.999	0.00	6.91
134.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.045	0.000	8.024	0.00	4.86
134.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.045	0.000	8.024	0.00	4.59
134.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.045	0.000	8.024	0.00	6.92
136.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.046	0.000	8.049	0.00	4.87
136.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.046	0.000	8.049	0.00	4.60
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.046	0.000	8.049	0.00	6.93
138.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	8.073	0.00	4.88
138.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.048	0.000	8.073	0.00	4.61
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.048	0.000	8.073	0.00	6.94
139.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	8.086	0.00	2.44
139.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.049	0.000	8.086	0.00	2.31
139.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.25	0.00	0.049	0.000	8.086	0.00	3.47
140.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	8.098	0.00	2.45
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.049	0.000	8.098	0.00	2.31
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.25	0.00	0.049	0.000	8.098	0.00	3.48
142.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	8.122	0.00	4.90
142.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.050	0.000	8.122	0.00	4.63
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.050	0.000	8.122	0.00	6.96
144.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	8.145	0.00	4.91
144.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.052	0.000	8.145	0.00	4.64
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.052	0.000	8.145	0.00	6.97
146.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	8.169	0.00	4.92
146.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.054	0.000	8.169	0.00	4.65
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.054	0.000	8.169	0.00	6.98
148.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	8.192	0.00	4.93
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.055	0.000	8.192	0.00	4.66
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.055	0.000	8.192	0.00	6.99
148.25	1/2" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.056	0.000	8.195	0.00	0.62
148.25	Safety Cable	Yes	0.25	0.000	0.38	0.06	0.00	0.056	0.000	8.195	0.00	0.58
148.25	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.06	0.00	0.056	0.000	8.195	0.00	0.87
150.00	1/2" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.057	0.000	8.215	0.00	4.33
150.00	Safety Cable	Yes	1.75	0.000	0.38	0.39	0.00	0.057	0.000	8.215	0.00	4.09

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 58

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 28

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)
150.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.43	0.00	0.057	0.000	8.215	0.00	6.13
150.50	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.058	0.000	8.221	0.00	1.24
150.50	Safety Cable	Yes	0.50	0.000	0.38	0.11	0.00	0.058	0.000	8.221	0.00	1.17
150.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.12	0.00	0.058	0.000	8.221	0.00	1.75
152.00	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.058	0.000	8.238	0.00	3.72
152.00	Safety Cable	Yes	1.50	0.000	0.38	0.34	0.00	0.058	0.000	8.238	0.00	3.51
152.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.37	0.00	0.058	0.000	8.238	0.00	5.26
154.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	8.261	0.00	4.96
154.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.060	0.000	8.261	0.00	4.69
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.060	0.000	8.261	0.00	7.03
156.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	8.283	0.00	4.97
156.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.062	0.000	8.283	0.00	4.70
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.062	0.000	8.283	0.00	7.04
158.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	8.305	0.00	4.98
158.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.064	0.000	8.305	0.00	4.71
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.50	0.00	0.064	0.000	8.305	0.00	7.05
159.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	8.316	0.00	2.49
159.00	Safety Cable	Yes	1.00	0.000	0.38	0.23	0.00	0.066	0.000	8.316	0.00	2.36
159.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.25	0.00	0.066	0.000	8.316	0.00	3.53
Totals:											0.0	1,816.6

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 59

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

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	-71.32	-9.94	0.00	-1193.3	0.00	1193.30	4389.95	1207.86	5794.89	5230.24	0.00	0.000	0.000	0.244
2.00	-70.50	-9.90	0.00	-1173.4	0.00	1173.42	4366.21	1196.05	5682.12	5150.75	0.01	-0.023	0.000	0.244
4.00	-69.69	-9.86	0.00	-1153.6	0.00	1153.63	4342.08	1184.24	5570.46	5071.39	0.02	-0.047	0.000	0.244
6.00	-68.87	-9.82	0.00	-1133.9	0.00	1133.91	4317.58	1172.43	5459.91	4992.14	0.04	-0.070	0.000	0.243
8.00	-68.06	-9.78	0.00	-1114.2	0.00	1114.26	4292.70	1160.62	5350.46	4913.05	0.08	-0.094	0.000	0.243
10.00	-67.25	-9.75	0.00	-1094.6	0.00	1094.69	4267.44	1148.80	5242.12	4834.10	0.12	-0.119	0.000	0.242
12.00	-66.45	-9.71	0.00	-1075.2	0.00	1075.20	4241.80	1136.99	5134.89	4755.32	0.18	-0.143	0.000	0.242
14.00	-65.64	-9.67	0.00	-1055.7	0.00	1055.78	4215.78	1125.18	5028.77	4676.73	0.25	-0.168	0.000	0.241
16.00	-64.85	-9.63	0.00	-1036.4	0.00	1036.44	4189.38	1113.37	4923.76	4598.33	0.32	-0.194	0.000	0.241
18.00	-64.06	-9.59	0.00	-1017.1	0.00	1017.17	4162.60	1101.56	4819.85	4520.13	0.41	-0.219	0.000	0.240
20.00	-63.27	-9.55	0.00	-997.98	0.00	997.98	4135.45	1089.75	4717.06	4442.16	0.51	-0.245	0.000	0.240
22.00	-62.49	-9.51	0.00	-978.87	0.00	978.87	4107.92	1077.94	4615.37	4364.42	0.61	-0.272	0.000	0.240
24.00	-61.72	-9.47	0.00	-959.85	0.00	959.85	4080.00	1066.13	4514.79	4286.93	0.73	-0.298	0.000	0.239
26.00	-60.95	-9.43	0.00	-940.91	0.00	940.91	4051.71	1054.32	4415.31	4209.70	0.86	-0.326	0.000	0.239
28.00	-60.19	-9.38	0.00	-922.05	0.00	922.05	4023.04	1042.51	4316.95	4132.74	1.01	-0.353	0.000	0.238
30.00	-59.43	-9.34	0.00	-903.29	0.00	903.29	3994.00	1030.70	4219.69	4056.08	1.16	-0.381	0.000	0.238
32.00	-58.68	-9.30	0.00	-884.61	0.00	884.61	3964.57	1018.89	4123.54	3979.71	1.33	-0.409	0.000	0.237
34.00	-57.93	-9.25	0.00	-866.02	0.00	866.02	3934.76	1007.08	4028.50	3903.66	1.50	-0.437	0.000	0.237
36.00	-57.20	-9.20	0.00	-847.52	0.00	847.52	3904.58	995.27	3934.57	3827.93	1.69	-0.466	0.000	0.236
38.00	-56.46	-9.16	0.00	-829.11	0.00	829.11	3874.01	983.46	3841.74	3752.55	1.90	-0.496	0.000	0.236
40.00	-55.74	-9.11	0.00	-810.79	0.00	810.79	3843.07	971.65	3750.03	3677.52	2.11	-0.525	0.000	0.235
42.00	-55.01	-9.07	0.00	-792.57	0.00	792.57	3811.75	959.84	3659.42	3602.86	2.34	-0.556	0.000	0.235
44.00	-54.30	-9.02	0.00	-774.43	0.00	774.43	3780.05	948.03	3569.92	3528.58	2.58	-0.586	0.000	0.234
46.00	-53.48	-8.91	0.00	-756.38	0.00	756.38	3747.97	936.22	3481.52	3454.69	2.83	-0.617	0.000	0.233
47.50	-52.96	-8.87	0.00	-743.02	0.00	743.02	3723.67	927.36	3415.96	3399.54	3.03	-0.641	0.000	0.233
48.00	-52.67	-8.86	0.00	-738.59	0.00	738.59	3715.52	924.41	3394.24	3381.21	3.09	-0.649	0.000	0.233
50.00	-51.54	-8.81	0.00	-720.86	0.00	720.86	3682.68	912.60	3308.06	3308.15	3.37	-0.681	0.000	0.232
52.00	-50.42	-8.75	0.00	-703.24	0.00	703.24	3649.47	900.79	3223.00	3235.53	3.66	-0.713	0.000	0.231
53.25	-49.73	-8.72	0.00	-692.30	0.00	692.30	3672.80	909.07	3282.55	3286.43	3.85	-0.733	0.000	0.224
54.00	-49.47	-8.71	0.00	-685.76	0.00	685.76	3660.35	904.64	3250.65	3259.19	3.97	-0.746	0.000	0.224
56.00	-48.79	-8.66	0.00	-668.35	0.00	668.35	3626.88	892.83	3166.32	3186.86	4.29	-0.777	0.000	0.223
58.00	-48.12	-8.61	0.00	-651.04	0.00	651.04	3593.03	881.02	3083.11	3115.00	4.62	-0.809	0.000	0.222
60.00	-47.45	-8.56	0.00	-633.83	0.00	633.83	3558.80	869.21	3001.01	3043.60	4.97	-0.842	0.000	0.222
62.00	-46.79	-8.51	0.00	-616.72	0.00	616.72	3524.20	857.40	2920.01	2972.69	5.33	-0.875	0.000	0.221
64.00	-46.13	-8.46	0.00	-599.71	0.00	599.71	3489.21	845.59	2840.12	2902.27	5.70	-0.908	0.000	0.220
66.00	-45.48	-8.41	0.00	-582.80	0.00	582.80	3453.85	833.78	2761.34	2832.36	6.09	-0.942	0.000	0.219
68.00	-44.84	-8.36	0.00	-565.98	0.00	565.98	3418.11	821.97	2683.66	2762.97	6.49	-0.976	0.000	0.218
70.00	-44.20	-8.31	0.00	-549.27	0.00	549.27	3381.99	810.16	2607.10	2694.13	6.91	-1.010	0.000	0.217
72.00	-43.57	-8.26	0.00	-532.65	0.00	532.65	3345.49	798.35	2531.64	2625.83	7.34	-1.046	0.000	0.216
74.00	-42.95	-8.21	0.00	-516.13	0.00	516.13	3308.61	786.54	2457.29	2558.09	7.78	-1.081	0.000	0.215
76.00	-42.34	-8.16	0.00	-499.71	0.00	499.71	3271.35	774.73	2384.05	2490.93	8.24	-1.117	0.000	0.214
78.00	-41.73	-8.11	0.00	-483.39	0.00	483.39	3229.69	762.92	2311.92	2421.35	8.72	-1.154	0.000	0.213
79.00	-41.30	-7.98	0.00	-475.07	0.00	475.07	3204.69	757.01	2276.27	2383.82	8.96	-1.172	0.000	0.212
80.00	-41.00	-7.96	0.00	-467.10	0.00	467.10	3179.70	751.11	2240.89	2346.59	9.21	-1.191	0.000	0.212
82.00	-40.41	-7.91	0.00	-451.18	0.00	451.18	3129.70	739.30	2170.98	2273.00	9.72	-1.228	0.000	0.212
84.00	-39.83	-7.86	0.00	-435.36	0.00	435.36	3079.70	727.49	2102.17	2200.58	10.24	-1.266	0.000	0.211
86.00	-39.25	-7.82	0.00	-419.63	0.00	419.63	3029.70	715.68	2034.47	2129.34	10.78	-1.304	0.000	0.210
88.00	-38.68	-7.77	0.00	-404.00	0.00	404.00	2979.71	703.87	1967.87	2059.26	11.33	-1.343	0.000	0.209

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 60



90.00	-38.12	-7.72	0.00	-388.46	0.00	388.46	2929.71	692.06	1902.39	1990.36	11.91	-1.382	0.000	0.208
92.00	-37.56	-7.68	0.00	-373.01	0.00	373.01	2879.71	680.25	1838.01	1922.64	12.49	-1.422	0.000	0.207
94.00	-37.01	-7.63	0.00	-357.65	0.00	357.65	2829.72	668.44	1774.74	1856.08	13.10	-1.462	0.000	0.206
96.00	-36.47	-7.58	0.00	-342.39	0.00	342.39	2779.72	656.63	1712.58	1790.70	13.72	-1.502	0.000	0.204
97.00	-36.21	-7.56	0.00	-334.81	0.00	334.81	2754.72	650.72	1681.92	1758.45	14.04	-1.523	0.000	0.204
98.00	-35.81	-7.54	0.00	-327.25	0.00	327.25	2729.72	644.82	1651.53	1726.49	14.36	-1.544	0.000	0.203
100.00	-35.03	-7.48	0.00	-312.18	0.00	312.18	2679.72	633.01	1591.59	1663.45	15.01	-1.585	0.000	0.201
101.00	-34.64	-7.45	0.00	-304.70	0.00	304.70	2260.79	534.55	1361.99	1425.24	15.35	-1.606	0.000	0.229
102.00	-34.40	-7.44	0.00	-297.25	0.00	297.25	2242.10	529.63	1337.03	1400.31	15.69	-1.627	0.000	0.228
104.00	-33.92	-7.40	0.00	-282.37	0.00	282.37	2200.44	519.79	1287.80	1348.49	16.38	-1.674	0.000	0.225
106.00	-33.45	-7.36	0.00	-267.57	0.00	267.57	2158.77	509.95	1239.49	1297.65	17.09	-1.720	0.000	0.222
108.00	-32.99	-7.31	0.00	-252.86	0.00	252.86	2117.11	500.10	1192.11	1247.79	17.82	-1.767	0.000	0.218
109.00	-32.63	-7.17	0.00	-245.33	0.00	245.33	2096.28	495.18	1168.77	1223.22	18.19	-1.791	0.000	0.216
110.00	-32.41	-7.16	0.00	-238.16	0.00	238.16	2075.44	490.26	1145.65	1198.90	18.57	-1.815	0.000	0.214
112.00	-31.96	-7.12	0.00	-223.85	0.00	223.85	2033.78	480.42	1100.12	1150.99	19.34	-1.862	0.000	0.210
114.00	-31.52	-7.08	0.00	-209.61	0.00	209.61	1992.11	470.58	1055.50	1104.05	20.13	-1.909	0.000	0.206
116.00	-31.09	-7.04	0.00	-195.46	0.00	195.46	1950.45	460.74	1011.82	1058.10	20.94	-1.955	0.000	0.201
118.00	-30.67	-7.00	0.00	-181.39	0.00	181.39	1908.79	450.89	969.05	1013.12	21.77	-2.002	0.000	0.195
120.00	-30.25	-6.96	0.00	-167.40	0.00	167.40	1867.12	441.05	927.21	969.11	22.62	-2.047	0.000	0.189
122.00	-29.83	-6.92	0.00	-153.49	0.00	153.49	1825.46	431.21	886.29	926.09	23.48	-2.092	0.000	0.182
124.00	-29.43	-6.88	0.00	-139.66	0.00	139.66	1783.79	421.37	846.29	884.04	24.37	-2.136	0.000	0.175
126.00	-29.03	-6.83	0.00	-125.91	0.00	125.91	1742.13	411.53	807.22	842.97	25.27	-2.178	0.000	0.166
128.00	-28.63	-6.79	0.00	-112.24	0.00	112.24	1700.47	401.68	769.07	802.87	26.20	-2.219	0.000	0.157
130.00	-20.84	-5.03	0.00	-98.66	0.00	98.66	1658.80	391.84	731.85	763.75	27.13	-2.258	0.000	0.142
132.00	-20.49	-4.99	0.00	-88.60	0.00	88.60	1617.14	382.00	695.54	725.61	28.09	-2.295	0.000	0.135
134.00	-20.15	-4.94	0.00	-78.63	0.00	78.63	1575.47	372.16	660.17	688.45	29.06	-2.331	0.000	0.127
136.00	-19.82	-4.90	0.00	-68.74	0.00	68.74	1533.81	362.32	625.71	652.26	30.04	-2.365	0.000	0.118
138.00	-19.49	-4.85	0.00	-58.95	0.00	58.95	1492.14	352.47	592.18	617.05	31.04	-2.398	0.000	0.109
139.00	-13.51	-3.42	0.00	-54.10	0.00	54.10	1471.31	347.55	575.76	599.82	31.54	-2.413	0.000	0.099
140.00	-13.37	-3.40	0.00	-50.68	0.00	50.68	1450.48	342.63	559.57	582.82	32.05	-2.428	0.000	0.096
142.00	-13.10	-3.35	0.00	-43.88	0.00	43.88	1408.82	332.79	527.89	549.57	33.07	-2.456	0.000	0.089
144.00	-12.83	-3.31	0.00	-37.17	0.00	37.17	1367.15	322.95	497.12	517.29	34.11	-2.483	0.000	0.081
146.00	-12.56	-3.27	0.00	-30.55	0.00	30.55	1325.49	313.11	467.29	485.99	35.15	-2.507	0.000	0.072
148.00	-7.47	-1.94	0.00	-23.08	0.00	23.08	1283.82	303.27	438.37	455.66	36.21	-2.528	0.000	0.057
148.25	-7.44	-1.94	0.00	-22.59	0.00	22.59	1278.61	302.03	434.82	451.94	36.34	-2.530	0.000	0.056
150.00	-7.14	-1.89	0.00	-19.20	0.00	19.20	1242.16	293.42	410.38	426.31	37.27	-2.546	0.000	0.051
150.50	-7.06	-1.88	0.00	-18.26	0.00	18.26	761.15	179.80	256.82	268.81	37.54	-2.551	0.000	0.077
152.00	-6.92	-1.85	0.00	-15.43	0.00	15.43	742.40	175.37	244.32	255.66	38.34	-2.563	0.000	0.070
154.00	-6.74	-1.81	0.00	-11.73	0.00	11.73	717.40	169.47	228.14	238.64	39.42	-2.585	0.000	0.059
156.00	-6.56	-1.77	0.00	-8.11	0.00	8.11	692.41	163.56	212.52	222.21	40.50	-2.602	0.000	0.046
158.00	-6.39	-1.73	0.00	-4.57	0.00	4.57	667.41	157.66	197.45	206.36	41.60	-2.615	0.000	0.032
159.00	0.00	-1.44	0.00	-2.84	0.00	2.84	654.91	154.70	190.13	198.65	42.14	-2.619	0.000	0.014

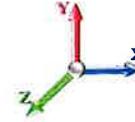
Seismic Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 61

Load Case: 1.2D + 1.0Ev + 1.0Eh				Iterations 25
Gust Response Factor	1.10	Sds	0.22	Ss 0.20
Dead Load Factor	1.20	Seismic Load Factor	1.00	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.31	SA 0.03
				Seismic Importance Factor 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	
2.00		588.37	1.00	25.61	0.00	
4.00		583.79	3.00	25.41	0.00	
6.00		579.21	5.00	25.21	0.01	
8.00		574.63	7.00	25.01	0.01	
10.00		570.05	9.00	24.81	0.02	
12.00		565.47	11.00	24.61	0.03	
14.00		560.89	13.00	24.41	0.04	
16.00		556.31	15.00	24.21	0.05	
18.00		551.73	17.00	24.01	0.06	
20.00		547.15	19.00	23.81	0.07	
22.00		542.57	21.00	23.61	0.09	
24.00		537.99	23.00	23.41	0.10	
26.00		533.41	25.00	23.21	0.12	
28.00		528.83	27.00	23.01	0.14	
30.00		524.25	29.00	22.82	0.15	
32.00		519.67	31.00	22.62	0.17	
34.00		515.09	33.00	22.42	0.19	
36.00		510.51	35.00	22.22	0.21	
38.00		505.93	37.00	22.02	0.23	
40.00		501.35	39.00	21.82	0.25	
42.00		496.77	41.00	21.62	0.27	
44.00		492.20	43.00	21.42	0.30	
46.00	Appurtenance(s)	550.94	45.00	23.98	0.41	
47.50	Bot - Section 2	362.71	46.75	15.78	0.19	
48.00		211.61	47.75	9.21	0.07	
50.00		840.52	49.00	36.58	1.12	
52.00		831.17	51.00	36.17	1.19	
53.25	Top - Section 1	514.83	52.63	22.41	0.49	
54.00		177.58	53.63	7.73	0.06	
56.00		470.41	55.00	20.47	0.44	
58.00		465.83	57.00	20.27	0.47	
60.00		461.25	59.00	20.07	0.49	
62.00		456.67	61.00	19.87	0.51	
64.00		452.09	63.00	19.67	0.54	
66.00		447.51	65.00	19.48	0.56	
68.00		442.93	67.00	19.28	0.58	
70.00		438.35	69.00	19.08	0.61	
72.00		433.77	71.00	18.88	0.63	
74.00		429.19	73.00	18.68	0.65	
76.00		424.61	75.00	18.48	0.67	
78.00		420.03	77.00	18.28	0.69	
79.00	Appurtenance(s)	272.02	78.50	11.84	0.30	
80.00		206.53	79.50	8.99	0.18	
82.00		409.62	81.00	17.83	0.73	
84.00		405.04	83.00	17.63	0.75	

R: 1.50

Seismic Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 62
	Struct Class: II	



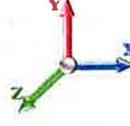
86.00		400.46	85.00	17.43	0.77
88.00		395.88	87.00	17.23	0.79
90.00		391.30	89.00	17.03	0.80
92.00		386.72	91.00	16.83	0.82
94.00		382.14	93.00	16.63	0.84
96.00		377.56	95.00	16.43	0.85
97.00	Bot - Section 3	187.06	96.50	8.14	0.22
98.00		292.90	97.50	12.75	0.54
100.00		579.51	99.00	25.22	2.18
101.00	Top - Section 2	286.61	100.50	12.47	0.55
102.00		163.49	101.50	7.12	0.18
104.00		324.12	103.00	14.11	0.74
106.00		320.30	105.00	13.94	0.75
108.00		316.48	107.00	13.77	0.76
109.00	Appurtenance(s)	220.53	108.50	9.60	0.38
110.00		155.23	109.50	6.76	0.19
112.00		307.60	111.00	13.39	0.77
114.00		303.79	113.00	13.22	0.78
116.00		299.97	115.00	13.05	0.79
118.00		296.15	117.00	12.89	0.80
120.00		292.34	119.00	12.72	0.80
122.00		288.52	121.00	12.56	0.81
124.00		284.70	123.00	12.39	0.81
126.00		280.89	125.00	12.22	0.82
128.00		277.07	127.00	12.06	0.82
130.00	Appurtenance(s)	3408.2	129.00	148.33	128.10
132.00		236.46	131.00	10.29	0.64
134.00		232.65	133.00	10.12	0.63
136.00		228.83	135.00	9.96	0.63
138.00		225.01	137.00	9.79	0.63
139.00	Appurtenance(s)	3142.2	138.50	136.75	125.51
140.00		90.54	139.50	3.94	0.11
142.00		178.21	141.00	7.76	0.42
144.00		174.40	143.00	7.59	0.41
146.00		170.58	145.00	7.42	0.41
148.00	Appurtenance(s)	2645.8	147.00	115.15	100.25
148.25	Bot - Section 4	20.58	148.13	0.90	0.01
150.00		204.75	149.13	8.91	0.62
150.50	Top - Section 3	55.35	150.25	2.41	0.05
152.00		80.22	151.25	3.49	0.10
154.00		104.96	153.00	4.57	0.17
156.00		102.67	155.00	4.47	0.17
158.00		100.38	157.00	4.37	0.16
159.00	Appurtenance(s)	4002.4	158.50	174.19	266.69
Totals:		45,227.1		1,968.3	659.1
					Total Wind: 38,314.4

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 63

Load Case: 1.2D + 1.0Ev + 1.0Eh							Iterations 25
Gust Response Factor	1.10	Sds	0.22	Ss	0.20		
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1	0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.31	SA	0.03	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	-54.50	-0.66	0.00	-101.70	0.00	101.70	4389.95	1207.86	5794.89	5230.24	0.00	0.00	0.00	0.032
2.00	-53.79	-0.66	0.00	-100.38	0.00	100.38	4366.21	1196.05	5682.12	5150.75	0.00	0.00	0.00	0.032
4.00	-53.09	-0.66	0.00	-99.06	0.00	99.06	4342.08	1184.24	5570.46	5071.39	0.00	0.00	0.00	0.032
6.00	-52.39	-0.66	0.00	-97.74	0.00	97.74	4317.58	1172.43	5459.91	4992.14	0.00	-0.01	-0.01	0.032
8.00	-51.70	-0.67	0.00	-96.41	0.00	96.41	4292.70	1160.62	5350.46	4913.05	0.01	-0.01	-0.01	0.032
10.00	-51.02	-0.67	0.00	-95.08	0.00	95.08	4267.44	1148.80	5242.12	4834.10	0.01	-0.01	-0.01	0.032
12.00	-50.34	-0.67	0.00	-93.75	0.00	93.75	4241.80	1136.99	5134.89	4755.32	0.02	-0.01	-0.01	0.032
14.00	-49.67	-0.67	0.00	-92.41	0.00	92.41	4215.78	1125.18	5028.77	4676.73	0.02	-0.01	-0.01	0.032
16.00	-49.00	-0.67	0.00	-91.07	0.00	91.07	4189.38	1113.37	4923.76	4598.33	0.03	-0.02	-0.02	0.032
18.00	-48.34	-0.67	0.00	-89.72	0.00	89.72	4162.60	1101.56	4819.85	4520.13	0.04	-0.02	-0.02	0.031
20.00	-47.68	-0.68	0.00	-88.38	0.00	88.38	4135.45	1089.75	4717.06	4442.16	0.04	-0.02	-0.02	0.031
22.00	-47.03	-0.68	0.00	-87.03	0.00	87.03	4107.92	1077.94	4615.37	4364.42	0.05	-0.02	-0.02	0.031
24.00	-46.39	-0.68	0.00	-85.67	0.00	85.67	4080.00	1066.13	4514.79	4286.93	0.06	-0.03	-0.03	0.031
26.00	-45.75	-0.68	0.00	-84.32	0.00	84.32	4051.71	1054.32	4415.31	4209.70	0.07	-0.03	-0.03	0.031
28.00	-45.12	-0.68	0.00	-82.96	0.00	82.96	4023.04	1042.51	4316.95	4132.74	0.09	-0.03	-0.03	0.031
30.00	-44.49	-0.68	0.00	-81.59	0.00	81.59	3994.00	1030.70	4219.69	4056.08	0.10	-0.03	-0.03	0.031
32.00	-43.87	-0.68	0.00	-80.23	0.00	80.23	3964.57	1018.89	4123.54	3979.71	0.12	-0.04	-0.04	0.031
34.00	-43.25	-0.69	0.00	-78.86	0.00	78.86	3934.76	1007.08	4028.50	3903.66	0.13	-0.04	-0.04	0.031
36.00	-42.64	-0.69	0.00	-77.49	0.00	77.49	3904.58	995.27	3934.57	3827.93	0.15	-0.04	-0.04	0.031
38.00	-42.04	-0.69	0.00	-76.11	0.00	76.11	3874.01	983.46	3841.74	3752.55	0.17	-0.04	-0.04	0.031
40.00	-41.44	-0.69	0.00	-74.74	0.00	74.74	3843.07	971.65	3750.03	3677.52	0.18	-0.05	-0.05	0.031
42.00	-40.84	-0.69	0.00	-73.36	0.00	73.36	3811.75	959.84	3659.42	3602.86	0.20	-0.05	-0.05	0.031
44.00	-40.26	-0.69	0.00	-71.97	0.00	71.97	3780.05	948.03	3569.92	3528.58	0.23	-0.05	-0.05	0.031
46.00	-39.60	-0.69	0.00	-70.59	0.00	70.59	3747.97	936.22	3481.52	3454.69	0.25	-0.06	-0.06	0.031
47.50	-39.16	-0.69	0.00	-69.55	0.00	69.55	3723.67	927.36	3415.96	3399.54	0.27	-0.06	-0.06	0.031
48.00	-38.91	-0.69	0.00	-69.20	0.00	69.20	3715.52	924.41	3394.24	3381.21	0.27	-0.06	-0.06	0.031
50.00	-37.88	-0.69	0.00	-67.82	0.00	67.82	3682.68	912.60	3308.06	3308.15	0.30	-0.06	-0.06	0.031
52.00	-36.88	-0.69	0.00	-66.43	0.00	66.43	3649.47	900.79	3223.00	3235.53	0.32	-0.06	-0.06	0.031
53.25	-36.25	-0.69	0.00	-65.56	0.00	65.56	3672.80	909.07	3282.55	3286.43	0.34	-0.07	-0.07	0.030
54.00	-36.04	-0.69	0.00	-65.04	0.00	65.04	3660.35	904.64	3250.65	3259.19	0.35	-0.07	-0.07	0.030
56.00	-35.48	-0.70	0.00	-63.65	0.00	63.65	3626.88	892.83	3166.32	3186.86	0.38	-0.07	-0.07	0.030
58.00	-34.92	-0.70	0.00	-62.26	0.00	62.26	3593.03	881.02	3083.11	3115.00	0.41	-0.07	-0.07	0.030
60.00	-34.37	-0.70	0.00	-60.87	0.00	60.87	3558.80	869.21	3001.01	3043.60	0.44	-0.08	-0.08	0.030
62.00	-33.83	-0.70	0.00	-59.48	0.00	59.48	3524.20	857.40	2920.01	2972.69	0.47	-0.08	-0.08	0.030
64.00	-33.29	-0.70	0.00	-58.08	0.00	58.08	3489.21	845.59	2840.12	2902.27	0.51	-0.08	-0.08	0.030
66.00	-32.76	-0.70	0.00	-56.69	0.00	56.69	3453.85	833.78	2761.34	2832.36	0.54	-0.09	-0.09	0.030
68.00	-32.23	-0.70	0.00	-55.29	0.00	55.29	3418.11	821.97	2683.66	2762.97	0.58	-0.09	-0.09	0.029
70.00	-31.71	-0.70	0.00	-53.90	0.00	53.90	3381.99	810.16	2607.10	2694.13	0.62	-0.09	-0.09	0.029
72.00	-31.20	-0.70	0.00	-52.50	0.00	52.50	3345.49	798.35	2531.64	2625.83	0.66	-0.10	-0.10	0.029
74.00	-30.69	-0.70	0.00	-51.10	0.00	51.10	3308.61	786.54	2457.29	2558.09	0.70	-0.10	-0.10	0.029
76.00	-30.19	-0.70	0.00	-49.70	0.00	49.70	3271.35	774.73	2384.05	2490.93	0.74	-0.10	-0.10	0.029
78.00	-29.69	-0.70	0.00	-48.30	0.00	48.30	3229.69	762.92	2311.92	2421.35	0.79	-0.11	-0.11	0.029
79.00	-29.36	-0.70	0.00	-47.60	0.00	47.60	3204.69	757.01	2276.27	2383.82	0.81	-0.11	-0.11	0.029
80.00	-29.12	-0.70	0.00	-46.90	0.00	46.90	3179.70	751.11	2240.89	2346.59	0.83	-0.11	-0.11	0.029
82.00	-28.63	-0.70	0.00	-45.50	0.00	45.50	3129.70	739.30	2170.98	2273.00	0.88	-0.11	-0.11	0.029
84.00	-28.15	-0.70	0.00	-44.09	0.00	44.09	3079.70	727.49	2102.17	2200.58	0.93	-0.12	-0.12	0.029
86.00	-27.68	-0.70	0.00	-42.69	0.00	42.69	3029.70	715.68	2034.47	2129.34	0.98	-0.12	-0.12	0.029

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 64



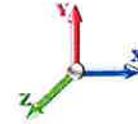
88.00	-27.21	-0.70	0.00	-41.29	0.00	41.29	2979.71	703.87	1967.87	2059.26	1.03	-0.13	0.029
90.00	-26.75	-0.70	0.00	-39.88	0.00	39.88	2929.71	692.06	1902.39	1990.36	1.08	-0.13	0.029
92.00	-26.29	-0.70	0.00	-38.48	0.00	38.48	2879.71	680.25	1838.01	1922.64	1.14	-0.13	0.029
94.00	-25.84	-0.70	0.00	-37.08	0.00	37.08	2829.72	668.44	1774.74	1856.08	1.20	-0.14	0.029
96.00	-25.39	-0.70	0.00	-35.67	0.00	35.67	2779.72	656.63	1712.58	1790.70	1.25	-0.14	0.029
97.00	-25.17	-0.70	0.00	-34.97	0.00	34.97	2754.72	650.72	1681.92	1758.45	1.28	-0.14	0.029
98.00	-24.82	-0.70	0.00	-34.27	0.00	34.27	2729.72	644.82	1651.53	1726.49	1.32	-0.15	0.029
100.00	-24.12	-0.70	0.00	-32.87	0.00	32.87	2679.72	633.01	1591.59	1663.45	1.38	-0.15	0.029
101.00	-23.78	-0.70	0.00	-32.17	0.00	32.17	2260.79	534.55	1361.99	1425.24	1.41	-0.15	0.033
102.00	-23.59	-0.70	0.00	-31.47	0.00	31.47	2242.10	529.63	1337.03	1400.31	1.44	-0.16	0.033
104.00	-23.21	-0.70	0.00	-30.07	0.00	30.07	2200.44	519.79	1287.80	1348.49	1.51	-0.16	0.033
106.00	-22.84	-0.70	0.00	-28.67	0.00	28.67	2158.77	509.95	1239.49	1297.65	1.58	-0.17	0.033
108.00	-22.47	-0.70	0.00	-27.27	0.00	27.27	2117.11	500.10	1192.11	1247.79	1.65	-0.17	0.032
109.00	-22.20	-0.70	0.00	-26.58	0.00	26.58	2096.28	495.18	1168.77	1223.22	1.68	-0.17	0.032
110.00	-22.02	-0.70	0.00	-25.88	0.00	25.88	2075.44	490.26	1145.65	1198.90	1.72	-0.18	0.032
112.00	-21.66	-0.70	0.00	-24.48	0.00	24.48	2033.78	480.42	1100.12	1150.99	1.79	-0.18	0.032
114.00	-21.31	-0.70	0.00	-23.08	0.00	23.08	1992.11	470.58	1055.50	1104.05	1.87	-0.19	0.032
116.00	-20.96	-0.70	0.00	-21.68	0.00	21.68	1950.45	460.74	1011.82	1058.10	1.95	-0.19	0.031
118.00	-20.62	-0.70	0.00	-20.28	0.00	20.28	1908.79	450.89	969.05	1013.12	2.03	-0.20	0.031
120.00	-20.28	-0.70	0.00	-18.88	0.00	18.88	1867.12	441.05	927.21	969.11	2.12	-0.20	0.030
122.00	-19.94	-0.70	0.00	-17.48	0.00	17.48	1825.46	431.21	886.29	926.09	2.20	-0.21	0.030
124.00	-19.61	-0.70	0.00	-16.08	0.00	16.08	1783.79	421.37	846.29	884.04	2.29	-0.21	0.029
126.00	-19.29	-0.70	0.00	-14.68	0.00	14.68	1742.13	411.53	807.22	842.97	2.38	-0.22	0.028
128.00	-18.97	-0.70	0.00	-13.28	0.00	13.28	1700.47	401.68	769.07	802.87	2.47	-0.22	0.028
130.00	-14.75	-0.56	0.00	-11.88	0.00	11.88	1658.80	391.84	731.85	763.75	2.56	-0.23	0.024
132.00	-14.47	-0.55	0.00	-10.77	0.00	10.77	1617.14	382.00	695.54	725.61	2.66	-0.23	0.024
134.00	-14.20	-0.55	0.00	-9.66	0.00	9.66	1575.47	372.16	660.17	688.45	2.76	-0.23	0.023
136.00	-13.94	-0.55	0.00	-8.55	0.00	8.55	1533.81	362.32	625.71	652.26	2.86	-0.24	0.022
138.00	-13.67	-0.55	0.00	-7.45	0.00	7.45	1492.14	352.47	592.18	617.05	2.96	-0.24	0.021
139.00	-9.77	-0.41	0.00	-6.90	0.00	6.90	1471.31	347.55	575.76	599.82	3.01	-0.25	0.018
140.00	-9.67	-0.41	0.00	-6.49	0.00	6.49	1450.48	342.63	559.57	582.82	3.06	-0.25	0.018
142.00	-9.45	-0.41	0.00	-5.66	0.00	5.66	1408.82	332.79	527.89	549.57	3.16	-0.25	0.017
144.00	-9.25	-0.41	0.00	-4.84	0.00	4.84	1367.15	322.95	497.12	517.29	3.27	-0.25	0.016
146.00	-9.04	-0.41	0.00	-4.03	0.00	4.03	1325.49	313.11	467.29	485.99	3.38	-0.26	0.015
148.00	-5.76	-0.29	0.00	-3.21	0.00	3.21	1283.82	303.27	438.37	455.66	3.48	-0.26	0.012
148.25	-5.74	-0.29	0.00	-3.14	0.00	3.14	1278.61	302.03	434.82	451.94	3.50	-0.26	0.011
150.00	-5.49	-0.29	0.00	-2.62	0.00	2.62	1242.16	293.42	410.38	426.31	3.59	-0.26	0.011
150.50	-5.43	-0.29	0.00	-2.48	0.00	2.48	761.15	179.80	256.82	268.81	3.62	-0.26	0.016
152.00	-5.33	-0.29	0.00	-2.04	0.00	2.04	742.40	175.37	244.32	255.66	3.70	-0.26	0.015
154.00	-5.21	-0.29	0.00	-1.45	0.00	1.45	717.40	169.47	228.14	238.64	3.82	-0.27	0.013
156.00	-5.09	-0.29	0.00	-0.87	0.00	0.87	692.41	163.56	212.52	222.21	3.93	-0.27	0.011
158.00	-4.97	-0.29	0.00	-0.29	0.00	0.29	667.41	157.66	197.45	206.36	4.04	-0.27	0.009
159.00	0.00	-0.27	0.00	0.00	0.00	0.00	654.91	154.70	190.13	198.65	4.10	-0.27	0.000

Seismic Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 65
	Struct Class: II	



Load Case: 0.9D + 1.0Ev + 1.0Eh				Iterations 25
Gust Response Factor	1.10	Sds	0.22	Ss 0.20
Dead Load Factor	0.90	Seismic Load Factor	1.00	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.31	SA 0.03
				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	
2.00		557.80	1.00	24.28	0.00	
4.00		553.22	3.00	24.08	0.00	
6.00		548.64	5.00	23.88	0.01	
8.00		544.06	7.00	23.68	0.01	
10.00		539.48	9.00	23.48	0.02	
12.00		534.90	11.00	23.28	0.02	
14.00		530.32	13.00	23.08	0.03	
16.00		525.74	15.00	22.88	0.04	
18.00		521.16	17.00	22.68	0.05	
20.00		516.58	19.00	22.48	0.06	
22.00		512.00	21.00	22.28	0.08	
24.00		507.42	23.00	22.08	0.09	
26.00		502.84	25.00	21.88	0.11	
28.00		498.26	27.00	21.68	0.12	
30.00		493.68	29.00	21.49	0.14	
32.00		489.10	31.00	21.29	0.15	
34.00		484.52	33.00	21.09	0.17	
36.00		479.94	35.00	20.89	0.19	
38.00		475.37	37.00	20.69	0.21	
40.00		470.79	39.00	20.49	0.23	
42.00		466.21	41.00	20.29	0.25	
44.00		461.63	43.00	20.09	0.27	
46.00	Appurtenance(s)	520.37	45.00	22.65	0.37	
47.50	Bot - Section 2	339.78	46.75	14.79	0.17	
48.00		203.97	47.75	8.88	0.06	
50.00		810.00	49.00	35.25	1.06	
52.00		800.69	51.00	34.85	1.12	
53.25	Top - Section 1	495.78	52.63	21.58	0.46	
54.00		166.16	53.63	7.23	0.05	
56.00		439.93	55.00	19.15	0.39	
58.00		435.35	57.00	18.95	0.41	
60.00		430.77	59.00	18.75	0.43	
62.00		426.19	61.00	18.55	0.45	
64.00		421.61	63.00	18.35	0.47	
66.00		417.03	65.00	18.15	0.49	
68.00		412.45	67.00	17.95	0.51	
70.00		407.88	69.00	17.75	0.53	
72.00		403.30	71.00	17.55	0.55	
74.00		398.72	73.00	17.35	0.57	
76.00		394.14	75.00	17.15	0.59	
78.00		389.56	77.00	16.95	0.61	
79.00	Appurtenance(s)	256.78	78.50	11.18	0.27	
80.00		191.45	79.50	8.33	0.16	
82.00		379.46	81.00	16.51	0.64	
84.00		374.88	83.00	16.31	0.65	

Seismic Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 66



86.00		370.30	85.00	16.12	0.67
88.00		365.72	87.00	15.92	0.68
90.00		361.14	89.00	15.72	0.70
92.00		356.56	91.00	15.52	0.71
94.00		351.98	93.00	15.32	0.72
96.00		347.40	95.00	15.12	0.73
97.00	Bot - Section 3	171.98	96.50	7.48	0.19
98.00		277.82	97.50	12.09	0.49
100.00		549.35	99.00	23.91	1.99
101.00	Top - Section 2	271.52	100.50	11.82	0.50
102.00		148.41	101.50	6.46	0.15
104.00		293.96	103.00	12.79	0.62
106.00		290.14	105.00	12.63	0.62
108.00		286.32	107.00	12.46	0.63
109.00	Appurtenance(s)	205.45	108.50	8.94	0.33
110.00		140.31	109.50	6.11	0.16
112.00		277.75	111.00	12.09	0.64
114.00		273.94	113.00	11.92	0.64
116.00		270.12	115.00	11.76	0.65
118.00		266.30	117.00	11.59	0.65
120.00		262.49	119.00	11.42	0.66
122.00		258.67	121.00	11.26	0.66
124.00		254.86	123.00	11.09	0.66
126.00		251.04	125.00	10.93	0.66
128.00		247.22	127.00	10.76	0.66
130.00	Appurtenance(s)	3378.4	129.00	147.03	127.84
132.00		214.86	131.00	9.35	0.53
134.00		211.04	133.00	9.18	0.53
136.00		207.22	135.00	9.02	0.53
138.00		203.41	137.00	8.85	0.52
139.00	Appurtenance(s)	3131.4	138.50	136.28	126.60
140.00		84.63	139.50	3.68	0.09
142.00		166.40	141.00	7.24	0.37
144.00		162.58	143.00	7.08	0.36
146.00		158.77	145.00	6.91	0.36
148.00	Appurtenance(s)	2634.0	147.00	114.63	100.91
148.25	Bot - Section 4	19.10	148.13	0.83	0.01
150.00		194.42	149.13	8.46	0.57
150.50	Top - Section 3	52.97	150.25	2.31	0.04
152.00		73.08	151.25	3.18	0.08
154.00		95.43	153.00	4.15	0.14
156.00		93.14	155.00	4.05	0.14
158.00		90.85	157.00	3.95	0.14
159.00	Appurtenance(s)	3997.6	158.50	173.98	270.22
Totals:		43,050.2		1,873.5	659.1
				Total Wind:	38,314.4

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0Ev + 1.0Eh						Iterations 25
Gust Response Factor	1.10	Sds	0.22	Ss	0.20	
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.09	
Wind Load Factor	0.00	Structure Frequency (f1)	0.31	SA	0.03	
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	-41.27	-0.66	0.00	-100.20	0.00	100.20	4389.95	1207.86	5794.89	5230.24	0.00	0.00	0.00	0.029
2.00	-40.74	-0.66	0.00	-98.88	0.00	98.88	4366.21	1196.05	5682.12	5150.75	0.00	0.00	0.00	0.028
4.00	-40.21	-0.66	0.00	-97.56	0.00	97.56	4342.08	1184.24	5570.46	5071.39	0.00	0.00	-0.01	0.028
6.00	-39.68	-0.66	0.00	-96.24	0.00	96.24	4317.58	1172.43	5459.91	4992.14	0.00	0.00	-0.01	0.028
8.00	-39.16	-0.66	0.00	-94.92	0.00	94.92	4292.70	1160.62	5350.46	4913.05	0.01	0.01	-0.01	0.028
10.00	-38.64	-0.66	0.00	-93.59	0.00	93.59	4267.44	1148.80	5242.12	4834.10	0.01	0.01	-0.01	0.028
12.00	-38.12	-0.67	0.00	-92.26	0.00	92.26	4241.80	1136.99	5134.89	4755.32	0.02	0.02	-0.01	0.028
14.00	-37.61	-0.67	0.00	-90.93	0.00	90.93	4215.78	1125.18	5028.77	4676.73	0.02	0.02	-0.01	0.028
16.00	-37.11	-0.67	0.00	-89.60	0.00	89.60	4189.38	1113.37	4923.76	4598.33	0.03	0.03	-0.02	0.028
18.00	-36.61	-0.67	0.00	-88.26	0.00	88.26	4162.60	1101.56	4819.85	4520.13	0.03	0.03	-0.02	0.028
20.00	-36.11	-0.67	0.00	-86.92	0.00	86.92	4135.45	1089.75	4717.06	4442.16	0.04	0.04	-0.02	0.028
22.00	-35.62	-0.67	0.00	-85.58	0.00	85.58	4107.92	1077.94	4615.37	4364.42	0.05	0.05	-0.02	0.028
24.00	-35.13	-0.67	0.00	-84.24	0.00	84.24	4080.00	1066.13	4514.79	4286.93	0.06	0.06	-0.03	0.028
26.00	-34.65	-0.67	0.00	-82.89	0.00	82.89	4051.71	1054.32	4415.31	4209.70	0.07	0.07	-0.03	0.028
28.00	-34.17	-0.68	0.00	-81.54	0.00	81.54	4023.04	1042.51	4316.95	4132.74	0.09	0.09	-0.03	0.028
30.00	-33.69	-0.68	0.00	-80.19	0.00	80.19	3994.00	1030.70	4219.69	4056.08	0.10	0.10	-0.03	0.028
32.00	-33.22	-0.68	0.00	-78.84	0.00	78.84	3964.57	1018.89	4123.54	3979.71	0.11	0.11	-0.04	0.028
34.00	-32.76	-0.68	0.00	-77.48	0.00	77.48	3934.76	1007.08	4028.50	3903.66	0.13	0.13	-0.04	0.028
36.00	-32.29	-0.68	0.00	-76.13	0.00	76.13	3904.58	995.27	3934.57	3827.93	0.15	0.15	-0.04	0.028
38.00	-31.84	-0.68	0.00	-74.77	0.00	74.77	3874.01	983.46	3841.74	3752.55	0.16	0.16	-0.04	0.028
40.00	-31.38	-0.68	0.00	-73.41	0.00	73.41	3843.07	971.65	3750.03	3677.52	0.18	0.18	-0.05	0.028
42.00	-30.93	-0.68	0.00	-72.05	0.00	72.05	3811.75	959.84	3659.42	3602.86	0.20	0.20	-0.05	0.028
44.00	-30.49	-0.68	0.00	-70.68	0.00	70.68	3780.05	948.03	3569.92	3528.58	0.22	0.22	-0.05	0.028
46.00	-29.99	-0.68	0.00	-69.32	0.00	69.32	3747.97	936.22	3481.52	3454.69	0.24	0.24	-0.05	0.028
47.50	-29.66	-0.68	0.00	-68.29	0.00	68.29	3723.67	927.36	3415.96	3399.54	0.26	0.26	-0.06	0.028
48.00	-29.47	-0.68	0.00	-67.95	0.00	67.95	3715.52	924.41	3394.24	3381.21	0.27	0.27	-0.06	0.028
50.00	-28.69	-0.68	0.00	-66.58	0.00	66.58	3682.68	912.60	3308.06	3308.15	0.29	0.29	-0.06	0.028
52.00	-27.93	-0.68	0.00	-65.21	0.00	65.21	3649.47	900.79	3223.00	3235.53	0.32	0.32	-0.06	0.028
53.25	-27.45	-0.68	0.00	-64.36	0.00	64.36	3672.80	909.07	3282.55	3286.43	0.34	0.34	-0.06	0.027
54.00	-27.29	-0.68	0.00	-63.85	0.00	63.85	3660.35	904.64	3250.65	3259.19	0.35	0.35	-0.07	0.027
56.00	-26.87	-0.68	0.00	-62.48	0.00	62.48	3626.88	892.83	3166.32	3186.86	0.37	0.37	-0.07	0.027
58.00	-26.45	-0.68	0.00	-61.11	0.00	61.11	3593.03	881.02	3083.11	3115.00	0.40	0.40	-0.07	0.027
60.00	-26.03	-0.69	0.00	-59.74	0.00	59.74	3558.80	869.21	3001.01	3043.60	0.43	0.43	-0.08	0.027
62.00	-25.62	-0.69	0.00	-58.37	0.00	58.37	3524.20	857.40	2920.01	2972.69	0.47	0.47	-0.08	0.027
64.00	-25.22	-0.69	0.00	-57.00	0.00	57.00	3489.21	845.59	2840.12	2902.27	0.50	0.50	-0.08	0.027
66.00	-24.81	-0.69	0.00	-55.63	0.00	55.63	3453.85	833.78	2761.34	2832.36	0.53	0.53	-0.08	0.027
68.00	-24.42	-0.69	0.00	-54.25	0.00	54.25	3418.11	821.97	2683.66	2762.97	0.57	0.57	-0.09	0.027
70.00	-24.02	-0.69	0.00	-52.88	0.00	52.88	3381.99	810.16	2607.10	2694.13	0.61	0.61	-0.09	0.027
72.00	-23.63	-0.69	0.00	-51.51	0.00	51.51	3345.49	798.35	2531.64	2625.83	0.65	0.65	-0.09	0.027
74.00	-23.25	-0.69	0.00	-50.13	0.00	50.13	3308.61	786.54	2457.29	2558.09	0.69	0.69	-0.10	0.027
76.00	-22.87	-0.69	0.00	-48.76	0.00	48.76	3271.35	774.73	2384.05	2490.93	0.73	0.73	-0.10	0.027
78.00	-22.49	-0.69	0.00	-47.38	0.00	47.38	3229.69	762.92	2311.92	2421.35	0.77	0.77	-0.11	0.027
79.00	-22.24	-0.69	0.00	-46.70	0.00	46.70	3204.69	757.01	2276.27	2383.82	0.79	0.79	-0.11	0.027
80.00	-22.06	-0.69	0.00	-46.01	0.00	46.01	3179.70	751.11	2240.89	2346.59	0.82	0.82	-0.11	0.027
82.00	-21.69	-0.69	0.00	-44.63	0.00	44.63	3129.70	739.30	2170.98	2273.00	0.86	0.86	-0.11	0.027
84.00	-21.33	-0.69	0.00	-43.26	0.00	43.26	3079.70	727.49	2102.17	2200.58	0.91	0.91	-0.12	0.027
86.00	-20.97	-0.69	0.00	-41.88	0.00	41.88	3029.70	715.68	2034.47	2129.34	0.96	0.96	-0.12	0.027

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 68



88.00	-20.61	-0.69	0.00	-40.51	0.00	40.51	2979.71	703.87	1967.87	2059.26	1.01	-0.12	0.027
90.00	-20.26	-0.69	0.00	-39.13	0.00	39.13	2929.71	692.06	1902.39	1990.36	1.06	-0.13	0.027
92.00	-19.92	-0.69	0.00	-37.75	0.00	37.75	2879.71	680.25	1838.01	1922.64	1.12	-0.13	0.027
94.00	-19.58	-0.69	0.00	-36.38	0.00	36.38	2829.72	668.44	1774.74	1856.08	1.18	-0.14	0.027
96.00	-19.24	-0.69	0.00	-35.00	0.00	35.00	2779.72	656.63	1712.58	1790.70	1.23	-0.14	0.026
97.00	-19.07	-0.69	0.00	-34.32	0.00	34.32	2754.72	650.72	1681.92	1758.45	1.26	-0.14	0.026
98.00	-18.81	-0.69	0.00	-33.63	0.00	33.63	2729.72	644.82	1651.53	1726.49	1.29	-0.14	0.026
100.00	-18.28	-0.69	0.00	-32.25	0.00	32.25	2679.72	633.01	1591.59	1663.45	1.35	-0.15	0.026
101.00	-18.02	-0.68	0.00	-31.57	0.00	31.57	2260.79	534.55	1361.99	1425.24	1.39	-0.15	0.030
102.00	-17.87	-0.69	0.00	-30.88	0.00	30.88	2242.10	529.63	1337.03	1400.31	1.42	-0.15	0.030
104.00	-17.59	-0.69	0.00	-29.51	0.00	29.51	2200.44	519.79	1287.80	1348.49	1.48	-0.16	0.030
106.00	-17.31	-0.69	0.00	-28.14	0.00	28.14	2158.77	509.95	1239.49	1297.65	1.55	-0.16	0.030
108.00	-17.03	-0.69	0.00	-26.77	0.00	26.77	2117.11	500.10	1192.11	1247.79	1.62	-0.17	0.030
109.00	-16.83	-0.69	0.00	-26.09	0.00	26.09	2096.28	495.18	1168.77	1223.22	1.65	-0.17	0.029
110.00	-16.69	-0.69	0.00	-25.40	0.00	25.40	2075.44	490.26	1145.65	1198.90	1.69	-0.17	0.029
112.00	-16.42	-0.69	0.00	-24.03	0.00	24.03	2033.78	480.42	1100.12	1150.99	1.76	-0.18	0.029
114.00	-16.15	-0.69	0.00	-22.66	0.00	22.66	1992.11	470.58	1055.50	1104.05	1.84	-0.18	0.029
116.00	-15.89	-0.69	0.00	-21.29	0.00	21.29	1950.45	460.74	1011.82	1058.10	1.92	-0.19	0.028
118.00	-15.63	-0.69	0.00	-19.92	0.00	19.92	1908.79	450.89	969.05	1013.12	2.00	-0.19	0.028
120.00	-15.37	-0.69	0.00	-18.55	0.00	18.55	1867.12	441.05	927.21	969.11	2.08	-0.20	0.027
122.00	-15.12	-0.69	0.00	-17.18	0.00	17.18	1825.46	431.21	886.29	926.09	2.16	-0.20	0.027
124.00	-14.87	-0.68	0.00	-15.81	0.00	15.81	1783.79	421.37	846.29	884.04	2.25	-0.21	0.026
126.00	-14.62	-0.68	0.00	-14.44	0.00	14.44	1742.13	411.53	807.22	842.97	2.34	-0.21	0.026
128.00	-14.38	-0.68	0.00	-13.07	0.00	13.07	1700.47	401.68	769.07	802.87	2.43	-0.22	0.025
130.00	-11.18	-0.54	0.00	-11.70	0.00	11.70	1658.80	391.84	731.85	763.75	2.52	-0.22	0.022
132.00	-10.98	-0.54	0.00	-10.61	0.00	10.61	1617.14	382.00	695.54	725.61	2.61	-0.23	0.021
134.00	-10.77	-0.54	0.00	-9.52	0.00	9.52	1575.47	372.16	660.17	688.45	2.71	-0.23	0.021
136.00	-10.57	-0.54	0.00	-8.44	0.00	8.44	1533.81	362.32	625.71	652.26	2.81	-0.23	0.020
138.00	-10.37	-0.54	0.00	-7.35	0.00	7.35	1492.14	352.47	592.18	617.05	2.90	-0.24	0.019
139.00	-7.41	-0.40	0.00	-6.81	0.00	6.81	1471.31	347.55	575.76	599.82	2.95	-0.24	0.016
140.00	-7.33	-0.40	0.00	-6.40	0.00	6.40	1450.48	342.63	559.57	582.82	3.01	-0.24	0.016
142.00	-7.17	-0.40	0.00	-5.59	0.00	5.59	1408.82	332.79	527.89	549.57	3.11	-0.25	0.015
144.00	-7.01	-0.40	0.00	-4.79	0.00	4.79	1367.15	322.95	497.12	517.29	3.21	-0.25	0.014
146.00	-6.86	-0.40	0.00	-3.98	0.00	3.98	1325.49	313.11	467.29	485.99	3.32	-0.25	0.013
148.00	-4.37	-0.29	0.00	-3.18	0.00	3.18	1283.82	303.27	438.37	455.66	3.42	-0.26	0.010
148.25	-4.35	-0.29	0.00	-3.11	0.00	3.11	1278.61	302.03	434.82	451.94	3.44	-0.26	0.010
150.00	-4.17	-0.29	0.00	-2.60	0.00	2.60	1242.16	293.42	410.38	426.31	3.53	-0.26	0.009
150.50	-4.12	-0.29	0.00	-2.45	0.00	2.45	761.15	179.80	256.82	268.81	3.56	-0.26	0.015
152.00	-4.04	-0.29	0.00	-2.02	0.00	2.02	742.40	175.37	244.32	255.66	3.64	-0.26	0.013
154.00	-3.95	-0.29	0.00	-1.44	0.00	1.44	717.40	169.47	228.14	238.64	3.75	-0.26	0.012
156.00	-3.86	-0.29	0.00	-0.86	0.00	0.86	692.41	163.56	212.52	222.21	3.86	-0.26	0.009
158.00	-3.77	-0.29	0.00	-0.29	0.00	0.29	667.41	157.66	197.45	206.36	3.97	-0.27	0.007
159.00	0.00	-0.27	0.00	0.00	0.00	0.00	654.91	154.70	190.13	198.65	4.03	-0.27	0.000

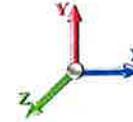
Wind Loading - Shaft

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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	6.518	7.17	269.54	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	6.518	7.17	266.92	0.730	0.000	2.00	9.802	7.16	51.3	0.0	466.1
4.00		1.00	0.85	6.518	7.17	264.30	0.730	0.000	2.00	9.706	7.09	50.8	0.0	461.5
6.00		1.00	0.85	6.518	7.17	261.68	0.730	0.000	2.00	9.610	7.02	50.3	0.0	456.9
8.00		1.00	0.85	6.518	7.17	259.06	0.730	0.000	2.00	9.515	6.95	49.8	0.0	452.4
10.00		1.00	0.85	6.518	7.17	256.45	0.730	0.000	2.00	9.419	6.88	49.3	0.0	447.8
12.00		1.00	0.85	6.518	7.17	253.83	0.730	0.000	2.00	9.323	6.81	48.8	0.0	443.2
14.00		1.00	0.85	6.518	7.17	251.21	0.730	0.000	2.00	9.228	6.74	48.3	0.0	438.6
16.00		1.00	0.87	6.683	7.35	251.72	0.730	0.000	2.00	9.132	6.67	49.0	0.0	434.0
18.00		1.00	0.89	6.842	7.53	252.00	0.730	0.000	2.00	9.036	6.60	49.6	0.0	429.5
20.00		1.00	0.91	6.987	7.69	251.96	0.730	0.000	2.00	8.941	6.53	50.2	0.0	424.9
22.00		1.00	0.93	7.122	7.83	251.65	0.730	0.000	2.00	8.845	6.46	50.6	0.0	420.3
24.00		1.00	0.95	7.249	7.97	251.10	0.730	0.000	2.00	8.749	6.39	50.9	0.0	415.7
26.00		1.00	0.96	7.367	8.10	250.36	0.730	0.000	2.00	8.654	6.32	51.2	0.0	411.1
28.00		1.00	0.98	7.479	8.23	249.45	0.730	0.000	2.00	8.558	6.25	51.4	0.0	406.6
30.00		1.00	0.99	7.584	8.34	248.38	0.730	0.000	2.00	8.462	6.18	51.5	0.0	402.0
32.00		1.00	1.00	7.685	8.45	247.18	0.730	0.000	2.00	8.366	6.11	51.6	0.0	397.4
34.00		1.00	1.01	7.781	8.56	245.85	0.730	0.000	2.00	8.271	6.04	51.7	0.0	392.8
36.00		1.00	1.03	7.872	8.66	244.42	0.730	0.000	2.00	8.175	5.97	51.7	0.0	388.2
38.00		1.00	1.04	7.960	8.76	242.88	0.730	0.000	2.00	8.079	5.90	51.6	0.0	383.7
40.00		1.00	1.05	8.044	8.85	241.26	0.730	0.000	2.00	7.984	5.83	51.6	0.0	379.1
42.00		1.00	1.06	8.125	8.94	239.54	0.730	0.000	2.00	7.888	5.76	51.5	0.0	374.5
44.00		1.00	1.07	8.203	9.02	237.76	0.730	0.000	2.00	7.792	5.69	51.3	0.0	369.9
46.00	Appurtenance(s)	1.00	1.08	8.279	9.11	235.90	0.730	0.000	2.00	7.697	5.62	51.2	0.0	365.3
47.50	Bot - Section 2	1.00	1.09	8.334	9.17	234.46	0.730	0.000	1.50	5.710	4.17	38.2	0.0	271.0
48.00		1.00	1.09	8.352	9.19	233.97	0.730	0.000	0.50	1.923	1.40	12.9	0.0	181.0
50.00		1.00	1.10	8.422	9.26	231.98	0.730	0.000	2.00	7.632	5.57	51.6	0.0	718.4
52.00		1.00	1.11	8.491	9.34	229.93	0.730	0.000	2.00	7.537	5.50	51.4	0.0	709.3
53.25	Top - Section 1	1.00	1.11	8.533	9.39	228.62	0.730	0.000	1.25	4.662	3.40	31.9	0.0	438.6
54.00		1.00	1.12	8.557	9.41	231.81	0.730	0.000	0.75	2.779	2.03	19.1	0.0	131.9
56.00		1.00	1.12	8.622	9.48	229.67	0.730	0.000	2.00	7.345	5.36	50.9	0.0	348.5
58.00		1.00	1.13	8.685	9.55	227.48	0.730	0.000	2.00	7.249	5.29	50.6	0.0	343.9
60.00		1.00	1.14	8.746	9.62	225.25	0.730	0.000	2.00	7.154	5.22	50.2	0.0	339.4
62.00		1.00	1.15	8.806	9.69	222.97	0.730	0.000	2.00	7.058	5.15	49.9	0.0	334.8
64.00		1.00	1.16	8.864	9.75	220.65	0.730	0.000	2.00	6.962	5.08	49.6	0.0	330.2
66.00		1.00	1.16	8.920	9.81	218.30	0.730	0.000	2.00	6.867	5.01	49.2	0.0	325.6
68.00		1.00	1.17	8.976	9.87	215.90	0.730	0.000	2.00	6.771	4.94	48.8	0.0	321.0
70.00		1.00	1.18	9.030	9.93	213.47	0.730	0.000	2.00	6.675	4.87	48.4	0.0	316.5
72.00		1.00	1.18	9.083	9.99	211.00	0.730	0.000	2.00	6.580	4.80	48.0	0.0	311.9
74.00		1.00	1.19	9.135	10.05	208.50	0.730	0.000	2.00	6.484	4.73	47.6	0.0	307.3
76.00		1.00	1.20	9.186	10.10	205.97	0.730	0.000	2.00	6.388	4.66	47.1	0.0	302.7
78.00		1.00	1.20	9.235	10.16	203.41	0.730	0.000	2.00	6.293	4.59	46.7	0.0	298.1
79.00	Appurtenance(s)	1.00	1.21	9.260	10.19	202.12	0.730	0.000	1.00	3.110	2.27	23.1	0.0	147.4
80.00		1.00	1.21	9.284	10.21	200.82	0.730	0.000	1.00	3.086	2.25	23.0	0.0	146.2
82.00		1.00	1.22	9.332	10.27	198.21	0.730	0.000	2.00	6.101	4.45	45.7	0.0	289.0
84.00		1.00	1.22	9.379	10.32	195.56	0.730	0.000	2.00	6.005	4.38	45.2	0.0	284.4
86.00		1.00	1.23	9.425	10.37	192.89	0.730	0.000	2.00	5.910	4.31	44.7	0.0	279.8

Wind Loading - Shaft

Structure: CT13055-A
Site Name: Monroe Turnpike
Height: 159.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1

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

8/1/2023



Page: 70

88.00	1.00	1.23	9.470	10.42	190.20	0.730	0.000	2.00	5.814	4.24	44.2	0.0	275.2	
90.00	1.00	1.24	9.514	10.47	187.48	0.730	0.000	2.00	5.718	4.17	43.7	0.0	270.7	
92.00	1.00	1.25	9.558	10.51	184.74	0.730	0.000	2.00	5.623	4.10	43.2	0.0	266.1	
94.00	1.00	1.25	9.601	10.56	181.98	0.730	0.000	2.00	5.527	4.03	42.6	0.0	261.5	
96.00	1.00	1.26	9.643	10.61	179.19	0.730	0.000	2.00	5.431	3.96	42.1	0.0	256.9	
97.00 Bot - Section 3	1.00	1.26	9.664	10.63	177.79	0.730	0.000	1.00	2.680	1.96	20.8	0.0	126.7	
98.00	1.00	1.26	9.685	10.65	176.38	0.730	0.000	1.00	2.709	1.98	21.1	0.0	232.6	
100.00	1.00	1.27	9.726	10.70	173.56	0.730	0.000	2.00	5.346	3.90	41.7	0.0	458.9	
101.00 Top - Section 2	1.00	1.27	9.746	10.72	172.14	0.730	0.000	1.00	2.637	1.93	20.6	0.0	226.3	
102.00	1.00	1.27	9.766	10.74	174.25	0.730	0.000	1.00	2.613	1.91	20.5	0.0	103.2	
104.00	1.00	1.28	9.805	10.79	171.40	0.730	0.000	2.00	5.154	3.76	40.6	0.0	203.5	
106.00	1.00	1.28	9.844	10.83	168.52	0.730	0.000	2.00	5.059	3.69	40.0	0.0	199.7	
108.00	1.00	1.29	9.883	10.87	165.62	0.730	0.000	2.00	4.963	3.62	39.4	0.0	195.8	
109.00 Appurtenance(s)	1.00	1.29	9.902	10.89	164.17	0.730	0.000	1.00	2.446	1.79	19.4	0.0	96.5	
110.00	1.00	1.29	9.921	10.91	162.71	0.730	0.000	1.00	2.422	1.77	19.3	0.0	95.5	
112.00	1.00	1.30	9.958	10.95	159.78	0.730	0.000	2.00	4.772	3.48	38.2	0.0	188.2	
114.00	1.00	1.30	9.995	10.99	156.83	0.730	0.000	2.00	4.676	3.41	37.5	0.0	184.4	
116.00	1.00	1.31	10.031	11.03	153.87	0.730	0.000	2.00	4.580	3.34	36.9	0.0	180.6	
118.00	1.00	1.31	10.067	11.07	150.89	0.730	0.000	2.00	4.485	3.27	36.3	0.0	176.8	
120.00	1.00	1.32	10.103	11.11	147.89	0.730	0.000	2.00	4.389	3.20	35.6	0.0	172.9	
122.00	1.00	1.32	10.137	11.15	144.88	0.730	0.000	2.00	4.293	3.13	34.9	0.0	169.1	
124.00	1.00	1.33	10.172	11.19	141.86	0.730	0.000	2.00	4.197	3.06	34.3	0.0	165.3	
126.00	1.00	1.33	10.206	11.23	138.82	0.730	0.000	2.00	4.102	2.99	33.6	0.0	161.5	
128.00	1.00	1.34	10.240	11.26	135.77	0.730	0.000	2.00	4.006	2.92	32.9	0.0	157.7	
130.00 Appurtenance(s)	1.00	1.34	10.273	11.30	132.70	0.730	0.000	2.00	3.910	2.85	32.3	0.0	153.9	
132.00	1.00	1.34	10.306	11.34	129.62	0.730	0.000	2.00	3.815	2.78	31.6	0.0	150.0	
134.00	1.00	1.35	10.338	11.37	126.52	0.730	0.000	2.00	3.719	2.71	30.9	0.0	146.2	
136.00	1.00	1.35	10.370	11.41	123.42	0.730	0.000	2.00	3.623	2.65	30.2	0.0	142.4	
138.00	1.00	1.36	10.402	11.44	120.30	0.730	0.000	2.00	3.528	2.58	29.5	0.0	138.6	
139.00 Appurtenance(s)	1.00	1.36	10.418	11.46	118.73	0.730	0.000	1.00	1.728	1.26	14.5	0.0	67.9	
140.00	1.00	1.36	10.433	11.48	117.17	0.730	0.000	1.00	1.704	1.24	14.3	0.0	66.9	
142.00	1.00	1.36	10.464	11.51	114.02	0.730	0.000	2.00	3.336	2.44	28.0	0.0	131.0	
144.00	1.00	1.37	10.495	11.54	110.87	0.730	0.000	2.00	3.241	2.37	27.3	0.0	127.1	
146.00	1.00	1.37	10.525	11.58	107.70	0.730	0.000	2.00	3.145	2.30	26.6	0.0	123.3	
148.00 Appurtenance(s)	1.00	1.38	10.555	11.61	104.52	0.730	0.000	2.00	3.049	2.23	25.8	0.0	119.5	
148.25 Bot - Section 4	1.00	1.38	10.559	11.61	104.12	0.730	0.000	0.25	0.374	0.27	3.2	0.0	14.7	
150.00	1.00	1.38	10.585	11.64	101.33	0.730	0.000	1.75	2.635	1.92	22.4	0.0	163.4	
150.50 Top - Section 3	1.00	1.38	10.592	11.65	100.53	0.730	0.000	0.50	0.739	0.54	6.3	0.0	45.8	
152.00	1.00	1.38	10.614	11.68	100.34	0.730	0.000	1.50	2.182	1.59	18.6	0.0	51.6	
154.00	1.00	1.39	10.643	11.71	97.14	0.730	0.000	2.00	2.826	2.06	24.1	0.0	66.9	
156.00	1.00	1.39	10.672	11.74	93.92	0.730	0.000	2.00	2.730	1.99	23.4	0.0	64.6	
158.00	1.00	1.40	10.700	11.77	90.69	0.730	0.000	2.00	2.634	1.92	22.6	0.0	62.3	
159.00 Appurtenance(s)	1.00	1.40	10.715	11.79	89.07	0.730	0.000	1.00	1.281	0.94	11.0	0.0	30.3	
Totals:								159.00	3,380.9			23,730.2		

Discrete Appurtenance Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 71



Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 28

Dead Load Factor 1.00
Wind Load Factor 1.00



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	159.00	Decibel DB404-B - Omni	1	10.743	11.817	0.90	0.90	1.35	14.00	0.000	2.000	15.95	0.00	31.91
2	159.00	Powerwave 7770	3	10.743	11.817	0.66	0.90	11.41	105.00	0.000	2.000	134.86	0.00	269.71
3	159.00	Powerwave Technologies	6	10.743	11.817	0.45	0.90	3.48	84.60	0.000	2.000	41.16	0.00	82.32
4	159.00	Raycap DC6-48-60-18-8F	2	10.743	11.817	0.90	0.90	1.66	65.60	0.000	2.000	19.57	0.00	39.14
5	159.00	Site Pro 1 -	1	10.743	11.817	1.00	1.00	48.00	2645.00	0.000	2.000	567.21	0.00	1134.42
6	159.00	Ericsson RRUS 32 B2	3	10.743	11.817	0.60	0.90	4.96	159.00	0.000	2.000	58.57	0.00	117.14
7	159.00	Powerwave	3	10.743	11.817	0.68	0.90	16.52	159.00	0.000	2.000	195.26	0.00	390.53
8	159.00	Ericsson RRUS 11-700	3	10.743	11.817	0.60	0.90	4.56	153.00	0.000	2.000	53.87	0.00	107.74
9	159.00	Quintel QS66512-2	3	10.743	11.817	0.83	0.90	20.19	333.00	0.000	2.000	238.64	0.00	477.28
10	159.00	Kaelus DBC0061F1V51-2	3	10.743	11.817	0.45	0.90	0.58	54.90	0.000	2.000	6.86	0.00	13.72
11	159.00	Ericsson RRUS 32 B30	3	10.743	11.817	0.60	0.90	4.96	180.00	0.000	2.000	58.57	0.00	117.14
12	148.00	RFS - APXVTM14-C-I20 -	3	10.585	11.643	0.59	0.75	11.27	168.00	0.000	2.000	131.21	0.00	262.42
13	148.00	Alcatel Lucent -	3	10.585	11.643	0.50	0.75	6.11	210.00	0.000	2.000	71.09	0.00	142.17
14	148.00	RFS - APXVSP18-C-A20	3	10.585	11.643	0.62	0.75	15.72	318.00	0.000	2.000	183.08	0.00	366.17
15	148.00	SitePro HRK-12 Handrail	1	10.555	11.611	1.00	1.00	6.75	261.72	0.000	0.000	78.37	0.00	0.00
16	148.00	Low Profile Platform	1	10.555	11.611	1.00	1.00	35.00	1200.00	0.000	0.000	406.37	0.00	0.00
17	148.00	Alcatel Lucent - 1900 MHz	3	10.585	11.643	0.50	0.75	5.73	132.00	0.000	2.000	66.70	0.00	133.40
18	148.00	Alcatel Lucent - 800 MHz	3	10.585	11.643	0.50	0.75	3.75	159.00	0.000	2.000	43.71	0.00	87.41
19	148.00	Alcatel Lucent - 800 MHz	3	10.585	11.643	0.38	0.75	0.88	26.40	0.000	2.000	10.22	0.00	20.43
20	148.00	RFS - ACU-A20-N - RET	4	10.585	11.643	0.38	0.75	0.21	4.00	0.000	2.000	2.45	0.00	4.89
21	139.00	LP Platform w/ Handrails	1	10.418	11.459	1.00	1.00	34.00	1600.00	0.000	0.000	389.62	0.00	0.00
22	139.00	4415 B66A	3	10.418	11.459	0.38	0.75	2.09	132.30	0.000	0.000	23.98	0.00	0.00
23	139.00	4424 B25	3	10.418	11.459	0.50	0.75	3.35	237.00	0.000	0.000	38.35	0.00	0.00
24	139.00	4449 B71 + B85	3	10.418	11.459	0.50	0.75	2.97	219.60	0.000	0.000	34.03	0.00	0.00
25	139.00	RFS -	3	10.418	11.459	0.55	0.75	33.24	304.20	0.000	0.000	380.96	0.00	0.00
26	139.00	EMS - FR90-16-XXDP -	3	10.418	11.459	0.51	0.75	6.67	54.00	0.000	0.000	76.44	0.00	0.00
27	139.00	RFS -	3	10.418	11.459	0.46	0.75	9.22	122.10	0.000	0.000	105.67	0.00	0.00
28	139.00	AIR6449 B41	3	10.418	11.459	0.53	0.75	9.03	309.00	0.000	0.000	103.43	0.00	0.00
29	139.00	RFS -	3	10.418	11.459	0.38	0.75	1.32	47.55	0.000	0.000	15.08	0.00	0.00
30	139.00	Andrew - ATSBT-TOP-FM	3	10.418	11.459	0.38	0.75	0.23	5.40	0.000	0.000	2.58	0.00	0.00
31	130.00	Samsung VZS01	3	10.273	11.300	0.52	0.75	7.40	261.30	0.000	0.000	83.65	0.00	0.00
32	130.00	Andrew JAHH-45B-R3B	2	10.273	11.300	0.55	0.75	12.48	182.00	0.000	0.000	141.06	0.00	0.00
33	130.00	Andrew JAHH-65B-R3B	4	10.273	11.300	0.62	0.75	22.68	253.20	0.000	0.000	256.33	0.00	0.00
34	130.00	Commscope	3	10.273	11.300	0.72	0.75	1.21	60.00	0.000	0.000	13.67	0.00	0.00
35	130.00	Samsung B5/B13	3	10.273	11.300	0.50	0.75	2.83	253.20	0.000	0.000	32.03	0.00	0.00
36	130.00	Samsung B2/B66A	3	10.273	11.300	0.50	0.75	2.83	210.90	0.000	0.000	32.03	0.00	0.00
37	130.00	RFS DB-C1-12C-24AB-0Z	1	10.256	11.282	0.75	0.75	3.04	32.00	0.000	-1.000	34.35	0.00	-34.35
38	130.00	Low Profile Platform	1	10.273	11.300	1.00	1.00	24.80	1200.00	0.000	0.000	280.24	0.00	0.00
39	130.00	Kaelus BSF0020F3V1-1	4	10.273	11.300	0.49	0.75	1.87	70.40	0.000	0.000	21.15	0.00	0.00
40	130.00	Mount pipes	15	10.273	11.300	0.75	0.75	10.91	450.00	0.000	0.000	123.31	0.00	0.00
41	130.00	Antel LPA-80063/6CF_5	6	10.273	11.300	0.71	0.75	41.00	162.00	0.000	0.000	463.27	0.00	0.00
42	109.00	Sinclair SCL329-HL -	1	10.005	11.006	1.00	1.00	2.22	10.40	0.000	5.550	24.43	0.00	135.60
43	109.00	4 ft. Standoff	1	9.902	10.892	1.00	1.00	3.50	53.32	0.000	0.000	38.12	0.00	0.00
44	79.00	Sinclair SCL329-HL -	1	9.391	10.331	1.00	1.00	2.22	10.40	0.000	5.550	22.93	0.00	127.28
45	79.00	4 ft Standoff	1	9.260	10.186	1.00	1.00	3.50	53.32	0.000	0.000	35.65	0.00	0.00
46	46.00	4 ft Standoff	1	8.279	9.107	1.00	1.00	3.50	53.32	0.000	0.000	31.87	0.00	0.00
47	46.00	Decibel 26DB - GPS	1	8.387	9.226	1.00	1.00	0.16	10.00	0.000	3.000	1.48	0.00	4.43

Discrete Appurtenance Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 72



Totals: 12,789.13 5,189.44

Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 73

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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
2.00		51.30	567.99	0.00	0.00
4.00		50.80	563.41	0.00	0.00
6.00		50.30	558.83	0.00	0.00
8.00		49.80	554.25	0.00	0.00
10.00		49.30	549.67	0.00	0.00
12.00		48.80	545.09	0.00	0.00
14.00		48.30	540.51	0.00	0.00
16.00		49.01	535.93	0.00	0.00
18.00		49.64	531.35	0.00	0.00
20.00		50.16	526.77	0.00	0.00
22.00		50.59	522.19	0.00	0.00
24.00		50.93	517.61	0.00	0.00
26.00		51.19	513.03	0.00	0.00
28.00		51.39	508.45	0.00	0.00
30.00		51.54	503.87	0.00	0.00
32.00		51.63	499.29	0.00	0.00
34.00		51.67	494.71	0.00	0.00
36.00		51.68	490.13	0.00	0.00
38.00		51.64	485.55	0.00	0.00
40.00		51.57	480.98	0.00	0.00
42.00		51.47	476.40	0.00	0.00
44.00		51.33	471.82	0.00	0.00
46.00	(2) attachments	84.52	530.56	0.00	4.43
47.50		38.21	347.42	0.00	0.00
48.00		12.90	206.51	0.00	0.00
50.00		51.62	820.17	0.00	0.00
52.00		51.39	810.85	0.00	0.00
53.25		31.94	502.13	0.00	0.00
54.00		19.10	169.97	0.00	0.00
56.00		50.85	450.09	0.00	0.00
58.00		50.56	445.51	0.00	0.00
60.00		50.24	440.93	0.00	0.00
62.00		49.91	436.35	0.00	0.00
64.00		49.56	431.77	0.00	0.00
66.00		49.19	427.19	0.00	0.00
68.00		48.80	422.61	0.00	0.00
70.00		48.40	418.03	0.00	0.00
72.00		47.99	413.45	0.00	0.00
74.00		47.56	408.87	0.00	0.00
76.00		47.12	404.29	0.00	0.00
78.00		46.67	399.71	0.00	0.00
79.00	(2) attachments	81.71	261.86	0.00	127.28
80.00		23.01	196.47	0.00	0.00
82.00		45.72	389.51	0.00	0.00
84.00		45.23	384.93	0.00	0.00
86.00		44.73	380.35	0.00	0.00

Total Applied Force Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 74
Struct Class: II		



88.00		44.21	375.77	0.00	0.00
90.00		43.69	371.19	0.00	0.00
92.00		43.15	366.61	0.00	0.00
94.00		42.61	362.03	0.00	0.00
96.00		42.06	357.46	0.00	0.00
97.00		20.80	177.01	0.00	0.00
98.00		21.07	282.85	0.00	0.00
100.00		41.75	559.40	0.00	0.00
101.00		20.64	276.55	0.00	0.00
102.00		20.49	153.44	0.00	0.00
104.00		40.58	304.01	0.00	0.00
106.00		39.99	300.19	0.00	0.00
108.00		39.39	296.38	0.00	0.00
109.00	(2) attachments	82.00	210.48	0.00	135.60
110.00		19.29	145.28	0.00	0.00
112.00		38.16	287.70	0.00	0.00
114.00		37.53	283.89	0.00	0.00
116.00		36.89	280.07	0.00	0.00
118.00		36.25	276.25	0.00	0.00
120.00		35.60	272.44	0.00	0.00
122.00		34.95	268.62	0.00	0.00
124.00		34.29	264.80	0.00	0.00
126.00		33.62	260.99	0.00	0.00
128.00		32.94	257.17	0.00	0.00
130.00	(45) attachments	1513.36	3388.36	0.00	-34.35
132.00		31.57	222.06	0.00	0.00
134.00		30.87	218.24	0.00	0.00
136.00		30.17	214.43	0.00	0.00
138.00		29.47	210.61	0.00	0.00
139.00	(28) attachments	1184.59	3135.02	0.00	0.00
140.00		14.28	86.60	0.00	0.00
142.00		28.03	170.34	0.00	0.00
144.00		27.31	166.52	0.00	0.00
146.00		26.58	162.70	0.00	0.00
148.00	(24) attachments	1019.03	2638.01	0.00	1016.89
148.25		3.17	19.59	0.00	0.00
150.00		22.39	197.86	0.00	0.00
150.50		6.29	53.77	0.00	0.00
152.00		18.60	75.46	0.00	0.00
154.00		24.15	98.61	0.00	0.00
156.00		23.39	96.32	0.00	0.00
158.00		22.63	94.03	0.00	0.00
159.00	(31) attachments	1401.55	3999.25	0.00	2781.05
	Totals:	8,570.33	43,775.82	0.00	4,030.90

Linear Appurtenance Segment Forces (Factored)

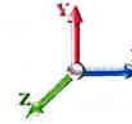
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 75

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
2.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	6.518	0.00	0.32
2.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.047	0.000	6.518	0.00	0.55
2.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.047	0.000	6.518	0.00	2.08
2.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.047	0.000	6.518	0.00	1.04
2.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.047	0.000	6.518	0.00	1.04
2.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.047	0.000	6.518	0.00	0.32
4.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.518	0.00	0.32
4.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	6.518	0.00	0.55
4.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	6.518	0.00	2.08
4.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	6.518	0.00	1.04
4.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.518	0.00	1.04
4.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.048	0.000	6.518	0.00	0.32
6.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.518	0.00	0.32
6.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	6.518	0.00	0.55
6.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	6.518	0.00	2.08
6.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	6.518	0.00	1.04
6.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	6.518	0.00	1.04
6.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.048	0.000	6.518	0.00	0.32
8.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.518	0.00	0.32
8.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	6.518	0.00	0.55
8.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	6.518	0.00	2.08
8.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	6.518	0.00	1.04
8.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.518	0.00	1.04
8.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.049	0.000	6.518	0.00	0.32
10.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.518	0.00	0.32
10.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	6.518	0.00	0.55
10.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	6.518	0.00	2.08
10.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	6.518	0.00	1.04
10.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	6.518	0.00	1.04
10.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.049	0.000	6.518	0.00	0.32
12.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	6.518	0.00	0.32
12.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	6.518	0.00	0.55
12.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	6.518	0.00	2.08
12.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	6.518	0.00	1.04
12.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	6.518	0.00	1.04
12.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.050	0.000	6.518	0.00	0.32
14.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	6.518	0.00	0.32
14.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	6.518	0.00	0.55
14.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	6.518	0.00	2.08
14.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	6.518	0.00	1.04
14.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	6.518	0.00	1.04
14.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.050	0.000	6.518	0.00	0.32
16.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	6.683	0.00	0.32
16.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	6.683	0.00	0.55
16.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	6.683	0.00	2.08
16.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	6.683	0.00	1.04
16.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	6.683	0.00	1.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 76

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
16.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.051	0.000	6.683	0.00	0.32
18.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	6.842	0.00	0.32
18.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	6.842	0.00	0.55
18.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	6.842	0.00	2.08
18.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	6.842	0.00	1.04
18.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	6.842	0.00	1.04
18.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.051	0.000	6.842	0.00	0.32
20.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	6.987	0.00	0.32
20.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	6.987	0.00	0.55
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	6.987	0.00	2.08
20.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	6.987	0.00	1.04
20.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	6.987	0.00	1.04
20.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.052	0.000	6.987	0.00	0.32
22.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	7.122	0.00	0.32
22.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	7.122	0.00	0.55
22.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	7.122	0.00	2.08
22.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	7.122	0.00	1.04
22.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	7.122	0.00	1.04
22.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.052	0.000	7.122	0.00	0.32
24.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	7.249	0.00	0.32
24.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	7.249	0.00	0.55
24.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	7.249	0.00	2.08
24.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	7.249	0.00	1.04
24.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	7.249	0.00	1.04
24.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.053	0.000	7.249	0.00	0.32
26.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	7.367	0.00	0.32
26.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	7.367	0.00	0.55
26.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	7.367	0.00	2.08
26.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	7.367	0.00	1.04
26.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	7.367	0.00	1.04
26.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.053	0.000	7.367	0.00	0.32
28.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	7.479	0.00	0.32
28.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	7.479	0.00	0.55
28.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	7.479	0.00	2.08
28.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	7.479	0.00	1.04
28.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	7.479	0.00	1.04
28.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.054	0.000	7.479	0.00	0.32
30.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	7.584	0.00	0.32
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	7.584	0.00	0.55
30.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	7.584	0.00	2.08
30.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	7.584	0.00	1.04
30.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	7.584	0.00	1.04
30.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.055	0.000	7.584	0.00	0.32
32.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	7.685	0.00	0.32
32.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	7.685	0.00	0.55
32.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	7.685	0.00	2.08
32.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	7.685	0.00	1.04

Linear Appurtenance Segment Forces (Factored)

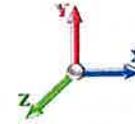
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 77

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
32.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	7.685	0.00	1.04
32.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.055	0.000	7.685	0.00	0.32
34.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	7.781	0.00	0.32
34.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	7.781	0.00	0.55
34.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	7.781	0.00	2.08
34.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	7.781	0.00	1.04
34.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	7.781	0.00	1.04
34.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.056	0.000	7.781	0.00	0.32
36.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	7.872	0.00	0.32
36.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	7.872	0.00	0.55
36.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	7.872	0.00	2.08
36.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	7.872	0.00	1.04
36.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	7.872	0.00	1.04
36.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.056	0.000	7.872	0.00	0.32
38.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	7.960	0.00	0.32
38.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.057	0.000	7.960	0.00	0.55
38.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.057	0.000	7.960	0.00	2.08
38.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.057	0.000	7.960	0.00	1.04
38.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.057	0.000	7.960	0.00	1.04
38.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.057	0.000	7.960	0.00	0.32
40.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	8.044	0.00	0.32
40.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.058	0.000	8.044	0.00	0.55
40.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.058	0.000	8.044	0.00	2.08
40.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.058	0.000	8.044	0.00	1.04
40.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	8.044	0.00	1.04
40.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.058	0.000	8.044	0.00	0.32
42.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	8.125	0.00	0.32
42.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	8.125	0.00	0.55
42.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	8.125	0.00	2.08
42.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	8.125	0.00	1.04
42.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	8.125	0.00	1.04
42.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.059	0.000	8.125	0.00	0.32
44.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	8.203	0.00	0.32
44.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	8.203	0.00	0.55
44.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	8.203	0.00	2.08
44.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	8.203	0.00	1.04
44.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	8.203	0.00	1.04
44.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.059	0.000	8.203	0.00	0.32
46.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	8.279	0.00	0.32
46.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	8.279	0.00	0.55
46.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	8.279	0.00	2.08
46.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.060	0.000	8.279	0.00	1.04
46.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	8.279	0.00	1.04
46.00	1/2"	Yes	2.00	0.000	0.65	0.11	0.00	0.060	0.000	8.279	0.00	0.32
47.50	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	8.334	0.00	0.24
47.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.061	0.000	8.334	0.00	0.41
47.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.061	0.000	8.334	0.00	1.56

Linear Appurtenance Segment Forces (Factored)

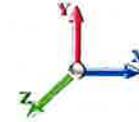
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 78

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
47.50	7/8"	Yes	1.50	0.000	1.11	0.14	0.00	0.061	0.000	8.334	0.00	0.78
47.50	7/8"	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	8.334	0.00	0.78
47.50	1/2"	Yes	1.50	0.000	0.65	0.08	0.00	0.061	0.000	8.334	0.00	0.24
48.00	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	8.352	0.00	0.08
48.00	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.061	0.000	8.352	0.00	0.14
48.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.061	0.000	8.352	0.00	0.52
48.00	7/8"	Yes	0.50	0.000	1.11	0.05	0.00	0.061	0.000	8.352	0.00	0.26
48.00	7/8"	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	8.352	0.00	0.26
48.00	1/2"	Yes	0.50	0.000	0.65	0.03	0.00	0.061	0.000	8.352	0.00	0.08
50.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	8.422	0.00	0.32
50.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	8.422	0.00	0.55
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	8.422	0.00	2.08
50.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	8.422	0.00	1.04
50.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	8.422	0.00	1.04
50.00	1/2"	Yes	1.00	0.000	0.65	0.05	0.00	0.054	0.000	8.422	0.00	0.16
52.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	8.491	0.00	0.32
52.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	8.491	0.00	0.55
52.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	8.491	0.00	2.08
52.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	8.491	0.00	1.04
52.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	8.491	0.00	1.04
53.25	1/2" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	8.533	0.00	0.20
53.25	Safety Cable	Yes	1.25	0.000	0.38	0.04	0.00	0.048	0.000	8.533	0.00	0.34
53.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.07	0.00	0.048	0.000	8.533	0.00	1.30
53.25	7/8"	Yes	1.25	0.000	1.11	0.12	0.00	0.048	0.000	8.533	0.00	0.65
53.25	7/8"	Yes	1.25	0.000	0.00	0.00	0.00	0.048	0.000	8.533	0.00	0.65
54.00	1/2" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	8.557	0.00	0.12
54.00	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.048	0.000	8.557	0.00	0.20
54.00	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.04	0.00	0.048	0.000	8.557	0.00	0.78
54.00	7/8"	Yes	0.75	0.000	1.11	0.07	0.00	0.048	0.000	8.557	0.00	0.39
54.00	7/8"	Yes	0.75	0.000	0.00	0.00	0.00	0.048	0.000	8.557	0.00	0.39
56.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	8.622	0.00	0.32
56.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	8.622	0.00	0.55
56.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	8.622	0.00	2.08
56.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.048	0.000	8.622	0.00	1.04
56.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	8.622	0.00	1.04
58.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	8.685	0.00	0.32
58.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	8.685	0.00	0.55
58.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	8.685	0.00	2.08
58.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	8.685	0.00	1.04
58.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	8.685	0.00	1.04
60.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	8.746	0.00	0.32
60.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.049	0.000	8.746	0.00	0.55
60.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.049	0.000	8.746	0.00	2.08
60.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.049	0.000	8.746	0.00	1.04
60.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.049	0.000	8.746	0.00	1.04
62.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	8.806	0.00	0.32
62.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	8.806	0.00	0.55

Linear Appurtenance Segment Forces (Factored)

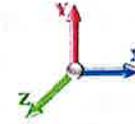
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 79

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
62.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	8.806	0.00	2.08
62.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.050	0.000	8.806	0.00	1.04
62.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	8.806	0.00	1.04
64.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	8.864	0.00	0.32
64.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	8.864	0.00	0.55
64.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	8.864	0.00	2.08
64.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	8.864	0.00	1.04
64.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	8.864	0.00	1.04
66.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	8.920	0.00	0.32
66.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.051	0.000	8.920	0.00	0.55
66.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.051	0.000	8.920	0.00	2.08
66.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.051	0.000	8.920	0.00	1.04
66.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.051	0.000	8.920	0.00	1.04
68.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	8.976	0.00	0.32
68.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	8.976	0.00	0.55
68.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	8.976	0.00	2.08
68.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.052	0.000	8.976	0.00	1.04
68.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	8.976	0.00	1.04
70.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	9.030	0.00	0.32
70.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.053	0.000	9.030	0.00	0.55
70.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.053	0.000	9.030	0.00	2.08
70.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.053	0.000	9.030	0.00	1.04
70.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.053	0.000	9.030	0.00	1.04
72.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	9.083	0.00	0.32
72.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	9.083	0.00	0.55
72.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	9.083	0.00	2.08
72.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	9.083	0.00	1.04
72.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	9.083	0.00	1.04
74.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	9.135	0.00	0.32
74.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	9.135	0.00	0.55
74.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	9.135	0.00	2.08
74.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.054	0.000	9.135	0.00	1.04
74.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	9.135	0.00	1.04
76.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	9.186	0.00	0.32
76.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	9.186	0.00	0.55
76.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	9.186	0.00	2.08
76.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.055	0.000	9.186	0.00	1.04
76.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	9.186	0.00	1.04
78.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	9.235	0.00	0.32
78.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.056	0.000	9.235	0.00	0.55
78.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.056	0.000	9.235	0.00	2.08
78.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.056	0.000	9.235	0.00	1.04
78.00	7/8"	Yes	2.00	0.000	0.00	0.00	0.00	0.056	0.000	9.235	0.00	1.04
79.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	9.260	0.00	0.16
79.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.057	0.000	9.260	0.00	0.27
79.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.057	0.000	9.260	0.00	1.04
79.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.057	0.000	9.260	0.00	0.52

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 80

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 28

Dead Load Factor 1.00

Wind Load Factor 1.00



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)
79.00	7/8"	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	9.260	0.00	0.52
80.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.057	0.000	9.284	0.00	0.16
80.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.057	0.000	9.284	0.00	0.27
80.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.057	0.000	9.284	0.00	1.04
80.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.057	0.000	9.284	0.00	0.52
82.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.058	0.000	9.332	0.00	0.32
82.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.058	0.000	9.332	0.00	0.55
82.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.058	0.000	9.332	0.00	2.08
82.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.058	0.000	9.332	0.00	1.04
84.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	9.379	0.00	0.32
84.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.059	0.000	9.379	0.00	0.55
84.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.059	0.000	9.379	0.00	2.08
84.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.059	0.000	9.379	0.00	1.04
86.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	9.425	0.00	0.32
86.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	9.425	0.00	0.55
86.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	9.425	0.00	2.08
86.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.060	0.000	9.425	0.00	1.04
88.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	9.470	0.00	0.32
88.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.061	0.000	9.470	0.00	0.55
88.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.061	0.000	9.470	0.00	2.08
88.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.061	0.000	9.470	0.00	1.04
90.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	9.514	0.00	0.32
90.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.062	0.000	9.514	0.00	0.55
90.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.062	0.000	9.514	0.00	2.08
90.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.062	0.000	9.514	0.00	1.04
92.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	9.558	0.00	0.32
92.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.063	0.000	9.558	0.00	0.55
92.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.063	0.000	9.558	0.00	2.08
92.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.063	0.000	9.558	0.00	1.04
94.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	9.601	0.00	0.32
94.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.064	0.000	9.601	0.00	0.55
94.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.064	0.000	9.601	0.00	2.08
94.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.064	0.000	9.601	0.00	1.04
96.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	9.643	0.00	0.32
96.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.065	0.000	9.643	0.00	0.55
96.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.065	0.000	9.643	0.00	2.08
96.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.065	0.000	9.643	0.00	1.04
97.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	9.664	0.00	0.16
97.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.066	0.000	9.664	0.00	0.27
97.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.066	0.000	9.664	0.00	1.04
97.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.066	0.000	9.664	0.00	0.52
98.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.067	0.000	9.685	0.00	0.16
98.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.067	0.000	9.685	0.00	0.27
98.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.067	0.000	9.685	0.00	1.04
98.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.067	0.000	9.685	0.00	0.52
100.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	9.726	0.00	0.32
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.067	0.000	9.726	0.00	0.55

Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.067	0.000	9.726	0.00	2.08
100.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.067	0.000	9.726	0.00	1.04
101.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	9.746	0.00	0.16
101.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.068	0.000	9.746	0.00	0.27
101.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.068	0.000	9.746	0.00	1.04
101.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.068	0.000	9.746	0.00	0.52
102.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.068	0.000	9.766	0.00	0.16
102.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.068	0.000	9.766	0.00	0.27
102.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.068	0.000	9.766	0.00	1.04
102.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.068	0.000	9.766	0.00	0.52
104.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	9.805	0.00	0.32
104.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.069	0.000	9.805	0.00	0.55
104.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.069	0.000	9.805	0.00	2.08
104.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.069	0.000	9.805	0.00	1.04
106.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	9.844	0.00	0.32
106.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.070	0.000	9.844	0.00	0.55
106.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.070	0.000	9.844	0.00	2.08
106.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.070	0.000	9.844	0.00	1.04
108.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	9.883	0.00	0.32
108.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.071	0.000	9.883	0.00	0.55
108.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.071	0.000	9.883	0.00	2.08
108.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.071	0.000	9.883	0.00	1.04
109.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	9.902	0.00	0.16
109.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.072	0.000	9.902	0.00	0.27
109.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.072	0.000	9.902	0.00	1.04
109.00	7/8"	Yes	1.00	0.000	1.11	0.09	0.00	0.072	0.000	9.902	0.00	0.52
110.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.035	0.000	9.921	0.00	0.16
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	9.921	0.00	0.27
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	9.921	0.00	1.04
112.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.035	0.000	9.958	0.00	0.32
112.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.035	0.000	9.958	0.00	0.55
112.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.035	0.000	9.958	0.00	2.08
114.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.036	0.000	9.995	0.00	0.32
114.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.036	0.000	9.995	0.00	0.55
114.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.036	0.000	9.995	0.00	2.08
114.00	7/8"	Yes	2.00	0.000	1.11	0.19	0.00	0.036	0.000	9.995	0.00	1.04
116.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	10.031	0.00	0.32
116.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.037	0.000	10.031	0.00	0.55
116.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.037	0.000	10.031	0.00	2.08
118.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	10.067	0.00	0.32
118.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	10.067	0.00	0.55
118.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	10.067	0.00	2.08
120.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.038	0.000	10.103	0.00	0.32
120.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	10.103	0.00	0.55
120.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	10.103	0.00	2.08
122.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.039	0.000	10.137	0.00	0.32
122.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	10.137	0.00	0.55
122.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	10.137	0.00	2.08

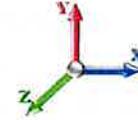
Linear Appurtenance Segment Forces (Factored)

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
124.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.040	0.000	10.172	0.00	0.32
124.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.040	0.000	10.172	0.00	0.55
124.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.040	0.000	10.172	0.00	2.08
126.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.041	0.000	10.206	0.00	0.32
126.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.041	0.000	10.206	0.00	0.55
126.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.041	0.000	10.206	0.00	2.08
128.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.042	0.000	10.240	0.00	0.32
128.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.042	0.000	10.240	0.00	0.55
128.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.042	0.000	10.240	0.00	2.08
130.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.043	0.000	10.273	0.00	0.32
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.043	0.000	10.273	0.00	0.55
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.043	0.000	10.273	0.00	2.08
132.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.044	0.000	10.306	0.00	0.32
132.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.044	0.000	10.306	0.00	0.55
132.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.044	0.000	10.306	0.00	2.08
134.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.045	0.000	10.338	0.00	0.32
134.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.045	0.000	10.338	0.00	0.55
134.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.045	0.000	10.338	0.00	2.08
136.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.046	0.000	10.370	0.00	0.32
136.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.046	0.000	10.370	0.00	0.55
136.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.046	0.000	10.370	0.00	2.08
138.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.048	0.000	10.402	0.00	0.32
138.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.048	0.000	10.402	0.00	0.55
138.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.048	0.000	10.402	0.00	2.08
139.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	10.418	0.00	0.16
139.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	10.418	0.00	0.27
139.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	10.418	0.00	1.04
140.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.049	0.000	10.433	0.00	0.16
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.049	0.000	10.433	0.00	0.27
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.049	0.000	10.433	0.00	1.04
142.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.050	0.000	10.464	0.00	0.32
142.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.050	0.000	10.464	0.00	0.55
142.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.050	0.000	10.464	0.00	2.08
144.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.052	0.000	10.495	0.00	0.32
144.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.052	0.000	10.495	0.00	0.55
144.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.052	0.000	10.495	0.00	2.08
146.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.054	0.000	10.525	0.00	0.32
146.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.054	0.000	10.525	0.00	0.55
146.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.054	0.000	10.525	0.00	2.08
148.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.055	0.000	10.555	0.00	0.32
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.055	0.000	10.555	0.00	0.55
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.055	0.000	10.555	0.00	2.08
148.25	1/2" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.056	0.000	10.559	0.00	0.04
148.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.056	0.000	10.559	0.00	0.07
148.25	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.056	0.000	10.559	0.00	0.26
150.00	1/2" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.057	0.000	10.585	0.00	0.28
150.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.057	0.000	10.585	0.00	0.48

Linear Appurtenance Segment Forces (Factored)

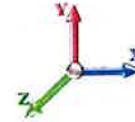
Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 83

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 28

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)
150.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.057	0.000	10.585	0.00	1.82
150.50	1/2" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.058	0.000	10.592	0.00	0.08
150.50	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.058	0.000	10.592	0.00	0.14
150.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.058	0.000	10.592	0.00	0.52
152.00	1/2" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.058	0.000	10.614	0.00	0.24
152.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.058	0.000	10.614	0.00	0.41
152.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.058	0.000	10.614	0.00	1.56
154.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	10.643	0.00	0.32
154.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.060	0.000	10.643	0.00	0.55
154.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.060	0.000	10.643	0.00	2.08
156.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	10.672	0.00	0.32
156.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.062	0.000	10.672	0.00	0.55
156.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.062	0.000	10.672	0.00	2.08
158.00	1/2" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	10.700	0.00	0.32
158.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.064	0.000	10.700	0.00	0.55
158.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.064	0.000	10.700	0.00	2.08
159.00	1/2" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.066	0.000	10.715	0.00	0.16
159.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.066	0.000	10.715	0.00	0.27
159.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.066	0.000	10.715	0.00	1.04
Totals:											0.0	339.8

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 84



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 28

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	-43.77	-8.58	0.00	-1032.8	0.00	1032.89	4389.95	1207.86	5794.89	5230.24	0.00	0.000	0.000	0.208
2.00	-43.20	-8.54	0.00	-1015.7	0.00	1015.73	4366.21	1196.05	5682.12	5150.75	0.00	-0.020	0.000	0.207
4.00	-42.64	-8.51	0.00	-998.65	0.00	998.65	4342.08	1184.24	5570.46	5071.39	0.02	-0.040	0.000	0.207
6.00	-42.07	-8.47	0.00	-981.64	0.00	981.64	4317.58	1172.43	5459.91	4992.14	0.04	-0.061	0.000	0.206
8.00	-41.52	-8.43	0.00	-964.70	0.00	964.70	4292.70	1160.62	5350.46	4913.05	0.07	-0.082	0.000	0.206
10.00	-40.96	-8.40	0.00	-947.83	0.00	947.83	4267.44	1148.80	5242.12	4834.10	0.11	-0.103	0.000	0.206
12.00	-40.42	-8.36	0.00	-931.04	0.00	931.04	4241.80	1136.99	5134.89	4755.32	0.16	-0.124	0.000	0.205
14.00	-39.87	-8.33	0.00	-914.31	0.00	914.31	4215.78	1125.18	5028.77	4676.73	0.21	-0.146	0.000	0.205
16.00	-39.33	-8.29	0.00	-897.65	0.00	897.65	4189.38	1113.37	4923.76	4598.33	0.28	-0.168	0.000	0.205
18.00	-38.80	-8.26	0.00	-881.06	0.00	881.06	4162.60	1101.56	4819.85	4520.13	0.35	-0.190	0.000	0.204
20.00	-38.27	-8.22	0.00	-864.54	0.00	864.54	4135.45	1089.75	4717.06	4442.16	0.44	-0.213	0.000	0.204
22.00	-37.74	-8.18	0.00	-848.10	0.00	848.10	4107.92	1077.94	4615.37	4364.42	0.53	-0.235	0.000	0.204
24.00	-37.22	-8.15	0.00	-831.73	0.00	831.73	4080.00	1066.13	4514.79	4286.93	0.64	-0.258	0.000	0.203
26.00	-36.71	-8.11	0.00	-815.44	0.00	815.44	4051.71	1054.32	4415.31	4209.70	0.75	-0.282	0.000	0.203
28.00	-36.20	-8.07	0.00	-799.22	0.00	799.22	4023.04	1042.51	4316.95	4132.74	0.87	-0.306	0.000	0.202
30.00	-35.69	-8.03	0.00	-783.08	0.00	783.08	3994.00	1030.70	4219.69	4056.08	1.01	-0.330	0.000	0.202
32.00	-35.19	-7.99	0.00	-767.03	0.00	767.03	3964.57	1018.89	4123.54	3979.71	1.15	-0.354	0.000	0.202
34.00	-34.69	-7.95	0.00	-751.05	0.00	751.05	3934.76	1007.08	4028.50	3903.66	1.30	-0.379	0.000	0.201
36.00	-34.20	-7.91	0.00	-735.15	0.00	735.15	3904.58	995.27	3934.57	3827.93	1.47	-0.404	0.000	0.201
38.00	-33.71	-7.87	0.00	-719.33	0.00	719.33	3874.01	983.46	3841.74	3752.55	1.64	-0.429	0.000	0.200
40.00	-33.22	-7.83	0.00	-703.58	0.00	703.58	3843.07	971.65	3750.03	3677.52	1.83	-0.455	0.000	0.200
42.00	-32.74	-7.79	0.00	-687.93	0.00	687.93	3811.75	959.84	3659.42	3602.86	2.02	-0.481	0.000	0.200
44.00	-32.27	-7.75	0.00	-672.35	0.00	672.35	3780.05	948.03	3569.92	3528.58	2.23	-0.508	0.000	0.199
46.00	-31.74	-7.67	0.00	-656.84	0.00	656.84	3747.97	936.22	3481.52	3454.69	2.45	-0.535	0.000	0.199
47.50	-31.39	-7.64	0.00	-645.33	0.00	645.33	3723.67	927.36	3415.96	3399.54	2.62	-0.555	0.000	0.198
48.00	-31.18	-7.63	0.00	-641.51	0.00	641.51	3715.52	924.41	3394.24	3381.21	2.68	-0.562	0.000	0.198
50.00	-30.35	-7.59	0.00	-626.25	0.00	626.25	3682.68	912.60	3308.06	3308.15	2.92	-0.590	0.000	0.198
52.00	-29.54	-7.54	0.00	-611.07	0.00	611.07	3649.47	900.79	3223.00	3235.53	3.17	-0.618	0.000	0.197
53.25	-29.04	-7.51	0.00	-601.64	0.00	601.64	3672.80	909.07	3282.55	3286.43	3.34	-0.636	0.000	0.191
54.00	-28.87	-7.50	0.00	-596.01	0.00	596.01	3660.35	904.64	3250.65	3259.19	3.44	-0.647	0.000	0.191
56.00	-28.41	-7.46	0.00	-581.01	0.00	581.01	3626.88	892.83	3166.32	3186.86	3.72	-0.674	0.000	0.190
58.00	-27.96	-7.41	0.00	-566.10	0.00	566.10	3593.03	881.02	3083.11	3115.00	4.01	-0.702	0.000	0.190
60.00	-27.52	-7.37	0.00	-551.27	0.00	551.27	3558.80	869.21	3001.01	3043.60	4.31	-0.730	0.000	0.189
62.00	-27.08	-7.33	0.00	-536.53	0.00	536.53	3524.20	857.40	2920.01	2972.69	4.62	-0.759	0.000	0.188
64.00	-26.65	-7.29	0.00	-521.87	0.00	521.87	3489.21	845.59	2840.12	2902.27	4.94	-0.788	0.000	0.188
66.00	-26.22	-7.25	0.00	-507.29	0.00	507.29	3453.85	833.78	2761.34	2832.36	5.28	-0.817	0.000	0.187
68.00	-25.79	-7.21	0.00	-492.80	0.00	492.80	3418.11	821.97	2683.66	2762.97	5.63	-0.847	0.000	0.186
70.00	-25.37	-7.16	0.00	-478.39	0.00	478.39	3381.99	810.16	2607.10	2694.13	5.99	-0.877	0.000	0.185
72.00	-24.95	-7.12	0.00	-464.06	0.00	464.06	3345.49	798.35	2531.64	2625.83	6.36	-0.907	0.000	0.184
74.00	-24.54	-7.08	0.00	-449.81	0.00	449.81	3308.61	786.54	2457.29	2558.09	6.75	-0.938	0.000	0.183
76.00	-24.13	-7.04	0.00	-435.65	0.00	435.65	3271.35	774.73	2384.05	2490.93	7.15	-0.970	0.000	0.182
78.00	-23.73	-7.00	0.00	-421.56	0.00	421.56	3229.69	762.92	2311.92	2421.35	7.56	-1.002	0.000	0.182
79.00	-23.47	-6.92	0.00	-414.44	0.00	414.44	3204.69	757.01	2276.27	2383.82	7.77	-1.018	0.000	0.181
80.00	-23.27	-6.90	0.00	-407.52	0.00	407.52	3179.70	751.11	2240.89	2346.59	7.99	-1.034	0.000	0.181
82.00	-22.88	-6.86	0.00	-393.72	0.00	393.72	3129.70	739.30	2170.98	2273.00	8.43	-1.067	0.000	0.181
84.00	-22.49	-6.82	0.00	-379.99	0.00	379.99	3079.70	727.49	2102.17	2200.58	8.88	-1.100	0.000	0.180
86.00	-22.11	-6.78	0.00	-366.35	0.00	366.35	3029.70	715.68	2034.47	2129.34	9.35	-1.133	0.000	0.179
88.00	-21.73	-6.74	0.00	-352.78	0.00	352.78	2979.71	703.87	1967.87	2059.26	9.83	-1.167	0.000	0.179

Calculated Forces

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 85



90.00	-21.35	-6.71	0.00	-339.29	0.00	339.29	2929.71	692.06	1902.39	1990.36	10.33	-1.201	0.000	0.178
92.00	-20.98	-6.67	0.00	-325.88	0.00	325.88	2879.71	680.25	1838.01	1922.64	10.84	-1.236	0.000	0.177
94.00	-20.62	-6.63	0.00	-312.54	0.00	312.54	2829.72	668.44	1774.74	1856.08	11.36	-1.271	0.000	0.176
96.00	-20.26	-6.59	0.00	-299.28	0.00	299.28	2779.72	656.63	1712.58	1790.70	11.90	-1.306	0.000	0.175
97.00	-20.08	-6.57	0.00	-292.69	0.00	292.69	2754.72	650.72	1681.92	1758.45	12.18	-1.324	0.000	0.174
98.00	-19.80	-6.55	0.00	-286.12	0.00	286.12	2729.72	644.82	1651.53	1726.49	12.46	-1.342	0.000	0.173
100.00	-19.23	-6.51	0.00	-273.01	0.00	273.01	2679.72	633.01	1591.59	1663.45	13.03	-1.378	0.000	0.171
101.00	-18.96	-6.49	0.00	-266.51	0.00	266.51	2260.79	534.55	1361.99	1425.24	13.32	-1.397	0.000	0.196
102.00	-18.80	-6.47	0.00	-260.02	0.00	260.02	2242.10	529.63	1337.03	1400.31	13.62	-1.415	0.000	0.194
104.00	-18.49	-6.44	0.00	-247.08	0.00	247.08	2200.44	519.79	1287.80	1348.49	14.22	-1.456	0.000	0.192
106.00	-18.19	-6.40	0.00	-234.21	0.00	234.21	2158.77	509.95	1239.49	1297.65	14.84	-1.497	0.000	0.189
108.00	-17.89	-6.36	0.00	-221.40	0.00	221.40	2117.11	500.10	1192.11	1247.79	15.47	-1.538	0.000	0.186
109.00	-17.68	-6.28	0.00	-214.90	0.00	214.90	2096.28	495.18	1168.77	1223.22	15.80	-1.559	0.000	0.184
110.00	-17.53	-6.27	0.00	-208.62	0.00	208.62	2075.44	490.26	1145.65	1198.90	16.12	-1.580	0.000	0.183
112.00	-17.24	-6.24	0.00	-196.08	0.00	196.08	2033.78	480.42	1100.12	1150.99	16.80	-1.621	0.000	0.179
114.00	-16.95	-6.20	0.00	-183.61	0.00	183.61	1992.11	470.58	1055.50	1104.05	17.48	-1.662	0.000	0.175
116.00	-16.67	-6.17	0.00	-171.21	0.00	171.21	1950.45	460.74	1011.82	1058.10	18.19	-1.703	0.000	0.171
118.00	-16.39	-6.14	0.00	-158.87	0.00	158.87	1908.79	450.89	969.05	1013.12	18.91	-1.743	0.000	0.166
120.00	-16.12	-6.10	0.00	-146.60	0.00	146.60	1867.12	441.05	927.21	969.11	19.65	-1.783	0.000	0.160
122.00	-15.84	-6.07	0.00	-134.39	0.00	134.39	1825.46	431.21	886.29	926.09	20.40	-1.822	0.000	0.154
124.00	-15.58	-6.04	0.00	-122.25	0.00	122.25	1783.79	421.37	846.29	884.04	21.18	-1.861	0.000	0.147
126.00	-15.31	-6.01	0.00	-110.18	0.00	110.18	1742.13	411.53	807.22	842.97	21.96	-1.898	0.000	0.140
128.00	-15.05	-5.97	0.00	-98.17	0.00	98.17	1700.47	401.68	769.07	802.87	22.77	-1.934	0.000	0.131
130.00	-11.72	-4.35	0.00	-86.22	0.00	86.22	1658.80	391.84	731.85	763.75	23.58	-1.968	0.000	0.120
132.00	-11.49	-4.32	0.00	-77.52	0.00	77.52	1617.14	382.00	695.54	725.61	24.42	-2.000	0.000	0.114
134.00	-11.27	-4.29	0.00	-68.88	0.00	68.88	1575.47	372.16	660.17	688.45	25.26	-2.032	0.000	0.107
136.00	-11.06	-4.25	0.00	-60.31	0.00	60.31	1533.81	362.32	625.71	652.26	26.12	-2.062	0.000	0.100
138.00	-10.85	-4.22	0.00	-51.80	0.00	51.80	1492.14	352.47	592.18	617.05	26.99	-2.090	0.000	0.091
139.00	-7.76	-2.92	0.00	-47.58	0.00	47.58	1471.31	347.55	575.76	599.82	27.43	-2.103	0.000	0.085
140.00	-7.67	-2.91	0.00	-44.65	0.00	44.65	1450.48	342.63	559.57	582.82	27.87	-2.117	0.000	0.082
142.00	-7.50	-2.88	0.00	-38.83	0.00	38.83	1408.82	332.79	527.89	549.57	28.76	-2.142	0.000	0.076
144.00	-7.33	-2.85	0.00	-33.08	0.00	33.08	1367.15	322.95	497.12	517.29	29.66	-2.165	0.000	0.069
146.00	-7.17	-2.82	0.00	-27.38	0.00	27.38	1325.49	313.11	467.29	485.99	30.57	-2.186	0.000	0.062
148.00	-4.57	-1.70	0.00	-20.73	0.00	20.73	1283.82	303.27	438.37	455.66	31.49	-2.206	0.000	0.049
148.25	-4.55	-1.70	0.00	-20.30	0.00	20.30	1278.61	302.03	434.82	451.94	31.61	-2.208	0.000	0.049
150.00	-4.36	-1.67	0.00	-17.34	0.00	17.34	1242.16	293.42	410.38	426.31	32.42	-2.222	0.000	0.044
150.50	-4.30	-1.66	0.00	-16.50	0.00	16.50	761.15	179.80	256.82	268.81	32.65	-2.226	0.000	0.067
152.00	-4.23	-1.64	0.00	-14.01	0.00	14.01	742.40	175.37	244.32	255.66	33.36	-2.237	0.000	0.061
154.00	-4.13	-1.61	0.00	-10.74	0.00	10.74	717.40	169.47	228.14	238.64	34.30	-2.257	0.000	0.051
156.00	-4.03	-1.59	0.00	-7.51	0.00	7.51	692.41	163.56	212.52	222.21	35.25	-2.273	0.000	0.040
158.00	-3.94	-1.56	0.00	-4.34	0.00	4.34	667.41	157.66	197.45	206.36	36.20	-2.285	0.000	0.027
159.00	0.00	-1.40	0.00	-2.78	0.00	2.78	654.91	154.70	190.13	198.65	36.68	-2.289	0.000	0.014

Final Analysis Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 86



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 120 mph Wind	38.4	0.00	52.50	0.00	0.00	4650.85
0.9D + 1.0W 120 mph Wind	38.3	0.00	39.37	0.00	0.00	4576.91
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.9	0.00	71.32	0.00	0.00	1193.30
1.2D + 1.0Ev + 1.0Eh	0.7	0.00	54.50	0.00	0.00	101.70
0.9D + 1.0Ev + 1.0Eh	0.7	0.00	41.27	0.00	0.00	100.20
1.0D + 1.0W 60 mph Wind	8.6	0.00	43.77	0.00	0.00	1032.89

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 120 mph Wind	-52.50	-38.36	0.00	-4650.8	0.00	-4650.8	4389.95	1207.8	5794.89	5230.24	0.00	0.902
0.9D + 1.0W 120 mph Wind	-39.37	-38.34	0.00	-4576.9	0.00	-4576.9	4389.95	1207.8	5794.89	5230.24	0.00	0.885
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-71.32	-9.94	0.00	-1193.3	0.00	-1193.3	4389.95	1207.8	5794.89	5230.24	0.00	0.244
1.2D + 1.0Ev + 1.0Eh	-23.78	-0.70	0.00	-32.17	0.00	-32.17	2260.79	534.55	1361.99	1425.24	101.00	0.033
0.9D + 1.0Ev + 1.0Eh	-18.02	-0.68	0.00	-31.57	0.00	-31.57	2260.79	534.55	1361.99	1425.24	101.00	0.030
1.0D + 1.0W 60 mph Wind	-43.77	-8.58	0.00	-1032.8	0.00	-1032.8	4389.95	1207.8	5794.89	5230.24	0.00	0.208

Base Plate Summary

Structure: CT13055-A	Code: TIA-222-H	8/1/2023
Site Name: Monroe Turnpike	Exposure: C	
Height: 159.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 87



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 60.00	Bolt Circle: 65.00
Moment (kip-ft): 3665.00	Width (in): 71.00	Number Bolts: 14.00
Axial (kip): 41.45	Style: Round	Bolt Type: 2.25" 18J
Shear (kip): 31.29	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis (1.2D + 1.0W)	Clip Length (in): 0.00	Yield (ksi): 75.00
Moment (kip-ft): 4650.85	Effective Len (in): 27.84	Ultimate (ksi): 100.00
Axial (kip): 52.50	Moment (kip-in): 846.84	Arrangement: Radial
Shear (kip): 38.36	Allow Stress (ksi): 81.00	Cluster Dist (in): 0.00
	Applied Stress (ksi): 36.45	Start Angle (deg): 0.00
	Stress Ratio: 0.45	Compression
		Force (kip): 249.07
		Allowable (kip): 268.39
		Ratio: 0.93
		Tension
		Force (kip): 241.57
		Allowable (kip): 243.75
		Ratio: 0.99

	Monopole Mat Foundation Design		<i>Date</i>	
			7/28/2023	
	Customer Name:	Verizon	TIA Standard:	TIA-222-H
	Site Name:		Structure Height (Ft.):	160
	Site Number:	CT13055-A	Engineer Name:	SBA Engineer
Engr. Number:		Engineer Login ID:		

Foundation Info Obtained from:

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	52.5	Shear Force (Kips):	38.4
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4650.9

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	5.5
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	2.00
Length of Pad (ft.):	25.5	Width of Pad (ft.):	25.5
Final Length of pad (ft)	25.5	Final width of pad (ft):	25.5

Material Properties and Rebar Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	9	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	32	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	41	Qty. of Rebar in Pad (W):	41	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	41	Qty. of Rebar in Pad (W):	41	

Soil Design Parameters:

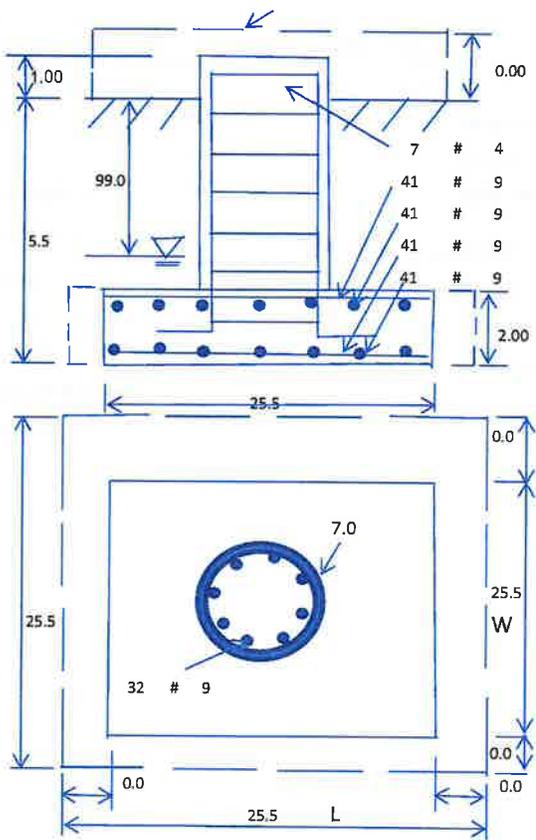
Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	57.6	Pcf	
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad: 30
Ultimate Bearing Pressure (psf):	12000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad: 25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad: 25
Consider soil hor. resist. for OTM.:	No	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.):	2141.18	Total Dry Soil Weight (Kips):	256.94
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	256.94	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	1473.68	Total Dry Concrete Weight (Kips):	221.05
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	221.05	Total Vertical Load on Base (Kips):	530.49

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	3448	<	Allowable Factored Soil Bearing (psf):	9000	0.38	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	6154.4	>	Design Factored Momont (kips-ft):	4900	0.80	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.26					OK!



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	

Load/
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.00	Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	5377.0	> Design Factored Moment (Mu, Kips-Ft)	4823.7	0.90	OK!
Calculated Shear Capacity (Kips):	660.1	> Design Factored Shear (Kips):	38.4	0.06	OK!
Calculated Tension Capacity (Tn, Kips):	1728.0	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	9741.3	> Design Factored Axial Load (Pu Kips):	52.5	0.01	OK!
Moment & Axial Strength Combination:	0.90	OK! Check Tie Spacing (Design/Required):		1	OK!
Pier Reinforcement Ratio:	0.006	Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	593.3	> One-Way Factored Shear (L-D. Kips):	304.5	0.51	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	593.3	> One-Way Factored Shear (W-D., Kips):	304.5	0.51	OK!
One-Way Design Shear Capacity (Corner-Corner, Kips):	596.9	> One-Way Factored Shear (C-C, Kips):	317.3	0.53	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0066	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0066		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	3552.6	> Moment at Bottom (L-Dir. K-Ft):	1507.3	0.42	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	3552.6	> Moment at Bottom (W-Dir. K-Ft):	1507.3	0.42	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	4949.8	> Moment at Bottom (C-C Dir. K-Ft):	2131.7	0.43	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0066	OK! Upper Steel Reinf. Ratio (W-Dir.):	0.0066		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	3552.6	> Moment at the top (L-Dir K-Ft):	750.5	0.21	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	3552.6	> Moment at the top (W-Dir K-Ft):	750.5	0.21	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	4949.8	> Moment at the top (C-C Dir. K-Ft):	703.6	0.14	OK!

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:	1860.3	k-ft.	Max. factored shear stress $v_{u,CP}$:	6.2	Psi
Max. factored shear stress $v_{u,AB}$:	19.3	Psi	Factored shear Strength $\phi_v v_n$:	189.7	Psi
Max. factored shear stress v_u :	19.3	Psi	Check Usage of Punching Shear Capacity:	0.10	OK!

(4).Check Bending Capacity of the Pad Within the Effective Slab Width:

Overturning moment to be transferred by flexure:	1395.3	k-ft.	Effective Width for resisting OT moment:	13.0	ft.
Calculated number of Rebar in Effective width:	21		Actual number of Rebar in Effective width:	21	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	1819.1	k-ft.	Check Usage of the Flexure Capacity:	0.77	OK!



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

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10207131
Colliers Engineering & Design CT, P.C. Project #: 23777151

July 20, 2023

Site Information

Site ID: 5000383136-VZW/MONROE NORTHEAST CT
Site Name: MONROE NORTHEAST CT
Carrier Name: Verizon Wireless
Address: 1428 Monroe Turnpike
Monroe, Connecticut 06468
Fairfield County
Latitude: 41.376389°
Longitude: -73.186389°

Structure Information

Tower Type: Monopole
Mount Type: 12.42-Ft Platform

FUZE ID # 17123821

Analysis Results

Platform: 83.5% Pass*

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

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzwsmart.com>
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Andy Hanes



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: 324394, dated March 8, 2021
Mount Mapping Report	Structural Components, Site ID: 16272187, dated February 25, 2021
Previous Mount Analysis	Maser Consulting Connecticut, Project #: 21777101A, dated May 10, 2021
PMI Report	Maser Consulting Connecticut, Project #: 21777101A, dated June 18, 2022
Filter Add Scope	Provided by Verizon Wireless

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.979
Seismic Parameters:	S_s : 0.208 g S_1 : 0.055 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
128.00	129.00	2	Commscope	JAHH-45B-R3B	Retained
		4	Commscope	JAHH-65B-R3B	
		3	Samsung	MT6407-77A	
		3	Commscope	CBC78T-DS-43	
		1	RFS	DB-C1-12C-24AB-OZ	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	Amphenol Antel	LPA-80063-6CF-EDIN-4	
		4	KAelus	KA-6030	Added

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

Model Number	Ports	AKA
DB-B1-6C-12AB-OZ	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:

Component	Utilization %	Pass/Fail
Connection Check	83.5 %	Pass
Face Horizontal	31.2 %	Pass
Cross Arm Plate	44.0 %	Pass
Corner Plate	32.1 %	Pass
Standoff Horizontal	71.7 %	Pass
Platform Crossmember	33.7 %	Pass
Grating Support	25.4 %	Pass
Mount Pipe	70.4 %	Pass
Mount Pipe P2.5 STD	47.1 %	Pass
MOD Support Rail	39.4 %	Pass
Mod Support Rail Corner Angle	72.5 %	Pass
Structure Rating – (Controlling Utilization of all Components)		83.5%

BASELINE mount weight per SBA agreement: 2105 lbs

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

The weights listed above include 3 sector(s).

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	24.8	24.8	43.2	43.2
0.5	32.0	32.0	57.9	57.9
1	38.8	38.8	72.1	72.1

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.

N/A

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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

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

MDG #: 5000383136

SMART Project #: 10207131

Fuze Project ID: 17123821

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:

N/A

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:

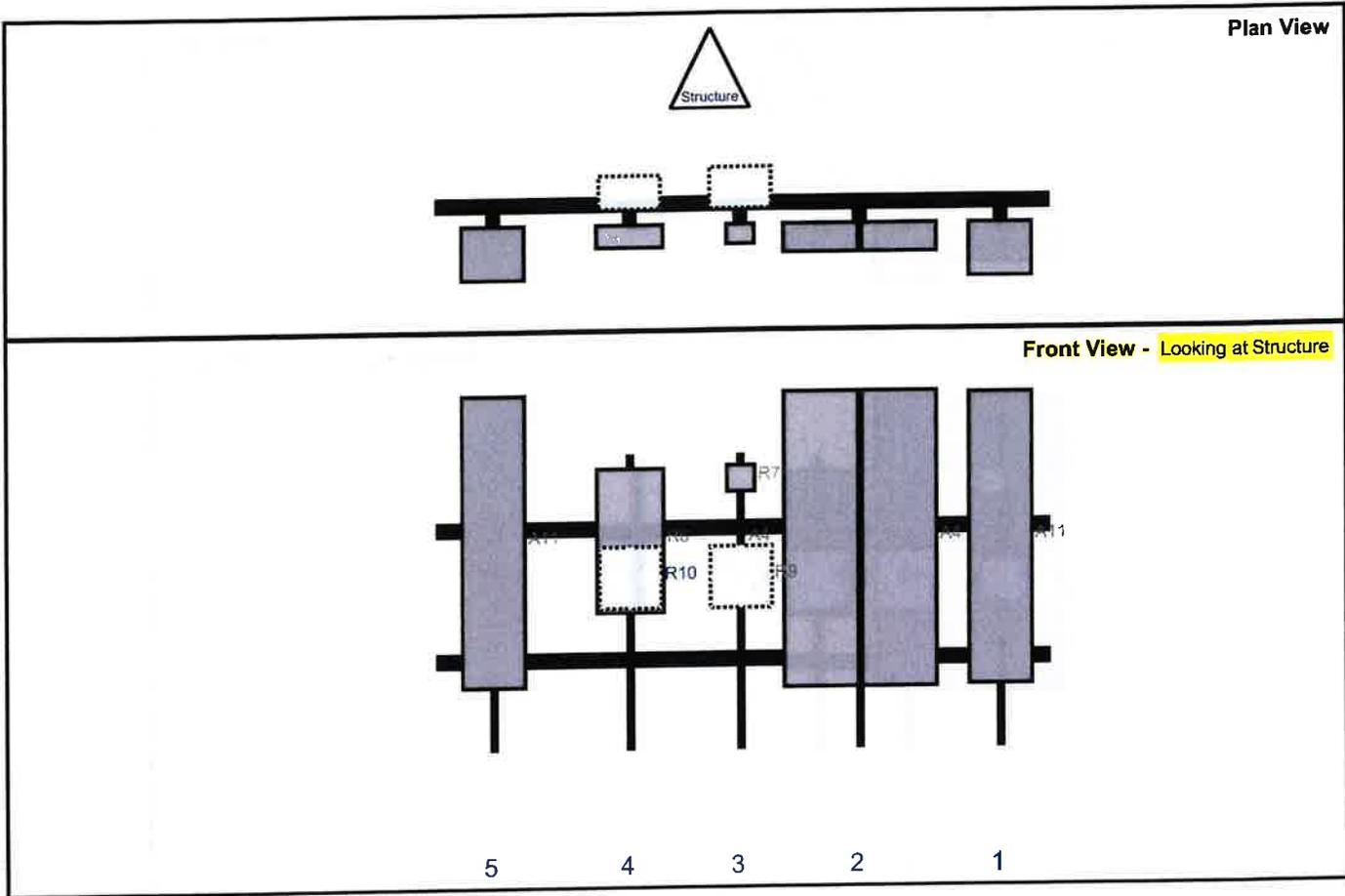
Safety Climb in Good Condition Safety Climb Damaged

Certifying Individual:

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

Sector: **A**
 Structure Type: Monopole
 Mount Elev: 129.00

10207131



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
A11	LPA-80063-6CF-EDIN-4	71.1	15.2	136.984	1	a	Front	21	0	Retained	07/08/2022
A4	JAHH-45B-R3B	72	18	102.984	2	a	Front	21	9.5	Retained	07/08/2022
A4	JAHH-45B-R3B	72	18	102.984	2	b	Front	21	-9.5	Retained	07/08/2022
R7	CBC78T-DS-43	6.4	6.9	73.9841	3	a	Front	6	0	Retained	07/08/2022
R9	B2/B66A RRH-BR049	15	15	73.9841	3	a	Behind	30	0	Retained	07/08/2022
R6	MT6407-77A	35.1	16.1	46.9841	4	a	Front	21	0	Retained	07/08/2022
R10	B5/B13 RRH-BR04C	15	15	46.9841	4	a	Behind	30	0	Retained	07/08/2022
A11	LPA-80063-6CF-EDIN-4	71.1	15.2	13.9841	5	a	Front	21	0	Retained	07/08/2022
O1	DB-C1-12C-24AB-0Z	29.5	16.5			Member				Retained	07/08/2022

Structure: 5000383136-VZW - MONROE NORTHEAST CT

Sector: B

7/20/2023

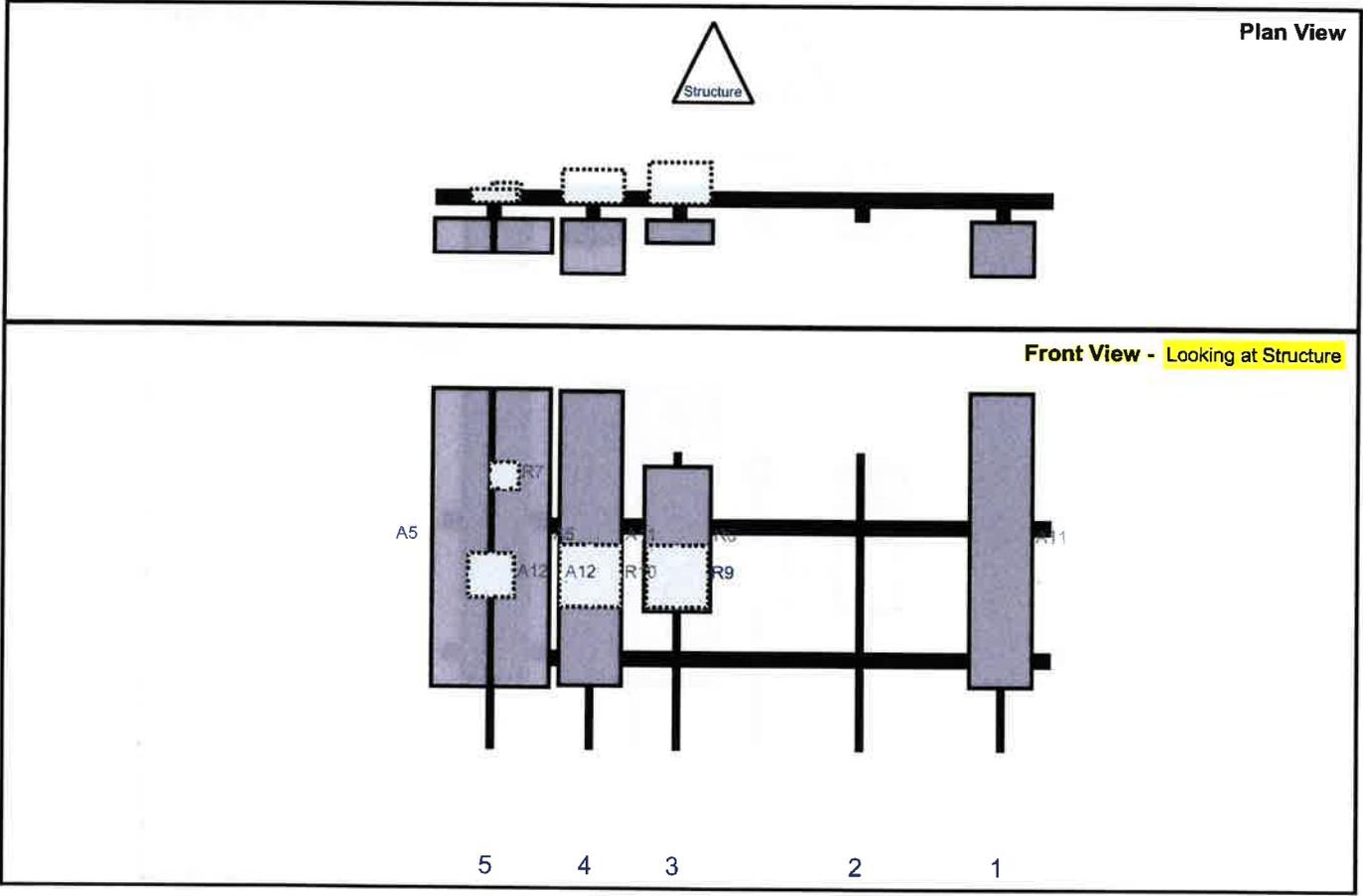
Structure Type: Monopole

10207131



Mount Elev: 129.00

Page: 2



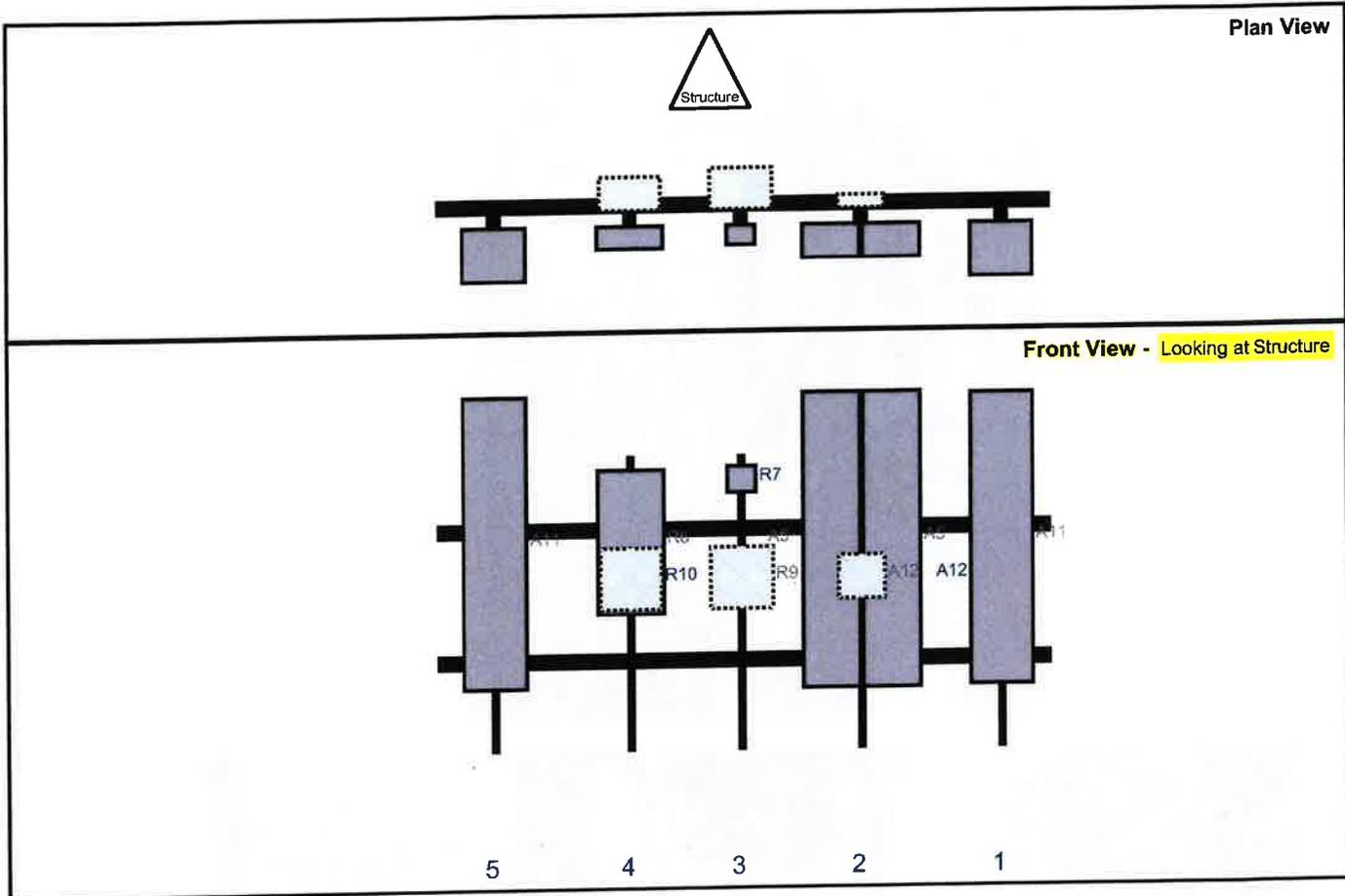
Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Fm T.	Ant H Off	Status	Validation
A11	LPA-80063-6CF-EDIN-4	71.1	15.2	136.984	1	a	Front	21	0	Retained	07/08/2022
R6	MT6407-77A	35.1	16.1	58.9841	3	a	Front	21	0	Retained	07/08/2022
R9	B2/B66A RRH-BR049	15	15	58.9841	3	a	Behind	30	0	Retained	07/08/2022
A11	LPA-80063-6CF-EDIN-4	71.1	15.2	37.9841	4	a	Front	21	0	Retained	07/08/2022
R10	B5/B13 RRH-BR04C	15	15	37.9841	4	a	Behind	30	0	Retained	07/08/2022
A5	JAHH-65B-R3B	72	13.8	13.9841	5	a	Front	21	7.25	Retained	07/08/2022
A5	JAHH-65B-R3B	72	13.8	13.9841	5	b	Front	21	-7.25	Retained	07/08/2022
R7	CBC78T-DS-43	6.4	6.9	13.9841	5	a	Behind	6	3	Retained	07/08/2022
A12	KA-6030	10.6	10.9	13.9841	5	a	Behind	30	0	Added	
A12	KA-6030	10.6	10.9	13.9841	5	b	Behind	30	0	Added	

Sector: C

Structure Type: Monopole

10207131

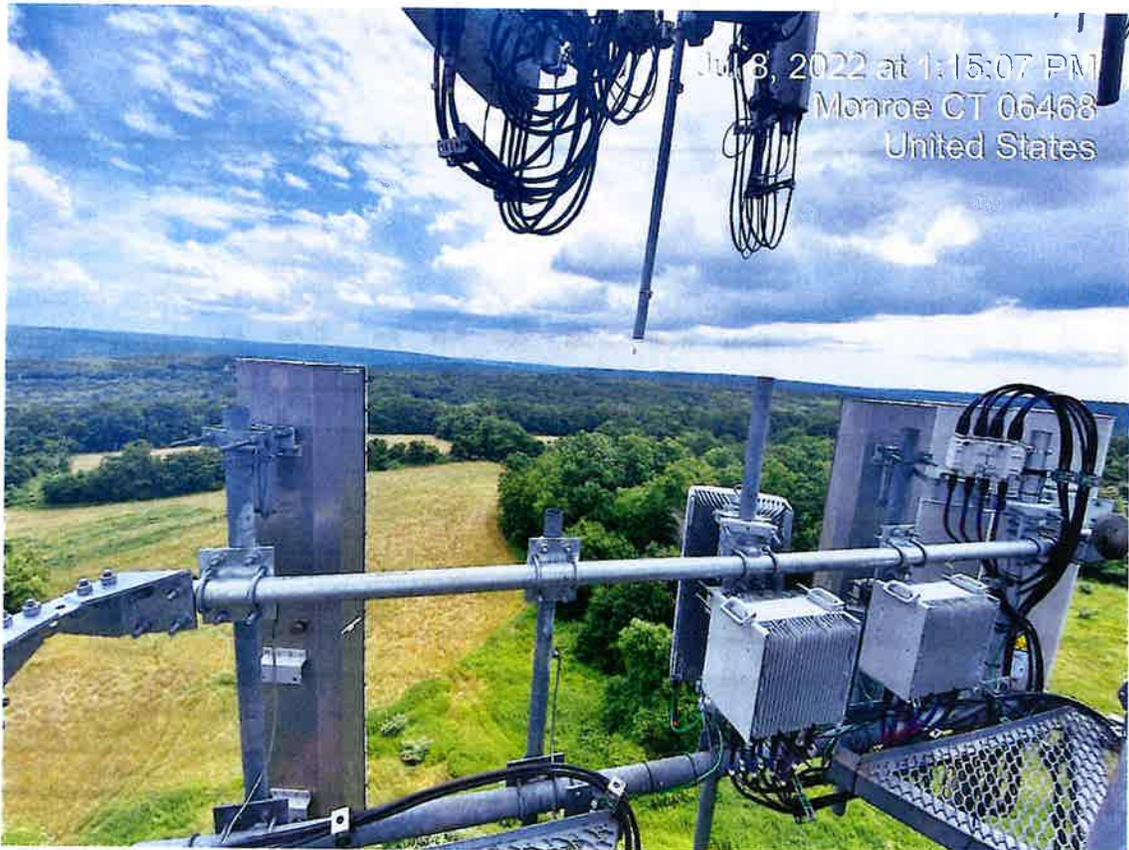
Mount Elev: 129.00



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
A11	LPA-80063-6CF-EDIN-4	71.1	15.2	136.984	1	a	Front	21	0	Retained	07/08/2022
A5	JAHH-65B-R3B	72	13.8	102.984	2	a	Front	21	7.25	Retained	07/08/2022
A5	JAHH-65B-R3B	72	13.8	102.984	2	b	Front	21	-7.25	Retained	07/08/2022
A12	KA-6030	10.6	10.9	102.984	2	a	Behind	30	0	Added	
A12	KA-6030	10.6	10.9	102.984	2	b	Behind	30	0	Added	
R7	CBC78T-DS-43	6.4	6.9	73.9841	3	a	Front	6	0	Retained	07/08/2022
R9	B2/B66A RRH-BR049	15	15	73.9841	3	a	Behind	30	0	Retained	07/08/2022
R6	MT6407-77A	35.1	18.1	46.9841	4	a	Front	21	0	Retained	07/08/2022
R10	B5/B13 RRH-BR04C	15	15	46.9841	4	a	Behind	30	0	Retained	07/08/2022
A11	LPA-80063-6CF-EDIN-4	71.1	15.2	13.9841	5	a	Front	21	0	Retained	07/08/2022



Jul 8, 2022 at 1:35:25 PM
Monroe CT 06468
United States



Jul 8, 2022 at 1:15:07 PM
Monroe CT 06468
United States

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



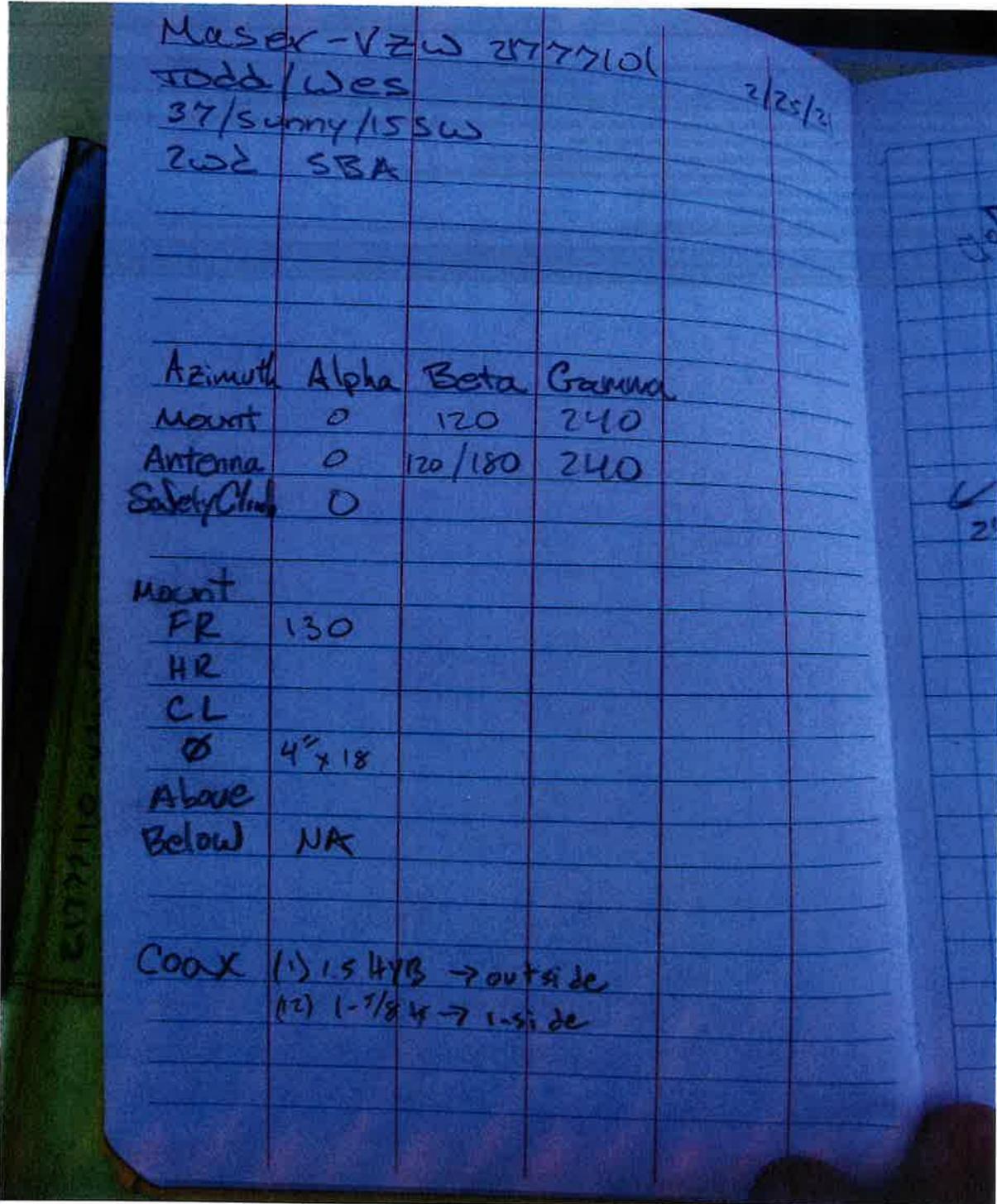
Antenna Mount Mapping Form (PATENT PENDING)

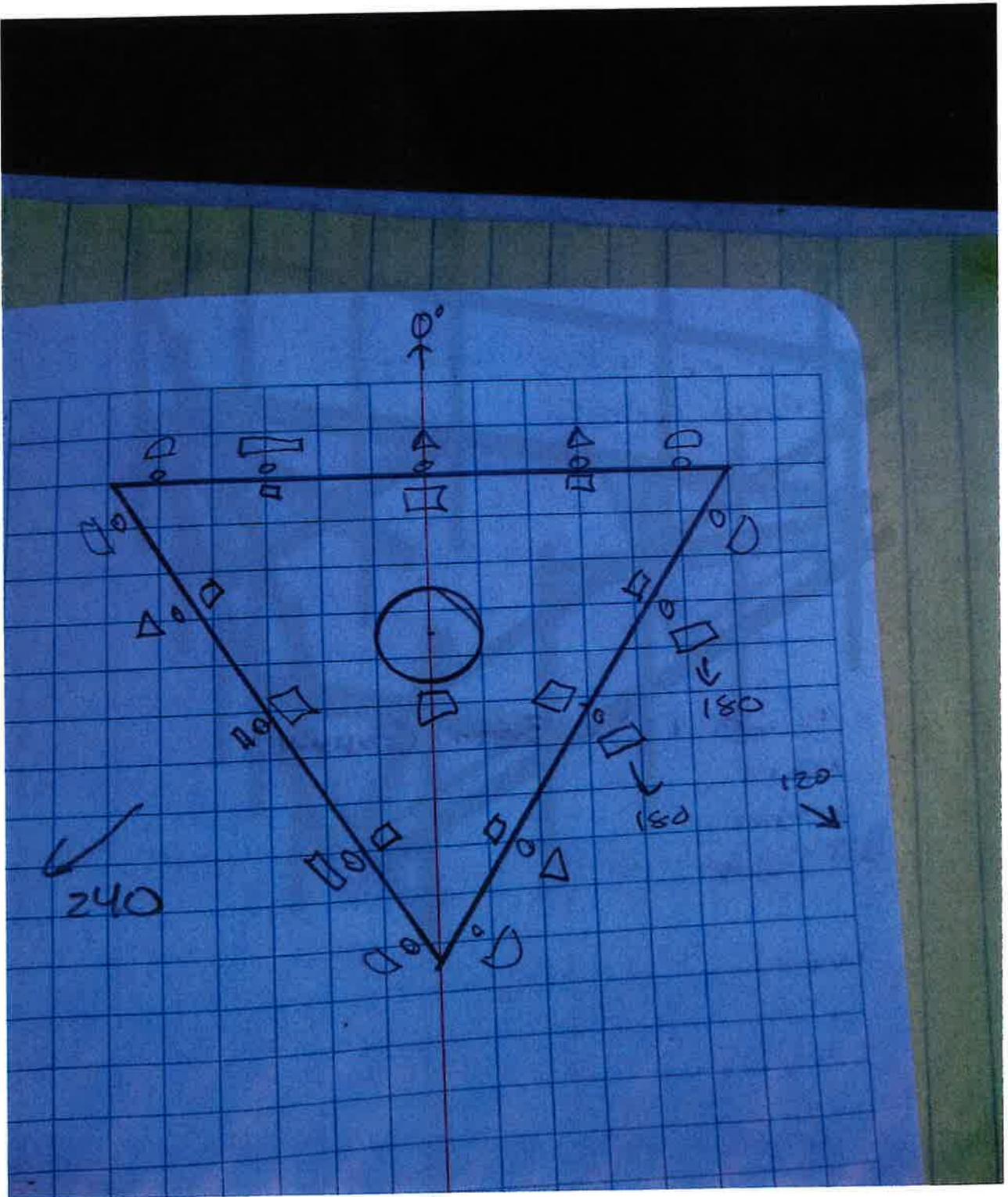
FCC #

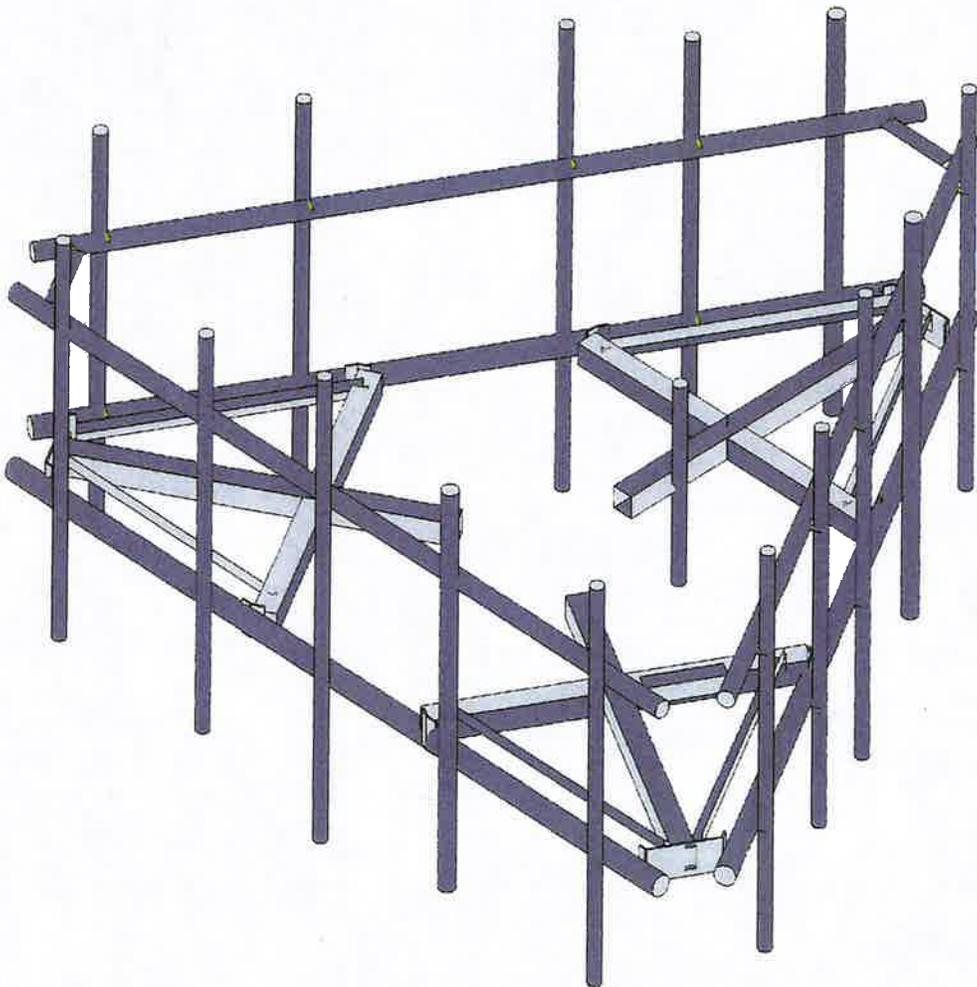
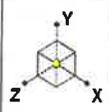
Tower Owner:	SBA	Mapping Date:	2/25/2021
Site Name:	Monroe North East CT	Tower Type:	Monopole
Site Number or ID:	16272187	Tower Height (FL):	
Mapping Contractor:	Structural Components	Mount Elevation (FL):	130

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount





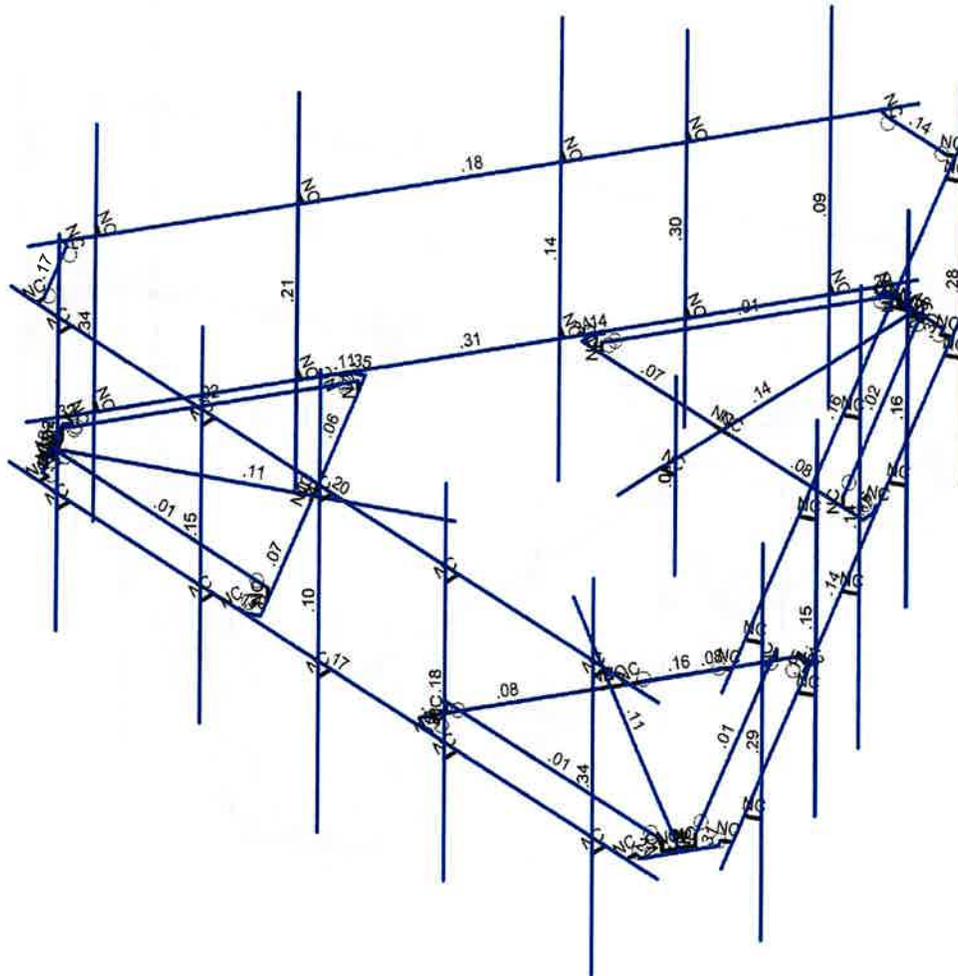
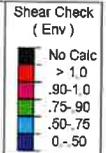
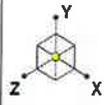


Envelope Only Solution

SK - 1

July 20, 2023 at 1:06 PM

5000383136-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

SK - 3
July 20, 2023 at 1:06 PM
5000383136-VZW_MT_LO_H.r3d



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 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					132		
2	Antenna Di	None					132		
3	Antenna Wo (0 Deg)	None					132		
4	Antenna Wo (30 Deg)	None					132		
5	Antenna Wo (60 Deg)	None					132		
6	Antenna Wo (90 Deg)	None					132		
7	Antenna Wo (120 Deg)	None					132		
8	Antenna Wo (150 Deg)	None					132		
9	Antenna Wo (180 Deg)	None					132		
10	Antenna Wo (210 Deg)	None					132		
11	Antenna Wo (240 Deg)	None					132		
12	Antenna Wo (270 Deg)	None					132		
13	Antenna Wo (300 Deg)	None					132		
14	Antenna Wo (330 Deg)	None					132		
15	Antenna Wi (0 Deg)	None					132		
16	Antenna Wi (30 Deg)	None					132		
17	Antenna Wi (60 Deg)	None					132		
18	Antenna Wi (90 Deg)	None					132		
19	Antenna Wi (120 Deg)	None					132		
20	Antenna Wi (150 Deg)	None					132		
21	Antenna Wi (180 Deg)	None					132		
22	Antenna Wi (210 Deg)	None					132		
23	Antenna Wi (240 Deg)	None					132		
24	Antenna Wi (270 Deg)	None					132		
25	Antenna Wi (300 Deg)	None					132		
26	Antenna Wi (330 Deg)	None					132		
27	Antenna Wm (0 Deg)	None					132		
28	Antenna Wm (30 Deg)	None					132		
29	Antenna Wm (60 Deg)	None					132		
30	Antenna Wm (90 Deg)	None					132		
31	Antenna Wm (120 De...	None					132		
32	Antenna Wm (150 De...	None					132		
33	Antenna Wm (180 De...	None					132		
34	Antenna Wm (210 De...	None					132		
35	Antenna Wm (240 De...	None					132		
36	Antenna Wm (270 De...	None					132		
37	Antenna Wm (300 De...	None					132		
38	Antenna Wm (330 De...	None					132		
39	Structure D	None		-1				61	3
40	Structure Di	None						122	3
41	Structure Wo (0 Deg)	None						122	
42	Structure Wo (30 Deg)	None						122	
43	Structure Wo (60 Deg)	None						122	
44	Structure Wo (90 Deg)	None						122	
45	Structure Wo (120 D...	None						122	
46	Structure Wo (150 D...	None						122	
47	Structure Wo (180 D...	None						122	
48	Structure Wo (210 D...	None						122	
49	Structure Wo (240 D...	None						122	
50	Structure Wo (270 D...	None						122	
51	Structure Wo (300 D...	None						122	
52	Structure Wo (330 D...	None						122	
53	Structure Wi (0 Deg)	None						122	
54	Structure Wi (30 Deg)	None						122	
55	Structure Wi (60 Deg)	None						122	



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
56 Structure Wi (90 Deg)	None						122	
57 Structure Wi (120 De...	None						122	
58 Structure Wi (150 De...	None						122	
59 Structure Wi (180 De...	None						122	
60 Structure Wi (210 De...	None						122	
61 Structure Wi (240 De...	None						122	
62 Structure Wi (270 De...	None						122	
63 Structure Wi (300 De...	None						122	
64 Structure Wi (330 De...	None						122	
65 Structure Wm (0 Deg)	None						122	
66 Structure Wm (30 De...	None						122	
67 Structure Wm (60 De...	None						122	
68 Structure Wm (90 De...	None						122	
69 Structure Wm (120 D...	None						122	
70 Structure Wm (150 D...	None						122	
71 Structure Wm (180 D...	None						122	
72 Structure Wm (210 D...	None						122	
73 Structure Wm (240 D...	None						122	
74 Structure Wm (270 D...	None						122	
75 Structure Wm (300 D...	None						122	
76 Structure Wm (330 D...	None						122	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 Antenna Ev	None					132		
82 Antenna Eh (0 Deg)	None					88		
83 Antenna Eh (90 Deg)	None					88		
84 Structure Ev	ELY		-025					3
85 Structure Eh (0 Deg)	ELZ			-062				3
86 Structure Eh (90 Deg)	ELX	.062						3
87 BLC 39 Transient Are...	None						75	
88 BLC 40 Transient Are...	None						75	
89 BLC 84 Transient Are...	None						75	
90 BLC 85 Transient Are...	None						75	
91 BLC 86 Transient Are...	None						75	

Load Combinations

Description	Sol.	P...	S...	B...	Fa...																	
1 1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1											
2 1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1											
3 1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1											
4 1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1											
5 1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1											
6 1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1											
7 1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1											
8 1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1											
9 1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1											
10 1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1											
11 1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1											
12 1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1											
13 1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1							
14 1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1							
15 1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1							
16 1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1							
17 1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1							
18 1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1							



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Load Combinations (Continued)

	Description	Sol.	P.	S.	B.	Fa.	B.	Fa.	B.	Fa.	B.	Fa.	B.	Fa.	B.	Fa.	B.	Fa.	B.	Fa.	B.	Fa.	
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1							
20	1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1							
21	1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1							
22	1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1							
23	1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1							
24	1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1							
25	1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1									
26	1.2D + 1.5Lm1 + 1.0Wm (30 De...)	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1									
27	1.2D + 1.5Lm1 + 1.0Wm (60 De...)	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1									
28	1.2D + 1.5Lm1 + 1.0Wm (90 De...)	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1									
29	1.2D + 1.5Lm1 + 1.0Wm (120 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1									
30	1.2D + 1.5Lm1 + 1.0Wm (150 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1									
31	1.2D + 1.5Lm1 + 1.0Wm (180 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1									
32	1.2D + 1.5Lm1 + 1.0Wm (210 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1									
33	1.2D + 1.5Lm1 + 1.0Wm (240 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1									
34	1.2D + 1.5Lm1 + 1.0Wm (270 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1									
35	1.2D + 1.5Lm1 + 1.0Wm (300 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1									
36	1.2D + 1.5Lm1 + 1.0Wm (330 D...)	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1									
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1									
38	1.2D + 1.5Lm2 + 1.0Wm (30 De...)	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1									
39	1.2D + 1.5Lm2 + 1.0Wm (60 De...)	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1									
40	1.2D + 1.5Lm2 + 1.0Wm (90 De...)	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1									
41	1.2D + 1.5Lm2 + 1.0Wm (120 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1									
42	1.2D + 1.5Lm2 + 1.0Wm (150 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1									
43	1.2D + 1.5Lm2 + 1.0Wm (180 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1									
44	1.2D + 1.5Lm2 + 1.0Wm (210 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1									
45	1.2D + 1.5Lm2 + 1.0Wm (240 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1									
46	1.2D + 1.5Lm2 + 1.0Wm (270 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1									
47	1.2D + 1.5Lm2 + 1.0Wm (300 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1									
48	1.2D + 1.5Lm2 + 1.0Wm (330 D...)	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1									
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5													
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5													
51	1.4D	Yes	Y		1	1.4	39	1.4															
52	1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83	E...	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	E...	.866	E...	.5			
54	1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	E...	.5	E...	.866			
55	1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	E...		E...	1			
56	1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	E...	-.5	E...	.866			
57	1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	.5	E...	-.8...	E...	.5			
58	1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		E...	-1	E...				
59	1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	-.5	E...	-.8...	E...	-.5			
60	1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8...	E...	-.5	E...	-.8...			
61	1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	E...		E...	-1			
62	1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8...	E...	.5	E...	-.8...			
63	1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	E...	.866	E...	-.5			
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83	E...	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	E...	.866	E...	.5			
66	0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	E...	.5	E...	.866			
67	0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	E...		E...	1			
68	0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	E...	-.5	E...	.866			
69	0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	.5	E...	-.8...	E...	.5			
70	0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		E...	-1	E...				
71	0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	-.5	E...	-.8...	E...	-.5			
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.8...	E...	-.5	E...	-.8...			
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	E...		E...	-1			
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.8...	E...	.5	E...	-.8...			
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	E...	.866	E...	-.5			



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0	0	0	0	
2	N36	-6.207671	0	4.095516	0	
3	N53A	6.207671	0	4.095516	0	
4	N79A	-1.511768	0	3.96922	0	
5	N96 1	-5.749337	0	3.931981	0	
6	N112	-1.674148	0	4.06297	0	
7	N116	-1.840815	0	4.06297	0	
8	N120	-1.840815	0	4.095516	0	
9	N120A	-5.624337	0	3.931981	0	
10	N124	-5.624337	0	4.095516	0	
11	N223B	5.207671	0	4.095516	0	
12	N224B	5.207671	0	4.345516	0	
13	N223D	5.749337	0	3.931981	0	
14	N224D	5.624337	0	3.931981	0	
15	N225D	5.624337	0	4.095516	0	
16	N226D	6.279864	0	3.013081	0	
17	N227C	6.217364	0	2.904828	0	
18	N228C	6.358989	0	2.823061	0	
19	N229C	0.530527	0	-6.945062	0	
20	N230C	0.593027	0	-6.836809	0	
21	N231C	0.734652	0	-6.918577	0	
22	N232C	-0.530527	0	-6.945062	0	
23	N233C	-0.593027	0	-6.836809	0	
24	N234C	-0.734652	0	-6.918577	0	
25	N235C	-6.279864	0	3.013081	0	
26	N236C	-6.217364	0	2.904828	0	
27	N237C	-6.358989	0	2.823061	0	
28	N258A	-0.	0	-6.945062	0	
29	N259A	-0.	0	-1.320062	0	
30	N244C	1.511768	0	3.96922	0	
31	N245C	1.674148	0	4.06297	0	
32	N246C	1.840815	0	4.06297	0	
33	N247A	1.840815	0	4.095516	0	
34	N248A	4.19333	0	-0.67538	0	
35	N249A	4.35571	0	-0.58163	0	
36	N250A	4.439043	0	-0.437293	0	
37	N251A	4.467228	0	-0.453566	0	
38	N252A	2.681562	0	-3.29384	0	
39	N253A	2.681562	0	-3.48134	0	
40	N254A	2.598228	0	-3.625678	0	
41	N255A	2.626413	0	-3.64195	0	
42	N256A	-2.681562	0	-3.29384	0	
43	N257A	-2.681562	0	-3.48134	0	
44	N258B	-2.598228	0	-3.625678	0	
45	N259B	-2.626413	0	-3.64195	0	
46	N260B	-4.19333	0	-0.67538	0	
47	N261B	-4.35571	0	-0.58163	0	
48	N262B	-4.439043	0	-0.437293	0	
49	N263B	-4.467228	0	-0.453566	0	
50	N264A	-0.	0	-3.29384	0	
51	N265A	-0.166687	0	-3.29384	0	
52	N266A	0.166647	0	-3.29384	0	
53	N269A	-2.852549	0	1.64692	0	
54	N270A	-2.769206	0	1.791275	0	
55	N271A	-2.935872	0	1.5026	0	
56	N274	2.852549	0	1.64692	0	
57	N275	2.935892	0	1.502565	0	
58	N276	2.769226	0	1.79124	0	



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
59	N273	-2.306562	0	-3.29384	0	
60	N275A	-2.306562	0.166667	-3.29384	0	
61	N277	2.306562	0	-3.29384	0	
62	N279	2.306562	0.166667	-3.29384	0	
63	N160	6.650656	0	3.328243	0	
64	N161A	0.442985	0	-7.423759	0	
65	N163	-0.442985	0	-7.423759	0	
66	N164	-6.650656	0	3.328243	0	
67	N160A	-6.014601	0	3.472531	0	
68	N161B	-1.143208	0	0.660031	0	
69	N163A	6.014601	0	3.472531	0	
70	N164A	1.143208	0	0.660031	0	
71	N149A	-0.	0	-2.153396	0	
72	N150A	.25	0	-2.153396	0	
73	N152A	.25	-1.5	-2.153396	0	
74	N153	0.227148	0	-6.861729	0	
75	N154	-0.227148	0	-6.861729	0	
76	N157	-0.227148	0.166667	-6.861729	0	
77	N158	0.227148	0.166667	-6.861729	0	
78	N153A	-0.	0	-6.861729	0	
79	N139A	-1.699268	0	3.644461	0	
80	N140A	-1.699268	0.166667	3.644461	0	
81	N141A	-4.00583	0	-0.350621	0	
82	N142A	-4.00583	0.166667	-0.350621	0	
83	N143A	-6.056006	0	3.234148	0	
84	N144A	-5.828858	0	3.627581	0	
85	N145A	-5.828858	0.166667	3.627581	0	
86	N146A	-6.056006	0.166667	3.234148	0	
87	N147A	-5.942432	0	3.430865	0	
88	N149B	4.00583	0	-0.350621	0	
89	N150B	4.00583	0.166667	-0.350621	0	
90	N151B	1.699268	0	3.644461	0	
91	N152B	1.699268	0.166667	3.644461	0	
92	N153B	5.828858	0	3.627581	0	
93	N154A	6.056006	0	3.234148	0	
94	N155	6.056006	0.166667	3.234148	0	
95	N156	5.828858	0.166667	3.627581	0	
96	N157A	5.942432	0	3.430865	0	
97	N97	2.374337	0	4.095516	0	
98	N98	2.374337	0	4.345516	0	
99	N99	-0.042329	0	4.095516	0	
100	N100	-0.042329	0	4.345516	0	
101	N101	-2.292329	0	4.095516	0	
102	N102	-2.292329	0	4.345516	0	
103	N103	-5.042329	0	4.095516	0	
104	N104	-5.042329	0	4.345516	0	
105	N105	5.207671	4.166667	4.345516	0	
106	N106	2.374337	4.166667	4.345516	0	
107	N107	-2.292329	4.166667	4.345516	0	
108	N108	-5.042329	4.166667	4.345516	0	
109	N109	5.207671	-1.833333	4.345516	0	
110	N110	2.374337	-1.833333	4.345516	0	
111	N111	-2.292329	-1.833333	4.345516	0	
112	N112A	-5.042329	-1.833333	4.345516	0	
113	N113	-0.042329	4.666667	4.345516	0	
114	N114	-0.042329	-2.333333	4.345516	0	
115	N116A	0.942985	0	-6.557733	0	
116	N117	1.159492	0	-6.682733	0	
117	N118	2.359652	0	-4.103994	0	



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X (ft)	Y (ft)	Z (ft)	Temp (F)	Detach From Dia...
118	N119	2.576158	0	-4.228994	0	
119	N120B	3.567985	0	-2.011099	0	
120	N121	3.784492	0	-2.136099	0	
121	N122	4.692985	0	-0.062542	0	
122	N123	4.909492	0	-0.187542	0	
123	N124A	6.067985	0	2.319028	0	
124	N125	6.284492	0	2.194028	0	
125	N126	1.159492	4.166667	-6.682733	0	
126	N127	2.576158	4.166667	-4.228994	0	
127	N128	4.909492	4.166667	-0.187542	0	
128	N129	6.284492	4.166667	2.194028	0	
129	N130	1.159492	-1.833333	-6.682733	0	
130	N131	2.576158	-1.833333	-4.228994	0	
131	N132	4.909492	-1.833333	-0.187542	0	
132	N133	6.284492	-1.833333	2.194028	0	
133	N134	3.784492	4.666667	-2.136099	0	
134	N135	3.784492	-2.333333	-2.136099	0	
135	N137	-6.150656	0	2.462217	0	
136	N138	-6.367162	0	2.337217	0	
137	N139	-4.733989	0	0.008478	0	
138	N140	-4.950496	0	-0.116522	0	
139	N141	-2.900656	0	-3.166948	0	
140	N142	-3.117162	0	-3.291948	0	
141	N143	-2.025656	0	-4.682492	0	
142	N144	-2.242162	0	-4.807492	0	
143	N145	-1.025656	0	-6.414543	0	
144	N146	-1.242162	0	-6.539543	0	
145	N147	-6.367162	4.166667	2.337217	0	
146	N148	-4.950496	4.166667	-0.116522	0	
147	N149	-2.242162	4.166667	-4.807492	0	
148	N150	-1.242162	4.166667	-6.539543	0	
149	N151	-6.367162	-1.833333	2.337217	0	
150	N152	-4.950496	-1.833333	-0.116522	0	
151	N153C	-2.242162	-1.833333	-4.807492	0	
152	N154B	-1.242162	-1.833333	-6.539543	0	
153	N155A	-3.117162	4.666667	-3.291948	0	
154	N156A	-3.117162	-2.333333	-3.291948	0	
155	N155B	.25	1.5	-2.153396	0	
156	N156B	-6.207671	2.666667	4.095516	0	
157	N157B	6.207671	2.666667	4.095516	0	
158	N158A	5.207671	2.666667	4.095516	0	
159	N159	5.207671	2.666667	4.345516	0	
160	N160B	6.650656	2.666667	3.328243	0	
161	N161	0.442985	2.666667	-7.423759	0	
162	N162	-0.442985	2.666667	-7.423759	0	
163	N163B	-6.650656	2.666667	3.328243	0	
164	N164B	2.374337	2.666667	4.095516	0	
165	N165	2.374337	2.666667	4.345516	0	
166	N166	-0.042329	2.666667	4.095516	0	
167	N167	-0.042329	2.666667	4.345516	0	
168	N168	-2.292329	2.666667	4.095516	0	
169	N169	-2.292329	2.666667	4.345516	0	
170	N170	-5.042329	2.666667	4.095516	0	
171	N171	-5.042329	2.666667	4.345516	0	
172	N172	0.942985	2.666667	-6.557733	0	
173	N173	1.159492	2.666667	-6.682733	0	
174	N174	2.359652	2.666667	-4.103994	0	
175	N175	2.576158	2.666667	-4.228994	0	
176	N176	3.567985	2.666667	-2.011099	0	

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
3	M65	N112	N116			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
4	M68	N116	N120			RIGID	None	None	RIGID	Typical
5	M71	N96 1	N120A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
6	M72	N120A	N124			RIGID	None	None	RIGID	Typical
7	M138A	N223B	N224B			RIGID	None	None	RIGID	Typical
8	M138C	N223D	N224D			Corner Plate	Beam	RECT	A36 Gr.36	Typical
9	M139C	N224D	N225D			RIGID	None	None	RIGID	Typical
10	M140C	N226D	N227C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
11	M141C	N227C	N228C			RIGID	None	None	RIGID	Typical
12	M142C	N229C	N230C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
13	M143C	N230C	N231C			RIGID	None	None	RIGID	Typical
14	M144C	N232C	N233C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
15	M145C	N233C	N234C			RIGID	None	None	RIGID	Typical
16	M146C	N235C	N236C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
17	M147C	N236C	N237C			RIGID	None	None	RIGID	Typical
18	M163A	N96 1	N235C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
19	M164A	N232C	N229C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
20	M165A	N226D	N223D			Corner Plate	Beam	RECT	A36 Gr.36	Typical
21	M169A	N258A	N259A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
22	M154A	N244C	N245C			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M155A	N245C	N246C			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
24	M156A	N246C	N247A			RIGID	None	None	RIGID	Typical
25	M157A	N248A	N249A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
26	M158A	N249A	N250A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
27	M159A	N250A	N251A			RIGID	None	None	RIGID	Typical
28	M160A	N252A	N253A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
29	M161A	N253A	N254A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
30	M162A	N254A	N255A			RIGID	None	None	RIGID	Typical
31	M163B	N256A	N257A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
32	M164B	N257A	N258B			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
33	M165B	N258B	N259B			RIGID	None	None	RIGID	Typical
34	M166A	N260B	N261B			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
35	M167A	N261B	N262B			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
36	M168A	N262B	N263B			RIGID	None	None	RIGID	Typical
37	M169B	N256A	N265A		90	Platform Cross...	Beam	RECT	A500 Gr.B...	Typical
38	M170B	N266A	N252A		90	Platform Cross...	Beam	RECT	A500 Gr.B...	Typical
39	M171B	N265A	N264A			RIGID	None	None	RIGID	Typical
40	M172A	N266A	N264A			RIGID	None	None	RIGID	Typical
41	M173A	N79A	N270A		90	Platform Cross...	Beam	RECT	A500 Gr.B...	Typical
42	M174A	N271A	N260B		90	Platform Cross...	Beam	RECT	A500 Gr.B...	Typical
43	M175A	N270A	N269A			RIGID	None	None	RIGID	Typical
44	M176A	N271A	N269A			RIGID	None	None	RIGID	Typical
45	M177A	N248A	N275		90	Platform Cross...	Beam	RECT	A500 Gr.B...	Typical
46	M178A	N276	N244C		90	Platform Cross...	Beam	RECT	A500 Gr.B...	Typical
47	M179A	N275	N274			RIGID	None	None	RIGID	Typical
48	M180A	N276	N274			RIGID	None	None	RIGID	Typical
49	M181A	N275A	N273			RIGID	None	None	RIGID	Typical
50	M183A	N275A	N157			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
51	M184A	N279	N277			RIGID	None	None	RIGID	Typical
52	M186A	N279	N158		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
53	M105	N160	N161A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
54	M106A	N163	N164			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
55	M105A	N160A	N161B			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
56	M106B	N163A	N164A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
57	M100	N149A	N150A			RIGID	None	None	RIGID	Typical
58	M102	N154	N153A			RIGID	None	None	RIGID	Typical
59	M101	N157	N154			RIGID	None	None	RIGID	Typical
60	M102A	N158	N153			RIGID	None	None	RIGID	Typical
61	M103	N153A	N153			RIGID	None	None	RIGID	Typical



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
62	M92	N140A	N139A			RIGID	None	None	RIGID	Typical
63	M93A	N140A	N145A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
64	M94	N142A	N141A			RIGID	None	None	RIGID	Typical
65	M95A	N142A	N146A		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
66	M96	N144A	N147A			RIGID	None	None	RIGID	Typical
67	M97A	N145A	N144A			RIGID	None	None	RIGID	Typical
68	M98	N146A	N143A			RIGID	None	None	RIGID	Typical
69	M99A	N147A	N143A			RIGID	None	None	RIGID	Typical
70	M100A	N150B	N149B			RIGID	None	None	RIGID	Typical
71	M101A	N150B	N155			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
72	M102B	N152B	N151B			RIGID	None	None	RIGID	Typical
73	M103A	N152B	N156		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
74	M104	N154A	N157A			RIGID	None	None	RIGID	Typical
75	M105B	N155	N154A			RIGID	None	None	RIGID	Typical
76	M106	N156	N153B			RIGID	None	None	RIGID	Typical
77	M107	N157A	N153B			RIGID	None	None	RIGID	Typical
78	M78	N97	N98			RIGID	None	None	RIGID	Typical
79	M79	N99	N100			RIGID	None	None	RIGID	Typical
80	M80	N101	N102			RIGID	None	None	RIGID	Typical
81	M81	N103	N104			RIGID	None	None	RIGID	Typical
82	MP5A	N108	N112A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
83	MP4A	N107	N111			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	MP2A	N106	N110			Mount Pipe P2...	Column	Pipe	A53 Gr.B	Typical
85	MP1A	N105	N109			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
86	MP3A	N113	N114			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
87	M87	N116A	N117			RIGID	None	None	RIGID	Typical
88	M88	N118	N119			RIGID	None	None	RIGID	Typical
89	M89	N120B	N121			RIGID	None	None	RIGID	Typical
90	M90	N122	N123			RIGID	None	None	RIGID	Typical
91	M91	N124A	N125			RIGID	None	None	RIGID	Typical
92	MP5C	N129	N133			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
93	MP4C	N128	N132			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	MP2C	N127	N131			Mount Pipe P2...	Column	Pipe	A53 Gr.B	Typical
95	MP1C	N126	N130			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	MP3C	N134	N135			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	M97	N137	N138			RIGID	None	None	RIGID	Typical
98	M98A	N139	N140			RIGID	None	None	RIGID	Typical
99	M99	N141	N142			RIGID	None	None	RIGID	Typical
100	M100B	N143	N144			RIGID	None	None	RIGID	Typical
101	M101B	N145	N146			RIGID	None	None	RIGID	Typical
102	MP5B	N150	N154B			Mount Pipe P2...	Column	Pipe	A53 Gr.B	Typical
103	MP4B	N149	N153C			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
104	MP2B	N148	N152			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
105	MP1B	N147	N151			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
106	MP3B	N155A	N156A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
107	O1	N155B	N152A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
108	M108	N156B	N157B			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
109	M109	N158A	N159			RIGID	None	None	RIGID	Typical
110	M110	N160B	N161			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
111	M111	N162	N163B			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
112	M112	N164B	N165			RIGID	None	None	RIGID	Typical
113	M113	N166	N167			RIGID	None	None	RIGID	Typical
114	M114	N168	N169			RIGID	None	None	RIGID	Typical
115	M115	N170	N171			RIGID	None	None	RIGID	Typical
116	M116	N172	N173			RIGID	None	None	RIGID	Typical
117	M117	N174	N175			RIGID	None	None	RIGID	Typical
118	M118	N176	N177			RIGID	None	None	RIGID	Typical
119	M119	N178	N179			RIGID	None	None	RIGID	Typical
120	M120	N180	N181			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
121	M121	N182	N183			RIGID	None	None	RIGID	Typical
122	M122	N184	N185			RIGID	None	None	RIGID	Typical
123	M123	N186	N187			RIGID	None	None	RIGID	Typical
124	M124	N188	N189			RIGID	None	None	RIGID	Typical
125	M125	N190	N191			RIGID	None	None	RIGID	Typical
126	M131	N191	N197		180	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
127	M132	N195	N201		180	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
128	M133	N199	N193		180	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
129	M129	N192	N193			RIGID	None	None	RIGID	Typical
130	M130	N194	N195			RIGID	None	None	RIGID	Typical
131	M131A	N196	N197			RIGID	None	None	RIGID	Typical
132	M132A	N198	N199			RIGID	None	None	RIGID	Typical
133	M133A	N200	N201			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	M20						Yes				None
2	M64						Yes	** NA **			None
3	M65						Yes	** NA **			None
4	M68		BenPIN				Yes	** NA **			None
5	M71						Yes				None
6	M72		BenPIN				Yes	** NA **			None
7	M138A						Yes	** NA **			None
8	M138C						Yes				None
9	M139C		BenPIN				Yes	** NA **			None
10	M140C						Yes				None
11	M141C		BenPIN				Yes	** NA **			None
12	M142C						Yes				None
13	M143C		BenPIN				Yes	** NA **			None
14	M144C						Yes				None
15	M145C		BenPIN				Yes	** NA **			None
16	M146C						Yes				None
17	M147C		BenPIN				Yes	** NA **			None
18	M163A						Yes				None
19	M164A						Yes				None
20	M165A						Yes				None
21	M169A						Yes				None
22	M154A						Yes	** NA **			None
23	M155A						Yes	** NA **			None
24	M156A		BenPIN				Yes	** NA **			None
25	M157A						Yes	** NA **			None
26	M158A						Yes	** NA **			None
27	M159A		BenPIN				Yes	** NA **			None
28	M160A						Yes	** NA **			None
29	M161A						Yes	** NA **			None
30	M162A		BenPIN				Yes	** NA **			None
31	M163B						Yes	** NA **			None
32	M164B						Yes	** NA **			None
33	M165B		BenPIN				Yes	** NA **			None
34	M166A						Yes	** NA **			None
35	M167A						Yes	** NA **			None
36	M168A		BenPIN				Yes	** NA **			None
37	M169B						Yes				None
38	M170B						Yes				None
39	M171B						Yes	** NA **			None
40	M172A						Yes	** NA **			None
41	M173A						Yes				None



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
42	M174A						Yes				None
43	M175A						Yes	** NA **			None
44	M176A						Yes	** NA **			None
45	M177A						Yes				None
46	M178A						Yes				None
47	M179A						Yes	** NA **			None
48	M180A						Yes	** NA **			None
49	M181A						Yes	** NA **			None
50	M183A	OOOOOX	OOOOOX				Yes				None
51	M184A						Yes	** NA **			None
52	M186A	OOOOXO	OOOOXO				Yes				None
53	M105						Yes				None
54	M106A						Yes				None
55	M105A						Yes				None
56	M106B						Yes				None
57	M100						Yes	** NA **			None
58	M102						Yes	** NA **			None
59	M101						Yes	** NA **			None
60	M102A						Yes	** NA **			None
61	M103						Yes	** NA **			None
62	M92						Yes	** NA **			None
63	M93A	OOOOOX	OOOOOX				Yes				None
64	M94						Yes	** NA **			None
65	M95A	OOOOXO	OOOOXO				Yes				None
66	M96						Yes	** NA **			None
67	M97A						Yes	** NA **			None
68	M98						Yes	** NA **			None
69	M99A						Yes	** NA **			None
70	M100A						Yes	** NA **			None
71	M101A	OOOOOX	OOOOOX				Yes				None
72	M102B						Yes	** NA **			None
73	M103A	OOOOXO	OOOOXO				Yes				None
74	M104						Yes	** NA **			None
75	M105B						Yes	** NA **			None
76	M106						Yes	** NA **			None
77	M107						Yes	** NA **			None
78	M78						Yes	** NA **			None
79	M79						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	MP5A						Yes	** NA **			None
83	MP4A						Yes	** NA **			None
84	MP2A						Yes	** NA **			None
85	MP1A						Yes	** NA **			None
86	MP3A						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91						Yes	** NA **			None
92	MP5C						Yes	** NA **			None
93	MP4C						Yes	** NA **			None
94	MP2C						Yes	** NA **			None
95	MP1C						Yes	** NA **			None
96	MP3C						Yes	** NA **			None
97	M97						Yes	** NA **			None
98	M98A						Yes	** NA **			None
99	M99						Yes	** NA **			None
100	M100B						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat.	Analysis ...	Inactive	Seismic...
101	M101B						Yes	** NA **			None
102	MP5B						Yes	** NA **			None
103	MP4B						Yes	** NA **			None
104	MP2B						Yes	** NA **			None
105	MP1B						Yes	** NA **			None
106	MP3B						Yes	** NA **			None
107	O1						Yes	** NA **			None
108	M108						Yes				None
109	M109						Yes	** NA **			None
110	M110						Yes				None
111	M111						Yes				None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes	** NA **			None
115	M115						Yes	** NA **			None
116	M116						Yes	** NA **			None
117	M117						Yes	** NA **			None
118	M118						Yes	** NA **			None
119	M119						Yes	** NA **			None
120	M120						Yes	** NA **			None
121	M121						Yes	** NA **			None
122	M122						Yes	** NA **			None
123	M123						Yes	** NA **			None
124	M124						Yes	** NA **			None
125	M125	OOOOOX					Yes	** NA **			None
126	M131						Yes				None
127	M132						Yes				None
128	M133						Yes				None
129	M129	OOOOOX					Yes	** NA **			None
130	M130	OOOOOX					Yes	** NA **			None
131	M131A	OOOOOX					Yes	** NA **			None
132	M132A	OOOOOX					Yes	** NA **			None
133	M133A	OOOOOX					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-45.75	.5
2	MP2A	My	-.023	.5
3	MP2A	Mz	.036	.5
4	MP2A	Y	-45.75	3
5	MP2A	My	-.023	3
6	MP2A	Mz	.036	3
7	MP2A	Y	-45.75	.5
8	MP2A	My	-.023	.5
9	MP2A	Mz	-.036	.5
10	MP2A	Y	-45.75	3
11	MP2A	My	-.023	3
12	MP2A	Mz	-.036	3
13	MP2C	Y	-31.65	.5
14	MP2C	My	-.016	.5
15	MP2C	Mz	.019	.5
16	MP2C	Y	-31.65	3
17	MP2C	My	-.016	3
18	MP2C	Mz	.019	3
19	MP2C	Y	-31.65	.5
20	MP2C	My	-.016	.5
21	MP2C	Mz	-.019	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
22	MP2C	Y	-31.65	3
23	MP2C	My	-.016	3
24	MP2C	Mz	-.019	3
25	MP5B	Y	-31.65	.5
26	MP5B	My	.012	.5
27	MP5B	Mz	-.022	.5
28	MP5B	Y	-31.65	3
29	MP5B	My	.012	3
30	MP5B	Mz	-.022	3
31	MP5B	Y	-31.65	.5
32	MP5B	My	.019	.5
33	MP5B	Mz	.016	.5
34	MP5B	Y	-31.65	3
35	MP5B	My	.019	3
36	MP5B	Mz	.016	3
37	MP3B	Y	-43.55	1
38	MP3B	My	.021	1
39	MP3B	Mz	-.004	1
40	MP3B	Y	-43.55	2.5
41	MP3B	My	.021	2.5
42	MP3B	Mz	-.004	2.5
43	MP4A	Y	-43.55	1
44	MP4A	My	-.022	1
45	MP4A	Mz	0	1
46	MP4A	Y	-43.55	2.5
47	MP4A	My	-.022	2.5
48	MP4A	Mz	0	2.5
49	MP4C	Y	-43.55	1
50	MP4C	My	.004	1
51	MP4C	Mz	.021	1
52	MP4C	Y	-43.55	2.5
53	MP4C	My	.004	2.5
54	MP4C	Mz	.021	2.5
55	MP3A	Y	-10.4	.5
56	MP3A	My	0	.5
57	MP3A	Mz	0	.5
58	MP3C	Y	-10.4	.5
59	MP3C	My	0	.5
60	MP3C	Mz	0	.5
61	MP5B	Y	-10.4	.5
62	MP5B	My	0	.5
63	MP5B	Mz	0	.5
64	O1	Y	-32	1
65	O1	My	0	1
66	O1	Mz	0	1
67	MP3A	Y	-84.4	2.5
68	MP3A	My	-.066	2.5
69	MP3A	Mz	-.024	2.5
70	MP3B	Y	-84.4	2.5
71	MP3B	My	.054	2.5
72	MP3B	Mz	-.045	2.5
73	MP3C	Y	-84.4	2.5
74	MP3C	My	.012	2.5
75	MP3C	Mz	.069	2.5
76	MP4A	Y	-70.3	2.5
77	MP4A	My	-.055	2.5
78	MP4A	Mz	-.02	2.5
79	MP4B	Y	-70.3	2.5
80	MP4B	My	.045	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
81	MP4B	Mz	-.038	2.5
82	MP4C	Y	-70.3	2.5
83	MP4C	My	.01	2.5
84	MP4C	Mz	.058	2.5
85	MP1A	Y	-13.5	.5
86	MP1A	My	-.006	.5
87	MP1A	Mz	-.002	.5
88	MP1A	Y	-13.5	3
89	MP1A	My	-.006	3
90	MP1A	Mz	-.002	3
91	MP1B	Y	-13.5	.5
92	MP1B	My	.005	.5
93	MP1B	Mz	-.004	.5
94	MP1B	Y	-13.5	3
95	MP1B	My	.005	3
96	MP1B	Mz	-.004	3
97	MP1C	Y	-13.5	.5
98	MP1C	My	.001	.5
99	MP1C	Mz	.007	.5
100	MP1C	Y	-13.5	3
101	MP1C	My	.001	3
102	MP1C	Mz	.007	3
103	MP4B	Y	-13.5	.5
104	MP4B	My	.005	.5
105	MP4B	Mz	-.004	.5
106	MP4B	Y	-13.5	3
107	MP4B	My	.005	3
108	MP4B	Mz	-.004	3
109	MP5A	Y	-13.5	.5
110	MP5A	My	-.006	.5
111	MP5A	Mz	-.002	.5
112	MP5A	Y	-13.5	3
113	MP5A	My	-.006	3
114	MP5A	Mz	-.002	3
115	MP5C	Y	-13.5	.5
116	MP5C	My	.001	.5
117	MP5C	Mz	.007	.5
118	MP5C	Y	-13.5	3
119	MP5C	My	.001	3
120	MP5C	Mz	.007	3
121	MP2C	Y	-17.6	2.5
122	MP2C	My	-.002	2.5
123	MP2C	Mz	-.009	2.5
124	MP2C	Y	-17.6	2.5
125	MP2C	My	-.002	2.5
126	MP2C	Mz	-.009	2.5
127	MP5B	Y	-17.6	2.5
128	MP5B	My	-.009	2.5
129	MP5B	Mz	.002	2.5
130	MP5B	Y	-17.6	2.5
131	MP5B	My	-.009	2.5
132	MP5B	Mz	.002	2.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-78.187	.5
2	MP2A	My	-.039	.5
3	MP2A	Mz	.062	.5



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP2A	Y	-78.187	3
5	MP2A	My	-.039	3
6	MP2A	Mz	.062	3
7	MP2A	Y	-78.187	.5
8	MP2A	My	-.039	.5
9	MP2A	Mz	-.062	.5
10	MP2A	Y	-78.187	3
11	MP2A	My	-.039	3
12	MP2A	Mz	-.062	3
13	MP2C	Y	-69.48	.5
14	MP2C	My	-.035	.5
15	MP2C	Mz	.042	.5
16	MP2C	Y	-69.48	3
17	MP2C	My	-.035	3
18	MP2C	Mz	.042	3
19	MP2C	Y	-69.48	.5
20	MP2C	My	-.035	.5
21	MP2C	Mz	-.042	.5
22	MP2C	Y	-69.48	3
23	MP2C	My	-.035	3
24	MP2C	Mz	-.042	3
25	MP5B	Y	-69.48	.5
26	MP5B	My	.027	.5
27	MP5B	Mz	-.047	.5
28	MP5B	Y	-69.48	3
29	MP5B	My	.027	3
30	MP5B	Mz	-.047	3
31	MP5B	Y	-69.48	.5
32	MP5B	My	.042	.5
33	MP5B	Mz	.035	.5
34	MP5B	Y	-69.48	3
35	MP5B	My	.042	3
36	MP5B	Mz	.035	3
37	MP3B	Y	-35.371	1
38	MP3B	My	.017	1
39	MP3B	Mz	-.003	1
40	MP3B	Y	-35.371	2.5
41	MP3B	My	.017	2.5
42	MP3B	Mz	-.003	2.5
43	MP4A	Y	-35.371	1
44	MP4A	My	-.018	1
45	MP4A	Mz	0	1
46	MP4A	Y	-35.371	2.5
47	MP4A	My	-.018	2.5
48	MP4A	Mz	0	2.5
49	MP4C	Y	-35.371	1
50	MP4C	My	.003	1
51	MP4C	Mz	.017	1
52	MP4C	Y	-35.371	2.5
53	MP4C	My	.003	2.5
54	MP4C	Mz	.017	2.5
55	MP3A	Y	-10.658	.5
56	MP3A	My	0	.5
57	MP3A	Mz	0	.5
58	MP3C	Y	-10.658	.5
59	MP3C	My	0	.5
60	MP3C	Mz	0	.5
61	MP5B	Y	-10.658	.5
62	MP5B	My	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP5B	Mz	0	.5
64	O1	Y	-87.325	1
65	O1	My	0	1
66	O1	Mz	0	1
67	MP3A	Y	-44.59	2.5
68	MP3A	My	-.035	2.5
69	MP3A	Mz	-.013	2.5
70	MP3B	Y	-44.59	2.5
71	MP3B	My	.028	2.5
72	MP3B	Mz	-.024	2.5
73	MP3C	Y	-44.59	2.5
74	MP3C	My	.006	2.5
75	MP3C	Mz	.037	2.5
76	MP4A	Y	-40.098	2.5
77	MP4A	My	-.031	2.5
78	MP4A	Mz	-.011	2.5
79	MP4B	Y	-40.098	2.5
80	MP4B	My	.026	2.5
81	MP4B	Mz	-.021	2.5
82	MP4C	Y	-40.098	2.5
83	MP4C	My	.006	2.5
84	MP4C	Mz	.033	2.5
85	MP1A	Y	-88.95	.5
86	MP1A	My	-.042	.5
87	MP1A	Mz	-.015	.5
88	MP1A	Y	-88.95	3
89	MP1A	My	-.042	3
90	MP1A	Mz	-.015	3
91	MP1B	Y	-88.95	.5
92	MP1B	My	.034	.5
93	MP1B	Mz	-.029	.5
94	MP1B	Y	-88.95	3
95	MP1B	My	.034	3
96	MP1B	Mz	-.029	3
97	MP1C	Y	-88.95	.5
98	MP1C	My	.008	.5
99	MP1C	Mz	.044	.5
100	MP1C	Y	-88.95	3
101	MP1C	My	.008	3
102	MP1C	Mz	.044	3
103	MP4B	Y	-88.95	.5
104	MP4B	My	.034	.5
105	MP4B	Mz	-.029	.5
106	MP4B	Y	-88.95	3
107	MP4B	My	.034	3
108	MP4B	Mz	-.029	3
109	MP5A	Y	-88.95	.5
110	MP5A	My	-.042	.5
111	MP5A	Mz	-.015	.5
112	MP5A	Y	-88.95	3
113	MP5A	My	-.042	3
114	MP5A	Mz	-.015	3
115	MP5C	Y	-88.95	.5
116	MP5C	My	.008	.5
117	MP5C	Mz	.044	.5
118	MP5C	Y	-88.95	3
119	MP5C	My	.008	3
120	MP5C	Mz	.044	3
121	MP2C	Y	-17.217	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
122	MP2C	My	-.001	2.5
123	MP2C	Mz	-.008	2.5
124	MP2C	Y	-17.217	2.5
125	MP2C	My	-.001	2.5
126	MP2C	Mz	-.008	2.5
127	MP5B	Y	-17.217	2.5
128	MP5B	My	-.008	2.5
129	MP5B	Mz	.001	2.5
130	MP5B	Y	-17.217	2.5
131	MP5B	My	-.008	2.5
132	MP5B	Mz	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.5
2	MP2A	Z	-187.335	.5
3	MP2A	Mx	-.148	.5
4	MP2A	X	0	3
5	MP2A	Z	-187.335	3
6	MP2A	Mx	-.148	3
7	MP2A	X	0	.5
8	MP2A	Z	-187.335	.5
9	MP2A	Mx	.148	.5
10	MP2A	X	0	3
11	MP2A	Z	-187.335	3
12	MP2A	Mx	.148	3
13	MP2C	X	0	.5
14	MP2C	Z	-149.704	.5
15	MP2C	Mx	-.09	.5
16	MP2C	X	0	3
17	MP2C	Z	-149.704	3
18	MP2C	Mx	-.09	3
19	MP2C	X	0	.5
20	MP2C	Z	-149.704	.5
21	MP2C	Mx	.09	.5
22	MP2C	X	0	3
23	MP2C	Z	-149.704	3
24	MP2C	Mx	.09	3
25	MP5B	X	0	.5
26	MP5B	Z	-148.155	.5
27	MP5B	Mx	.101	.5
28	MP5B	X	0	3
29	MP5B	Z	-148.155	3
30	MP5B	Mx	.101	3
31	MP5B	X	0	.5
32	MP5B	Z	-148.155	.5
33	MP5B	Mx	-.075	.5
34	MP5B	X	0	3
35	MP5B	Z	-148.155	3
36	MP5B	Mx	-.075	3
37	MP3B	X	0	1
38	MP3B	Z	-63.144	1
39	MP3B	Mx	.005	1
40	MP3B	X	0	2.5
41	MP3B	Z	-63.144	2.5
42	MP3B	Mx	.005	2.5
43	MP4A	X	0	1
44	MP4A	Z	-64.417	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP4A	Mx	0	1
46	MP4A	X	0	2.5
47	MP4A	Z	-64.417	2.5
48	MP4A	Mx	0	2.5
49	MP4C	X	0	1
50	MP4C	Z	-23.458	1
51	MP4C	Mx	-.012	1
52	MP4C	X	0	2.5
53	MP4C	Z	-23.458	2.5
54	MP4C	Mx	-.012	2.5
55	MP3A	X	0	.5
56	MP3A	Z	-11.722	.5
57	MP3A	Mx	0	.5
58	MP3C	X	0	.5
59	MP3C	Z	-8.527	.5
60	MP3C	Mx	0	.5
61	MP5B	X	0	.5
62	MP5B	Z	-10.612	.5
63	MP5B	Mx	0	.5
64	O1	X	0	1
65	O1	Z	-129.735	1
66	O1	Mx	0	1
67	MP3A	X	0	2.5
68	MP3A	Z	-48.981	2.5
69	MP3A	Mx	.014	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-44.017	2.5
72	MP3B	Mx	.024	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-34.686	2.5
75	MP3C	Mx	-.028	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	-48.251	2.5
78	MP4A	Mx	.014	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	-41.437	2.5
81	MP4B	Mx	.022	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	-28.63	2.5
84	MP4C	Mx	-.023	2.5
85	MP1A	X	0	.5
86	MP1A	Z	-158.162	.5
87	MP1A	Mx	.027	.5
88	MP1A	X	0	3
89	MP1A	Z	-158.162	3
90	MP1A	Mx	.027	3
91	MP1B	X	0	.5
92	MP1B	Z	-152.532	.5
93	MP1B	Mx	.049	.5
94	MP1B	X	0	3
95	MP1B	Z	-152.532	3
96	MP1B	Mx	.049	3
97	MP1C	X	0	.5
98	MP1C	Z	-141.951	.5
99	MP1C	Mx	-.07	.5
100	MP1C	X	0	3
101	MP1C	Z	-141.951	3
102	MP1C	Mx	-.07	3
103	MP4B	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
104	MP4B	Z	-152.532	.5
105	MP4B	Mx	.049	.5
106	MP4B	X	0	3
107	MP4B	Z	-152.532	3
108	MP4B	Mx	.049	3
109	MP5A	X	0	.5
110	MP5A	Z	-158.162	.5
111	MP5A	Mx	.027	.5
112	MP5A	X	0	3
113	MP5A	Z	-158.162	3
114	MP5A	Mx	.027	3
115	MP5C	X	0	.5
116	MP5C	Z	-141.951	.5
117	MP5C	Mx	-.07	.5
118	MP5C	X	0	3
119	MP5C	Z	-141.951	3
120	MP5C	Mx	-.07	3
121	MP2C	X	0	2.5
122	MP2C	Z	-10.232	2.5
123	MP2C	Mx	.005	2.5
124	MP2C	X	0	2.5
125	MP2C	Z	-10.232	2.5
126	MP2C	Mx	.005	2.5
127	MP5B	X	0	2.5
128	MP5B	Z	-30.888	2.5
129	MP5B	Mx	-.003	2.5
130	MP5B	X	0	2.5
131	MP5B	Z	-30.888	2.5
132	MP5B	Mx	-.003	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	81.103	.5
2	MP2A	Z	-140.475	.5
3	MP2A	Mx	-.152	.5
4	MP2A	X	81.103	3
5	MP2A	Z	-140.475	3
6	MP2A	Mx	-.152	3
7	MP2A	X	81.103	.5
8	MP2A	Z	-140.475	.5
9	MP2A	Mx	.071	.5
10	MP2A	X	81.103	3
11	MP2A	Z	-140.475	3
12	MP2A	Mx	.071	3
13	MP2C	X	68.429	.5
14	MP2C	Z	-118.523	.5
15	MP2C	Mx	-.106	.5
16	MP2C	X	68.429	3
17	MP2C	Z	-118.523	3
18	MP2C	Mx	-.106	3
19	MP2C	X	68.429	.5
20	MP2C	Z	-118.523	.5
21	MP2C	Mx	.037	.5
22	MP2C	X	68.429	3
23	MP2C	Z	-118.523	3
24	MP2C	Mx	.037	3
25	MP5B	X	64.237	.5
26	MP5B	Z	-111.263	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
27	MP5B	Mx	.101	.5
28	MP5B	X	64.237	3
29	MP5B	Z	-111.263	3
30	MP5B	Mx	.101	3
31	MP5B	X	64.237	.5
32	MP5B	Z	-111.263	.5
33	MP5B	Mx	-.018	.5
34	MP5B	X	64.237	3
35	MP5B	Z	-111.263	3
36	MP5B	Mx	-.018	3
37	MP3B	X	23.484	1
38	MP3B	Z	-40.675	1
39	MP3B	Mx	.015	1
40	MP3B	X	23.484	2.5
41	MP3B	Z	-40.675	2.5
42	MP3B	Mx	.015	2.5
43	MP4A	X	26.929	1
44	MP4A	Z	-46.643	1
45	MP4A	Mx	-.013	1
46	MP4A	X	26.929	2.5
47	MP4A	Z	-46.643	2.5
48	MP4A	Mx	-.013	2.5
49	MP4C	X	19.817	1
50	MP4C	Z	-34.324	1
51	MP4C	Mx	-.015	1
52	MP4C	X	19.817	2.5
53	MP4C	Z	-34.324	2.5
54	MP4C	Mx	-.015	2.5
55	MP3A	X	6.024	.5
56	MP3A	Z	-10.433	.5
57	MP3A	Mx	0	.5
58	MP3C	X	4.981	.5
59	MP3C	Z	-8.627	.5
60	MP3C	Mx	0	.5
61	MP5B	X	4.426	.5
62	MP5B	Z	-7.666	.5
63	MP5B	Mx	0	.5
64	O1	X	66.241	1
65	O1	Z	-114.732	1
66	O1	Mx	0	1
67	MP3A	X	25.218	2.5
68	MP3A	Z	-43.679	2.5
69	MP3A	Mx	-.007	2.5
70	MP3B	X	18.071	2.5
71	MP3B	Z	-31.299	2.5
72	MP3B	Mx	.028	2.5
73	MP3C	X	20.553	2.5
74	MP3C	Z	-35.599	2.5
75	MP3C	Mx	-.026	2.5
76	MP4A	X	25.124	2.5
77	MP4A	Z	-43.516	2.5
78	MP4A	Mx	-.007	2.5
79	MP4B	X	15.314	2.5
80	MP4B	Z	-26.524	2.5
81	MP4B	Mx	.024	2.5
82	MP4C	X	18.721	2.5
83	MP4C	Z	-32.425	2.5
84	MP4C	Mx	-.024	2.5
85	MP1A	X	79.906	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP1A	Z	-138.401	.5
87	MP1A	Mx	-.014	.5
88	MP1A	X	79.906	3
89	MP1A	Z	-138.401	3
90	MP1A	Mx	-.014	3
91	MP1B	X	71.801	.5
92	MP1B	Z	-124.362	.5
93	MP1B	Mx	.067	.5
94	MP1B	X	71.801	3
95	MP1B	Z	-124.362	3
96	MP1B	Mx	.067	3
97	MP1C	X	74.616	.5
98	MP1C	Z	-129.238	.5
99	MP1C	Mx	-.057	.5
100	MP1C	X	74.616	3
101	MP1C	Z	-129.238	3
102	MP1C	Mx	-.057	3
103	MP4B	X	71.801	.5
104	MP4B	Z	-124.362	.5
105	MP4B	Mx	.067	.5
106	MP4B	X	71.801	3
107	MP4B	Z	-124.362	3
108	MP4B	Mx	.067	3
109	MP5A	X	79.906	.5
110	MP5A	Z	-138.401	.5
111	MP5A	Mx	-.014	.5
112	MP5A	X	79.906	3
113	MP5A	Z	-138.401	3
114	MP5A	Mx	-.014	3
115	MP5C	X	74.616	.5
116	MP5C	Z	-129.238	.5
117	MP5C	Mx	-.057	.5
118	MP5C	X	74.616	3
119	MP5C	Z	-129.238	3
120	MP5C	Mx	-.057	3
121	MP2C	X	9.326	2.5
122	MP2C	Z	-16.153	2.5
123	MP2C	Mx	.007	2.5
124	MP2C	X	9.326	2.5
125	MP2C	Z	-16.153	2.5
126	MP2C	Mx	.007	2.5
127	MP5B	X	11.234	2.5
128	MP5B	Z	-19.459	2.5
129	MP5B	Mx	-.007	2.5
130	MP5B	X	11.234	2.5
131	MP5B	Z	-19.459	2.5
132	MP5B	Mx	-.007	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	96.951	.5
2	MP2A	Z	-55.975	.5
3	MP2A	Mx	-.093	.5
4	MP2A	X	96.951	3
5	MP2A	Z	-55.975	3
6	MP2A	Mx	-.093	3
7	MP2A	X	96.951	.5
8	MP2A	Z	-55.975	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2A	Mx	-.004	.5
10	MP2A	X	96.951	3
11	MP2A	Z	-55.975	3
12	MP2A	Mx	-.004	3
13	MP2C	X	96.275	.5
14	MP2C	Z	-55.584	.5
15	MP2C	Mx	-.082	.5
16	MP2C	X	96.275	3
17	MP2C	Z	-55.584	3
18	MP2C	Mx	-.082	3
19	MP2C	X	96.275	.5
20	MP2C	Z	-55.584	.5
21	MP2C	Mx	-.015	.5
22	MP2C	X	96.275	3
23	MP2C	Z	-55.584	3
24	MP2C	Mx	-.015	3
25	MP5B	X	90.356	.5
26	MP5B	Z	-52.167	.5
27	MP5B	Mx	.071	.5
28	MP5B	X	90.356	3
29	MP5B	Z	-52.167	3
30	MP5B	Mx	.071	3
31	MP5B	X	90.356	.5
32	MP5B	Z	-52.167	.5
33	MP5B	Mx	.027	.5
34	MP5B	X	90.356	3
35	MP5B	Z	-52.167	3
36	MP5B	Mx	.027	3
37	MP3B	X	23.491	1
38	MP3B	Z	-13.562	1
39	MP3B	Mx	.013	1
40	MP3B	X	23.491	2.5
41	MP3B	Z	-13.562	2.5
42	MP3B	Mx	.013	2.5
43	MP4A	X	28.356	1
44	MP4A	Z	-16.371	1
45	MP4A	Mx	-.014	1
46	MP4A	X	28.356	2.5
47	MP4A	Z	-16.371	2.5
48	MP4A	Mx	-.014	2.5
49	MP4C	X	51.508	1
50	MP4C	Z	-29.738	1
51	MP4C	Mx	-.01	1
52	MP4C	X	51.508	2.5
53	MP4C	Z	-29.738	2.5
54	MP4C	Mx	-.01	2.5
55	MP3A	X	9.191	.5
56	MP3A	Z	-5.306	.5
57	MP3A	Mx	0	.5
58	MP3C	X	10.152	.5
59	MP3C	Z	-5.861	.5
60	MP3C	Mx	0	.5
61	MP5B	X	7.384	.5
62	MP5B	Z	-4.263	.5
63	MP5B	Mx	0	.5
64	O1	X	104.239	1
65	O1	Z	-60.183	1
66	O1	Mx	0	1
67	MP3A	X	38.119	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
68	MP3A	Z	-22.008	2.5
69	MP3A	Mx	-.024	2.5
70	MP3B	X	30.039	2.5
71	MP3B	Z	-17.343	2.5
72	MP3B	Mx	.028	2.5
73	MP3C	X	42.419	2.5
74	MP3C	Z	-24.491	2.5
75	MP3C	Mx	-.014	2.5
76	MP4A	X	35.885	2.5
77	MP4A	Z	-20.718	2.5
78	MP4A	Mx	-.022	2.5
79	MP4B	X	24.794	2.5
80	MP4B	Z	-14.315	2.5
81	MP4B	Mx	.023	2.5
82	MP4C	X	41.786	2.5
83	MP4C	Z	-24.125	2.5
84	MP4C	Mx	-.014	2.5
85	MP1A	X	132.097	.5
86	MP1A	Z	-76.266	.5
87	MP1A	Mx	-.049	.5
88	MP1A	X	132.097	3
89	MP1A	Z	-76.266	3
90	MP1A	Mx	-.049	3
91	MP1B	X	122.933	.5
92	MP1B	Z	-70.975	.5
93	MP1B	Mx	.07	.5
94	MP1B	X	122.933	3
95	MP1B	Z	-70.975	3
96	MP1B	Mx	.07	3
97	MP1C	X	136.972	.5
98	MP1C	Z	-79.081	.5
99	MP1C	Mx	-.027	.5
100	MP1C	X	136.972	3
101	MP1C	Z	-79.081	3
102	MP1C	Mx	-.027	3
103	MP4B	X	122.933	.5
104	MP4B	Z	-70.975	.5
105	MP4B	Mx	.07	.5
106	MP4B	X	122.933	3
107	MP4B	Z	-70.975	3
108	MP4B	Mx	.07	3
109	MP5A	X	132.097	.5
110	MP5A	Z	-76.266	.5
111	MP5A	Mx	-.049	.5
112	MP5A	X	132.097	3
113	MP5A	Z	-76.266	3
114	MP5A	Mx	-.049	3
115	MP5C	X	136.972	.5
116	MP5C	Z	-79.081	.5
117	MP5C	Mx	-.027	.5
118	MP5C	X	136.972	3
119	MP5C	Z	-79.081	3
120	MP5C	Mx	-.027	3
121	MP2C	X	25.097	2.5
122	MP2C	Z	-14.49	2.5
123	MP2C	Mx	.005	2.5
124	MP2C	X	25.097	2.5
125	MP2C	Z	-14.49	2.5
126	MP2C	Mx	.005	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
127	MP5B	X	10.514	2.5
128	MP5B	Z	-6.071	2.5
129	MP5B	Mx	-.006	2.5
130	MP5B	X	10.514	2.5
131	MP5B	Z	-6.071	2.5
132	MP5B	Mx	-.006	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	86.821	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.043	.5
4	MP2A	X	86.821	3
5	MP2A	Z	0	3
6	MP2A	Mx	-.043	3
7	MP2A	X	86.821	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.043	.5
10	MP2A	X	86.821	3
11	MP2A	Z	0	3
12	MP2A	Mx	-.043	3
13	MP2C	X	98.324	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.049	.5
16	MP2C	X	98.324	3
17	MP2C	Z	0	3
18	MP2C	Mx	-.049	3
19	MP2C	X	98.324	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	-.049	.5
22	MP2C	X	98.324	3
23	MP2C	Z	0	3
24	MP2C	Mx	-.049	3
25	MP5B	X	99.873	.5
26	MP5B	Z	0	.5
27	MP5B	Mx	.039	.5
28	MP5B	X	99.873	3
29	MP5B	Z	0	3
30	MP5B	Mx	.039	3
31	MP5B	X	99.873	.5
32	MP5B	Z	0	.5
33	MP5B	Mx	.06	.5
34	MP5B	X	99.873	3
35	MP5B	Z	0	3
36	MP5B	Mx	.06	3
37	MP3B	X	23.458	1
38	MP3B	Z	0	1
39	MP3B	Mx	.012	1
40	MP3B	X	23.458	2.5
41	MP3B	Z	0	2.5
42	MP3B	Mx	.012	2.5
43	MP4A	X	22.184	1
44	MP4A	Z	0	1
45	MP4A	Mx	-.011	1
46	MP4A	X	22.184	2.5
47	MP4A	Z	0	2.5
48	MP4A	Mx	-.011	2.5
49	MP4C	X	63.144	1



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude [lb.k-ft]	Location [ft.%]
50	MP4C	Z	0	1
51	MP4C	Mx	.005	1
52	MP4C	X	63.144	2.5
53	MP4C	Z	0	2.5
54	MP4C	Mx	.005	2.5
55	MP3A	X	8.852	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	0	.5
58	MP3C	X	12.047	.5
59	MP3C	Z	0	.5
60	MP3C	Mx	0	.5
61	MP5B	X	9.962	.5
62	MP5B	Z	0	.5
63	MP5B	Mx	0	.5
64	O1	X	105.502	1
65	O1	Z	0	1
66	O1	Mx	0	1
67	MP3A	X	36.141	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.028	2.5
70	MP3B	X	41.106	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.026	2.5
73	MP3C	X	50.437	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	.007	2.5
76	MP4A	X	30.627	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	-.024	2.5
79	MP4B	X	37.442	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	.024	2.5
82	MP4C	X	50.248	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	.007	2.5
85	MP1A	X	143.601	.5
86	MP1A	Z	0	.5
87	MP1A	Mx	-.067	.5
88	MP1A	X	143.601	3
89	MP1A	Z	0	3
90	MP1A	Mx	-.067	3
91	MP1B	X	149.231	.5
92	MP1B	Z	0	.5
93	MP1B	Mx	.057	.5
94	MP1B	X	149.231	3
95	MP1B	Z	0	3
96	MP1B	Mx	.057	3
97	MP1C	X	159.812	.5
98	MP1C	Z	0	.5
99	MP1C	Mx	.014	.5
100	MP1C	X	159.812	3
101	MP1C	Z	0	3
102	MP1C	Mx	.014	3
103	MP4B	X	149.231	.5
104	MP4B	Z	0	.5
105	MP4B	Mx	.057	.5
106	MP4B	X	149.231	3
107	MP4B	Z	0	3
108	MP4B	Mx	.057	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
109	MP5A	X	143.601	.5
110	MP5A	Z	0	.5
111	MP5A	Mx	-.067	.5
112	MP5A	X	143.601	3
113	MP5A	Z	0	3
114	MP5A	Mx	-.067	3
115	MP5C	X	159.812	.5
116	MP5C	Z	0	.5
117	MP5C	Mx	.014	.5
118	MP5C	X	159.812	3
119	MP5C	Z	0	3
120	MP5C	Mx	.014	3
121	MP2C	X	30.888	2.5
122	MP2C	Z	0	2.5
123	MP2C	Mx	-.003	2.5
124	MP2C	X	30.888	2.5
125	MP2C	Z	0	2.5
126	MP2C	Mx	-.003	2.5
127	MP5B	X	10.232	2.5
128	MP5B	Z	0	2.5
129	MP5B	Mx	-.005	2.5
130	MP5B	X	10.232	2.5
131	MP5B	Z	0	2.5
132	MP5B	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	96.951	.5
2	MP2A	Z	55.975	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	96.951	3
5	MP2A	Z	55.975	3
6	MP2A	Mx	-.004	3
7	MP2A	X	96.951	.5
8	MP2A	Z	55.975	.5
9	MP2A	Mx	-.093	.5
10	MP2A	X	96.951	3
11	MP2A	Z	55.975	3
12	MP2A	Mx	-.093	3
13	MP2C	X	96.275	.5
14	MP2C	Z	55.584	.5
15	MP2C	Mx	-.015	.5
16	MP2C	X	96.275	3
17	MP2C	Z	55.584	3
18	MP2C	Mx	-.015	3
19	MP2C	X	96.275	.5
20	MP2C	Z	55.584	.5
21	MP2C	Mx	-.082	.5
22	MP2C	X	96.275	3
23	MP2C	Z	55.584	3
24	MP2C	Mx	-.082	3
25	MP5B	X	103.536	.5
26	MP5B	Z	59.776	.5
27	MP5B	Mx	-.000637	.5
28	MP5B	X	103.536	3
29	MP5B	Z	59.776	3
30	MP5B	Mx	-.000637	3
31	MP5B	X	103.536	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP5B	Z	59.776	.5
33	MP5B	Mx	.092	.5
34	MP5B	X	103.536	3
35	MP5B	Z	59.776	3
36	MP5B	Mx	.092	3
37	MP3B	X	34.324	1
38	MP3B	Z	19.817	1
39	MP3B	Mx	.015	1
40	MP3B	X	34.324	2.5
41	MP3B	Z	19.817	2.5
42	MP3B	Mx	.015	2.5
43	MP4A	X	28.356	1
44	MP4A	Z	16.371	1
45	MP4A	Mx	-.014	1
46	MP4A	X	28.356	2.5
47	MP4A	Z	16.371	2.5
48	MP4A	Mx	-.014	2.5
49	MP4C	X	40.675	1
50	MP4C	Z	23.484	1
51	MP4C	Mx	.015	1
52	MP4C	X	40.675	2.5
53	MP4C	Z	23.484	2.5
54	MP4C	Mx	.015	2.5
55	MP3A	X	7.384	.5
56	MP3A	Z	4.263	.5
57	MP3A	Mx	0	.5
58	MP3C	X	9.191	.5
59	MP3C	Z	5.306	.5
60	MP3C	Mx	0	.5
61	MP5B	X	10.152	.5
62	MP5B	Z	5.861	.5
63	MP5B	Mx	0	.5
64	O1	X	88.989	1
65	O1	Z	51.378	1
66	O1	Mx	0	1
67	MP3A	X	30.039	2.5
68	MP3A	Z	17.343	2.5
69	MP3A	Mx	-.028	2.5
70	MP3B	X	42.419	2.5
71	MP3B	Z	24.491	2.5
72	MP3B	Mx	.014	2.5
73	MP3C	X	38.119	2.5
74	MP3C	Z	22.008	2.5
75	MP3C	Mx	.024	2.5
76	MP4A	X	24.794	2.5
77	MP4A	Z	14.315	2.5
78	MP4A	Mx	-.023	2.5
79	MP4B	X	41.786	2.5
80	MP4B	Z	24.125	2.5
81	MP4B	Mx	.014	2.5
82	MP4C	X	35.885	2.5
83	MP4C	Z	20.718	2.5
84	MP4C	Mx	.022	2.5
85	MP1A	X	122.933	.5
86	MP1A	Z	70.975	.5
87	MP1A	Mx	-.07	.5
88	MP1A	X	122.933	3
89	MP1A	Z	70.975	3
90	MP1A	Mx	-.07	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
91	MP1B	X	136.972	.5
92	MP1B	Z	79.081	.5
93	MP1B	Mx	.027	.5
94	MP1B	X	136.972	3
95	MP1B	Z	79.081	3
96	MP1B	Mx	.027	3
97	MP1C	X	132.097	.5
98	MP1C	Z	76.266	.5
99	MP1C	Mx	.049	.5
100	MP1C	X	132.097	3
101	MP1C	Z	76.266	3
102	MP1C	Mx	.049	3
103	MP4B	X	136.972	.5
104	MP4B	Z	79.081	.5
105	MP4B	Mx	.027	.5
106	MP4B	X	136.972	3
107	MP4B	Z	79.081	3
108	MP4B	Mx	.027	3
109	MP5A	X	122.933	.5
110	MP5A	Z	70.975	.5
111	MP5A	Mx	-.07	.5
112	MP5A	X	122.933	3
113	MP5A	Z	70.975	3
114	MP5A	Mx	-.07	3
115	MP5C	X	132.097	.5
116	MP5C	Z	76.266	.5
117	MP5C	Mx	.049	.5
118	MP5C	X	132.097	3
119	MP5C	Z	76.266	3
120	MP5C	Mx	.049	3
121	MP2C	X	19.459	2.5
122	MP2C	Z	11.234	2.5
123	MP2C	Mx	-.007	2.5
124	MP2C	X	19.459	2.5
125	MP2C	Z	11.234	2.5
126	MP2C	Mx	-.007	2.5
127	MP5B	X	16.153	2.5
128	MP5B	Z	9.326	2.5
129	MP5B	Mx	-.007	2.5
130	MP5B	X	16.153	2.5
131	MP5B	Z	9.326	2.5
132	MP5B	Mx	-.007	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	81.103	.5
2	MP2A	Z	140.475	.5
3	MP2A	Mx	.071	.5
4	MP2A	X	81.103	3
5	MP2A	Z	140.475	3
6	MP2A	Mx	.071	3
7	MP2A	X	81.103	.5
8	MP2A	Z	140.475	.5
9	MP2A	Mx	-.152	.5
10	MP2A	X	81.103	3
11	MP2A	Z	140.475	3
12	MP2A	Mx	-.152	3
13	MP2C	X	68.429	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Locationft.%]
14	MP2C	Z	118.523	.5
15	MP2C	Mx	.037	.5
16	MP2C	X	68.429	3
17	MP2C	Z	118.523	3
18	MP2C	Mx	.037	3
19	MP2C	X	68.429	.5
20	MP2C	Z	118.523	.5
21	MP2C	Mx	-.106	.5
22	MP2C	X	68.429	3
23	MP2C	Z	118.523	3
24	MP2C	Mx	-.106	3
25	MP5B	X	71.847	.5
26	MP5B	Z	124.442	.5
27	MP5B	Mx	-.057	.5
28	MP5B	X	71.847	3
29	MP5B	Z	124.442	3
30	MP5B	Mx	-.057	3
31	MP5B	X	71.847	.5
32	MP5B	Z	124.442	.5
33	MP5B	Mx	.106	.5
34	MP5B	X	71.847	3
35	MP5B	Z	124.442	3
36	MP5B	Mx	.106	3
37	MP3B	X	29.738	1
38	MP3B	Z	51.508	1
39	MP3B	Mx	.01	1
40	MP3B	X	29.738	2.5
41	MP3B	Z	51.508	2.5
42	MP3B	Mx	.01	2.5
43	MP4A	X	26.929	1
44	MP4A	Z	46.643	1
45	MP4A	Mx	-.013	1
46	MP4A	X	26.929	2.5
47	MP4A	Z	46.643	2.5
48	MP4A	Mx	-.013	2.5
49	MP4C	X	13.562	1
50	MP4C	Z	23.491	1
51	MP4C	Mx	.013	1
52	MP4C	X	13.562	2.5
53	MP4C	Z	23.491	2.5
54	MP4C	Mx	.013	2.5
55	MP3A	X	4.981	.5
56	MP3A	Z	8.627	.5
57	MP3A	Mx	0	.5
58	MP3C	X	4.426	.5
59	MP3C	Z	7.666	.5
60	MP3C	Mx	0	.5
61	MP5B	X	6.024	.5
62	MP5B	Z	10.433	.5
63	MP5B	Mx	0	.5
64	O1	X	57.436	1
65	O1	Z	99.482	1
66	O1	Mx	0	1
67	MP3A	X	20.553	2.5
68	MP3A	Z	35.599	2.5
69	MP3A	Mx	-.026	2.5
70	MP3B	X	25.218	2.5
71	MP3B	Z	43.679	2.5
72	MP3B	Mx	-.007	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP3C	X	18.071	2.5
74	MP3C	Z	31.299	2.5
75	MP3C	Mx	.028	2.5
76	MP4A	X	18.721	2.5
77	MP4A	Z	32.425	2.5
78	MP4A	Mx	-.024	2.5
79	MP4B	X	25.124	2.5
80	MP4B	Z	43.516	2.5
81	MP4B	Mx	-.007	2.5
82	MP4C	X	15.314	2.5
83	MP4C	Z	26.524	2.5
84	MP4C	Mx	.024	2.5
85	MP1A	X	74.616	.5
86	MP1A	Z	129.238	.5
87	MP1A	Mx	-.057	.5
88	MP1A	X	74.616	3
89	MP1A	Z	129.238	3
90	MP1A	Mx	-.057	3
91	MP1B	X	79.906	.5
92	MP1B	Z	138.401	.5
93	MP1B	Mx	-.014	.5
94	MP1B	X	79.906	3
95	MP1B	Z	138.401	3
96	MP1B	Mx	-.014	3
97	MP1C	X	71.801	.5
98	MP1C	Z	124.362	.5
99	MP1C	Mx	.067	.5
100	MP1C	X	71.801	3
101	MP1C	Z	124.362	3
102	MP1C	Mx	.067	3
103	MP4B	X	79.906	.5
104	MP4B	Z	138.401	.5
105	MP4B	Mx	-.014	.5
106	MP4B	X	79.906	3
107	MP4B	Z	138.401	3
108	MP4B	Mx	-.014	3
109	MP5A	X	74.616	.5
110	MP5A	Z	129.238	.5
111	MP5A	Mx	-.057	.5
112	MP5A	X	74.616	3
113	MP5A	Z	129.238	3
114	MP5A	Mx	-.057	3
115	MP5C	X	71.801	.5
116	MP5C	Z	124.362	.5
117	MP5C	Mx	.067	.5
118	MP5C	X	71.801	3
119	MP5C	Z	124.362	3
120	MP5C	Mx	.067	3
121	MP2C	X	6.071	2.5
122	MP2C	Z	10.514	2.5
123	MP2C	Mx	-.006	2.5
124	MP2C	X	6.071	2.5
125	MP2C	Z	10.514	2.5
126	MP2C	Mx	-.006	2.5
127	MP5B	X	14.49	2.5
128	MP5B	Z	25.097	2.5
129	MP5B	Mx	-.005	2.5
130	MP5B	X	14.49	2.5
131	MP5B	Z	25.097	2.5



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
132	MP5B	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.5
2	MP2A	Z	187.335	.5
3	MP2A	Mx	.148	.5
4	MP2A	X	0	3
5	MP2A	Z	187.335	3
6	MP2A	Mx	.148	3
7	MP2A	X	0	.5
8	MP2A	Z	187.335	.5
9	MP2A	Mx	-.148	.5
10	MP2A	X	0	3
11	MP2A	Z	187.335	3
12	MP2A	Mx	-.148	3
13	MP2C	X	0	.5
14	MP2C	Z	149.704	.5
15	MP2C	Mx	.09	.5
16	MP2C	X	0	3
17	MP2C	Z	149.704	3
18	MP2C	Mx	.09	3
19	MP2C	X	0	.5
20	MP2C	Z	149.704	.5
21	MP2C	Mx	-.09	.5
22	MP2C	X	0	3
23	MP2C	Z	149.704	3
24	MP2C	Mx	-.09	3
25	MP5B	X	0	.5
26	MP5B	Z	148.155	.5
27	MP5B	Mx	-.101	.5
28	MP5B	X	0	3
29	MP5B	Z	148.155	3
30	MP5B	Mx	-.101	3
31	MP5B	X	0	.5
32	MP5B	Z	148.155	.5
33	MP5B	Mx	.075	.5
34	MP5B	X	0	3
35	MP5B	Z	148.155	3
36	MP5B	Mx	.075	3
37	MP3B	X	0	1
38	MP3B	Z	63.144	1
39	MP3B	Mx	-.005	1
40	MP3B	X	0	2.5
41	MP3B	Z	63.144	2.5
42	MP3B	Mx	-.005	2.5
43	MP4A	X	0	1
44	MP4A	Z	64.417	1
45	MP4A	Mx	0	1
46	MP4A	X	0	2.5
47	MP4A	Z	64.417	2.5
48	MP4A	Mx	0	2.5
49	MP4C	X	0	1
50	MP4C	Z	23.458	1
51	MP4C	Mx	.012	1
52	MP4C	X	0	2.5
53	MP4C	Z	23.458	2.5
54	MP4C	Mx	.012	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
55	MP3A	X	0	.5
56	MP3A	Z	11.722	.5
57	MP3A	Mx	0	.5
58	MP3C	X	0	.5
59	MP3C	Z	8.527	.5
60	MP3C	Mx	0	.5
61	MP5B	X	0	.5
62	MP5B	Z	10.612	.5
63	MP5B	Mx	0	.5
64	O1	X	0	1
65	O1	Z	129.735	1
66	O1	Mx	0	1
67	MP3A	X	0	2.5
68	MP3A	Z	48.981	2.5
69	MP3A	Mx	-.014	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	44.017	2.5
72	MP3B	Mx	-.024	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	34.686	2.5
75	MP3C	Mx	.028	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	48.251	2.5
78	MP4A	Mx	-.014	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	41.437	2.5
81	MP4B	Mx	-.022	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	28.63	2.5
84	MP4C	Mx	.023	2.5
85	MP1A	X	0	.5
86	MP1A	Z	158.162	.5
87	MP1A	Mx	-.027	.5
88	MP1A	X	0	3
89	MP1A	Z	158.162	3
90	MP1A	Mx	-.027	3
91	MP1B	X	0	.5
92	MP1B	Z	152.532	.5
93	MP1B	Mx	-.049	.5
94	MP1B	X	0	3
95	MP1B	Z	152.532	3
96	MP1B	Mx	-.049	3
97	MP1C	X	0	.5
98	MP1C	Z	141.951	.5
99	MP1C	Mx	.07	.5
100	MP1C	X	0	3
101	MP1C	Z	141.951	3
102	MP1C	Mx	.07	3
103	MP4B	X	0	.5
104	MP4B	Z	152.532	.5
105	MP4B	Mx	-.049	.5
106	MP4B	X	0	3
107	MP4B	Z	152.532	3
108	MP4B	Mx	-.049	3
109	MP5A	X	0	.5
110	MP5A	Z	158.162	.5
111	MP5A	Mx	-.027	.5
112	MP5A	X	0	3
113	MP5A	Z	158.162	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
114	MP5A	Mx	-.027	3
115	MP5C	X	0	.5
116	MP5C	Z	141.951	.5
117	MP5C	Mx	.07	.5
118	MP5C	X	0	3
119	MP5C	Z	141.951	3
120	MP5C	Mx	.07	3
121	MP2C	X	0	2.5
122	MP2C	Z	10.232	2.5
123	MP2C	Mx	-.005	2.5
124	MP2C	X	0	2.5
125	MP2C	Z	10.232	2.5
126	MP2C	Mx	-.005	2.5
127	MP5B	X	0	2.5
128	MP5B	Z	30.888	2.5
129	MP5B	Mx	.003	2.5
130	MP5B	X	0	2.5
131	MP5B	Z	30.888	2.5
132	MP5B	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-81.103	.5
2	MP2A	Z	140.475	.5
3	MP2A	Mx	.152	.5
4	MP2A	X	-81.103	3
5	MP2A	Z	140.475	3
6	MP2A	Mx	.152	3
7	MP2A	X	-81.103	.5
8	MP2A	Z	140.475	.5
9	MP2A	Mx	-.071	.5
10	MP2A	X	-81.103	3
11	MP2A	Z	140.475	3
12	MP2A	Mx	-.071	3
13	MP2C	X	-68.429	.5
14	MP2C	Z	118.523	.5
15	MP2C	Mx	.106	.5
16	MP2C	X	-68.429	3
17	MP2C	Z	118.523	3
18	MP2C	Mx	.106	3
19	MP2C	X	-68.429	.5
20	MP2C	Z	118.523	.5
21	MP2C	Mx	-.037	.5
22	MP2C	X	-68.429	3
23	MP2C	Z	118.523	3
24	MP2C	Mx	-.037	3
25	MP5B	X	-64.237	.5
26	MP5B	Z	111.263	.5
27	MP5B	Mx	-.101	.5
28	MP5B	X	-64.237	3
29	MP5B	Z	111.263	3
30	MP5B	Mx	-.101	3
31	MP5B	X	-64.237	.5
32	MP5B	Z	111.263	.5
33	MP5B	Mx	.018	.5
34	MP5B	X	-64.237	3
35	MP5B	Z	111.263	3
36	MP5B	Mx	.018	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
37	MP3B	X	-23.484	1
38	MP3B	Z	40.675	1
39	MP3B	Mx	-.015	1
40	MP3B	X	-23.484	2.5
41	MP3B	Z	40.675	2.5
42	MP3B	Mx	-.015	2.5
43	MP4A	X	-26.929	1
44	MP4A	Z	46.643	1
45	MP4A	Mx	.013	1
46	MP4A	X	-26.929	2.5
47	MP4A	Z	46.643	2.5
48	MP4A	Mx	.013	2.5
49	MP4C	X	-19.817	1
50	MP4C	Z	34.324	1
51	MP4C	Mx	.015	1
52	MP4C	X	-19.817	2.5
53	MP4C	Z	34.324	2.5
54	MP4C	Mx	.015	2.5
55	MP3A	X	-6.024	.5
56	MP3A	Z	10.433	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-4.981	.5
59	MP3C	Z	8.627	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-4.426	.5
62	MP5B	Z	7.666	.5
63	MP5B	Mx	0	.5
64	O1	X	-66.241	1
65	O1	Z	114.732	1
66	O1	Mx	0	1
67	MP3A	X	-25.218	2.5
68	MP3A	Z	43.679	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	-18.071	2.5
71	MP3B	Z	31.299	2.5
72	MP3B	Mx	-.028	2.5
73	MP3C	X	-20.553	2.5
74	MP3C	Z	35.599	2.5
75	MP3C	Mx	.026	2.5
76	MP4A	X	-25.124	2.5
77	MP4A	Z	43.516	2.5
78	MP4A	Mx	.007	2.5
79	MP4B	X	-15.314	2.5
80	MP4B	Z	26.524	2.5
81	MP4B	Mx	-.024	2.5
82	MP4C	X	-18.721	2.5
83	MP4C	Z	32.425	2.5
84	MP4C	Mx	.024	2.5
85	MP1A	X	-79.906	.5
86	MP1A	Z	138.401	.5
87	MP1A	Mx	.014	.5
88	MP1A	X	-79.906	3
89	MP1A	Z	138.401	3
90	MP1A	Mx	.014	3
91	MP1B	X	-71.801	.5
92	MP1B	Z	124.362	.5
93	MP1B	Mx	-.067	.5
94	MP1B	X	-71.801	3
95	MP1B	Z	124.362	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
96	MP1B	Mx	-.067	3
97	MP1C	X	-74.616	.5
98	MP1C	Z	129.238	.5
99	MP1C	Mx	.057	.5
100	MP1C	X	-74.616	3
101	MP1C	Z	129.238	3
102	MP1C	Mx	.057	3
103	MP4B	X	-71.801	.5
104	MP4B	Z	124.362	.5
105	MP4B	Mx	-.067	.5
106	MP4B	X	-71.801	3
107	MP4B	Z	124.362	3
108	MP4B	Mx	-.067	3
109	MP5A	X	-79.906	.5
110	MP5A	Z	138.401	.5
111	MP5A	Mx	.014	.5
112	MP5A	X	-79.906	3
113	MP5A	Z	138.401	3
114	MP5A	Mx	.014	3
115	MP5C	X	-74.616	.5
116	MP5C	Z	129.238	.5
117	MP5C	Mx	.057	.5
118	MP5C	X	-74.616	3
119	MP5C	Z	129.238	3
120	MP5C	Mx	.057	3
121	MP2C	X	-9.326	2.5
122	MP2C	Z	16.153	2.5
123	MP2C	Mx	-.007	2.5
124	MP2C	X	-9.326	2.5
125	MP2C	Z	16.153	2.5
126	MP2C	Mx	-.007	2.5
127	MP5B	X	-11.234	2.5
128	MP5B	Z	19.459	2.5
129	MP5B	Mx	.007	2.5
130	MP5B	X	-11.234	2.5
131	MP5B	Z	19.459	2.5
132	MP5B	Mx	.007	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-96.951	.5
2	MP2A	Z	55.975	.5
3	MP2A	Mx	.093	.5
4	MP2A	X	-96.951	3
5	MP2A	Z	55.975	3
6	MP2A	Mx	.093	3
7	MP2A	X	-96.951	.5
8	MP2A	Z	55.975	.5
9	MP2A	Mx	.004	.5
10	MP2A	X	-96.951	3
11	MP2A	Z	55.975	3
12	MP2A	Mx	.004	3
13	MP2C	X	-96.275	.5
14	MP2C	Z	55.584	.5
15	MP2C	Mx	.082	.5
16	MP2C	X	-96.275	3
17	MP2C	Z	55.584	3
18	MP2C	Mx	.082	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
19	MP2C	X	-96.275	.5
20	MP2C	Z	55.584	.5
21	MP2C	Mx	.015	.5
22	MP2C	X	-96.275	3
23	MP2C	Z	55.584	3
24	MP2C	Mx	.015	3
25	MP5B	X	-90.356	.5
26	MP5B	Z	52.167	.5
27	MP5B	Mx	-.071	.5
28	MP5B	X	-90.356	3
29	MP5B	Z	52.167	3
30	MP5B	Mx	-.071	3
31	MP5B	X	-90.356	.5
32	MP5B	Z	52.167	.5
33	MP5B	Mx	-.027	.5
34	MP5B	X	-90.356	3
35	MP5B	Z	52.167	3
36	MP5B	Mx	-.027	3
37	MP3B	X	-23.491	1
38	MP3B	Z	13.562	1
39	MP3B	Mx	-.013	1
40	MP3B	X	-23.491	2.5
41	MP3B	Z	13.562	2.5
42	MP3B	Mx	-.013	2.5
43	MP4A	X	-28.356	1
44	MP4A	Z	16.371	1
45	MP4A	Mx	.014	1
46	MP4A	X	-28.356	2.5
47	MP4A	Z	16.371	2.5
48	MP4A	Mx	.014	2.5
49	MP4C	X	-51.508	1
50	MP4C	Z	29.738	1
51	MP4C	Mx	.01	1
52	MP4C	X	-51.508	2.5
53	MP4C	Z	29.738	2.5
54	MP4C	Mx	.01	2.5
55	MP3A	X	-9.191	.5
56	MP3A	Z	5.306	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-10.152	.5
59	MP3C	Z	5.861	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-7.384	.5
62	MP5B	Z	4.263	.5
63	MP5B	Mx	0	.5
64	O1	X	-104.239	1
65	O1	Z	60.183	1
66	O1	Mx	0	1
67	MP3A	X	-38.119	2.5
68	MP3A	Z	22.008	2.5
69	MP3A	Mx	.024	2.5
70	MP3B	X	-30.039	2.5
71	MP3B	Z	17.343	2.5
72	MP3B	Mx	-.028	2.5
73	MP3C	X	-42.419	2.5
74	MP3C	Z	24.491	2.5
75	MP3C	Mx	.014	2.5
76	MP4A	X	-35.885	2.5
77	MP4A	Z	20.718	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[b,k-ft]	Location[ft,%]
78	MP4A	Mx	.022	2.5
79	MP4B	X	-24.794	2.5
80	MP4B	Z	14.315	2.5
81	MP4B	Mx	-.023	2.5
82	MP4C	X	-41.786	2.5
83	MP4C	Z	24.125	2.5
84	MP4C	Mx	.014	2.5
85	MP1A	X	-132.097	.5
86	MP1A	Z	76.266	.5
87	MP1A	Mx	.049	.5
88	MP1A	X	-132.097	3
89	MP1A	Z	76.266	3
90	MP1A	Mx	.049	3
91	MP1B	X	-122.933	.5
92	MP1B	Z	70.975	.5
93	MP1B	Mx	-.07	.5
94	MP1B	X	-122.933	3
95	MP1B	Z	70.975	3
96	MP1B	Mx	-.07	3
97	MP1C	X	-136.972	.5
98	MP1C	Z	79.081	.5
99	MP1C	Mx	.027	.5
100	MP1C	X	-136.972	3
101	MP1C	Z	79.081	3
102	MP1C	Mx	.027	3
103	MP4B	X	-122.933	.5
104	MP4B	Z	70.975	.5
105	MP4B	Mx	-.07	.5
106	MP4B	X	-122.933	3
107	MP4B	Z	70.975	3
108	MP4B	Mx	-.07	3
109	MP5A	X	-132.097	.5
110	MP5A	Z	76.266	.5
111	MP5A	Mx	.049	.5
112	MP5A	X	-132.097	3
113	MP5A	Z	76.266	3
114	MP5A	Mx	.049	3
115	MP5C	X	-136.972	.5
116	MP5C	Z	79.081	.5
117	MP5C	Mx	.027	.5
118	MP5C	X	-136.972	3
119	MP5C	Z	79.081	3
120	MP5C	Mx	.027	3
121	MP2C	X	-25.097	2.5
122	MP2C	Z	14.49	2.5
123	MP2C	Mx	-.005	2.5
124	MP2C	X	-25.097	2.5
125	MP2C	Z	14.49	2.5
126	MP2C	Mx	-.005	2.5
127	MP5B	X	-10.514	2.5
128	MP5B	Z	6.071	2.5
129	MP5B	Mx	.006	2.5
130	MP5B	X	-10.514	2.5
131	MP5B	Z	6.071	2.5
132	MP5B	Mx	.006	2.5

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

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-86.821	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.043	.5
4	MP2A	X	-86.821	3
5	MP2A	Z	0	3
6	MP2A	Mx	.043	3
7	MP2A	X	-86.821	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.043	.5
10	MP2A	X	-86.821	3
11	MP2A	Z	0	3
12	MP2A	Mx	.043	3
13	MP2C	X	-98.324	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.049	.5
16	MP2C	X	-98.324	3
17	MP2C	Z	0	3
18	MP2C	Mx	.049	3
19	MP2C	X	-98.324	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	.049	.5
22	MP2C	X	-98.324	3
23	MP2C	Z	0	3
24	MP2C	Mx	.049	3
25	MP5B	X	-99.873	.5
26	MP5B	Z	0	.5
27	MP5B	Mx	-.039	.5
28	MP5B	X	-99.873	3
29	MP5B	Z	0	3
30	MP5B	Mx	-.039	3
31	MP5B	X	-99.873	.5
32	MP5B	Z	0	.5
33	MP5B	Mx	-.06	.5
34	MP5B	X	-99.873	3
35	MP5B	Z	0	3
36	MP5B	Mx	-.06	3
37	MP3B	X	-23.458	1
38	MP3B	Z	0	1
39	MP3B	Mx	-.012	1
40	MP3B	X	-23.458	2.5
41	MP3B	Z	0	2.5
42	MP3B	Mx	-.012	2.5
43	MP4A	X	-22.184	1
44	MP4A	Z	0	1
45	MP4A	Mx	.011	1
46	MP4A	X	-22.184	2.5
47	MP4A	Z	0	2.5
48	MP4A	Mx	.011	2.5
49	MP4C	X	-63.144	1
50	MP4C	Z	0	1
51	MP4C	Mx	-.005	1
52	MP4C	X	-63.144	2.5
53	MP4C	Z	0	2.5
54	MP4C	Mx	-.005	2.5
55	MP3A	X	-8.852	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-12.047	.5
59	MP3C	Z	0	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude/lb.k-ft	Location/ft.%
60	MP3C	Mx	0	.5
61	MP5B	X	-9.962	.5
62	MP5B	Z	0	.5
63	MP5B	Mx	0	.5
64	O1	X	-105.502	1
65	O1	Z	0	1
66	O1	Mx	0	1
67	MP3A	X	-36.141	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.028	2.5
70	MP3B	X	-41.106	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.026	2.5
73	MP3C	X	-50.437	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	-.007	2.5
76	MP4A	X	-30.627	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	.024	2.5
79	MP4B	X	-37.442	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	-.024	2.5
82	MP4C	X	-50.248	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	-.007	2.5
85	MP1A	X	-143.601	.5
86	MP1A	Z	0	.5
87	MP1A	Mx	.067	.5
88	MP1A	X	-143.601	3
89	MP1A	Z	0	3
90	MP1A	Mx	.067	3
91	MP1B	X	-149.231	.5
92	MP1B	Z	0	.5
93	MP1B	Mx	-.057	.5
94	MP1B	X	-149.231	3
95	MP1B	Z	0	3
96	MP1B	Mx	-.057	3
97	MP1C	X	-159.812	.5
98	MP1C	Z	0	.5
99	MP1C	Mx	-.014	.5
100	MP1C	X	-159.812	3
101	MP1C	Z	0	3
102	MP1C	Mx	-.014	3
103	MP4B	X	-149.231	.5
104	MP4B	Z	0	.5
105	MP4B	Mx	-.057	.5
106	MP4B	X	-149.231	3
107	MP4B	Z	0	3
108	MP4B	Mx	-.057	3
109	MP5A	X	-143.601	.5
110	MP5A	Z	0	.5
111	MP5A	Mx	.067	.5
112	MP5A	X	-143.601	3
113	MP5A	Z	0	3
114	MP5A	Mx	.067	3
115	MP5C	X	-159.812	.5
116	MP5C	Z	0	.5
117	MP5C	Mx	-.014	.5
118	MP5C	X	-159.812	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP5C	Z	0	3
120	MP5C	Mx	-.014	3
121	MP2C	X	-30.888	2.5
122	MP2C	Z	0	2.5
123	MP2C	Mx	.003	2.5
124	MP2C	X	-30.888	2.5
125	MP2C	Z	0	2.5
126	MP2C	Mx	.003	2.5
127	MP5B	X	-10.232	2.5
128	MP5B	Z	0	2.5
129	MP5B	Mx	.005	2.5
130	MP5B	X	-10.232	2.5
131	MP5B	Z	0	2.5
132	MP5B	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-96.951	.5
2	MP2A	Z	-55.975	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-96.951	3
5	MP2A	Z	-55.975	3
6	MP2A	Mx	.004	3
7	MP2A	X	-96.951	.5
8	MP2A	Z	-55.975	.5
9	MP2A	Mx	.093	.5
10	MP2A	X	-96.951	3
11	MP2A	Z	-55.975	3
12	MP2A	Mx	.093	3
13	MP2C	X	-96.275	.5
14	MP2C	Z	-55.584	.5
15	MP2C	Mx	.015	.5
16	MP2C	X	-96.275	3
17	MP2C	Z	-55.584	3
18	MP2C	Mx	.015	3
19	MP2C	X	-96.275	.5
20	MP2C	Z	-55.584	.5
21	MP2C	Mx	.082	.5
22	MP2C	X	-96.275	3
23	MP2C	Z	-55.584	3
24	MP2C	Mx	.082	3
25	MP5B	X	-103.536	.5
26	MP5B	Z	-59.776	.5
27	MP5B	Mx	.000637	.5
28	MP5B	X	-103.536	3
29	MP5B	Z	-59.776	3
30	MP5B	Mx	.000637	3
31	MP5B	X	-103.536	.5
32	MP5B	Z	-59.776	.5
33	MP5B	Mx	-.092	.5
34	MP5B	X	-103.536	3
35	MP5B	Z	-59.776	3
36	MP5B	Mx	-.092	3
37	MP3B	X	-34.324	1
38	MP3B	Z	-19.817	1
39	MP3B	Mx	-.015	1
40	MP3B	X	-34.324	2.5
41	MP3B	Z	-19.817	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
42	MP3B	Mx	-.015	2.5
43	MP4A	X	-28.356	1
44	MP4A	Z	-16.371	1
45	MP4A	Mx	.014	1
46	MP4A	X	-28.356	2.5
47	MP4A	Z	-16.371	2.5
48	MP4A	Mx	.014	2.5
49	MP4C	X	-40.675	1
50	MP4C	Z	-23.484	1
51	MP4C	Mx	-.015	1
52	MP4C	X	-40.675	2.5
53	MP4C	Z	-23.484	2.5
54	MP4C	Mx	-.015	2.5
55	MP3A	X	-7.384	.5
56	MP3A	Z	-4.263	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-9.191	.5
59	MP3C	Z	-5.306	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-10.152	.5
62	MP5B	Z	-5.861	.5
63	MP5B	Mx	0	.5
64	O1	X	-88.989	1
65	O1	Z	-51.378	1
66	O1	Mx	0	1
67	MP3A	X	-30.039	2.5
68	MP3A	Z	-17.343	2.5
69	MP3A	Mx	.028	2.5
70	MP3B	X	-42.419	2.5
71	MP3B	Z	-24.491	2.5
72	MP3B	Mx	-.014	2.5
73	MP3C	X	-38.119	2.5
74	MP3C	Z	-22.008	2.5
75	MP3C	Mx	-.024	2.5
76	MP4A	X	-24.794	2.5
77	MP4A	Z	-14.315	2.5
78	MP4A	Mx	.023	2.5
79	MP4B	X	-41.786	2.5
80	MP4B	Z	-24.125	2.5
81	MP4B	Mx	-.014	2.5
82	MP4C	X	-35.885	2.5
83	MP4C	Z	-20.718	2.5
84	MP4C	Mx	-.022	2.5
85	MP1A	X	-122.933	.5
86	MP1A	Z	-70.975	.5
87	MP1A	Mx	.07	.5
88	MP1A	X	-122.933	3
89	MP1A	Z	-70.975	3
90	MP1A	Mx	.07	3
91	MP1B	X	-136.972	.5
92	MP1B	Z	-79.081	.5
93	MP1B	Mx	-.027	.5
94	MP1B	X	-136.972	3
95	MP1B	Z	-79.081	3
96	MP1B	Mx	-.027	3
97	MP1C	X	-132.097	.5
98	MP1C	Z	-76.266	.5
99	MP1C	Mx	-.049	.5
100	MP1C	X	-132.097	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
101	MP1C	Z	-76.266	3
102	MP1C	Mx	-.049	3
103	MP4B	X	-136.972	.5
104	MP4B	Z	-79.081	.5
105	MP4B	Mx	-.027	.5
106	MP4B	X	-136.972	3
107	MP4B	Z	-79.081	3
108	MP4B	Mx	-.027	3
109	MP5A	X	-122.933	.5
110	MP5A	Z	-70.975	.5
111	MP5A	Mx	.07	.5
112	MP5A	X	-122.933	3
113	MP5A	Z	-70.975	3
114	MP5A	Mx	.07	3
115	MP5C	X	-132.097	.5
116	MP5C	Z	-76.266	.5
117	MP5C	Mx	-.049	.5
118	MP5C	X	-132.097	3
119	MP5C	Z	-76.266	3
120	MP5C	Mx	-.049	3
121	MP2C	X	-19.459	2.5
122	MP2C	Z	-11.234	2.5
123	MP2C	Mx	.007	2.5
124	MP2C	X	-19.459	2.5
125	MP2C	Z	-11.234	2.5
126	MP2C	Mx	.007	2.5
127	MP5B	X	-16.153	2.5
128	MP5B	Z	-9.326	2.5
129	MP5B	Mx	.007	2.5
130	MP5B	X	-16.153	2.5
131	MP5B	Z	-9.326	2.5
132	MP5B	Mx	.007	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-81.103	.5
2	MP2A	Z	-140.475	.5
3	MP2A	Mx	-.071	.5
4	MP2A	X	-81.103	3
5	MP2A	Z	-140.475	3
6	MP2A	Mx	-.071	3
7	MP2A	X	-81.103	.5
8	MP2A	Z	-140.475	.5
9	MP2A	Mx	.152	.5
10	MP2A	X	-81.103	3
11	MP2A	Z	-140.475	3
12	MP2A	Mx	.152	3
13	MP2C	X	-68.429	.5
14	MP2C	Z	-118.523	.5
15	MP2C	Mx	-.037	.5
16	MP2C	X	-68.429	3
17	MP2C	Z	-118.523	3
18	MP2C	Mx	-.037	3
19	MP2C	X	-68.429	.5
20	MP2C	Z	-118.523	.5
21	MP2C	Mx	.106	.5
22	MP2C	X	-68.429	3
23	MP2C	Z	-118.523	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP2C	Mx	.106	3
25	MP5B	X	-71.847	.5
26	MP5B	Z	-124.442	.5
27	MP5B	Mx	.057	.5
28	MP5B	X	-71.847	3
29	MP5B	Z	-124.442	3
30	MP5B	Mx	.057	3
31	MP5B	X	-71.847	.5
32	MP5B	Z	-124.442	.5
33	MP5B	Mx	-.106	.5
34	MP5B	X	-71.847	3
35	MP5B	Z	-124.442	3
36	MP5B	Mx	-.106	3
37	MP3B	X	-29.738	1
38	MP3B	Z	-51.508	1
39	MP3B	Mx	-.01	1
40	MP3B	X	-29.738	2.5
41	MP3B	Z	-51.508	2.5
42	MP3B	Mx	-.01	2.5
43	MP4A	X	-26.929	1
44	MP4A	Z	-46.643	1
45	MP4A	Mx	.013	1
46	MP4A	X	-26.929	2.5
47	MP4A	Z	-46.643	2.5
48	MP4A	Mx	.013	2.5
49	MP4C	X	-13.562	1
50	MP4C	Z	-23.491	1
51	MP4C	Mx	-.013	1
52	MP4C	X	-13.562	2.5
53	MP4C	Z	-23.491	2.5
54	MP4C	Mx	-.013	2.5
55	MP3A	X	-4.981	.5
56	MP3A	Z	-8.627	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-4.426	.5
59	MP3C	Z	-7.666	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-6.024	.5
62	MP5B	Z	-10.433	.5
63	MP5B	Mx	0	.5
64	O1	X	-57.436	1
65	O1	Z	-99.482	1
66	O1	Mx	0	1
67	MP3A	X	-20.553	2.5
68	MP3A	Z	-35.599	2.5
69	MP3A	Mx	.026	2.5
70	MP3B	X	-25.218	2.5
71	MP3B	Z	-43.679	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	-18.071	2.5
74	MP3C	Z	-31.299	2.5
75	MP3C	Mx	-.028	2.5
76	MP4A	X	-18.721	2.5
77	MP4A	Z	-32.425	2.5
78	MP4A	Mx	.024	2.5
79	MP4B	X	-25.124	2.5
80	MP4B	Z	-43.516	2.5
81	MP4B	Mx	.007	2.5
82	MP4C	X	-15.314	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP4C	Z	-26.524	2.5
84	MP4C	Mx	-.024	2.5
85	MP1A	X	-74.616	.5
86	MP1A	Z	-129.238	.5
87	MP1A	Mx	.057	.5
88	MP1A	X	-74.616	3
89	MP1A	Z	-129.238	3
90	MP1A	Mx	.057	3
91	MP1B	X	-79.906	.5
92	MP1B	Z	-138.401	.5
93	MP1B	Mx	.014	.5
94	MP1B	X	-79.906	3
95	MP1B	Z	-138.401	3
96	MP1B	Mx	.014	3
97	MP1C	X	-71.801	.5
98	MP1C	Z	-124.362	.5
99	MP1C	Mx	-.067	.5
100	MP1C	X	-71.801	3
101	MP1C	Z	-124.362	3
102	MP1C	Mx	-.067	3
103	MP4B	X	-79.906	.5
104	MP4B	Z	-138.401	.5
105	MP4B	Mx	.014	.5
106	MP4B	X	-79.906	3
107	MP4B	Z	-138.401	3
108	MP4B	Mx	.014	3
109	MP5A	X	-74.616	.5
110	MP5A	Z	-129.238	.5
111	MP5A	Mx	.057	.5
112	MP5A	X	-74.616	3
113	MP5A	Z	-129.238	3
114	MP5A	Mx	.057	3
115	MP5C	X	-71.801	.5
116	MP5C	Z	-124.362	.5
117	MP5C	Mx	-.067	.5
118	MP5C	X	-71.801	3
119	MP5C	Z	-124.362	3
120	MP5C	Mx	-.067	3
121	MP2C	X	-6.071	2.5
122	MP2C	Z	-10.514	2.5
123	MP2C	Mx	.006	2.5
124	MP2C	X	-6.071	2.5
125	MP2C	Z	-10.514	2.5
126	MP2C	Mx	.006	2.5
127	MP5B	X	-14.49	2.5
128	MP5B	Z	-25.097	2.5
129	MP5B	Mx	.005	2.5
130	MP5B	X	-14.49	2.5
131	MP5B	Z	-25.097	2.5
132	MP5B	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.5
2	MP2A	Z	-35.181	.5
3	MP2A	Mx	-.028	.5
4	MP2A	X	0	3
5	MP2A	Z	-35.181	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lib.k-ft)	Location(ft,%)
6	MP2A	Mx	-.028	3
7	MP2A	X	0	.5
8	MP2A	Z	-35.181	.5
9	MP2A	Mx	.028	.5
10	MP2A	X	0	3
11	MP2A	Z	-35.181	3
12	MP2A	Mx	.028	3
13	MP2C	X	0	.5
14	MP2C	Z	-28.465	.5
15	MP2C	Mx	-.017	.5
16	MP2C	X	0	3
17	MP2C	Z	-28.465	3
18	MP2C	Mx	-.017	3
19	MP2C	X	0	.5
20	MP2C	Z	-28.465	.5
21	MP2C	Mx	.017	.5
22	MP2C	X	0	3
23	MP2C	Z	-28.465	3
24	MP2C	Mx	.017	3
25	MP5B	X	0	.5
26	MP5B	Z	-28.192	.5
27	MP5B	Mx	.019	.5
28	MP5B	X	0	3
29	MP5B	Z	-28.192	3
30	MP5B	Mx	.019	3
31	MP5B	X	0	.5
32	MP5B	Z	-28.192	.5
33	MP5B	Mx	-.014	.5
34	MP5B	X	0	3
35	MP5B	Z	-28.192	3
36	MP5B	Mx	-.014	3
37	MP3B	X	0	1
38	MP3B	Z	-14.875	1
39	MP3B	Mx	.001	1
40	MP3B	X	0	2.5
41	MP3B	Z	-14.875	2.5
42	MP3B	Mx	.001	2.5
43	MP4A	X	0	1
44	MP4A	Z	-15.137	1
45	MP4A	Mx	0	1
46	MP4A	X	0	2.5
47	MP4A	Z	-15.137	2.5
48	MP4A	Mx	0	2.5
49	MP4C	X	0	1
50	MP4C	Z	-6.707	1
51	MP4C	Mx	-.003	1
52	MP4C	X	0	2.5
53	MP4C	Z	-6.707	2.5
54	MP4C	Mx	-.003	2.5
55	MP3A	X	0	.5
56	MP3A	Z	-3.002	.5
57	MP3A	Mx	0	.5
58	MP3C	X	0	.5
59	MP3C	Z	-2.343	.5
60	MP3C	Mx	0	.5
61	MP5B	X	0	.5
62	MP5B	Z	-2.773	.5
63	MP5B	Mx	0	.5
64	O1	X	0	1



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	O1	Z	-25.548	1
66	O1	Mx	0	1
67	MP3A	X	0	2.5
68	MP3A	Z	-12.299	2.5
69	MP3A	Mx	.004	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-11.148	2.5
72	MP3B	Mx	.006	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-8.986	2.5
75	MP3C	Mx	-.007	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	-12.126	2.5
78	MP4A	Mx	.003	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	-10.538	2.5
81	MP4B	Mx	.006	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	-7.555	2.5
84	MP4C	Mx	-.006	2.5
85	MP1A	X	0	.5
86	MP1A	Z	-29.888	.5
87	MP1A	Mx	.005	.5
88	MP1A	X	0	3
89	MP1A	Z	-29.888	3
90	MP1A	Mx	.005	3
91	MP1B	X	0	.5
92	MP1B	Z	-28.904	.5
93	MP1B	Mx	.009	.5
94	MP1B	X	0	3
95	MP1B	Z	-28.904	3
96	MP1B	Mx	.009	3
97	MP1C	X	0	.5
98	MP1C	Z	-27.054	.5
99	MP1C	Mx	-.013	.5
100	MP1C	X	0	3
101	MP1C	Z	-27.054	3
102	MP1C	Mx	-.013	3
103	MP4B	X	0	.5
104	MP4B	Z	-28.904	.5
105	MP4B	Mx	.009	.5
106	MP4B	X	0	3
107	MP4B	Z	-28.904	3
108	MP4B	Mx	.009	3
109	MP5A	X	0	.5
110	MP5A	Z	-29.888	.5
111	MP5A	Mx	.005	.5
112	MP5A	X	0	3
113	MP5A	Z	-29.888	3
114	MP5A	Mx	.005	3
115	MP5C	X	0	.5
116	MP5C	Z	-27.054	.5
117	MP5C	Mx	-.013	.5
118	MP5C	X	0	3
119	MP5C	Z	-27.054	3
120	MP5C	Mx	-.013	3
121	MP2C	X	0	2.5
122	MP2C	Z	-2.769	2.5
123	MP2C	Mx	.001	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
124	MP2C	X	0	2.5
125	MP2C	Z	-2.769	2.5
126	MP2C	Mx	.001	2.5
127	MP5B	X	0	2.5
128	MP5B	Z	-6.876	2.5
129	MP5B	Mx	-.000597	2.5
130	MP5B	X	0	2.5
131	MP5B	Z	-6.876	2.5
132	MP5B	Mx	-.000597	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	15.361	.5
2	MP2A	Z	-26.606	.5
3	MP2A	Mx	-.029	.5
4	MP2A	X	15.361	3
5	MP2A	Z	-26.606	3
6	MP2A	Mx	-.029	3
7	MP2A	X	15.361	.5
8	MP2A	Z	-26.606	.5
9	MP2A	Mx	.013	.5
10	MP2A	X	15.361	3
11	MP2A	Z	-26.606	3
12	MP2A	Mx	.013	3
13	MP2C	X	13.101	.5
14	MP2C	Z	-22.691	.5
15	MP2C	Mx	-.02	.5
16	MP2C	X	13.101	3
17	MP2C	Z	-22.691	3
18	MP2C	Mx	-.02	3
19	MP2C	X	13.101	.5
20	MP2C	Z	-22.691	.5
21	MP2C	Mx	.007	.5
22	MP2C	X	13.101	3
23	MP2C	Z	-22.691	3
24	MP2C	Mx	.007	3
25	MP5B	X	12.362	.5
26	MP5B	Z	-21.412	.5
27	MP5B	Mx	.019	.5
28	MP5B	X	12.362	3
29	MP5B	Z	-21.412	3
30	MP5B	Mx	.019	3
31	MP5B	X	12.362	.5
32	MP5B	Z	-21.412	.5
33	MP5B	Mx	-.003	.5
34	MP5B	X	12.362	3
35	MP5B	Z	-21.412	3
36	MP5B	Mx	-.003	3
37	MP3B	X	5.773	1
38	MP3B	Z	-9.999	1
39	MP3B	Mx	.004	1
40	MP3B	X	5.773	2.5
41	MP3B	Z	-9.999	2.5
42	MP3B	Mx	.004	2.5
43	MP4A	X	6.482	1
44	MP4A	Z	-11.227	1
45	MP4A	Mx	-.003	1
46	MP4A	X	6.482	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP4A	Z	-11.227	2.5
48	MP4A	Mx	-.003	2.5
49	MP4C	X	5.018	1
50	MP4C	Z	-8.691	1
51	MP4C	Mx	-.004	1
52	MP4C	X	5.018	2.5
53	MP4C	Z	-8.691	2.5
54	MP4C	Mx	-.004	2.5
55	MP3A	X	1.534	.5
56	MP3A	Z	-2.658	.5
57	MP3A	Mx	0	.5
58	MP3C	X	1.319	.5
59	MP3C	Z	-2.285	.5
60	MP3C	Mx	0	.5
61	MP5B	X	1.205	.5
62	MP5B	Z	-2.087	.5
63	MP5B	Mx	0	.5
64	O1	X	13.022	1
65	O1	Z	-22.555	1
66	O1	Mx	0	1
67	MP3A	X	6.318	2.5
68	MP3A	Z	-10.943	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	4.662	2.5
71	MP3B	Z	-8.074	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	5.237	2.5
74	MP3C	Z	-9.071	2.5
75	MP3C	Mx	-.007	2.5
76	MP4A	X	6.296	2.5
77	MP4A	Z	-10.905	2.5
78	MP4A	Mx	-.002	2.5
79	MP4B	X	4.01	2.5
80	MP4B	Z	-6.945	2.5
81	MP4B	Mx	.006	2.5
82	MP4C	X	4.804	2.5
83	MP4C	Z	-8.32	2.5
84	MP4C	Mx	-.006	2.5
85	MP1A	X	15.088	.5
86	MP1A	Z	-26.134	.5
87	MP1A	Mx	-.003	.5
88	MP1A	X	15.088	3
89	MP1A	Z	-26.134	3
90	MP1A	Mx	-.003	3
91	MP1B	X	13.671	.5
92	MP1B	Z	-23.679	.5
93	MP1B	Mx	.013	.5
94	MP1B	X	13.671	3
95	MP1B	Z	-23.679	3
96	MP1B	Mx	.013	3
97	MP1C	X	14.163	.5
98	MP1C	Z	-24.532	.5
99	MP1C	Mx	-.011	.5
100	MP1C	X	14.163	3
101	MP1C	Z	-24.532	3
102	MP1C	Mx	-.011	3
103	MP4B	X	13.671	.5
104	MP4B	Z	-23.679	.5
105	MP4B	Mx	.013	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
106	MP4B	X	13.671	3
107	MP4B	Z	-23.679	3
108	MP4B	Mx	.013	3
109	MP5A	X	15.088	.5
110	MP5A	Z	-26.134	.5
111	MP5A	Mx	-.003	.5
112	MP5A	X	15.088	3
113	MP5A	Z	-26.134	3
114	MP5A	Mx	-.003	3
115	MP5C	X	14.163	.5
116	MP5C	Z	-24.532	.5
117	MP5C	Mx	-.011	.5
118	MP5C	X	14.163	3
119	MP5C	Z	-24.532	3
120	MP5C	Mx	-.011	3
121	MP2C	X	2.221	2.5
122	MP2C	Z	-3.848	2.5
123	MP2C	Mx	.002	2.5
124	MP2C	X	2.221	2.5
125	MP2C	Z	-3.848	2.5
126	MP2C	Mx	.002	2.5
127	MP5B	X	2.601	2.5
128	MP5B	Z	-4.505	2.5
129	MP5B	Mx	-.002	2.5
130	MP5B	X	2.601	2.5
131	MP5B	Z	-4.505	2.5
132	MP5B	Mx	-.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	18.884	.5
2	MP2A	Z	-10.903	.5
3	MP2A	Mx	-.018	.5
4	MP2A	X	18.884	3
5	MP2A	Z	-10.903	3
6	MP2A	Mx	-.018	3
7	MP2A	X	18.884	.5
8	MP2A	Z	-10.903	.5
9	MP2A	Mx	-.00081	.5
10	MP2A	X	18.884	3
11	MP2A	Z	-10.903	3
12	MP2A	Mx	-.00081	3
13	MP2C	X	18.772	.5
14	MP2C	Z	-10.838	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	18.772	3
17	MP2C	Z	-10.838	3
18	MP2C	Mx	-.016	3
19	MP2C	X	18.772	.5
20	MP2C	Z	-10.838	.5
21	MP2C	Mx	-.003	.5
22	MP2C	X	18.772	3
23	MP2C	Z	-10.838	3
24	MP2C	Mx	-.003	3
25	MP5B	X	17.729	.5
26	MP5B	Z	-10.236	.5
27	MP5B	Mx	.014	.5
28	MP5B	X	17.729	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP5B	Z	-10.236	3
30	MP5B	Mx	.014	3
31	MP5B	X	17.729	.5
32	MP5B	Z	-10.236	.5
33	MP5B	Mx	.005	.5
34	MP5B	X	17.729	3
35	MP5B	Z	-10.236	3
36	MP5B	Mx	.005	3
37	MP3B	X	6.462	1
38	MP3B	Z	-3.731	1
39	MP3B	Mx	.004	1
40	MP3B	X	6.462	2.5
41	MP3B	Z	-3.731	2.5
42	MP3B	Mx	.004	2.5
43	MP4A	X	7.463	1
44	MP4A	Z	-4.309	1
45	MP4A	Mx	-.004	1
46	MP4A	X	7.463	2.5
47	MP4A	Z	-4.309	2.5
48	MP4A	Mx	-.004	2.5
49	MP4C	X	12.228	1
50	MP4C	Z	-7.06	1
51	MP4C	Mx	-.002	1
52	MP4C	X	12.228	2.5
53	MP4C	Z	-7.06	2.5
54	MP4C	Mx	-.002	2.5
55	MP3A	X	2.401	.5
56	MP3A	Z	-1.386	.5
57	MP3A	Mx	0	.5
58	MP3C	X	2.599	.5
59	MP3C	Z	-1.501	.5
60	MP3C	Mx	0	.5
61	MP5B	X	2.029	.5
62	MP5B	Z	-1.171	.5
63	MP5B	Mx	0	.5
64	O1	X	20.659	1
65	O1	Z	-11.927	1
66	O1	Mx	0	1
67	MP3A	X	9.655	2.5
68	MP3A	Z	-5.574	2.5
69	MP3A	Mx	-.006	2.5
70	MP3B	X	7.782	2.5
71	MP3B	Z	-4.493	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	10.651	2.5
74	MP3C	Z	-6.149	2.5
75	MP3C	Mx	-.004	2.5
76	MP4A	X	9.127	2.5
77	MP4A	Z	-5.269	2.5
78	MP4A	Mx	-.006	2.5
79	MP4B	X	6.542	2.5
80	MP4B	Z	-3.777	2.5
81	MP4B	Mx	.006	2.5
82	MP4C	X	10.502	2.5
83	MP4C	Z	-6.063	2.5
84	MP4C	Mx	-.003	2.5
85	MP1A	X	25.031	.5
86	MP1A	Z	-14.452	.5
87	MP1A	Mx	-.009	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP1A	X	25.031	3
89	MP1A	Z	-14.452	3
90	MP1A	Mx	-.009	3
91	MP1B	X	23.429	.5
92	MP1B	Z	-13.527	.5
93	MP1B	Mx	.013	.5
94	MP1B	X	23.429	3
95	MP1B	Z	-13.527	3
96	MP1B	Mx	.013	3
97	MP1C	X	25.884	.5
98	MP1C	Z	-14.944	.5
99	MP1C	Mx	-.005	.5
100	MP1C	X	25.884	3
101	MP1C	Z	-14.944	3
102	MP1C	Mx	-.005	3
103	MP4B	X	23.429	.5
104	MP4B	Z	-13.527	.5
105	MP4B	Mx	.013	.5
106	MP4B	X	23.429	3
107	MP4B	Z	-13.527	3
108	MP4B	Mx	.013	3
109	MP5A	X	25.031	.5
110	MP5A	Z	-14.452	.5
111	MP5A	Mx	-.009	.5
112	MP5A	X	25.031	3
113	MP5A	Z	-14.452	3
114	MP5A	Mx	-.009	3
115	MP5C	X	25.884	.5
116	MP5C	Z	-14.944	.5
117	MP5C	Mx	-.005	.5
118	MP5C	X	25.884	3
119	MP5C	Z	-14.944	3
120	MP5C	Mx	-.005	3
121	MP2C	X	5.626	2.5
122	MP2C	Z	-3.248	2.5
123	MP2C	Mx	.001	2.5
124	MP2C	X	5.626	2.5
125	MP2C	Z	-3.248	2.5
126	MP2C	Mx	.001	2.5
127	MP5B	X	2.726	2.5
128	MP5B	Z	-1.574	2.5
129	MP5B	Mx	-.001	2.5
130	MP5B	X	2.726	2.5
131	MP5B	Z	-1.574	2.5
132	MP5B	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	17.347	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.009	.5
4	MP2A	X	17.347	3
5	MP2A	Z	0	3
6	MP2A	Mx	-.009	3
7	MP2A	X	17.347	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.009	.5
10	MP2A	X	17.347	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
11	MP2A	Z	0	3
12	MP2A	Mx	-.009	3
13	MP2C	X	19.413	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.01	.5
16	MP2C	X	19.413	3
17	MP2C	Z	0	3
18	MP2C	Mx	-.01	3
19	MP2C	X	19.413	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	-.01	.5
22	MP2C	X	19.413	3
23	MP2C	Z	0	3
24	MP2C	Mx	-.01	3
25	MP5B	X	19.686	.5
26	MP5B	Z	0	.5
27	MP5B	Mx	.008	.5
28	MP5B	X	19.686	3
29	MP5B	Z	0	3
30	MP5B	Mx	.008	3
31	MP5B	X	19.686	.5
32	MP5B	Z	0	.5
33	MP5B	Mx	.012	.5
34	MP5B	X	19.686	3
35	MP5B	Z	0	3
36	MP5B	Mx	.012	3
37	MP3B	X	6.707	1
38	MP3B	Z	0	1
39	MP3B	Mx	.003	1
40	MP3B	X	6.707	2.5
41	MP3B	Z	0	2.5
42	MP3B	Mx	.003	2.5
43	MP4A	X	6.444	1
44	MP4A	Z	0	1
45	MP4A	Mx	-.003	1
46	MP4A	X	6.444	2.5
47	MP4A	Z	0	2.5
48	MP4A	Mx	-.003	2.5
49	MP4C	X	14.875	1
50	MP4C	Z	0	1
51	MP4C	Mx	.001	1
52	MP4C	X	14.875	2.5
53	MP4C	Z	0	2.5
54	MP4C	Mx	.001	2.5
55	MP3A	X	2.41	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	0	.5
58	MP3C	X	3.069	.5
59	MP3C	Z	0	.5
60	MP3C	Mx	0	.5
61	MP5B	X	2.639	.5
62	MP5B	Z	0	.5
63	MP5B	Mx	0	.5
64	O1	X	21.167	1
65	O1	Z	0	1
66	O1	Mx	0	1
67	MP3A	X	9.323	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.007	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
70	MP3B	X	10.474	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.007	2.5
73	MP3C	X	12.636	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	.002	2.5
76	MP4A	X	8.02	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	-.006	2.5
79	MP4B	X	9.608	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	.006	2.5
82	MP4C	X	12.592	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	.002	2.5
85	MP1A	X	27.342	.5
86	MP1A	Z	0	.5
87	MP1A	Mx	-.013	.5
88	MP1A	X	27.342	3
89	MP1A	Z	0	3
90	MP1A	Mx	-.013	3
91	MP1B	X	28.327	.5
92	MP1B	Z	0	.5
93	MP1B	Mx	.011	.5
94	MP1B	X	28.327	3
95	MP1B	Z	0	3
96	MP1B	Mx	.011	3
97	MP1C	X	30.177	.5
98	MP1C	Z	0	.5
99	MP1C	Mx	.003	.5
100	MP1C	X	30.177	3
101	MP1C	Z	0	3
102	MP1C	Mx	.003	3
103	MP4B	X	28.327	.5
104	MP4B	Z	0	.5
105	MP4B	Mx	.011	.5
106	MP4B	X	28.327	3
107	MP4B	Z	0	3
108	MP4B	Mx	.011	3
109	MP5A	X	27.342	.5
110	MP5A	Z	0	.5
111	MP5A	Mx	-.013	.5
112	MP5A	X	27.342	3
113	MP5A	Z	0	3
114	MP5A	Mx	-.013	3
115	MP5C	X	30.177	.5
116	MP5C	Z	0	.5
117	MP5C	Mx	.003	.5
118	MP5C	X	30.177	3
119	MP5C	Z	0	3
120	MP5C	Mx	.003	3
121	MP2C	X	6.876	2.5
122	MP2C	Z	0	2.5
123	MP2C	Mx	-.000597	2.5
124	MP2C	X	6.876	2.5
125	MP2C	Z	0	2.5
126	MP2C	Mx	-.000597	2.5
127	MP5B	X	2.769	2.5
128	MP5B	Z	0	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
129	MP5B	Mx	- .001	2.5
130	MP5B	X	2.769	2.5
131	MP5B	Z	0	2.5
132	MP5B	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	18.884	.5
2	MP2A	Z	10.903	.5
3	MP2A	Mx	-.00081	.5
4	MP2A	X	18.884	3
5	MP2A	Z	10.903	3
6	MP2A	Mx	-.00081	3
7	MP2A	X	18.884	.5
8	MP2A	Z	10.903	.5
9	MP2A	Mx	-.018	.5
10	MP2A	X	18.884	3
11	MP2A	Z	10.903	3
12	MP2A	Mx	-.018	3
13	MP2C	X	18.772	.5
14	MP2C	Z	10.838	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	18.772	3
17	MP2C	Z	10.838	3
18	MP2C	Mx	-.003	3
19	MP2C	X	18.772	.5
20	MP2C	Z	10.838	.5
21	MP2C	Mx	-.016	.5
22	MP2C	X	18.772	3
23	MP2C	Z	10.838	3
24	MP2C	Mx	-.016	3
25	MP5B	X	20.051	.5
26	MP5B	Z	11.576	.5
27	MP5B	Mx	-.000123	.5
28	MP5B	X	20.051	3
29	MP5B	Z	11.576	3
30	MP5B	Mx	-.000123	3
31	MP5B	X	20.051	.5
32	MP5B	Z	11.576	.5
33	MP5B	Mx	.018	.5
34	MP5B	X	20.051	3
35	MP5B	Z	11.576	3
36	MP5B	Mx	.018	3
37	MP3B	X	8.691	1
38	MP3B	Z	5.018	1
39	MP3B	Mx	.004	1
40	MP3B	X	8.691	2.5
41	MP3B	Z	5.018	2.5
42	MP3B	Mx	.004	2.5
43	MP4A	X	7.463	1
44	MP4A	Z	4.309	1
45	MP4A	Mx	-.004	1
46	MP4A	X	7.463	2.5
47	MP4A	Z	4.309	2.5
48	MP4A	Mx	-.004	2.5
49	MP4C	X	9.999	1
50	MP4C	Z	5.773	1
51	MP4C	Mx	.004	1



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
52	MP4C	X	9.999	2.5
53	MP4C	Z	5.773	2.5
54	MP4C	Mx	.004	2.5
55	MP3A	X	2.029	.5
56	MP3A	Z	1.171	.5
57	MP3A	Mx	0	.5
58	MP3C	X	2.401	.5
59	MP3C	Z	1.386	.5
60	MP3C	Mx	0	.5
61	MP5B	X	2.599	.5
62	MP5B	Z	1.501	.5
63	MP5B	Mx	0	.5
64	O1	X	17.902	1
65	O1	Z	10.335	1
66	O1	Mx	0	1
67	MP3A	X	7.782	2.5
68	MP3A	Z	4.493	2.5
69	MP3A	Mx	-.007	2.5
70	MP3B	X	10.651	2.5
71	MP3B	Z	6.149	2.5
72	MP3B	Mx	.004	2.5
73	MP3C	X	9.655	2.5
74	MP3C	Z	5.574	2.5
75	MP3C	Mx	.006	2.5
76	MP4A	X	6.542	2.5
77	MP4A	Z	3.777	2.5
78	MP4A	Mx	-.006	2.5
79	MP4B	X	10.502	2.5
80	MP4B	Z	6.063	2.5
81	MP4B	Mx	.003	2.5
82	MP4C	X	9.127	2.5
83	MP4C	Z	5.269	2.5
84	MP4C	Mx	.006	2.5
85	MP1A	X	23.429	.5
86	MP1A	Z	13.527	.5
87	MP1A	Mx	-.013	.5
88	MP1A	X	23.429	3
89	MP1A	Z	13.527	3
90	MP1A	Mx	-.013	3
91	MP1B	X	25.884	.5
92	MP1B	Z	14.944	.5
93	MP1B	Mx	.005	.5
94	MP1B	X	25.884	3
95	MP1B	Z	14.944	3
96	MP1B	Mx	.005	3
97	MP1C	X	25.031	.5
98	MP1C	Z	14.452	.5
99	MP1C	Mx	.009	.5
100	MP1C	X	25.031	3
101	MP1C	Z	14.452	3
102	MP1C	Mx	.009	3
103	MP4B	X	25.884	.5
104	MP4B	Z	14.944	.5
105	MP4B	Mx	.005	.5
106	MP4B	X	25.884	3
107	MP4B	Z	14.944	3
108	MP4B	Mx	.005	3
109	MP5A	X	23.429	.5
110	MP5A	Z	13.527	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
111	MP5A	Mx	-.013	.5
112	MP5A	X	23.429	3
113	MP5A	Z	13.527	3
114	MP5A	Mx	-.013	3
115	MP5C	X	25.031	.5
116	MP5C	Z	14.452	.5
117	MP5C	Mx	.009	.5
118	MP5C	X	25.031	3
119	MP5C	Z	14.452	3
120	MP5C	Mx	.009	3
121	MP2C	X	4.505	2.5
122	MP2C	Z	2.601	2.5
123	MP2C	Mx	-.002	2.5
124	MP2C	X	4.505	2.5
125	MP2C	Z	2.601	2.5
126	MP2C	Mx	-.002	2.5
127	MP5B	X	3.848	2.5
128	MP5B	Z	2.221	2.5
129	MP5B	Mx	-.002	2.5
130	MP5B	X	3.848	2.5
131	MP5B	Z	2.221	2.5
132	MP5B	Mx	-.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	15.361	.5
2	MP2A	Z	26.606	.5
3	MP2A	Mx	.013	.5
4	MP2A	X	15.361	3
5	MP2A	Z	26.606	3
6	MP2A	Mx	.013	3
7	MP2A	X	15.361	.5
8	MP2A	Z	26.606	.5
9	MP2A	Mx	-.029	.5
10	MP2A	X	15.361	3
11	MP2A	Z	26.606	3
12	MP2A	Mx	-.029	3
13	MP2C	X	13.101	.5
14	MP2C	Z	22.691	.5
15	MP2C	Mx	.007	.5
16	MP2C	X	13.101	3
17	MP2C	Z	22.691	3
18	MP2C	Mx	.007	3
19	MP2C	X	13.101	.5
20	MP2C	Z	22.691	.5
21	MP2C	Mx	-.02	.5
22	MP2C	X	13.101	3
23	MP2C	Z	22.691	3
24	MP2C	Mx	-.02	3
25	MP5B	X	13.703	.5
26	MP5B	Z	23.734	.5
27	MP5B	Mx	-.011	.5
28	MP5B	X	13.703	3
29	MP5B	Z	23.734	3
30	MP5B	Mx	-.011	3
31	MP5B	X	13.703	.5
32	MP5B	Z	23.734	.5
33	MP5B	Mx	.02	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP5B	X	13.703	3
35	MP5B	Z	23.734	3
36	MP5B	Mx	.02	3
37	MP3B	X	7.06	1
38	MP3B	Z	12.228	1
39	MP3B	Mx	.002	1
40	MP3B	X	7.06	2.5
41	MP3B	Z	12.228	2.5
42	MP3B	Mx	.002	2.5
43	MP4A	X	6.482	1
44	MP4A	Z	11.227	1
45	MP4A	Mx	-.003	1
46	MP4A	X	6.482	2.5
47	MP4A	Z	11.227	2.5
48	MP4A	Mx	-.003	2.5
49	MP4C	X	3.731	1
50	MP4C	Z	6.462	1
51	MP4C	Mx	.004	1
52	MP4C	X	3.731	2.5
53	MP4C	Z	6.462	2.5
54	MP4C	Mx	.004	2.5
55	MP3A	X	1.319	.5
56	MP3A	Z	2.285	.5
57	MP3A	Mx	0	.5
58	MP3C	X	1.205	.5
59	MP3C	Z	2.087	.5
60	MP3C	Mx	0	.5
61	MP5B	X	1.534	.5
62	MP5B	Z	2.658	.5
63	MP5B	Mx	0	.5
64	O1	X	11.431	1
65	O1	Z	19.799	1
66	O1	Mx	0	1
67	MP3A	X	5.237	2.5
68	MP3A	Z	9.071	2.5
69	MP3A	Mx	-.007	2.5
70	MP3B	X	6.318	2.5
71	MP3B	Z	10.943	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	4.662	2.5
74	MP3C	Z	8.074	2.5
75	MP3C	Mx	.007	2.5
76	MP4A	X	4.804	2.5
77	MP4A	Z	8.32	2.5
78	MP4A	Mx	-.006	2.5
79	MP4B	X	6.296	2.5
80	MP4B	Z	10.905	2.5
81	MP4B	Mx	-.002	2.5
82	MP4C	X	4.01	2.5
83	MP4C	Z	6.945	2.5
84	MP4C	Mx	.006	2.5
85	MP1A	X	14.163	.5
86	MP1A	Z	24.532	.5
87	MP1A	Mx	-.011	.5
88	MP1A	X	14.163	3
89	MP1A	Z	24.532	3
90	MP1A	Mx	-.011	3
91	MP1B	X	15.088	.5
92	MP1B	Z	26.134	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP1B	Mx	-.003	.5
94	MP1B	X	15.088	3
95	MP1B	Z	26.134	3
96	MP1B	Mx	-.003	3
97	MP1C	X	13.671	.5
98	MP1C	Z	23.679	.5
99	MP1C	Mx	.013	.5
100	MP1C	X	13.671	3
101	MP1C	Z	23.679	3
102	MP1C	Mx	.013	3
103	MP4B	X	15.088	.5
104	MP4B	Z	26.134	.5
105	MP4B	Mx	-.003	.5
106	MP4B	X	15.088	3
107	MP4B	Z	26.134	3
108	MP4B	Mx	-.003	3
109	MP5A	X	14.163	.5
110	MP5A	Z	24.532	.5
111	MP5A	Mx	-.011	.5
112	MP5A	X	14.163	3
113	MP5A	Z	24.532	3
114	MP5A	Mx	-.011	3
115	MP5C	X	13.671	.5
116	MP5C	Z	23.679	.5
117	MP5C	Mx	.013	.5
118	MP5C	X	13.671	3
119	MP5C	Z	23.679	3
120	MP5C	Mx	.013	3
121	MP2C	X	1.574	2.5
122	MP2C	Z	2.726	2.5
123	MP2C	Mx	-.001	2.5
124	MP2C	X	1.574	2.5
125	MP2C	Z	2.726	2.5
126	MP2C	Mx	-.001	2.5
127	MP5B	X	3.248	2.5
128	MP5B	Z	5.626	2.5
129	MP5B	Mx	-.001	2.5
130	MP5B	X	3.248	2.5
131	MP5B	Z	5.626	2.5
132	MP5B	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.5
2	MP2A	Z	35.181	.5
3	MP2A	Mx	.028	.5
4	MP2A	X	0	3
5	MP2A	Z	35.181	3
6	MP2A	Mx	.028	3
7	MP2A	X	0	.5
8	MP2A	Z	35.181	.5
9	MP2A	Mx	-.028	.5
10	MP2A	X	0	3
11	MP2A	Z	35.181	3
12	MP2A	Mx	-.028	3
13	MP2C	X	0	.5
14	MP2C	Z	28.465	.5
15	MP2C	Mx	.017	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
16	MP2C	X	0	3
17	MP2C	Z	28.465	3
18	MP2C	Mx	.017	3
19	MP2C	X	0	.5
20	MP2C	Z	28.465	.5
21	MP2C	Mx	-.017	.5
22	MP2C	X	0	3
23	MP2C	Z	28.465	3
24	MP2C	Mx	-.017	3
25	MP5B	X	0	.5
26	MP5B	Z	28.192	.5
27	MP5B	Mx	-.019	.5
28	MP5B	X	0	3
29	MP5B	Z	28.192	3
30	MP5B	Mx	-.019	3
31	MP5B	X	0	.5
32	MP5B	Z	28.192	.5
33	MP5B	Mx	.014	.5
34	MP5B	X	0	3
35	MP5B	Z	28.192	3
36	MP5B	Mx	.014	3
37	MP3B	X	0	1
38	MP3B	Z	14.875	1
39	MP3B	Mx	-.001	1
40	MP3B	X	0	2.5
41	MP3B	Z	14.875	2.5
42	MP3B	Mx	-.001	2.5
43	MP4A	X	0	1
44	MP4A	Z	15.137	1
45	MP4A	Mx	0	1
46	MP4A	X	0	2.5
47	MP4A	Z	15.137	2.5
48	MP4A	Mx	0	2.5
49	MP4C	X	0	1
50	MP4C	Z	6.707	1
51	MP4C	Mx	.003	1
52	MP4C	X	0	2.5
53	MP4C	Z	6.707	2.5
54	MP4C	Mx	.003	2.5
55	MP3A	X	0	.5
56	MP3A	Z	3.002	.5
57	MP3A	Mx	0	.5
58	MP3C	X	0	.5
59	MP3C	Z	2.343	.5
60	MP3C	Mx	0	.5
61	MP5B	X	0	.5
62	MP5B	Z	2.773	.5
63	MP5B	Mx	0	.5
64	O1	X	0	1
65	O1	Z	25.548	1
66	O1	Mx	0	1
67	MP3A	X	0	2.5
68	MP3A	Z	12.299	2.5
69	MP3A	Mx	-.004	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	11.148	2.5
72	MP3B	Mx	-.006	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	8.986	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP3C	Mx	.007	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	12.126	2.5
78	MP4A	Mx	-.003	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	10.538	2.5
81	MP4B	Mx	-.006	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	7.555	2.5
84	MP4C	Mx	.006	2.5
85	MP1A	X	0	.5
86	MP1A	Z	29.888	.5
87	MP1A	Mx	-.005	.5
88	MP1A	X	0	3
89	MP1A	Z	29.888	3
90	MP1A	Mx	-.005	3
91	MP1B	X	0	.5
92	MP1B	Z	28.904	.5
93	MP1B	Mx	-.009	.5
94	MP1B	X	0	3
95	MP1B	Z	28.904	3
96	MP1B	Mx	-.009	3
97	MP1C	X	0	.5
98	MP1C	Z	27.054	.5
99	MP1C	Mx	.013	.5
100	MP1C	X	0	3
101	MP1C	Z	27.054	3
102	MP1C	Mx	.013	3
103	MP4B	X	0	.5
104	MP4B	Z	28.904	.5
105	MP4B	Mx	-.009	.5
106	MP4B	X	0	3
107	MP4B	Z	28.904	3
108	MP4B	Mx	-.009	3
109	MP5A	X	0	.5
110	MP5A	Z	29.888	.5
111	MP5A	Mx	-.005	.5
112	MP5A	X	0	3
113	MP5A	Z	29.888	3
114	MP5A	Mx	-.005	3
115	MP5C	X	0	.5
116	MP5C	Z	27.054	.5
117	MP5C	Mx	.013	.5
118	MP5C	X	0	3
119	MP5C	Z	27.054	3
120	MP5C	Mx	.013	3
121	MP2C	X	0	2.5
122	MP2C	Z	2.769	2.5
123	MP2C	Mx	-.001	2.5
124	MP2C	X	0	2.5
125	MP2C	Z	2.769	2.5
126	MP2C	Mx	-.001	2.5
127	MP5B	X	0	2.5
128	MP5B	Z	6.876	2.5
129	MP5B	Mx	.000597	2.5
130	MP5B	X	0	2.5
131	MP5B	Z	6.876	2.5
132	MP5B	Mx	.000597	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb. k-ft]	Location[ft.%]
1	MP2A	X	-15.361	.5
2	MP2A	Z	26.606	.5
3	MP2A	Mx	.029	.5
4	MP2A	X	-15.361	3
5	MP2A	Z	26.606	3
6	MP2A	Mx	.029	3
7	MP2A	X	-15.361	.5
8	MP2A	Z	26.606	.5
9	MP2A	Mx	-.013	.5
10	MP2A	X	-15.361	3
11	MP2A	Z	26.606	3
12	MP2A	Mx	-.013	3
13	MP2C	X	-13.101	.5
14	MP2C	Z	22.691	.5
15	MP2C	Mx	.02	.5
16	MP2C	X	-13.101	3
17	MP2C	Z	22.691	3
18	MP2C	Mx	.02	3
19	MP2C	X	-13.101	.5
20	MP2C	Z	22.691	.5
21	MP2C	Mx	-.007	.5
22	MP2C	X	-13.101	3
23	MP2C	Z	22.691	3
24	MP2C	Mx	-.007	3
25	MP5B	X	-12.362	.5
26	MP5B	Z	21.412	.5
27	MP5B	Mx	-.019	.5
28	MP5B	X	-12.362	3
29	MP5B	Z	21.412	3
30	MP5B	Mx	-.019	3
31	MP5B	X	-12.362	.5
32	MP5B	Z	21.412	.5
33	MP5B	Mx	.003	.5
34	MP5B	X	-12.362	3
35	MP5B	Z	21.412	3
36	MP5B	Mx	.003	3
37	MP3B	X	-5.773	1
38	MP3B	Z	9.999	1
39	MP3B	Mx	-.004	1
40	MP3B	X	-5.773	2.5
41	MP3B	Z	9.999	2.5
42	MP3B	Mx	-.004	2.5
43	MP4A	X	-6.482	1
44	MP4A	Z	11.227	1
45	MP4A	Mx	.003	1
46	MP4A	X	-6.482	2.5
47	MP4A	Z	11.227	2.5
48	MP4A	Mx	.003	2.5
49	MP4C	X	-5.018	1
50	MP4C	Z	8.691	1
51	MP4C	Mx	.004	1
52	MP4C	X	-5.018	2.5
53	MP4C	Z	8.691	2.5
54	MP4C	Mx	.004	2.5
55	MP3A	X	-1.534	.5
56	MP3A	Z	2.658	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-1.319	.5
59	MP3C	Z	2.285	.5

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
60	MP3C	Mx	0	.5
61	MP5B	X	-1.205	.5
62	MP5B	Z	2.087	.5
63	MP5B	Mx	0	.5
64	O1	X	-13.022	1
65	O1	Z	22.555	1
66	O1	Mx	0	1
67	MP3A	X	-6.318	2.5
68	MP3A	Z	10.943	2.5
69	MP3A	Mx	.002	2.5
70	MP3B	X	-4.662	2.5
71	MP3B	Z	8.074	2.5
72	MP3B	Mx	-.007	2.5
73	MP3C	X	-5.237	2.5
74	MP3C	Z	9.071	2.5
75	MP3C	Mx	.007	2.5
76	MP4A	X	-6.296	2.5
77	MP4A	Z	10.905	2.5
78	MP4A	Mx	.002	2.5
79	MP4B	X	-4.01	2.5
80	MP4B	Z	6.945	2.5
81	MP4B	Mx	-.006	2.5
82	MP4C	X	-4.804	2.5
83	MP4C	Z	8.32	2.5
84	MP4C	Mx	.006	2.5
85	MP1A	X	-15.088	.5
86	MP1A	Z	26.134	.5
87	MP1A	Mx	.003	.5
88	MP1A	X	-15.088	3
89	MP1A	Z	26.134	3
90	MP1A	Mx	.003	3
91	MP1B	X	-13.671	.5
92	MP1B	Z	23.679	.5
93	MP1B	Mx	-.013	.5
94	MP1B	X	-13.671	3
95	MP1B	Z	23.679	3
96	MP1B	Mx	-.013	3
97	MP1C	X	-14.163	.5
98	MP1C	Z	24.532	.5
99	MP1C	Mx	.011	.5
100	MP1C	X	-14.163	3
101	MP1C	Z	24.532	3
102	MP1C	Mx	.011	3
103	MP4B	X	-13.671	.5
104	MP4B	Z	23.679	.5
105	MP4B	Mx	-.013	.5
106	MP4B	X	-13.671	3
107	MP4B	Z	23.679	3
108	MP4B	Mx	-.013	3
109	MP5A	X	-15.088	.5
110	MP5A	Z	26.134	.5
111	MP5A	Mx	.003	.5
112	MP5A	X	-15.088	3
113	MP5A	Z	26.134	3
114	MP5A	Mx	.003	3
115	MP5C	X	-14.163	.5
116	MP5C	Z	24.532	.5
117	MP5C	Mx	.011	.5
118	MP5C	X	-14.163	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP5C	Z	24.532	3
120	MP5C	Mx	.011	3
121	MP2C	X	-2.221	2.5
122	MP2C	Z	3.848	2.5
123	MP2C	Mx	-.002	2.5
124	MP2C	X	-2.221	2.5
125	MP2C	Z	3.848	2.5
126	MP2C	Mx	-.002	2.5
127	MP5B	X	-2.601	2.5
128	MP5B	Z	4.505	2.5
129	MP5B	Mx	.002	2.5
130	MP5B	X	-2.601	2.5
131	MP5B	Z	4.505	2.5
132	MP5B	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-18.884	.5
2	MP2A	Z	10.903	.5
3	MP2A	Mx	.018	.5
4	MP2A	X	-18.884	3
5	MP2A	Z	10.903	3
6	MP2A	Mx	.018	3
7	MP2A	X	-18.884	.5
8	MP2A	Z	10.903	.5
9	MP2A	Mx	.00081	.5
10	MP2A	X	-18.884	3
11	MP2A	Z	10.903	3
12	MP2A	Mx	.00081	3
13	MP2C	X	-18.772	.5
14	MP2C	Z	10.838	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	-18.772	3
17	MP2C	Z	10.838	3
18	MP2C	Mx	.016	3
19	MP2C	X	-18.772	.5
20	MP2C	Z	10.838	.5
21	MP2C	Mx	.003	.5
22	MP2C	X	-18.772	3
23	MP2C	Z	10.838	3
24	MP2C	Mx	.003	3
25	MP5B	X	-17.729	.5
26	MP5B	Z	10.236	.5
27	MP5B	Mx	-.014	.5
28	MP5B	X	-17.729	3
29	MP5B	Z	10.236	3
30	MP5B	Mx	-.014	3
31	MP5B	X	-17.729	.5
32	MP5B	Z	10.236	.5
33	MP5B	Mx	-.005	.5
34	MP5B	X	-17.729	3
35	MP5B	Z	10.236	3
36	MP5B	Mx	-.005	3
37	MP3B	X	-6.462	1
38	MP3B	Z	3.731	1
39	MP3B	Mx	-.004	1
40	MP3B	X	-6.462	2.5
41	MP3B	Z	3.731	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
42	MP3B	Mx	-.004	2.5
43	MP4A	X	-7.463	1
44	MP4A	Z	4.309	1
45	MP4A	Mx	.004	1
46	MP4A	X	-7.463	2.5
47	MP4A	Z	4.309	2.5
48	MP4A	Mx	.004	2.5
49	MP4C	X	-12.228	1
50	MP4C	Z	7.06	1
51	MP4C	Mx	.002	1
52	MP4C	X	-12.228	2.5
53	MP4C	Z	7.06	2.5
54	MP4C	Mx	.002	2.5
55	MP3A	X	-2.401	.5
56	MP3A	Z	1.386	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-2.599	.5
59	MP3C	Z	1.501	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-2.029	.5
62	MP5B	Z	1.171	.5
63	MP5B	Mx	0	.5
64	O1	X	-20.659	1
65	O1	Z	11.927	1
66	O1	Mx	0	1
67	MP3A	X	-9.655	2.5
68	MP3A	Z	5.574	2.5
69	MP3A	Mx	.006	2.5
70	MP3B	X	-7.782	2.5
71	MP3B	Z	4.493	2.5
72	MP3B	Mx	-.007	2.5
73	MP3C	X	-10.651	2.5
74	MP3C	Z	6.149	2.5
75	MP3C	Mx	.004	2.5
76	MP4A	X	-9.127	2.5
77	MP4A	Z	5.269	2.5
78	MP4A	Mx	.006	2.5
79	MP4B	X	-6.542	2.5
80	MP4B	Z	3.777	2.5
81	MP4B	Mx	-.006	2.5
82	MP4C	X	-10.502	2.5
83	MP4C	Z	6.063	2.5
84	MP4C	Mx	.003	2.5
85	MP1A	X	-25.031	.5
86	MP1A	Z	14.452	.5
87	MP1A	Mx	.009	.5
88	MP1A	X	-25.031	3
89	MP1A	Z	14.452	3
90	MP1A	Mx	.009	3
91	MP1B	X	-23.429	.5
92	MP1B	Z	13.527	.5
93	MP1B	Mx	-.013	.5
94	MP1B	X	-23.429	3
95	MP1B	Z	13.527	3
96	MP1B	Mx	-.013	3
97	MP1C	X	-25.884	.5
98	MP1C	Z	14.944	.5
99	MP1C	Mx	.005	.5
100	MP1C	X	-25.884	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
101	MP1C	Z	14.944	3
102	MP1C	Mx	.005	3
103	MP4B	X	-23.429	.5
104	MP4B	Z	13.527	.5
105	MP4B	Mx	-.013	.5
106	MP4B	X	-23.429	3
107	MP4B	Z	13.527	3
108	MP4B	Mx	-.013	3
109	MP5A	X	-25.031	.5
110	MP5A	Z	14.452	.5
111	MP5A	Mx	.009	.5
112	MP5A	X	-25.031	3
113	MP5A	Z	14.452	3
114	MP5A	Mx	.009	3
115	MP5C	X	-25.884	.5
116	MP5C	Z	14.944	.5
117	MP5C	Mx	.005	.5
118	MP5C	X	-25.884	3
119	MP5C	Z	14.944	3
120	MP5C	Mx	.005	3
121	MP2C	X	-5.626	2.5
122	MP2C	Z	3.248	2.5
123	MP2C	Mx	-.001	2.5
124	MP2C	X	-5.626	2.5
125	MP2C	Z	3.248	2.5
126	MP2C	Mx	-.001	2.5
127	MP5B	X	-2.726	2.5
128	MP5B	Z	1.574	2.5
129	MP5B	Mx	.001	2.5
130	MP5B	X	-2.726	2.5
131	MP5B	Z	1.574	2.5
132	MP5B	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-17.347	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.009	.5
4	MP2A	X	-17.347	3
5	MP2A	Z	0	3
6	MP2A	Mx	.009	3
7	MP2A	X	-17.347	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.009	.5
10	MP2A	X	-17.347	3
11	MP2A	Z	0	3
12	MP2A	Mx	.009	3
13	MP2C	X	-19.413	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.01	.5
16	MP2C	X	-19.413	3
17	MP2C	Z	0	3
18	MP2C	Mx	.01	3
19	MP2C	X	-19.413	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	.01	.5
22	MP2C	X	-19.413	3
23	MP2C	Z	0	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude/lb.k-ft	Location(ft.%)
24	MP2C	Mx	.01	3
25	MP5B	X	-19.686	.5
26	MP5B	Z	0	.5
27	MP5B	Mx	-.008	.5
28	MP5B	X	-19.686	3
29	MP5B	Z	0	3
30	MP5B	Mx	-.008	3
31	MP5B	X	-19.686	.5
32	MP5B	Z	0	.5
33	MP5B	Mx	-.012	.5
34	MP5B	X	-19.686	3
35	MP5B	Z	0	3
36	MP5B	Mx	-.012	3
37	MP3B	X	-6.707	1
38	MP3B	Z	0	1
39	MP3B	Mx	-.003	1
40	MP3B	X	-6.707	2.5
41	MP3B	Z	0	2.5
42	MP3B	Mx	-.003	2.5
43	MP4A	X	-6.444	1
44	MP4A	Z	0	1
45	MP4A	Mx	.003	1
46	MP4A	X	-6.444	2.5
47	MP4A	Z	0	2.5
48	MP4A	Mx	.003	2.5
49	MP4C	X	-14.875	1
50	MP4C	Z	0	1
51	MP4C	Mx	-.001	1
52	MP4C	X	-14.875	2.5
53	MP4C	Z	0	2.5
54	MP4C	Mx	-.001	2.5
55	MP3A	X	-2.41	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-3.069	.5
59	MP3C	Z	0	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-2.639	.5
62	MP5B	Z	0	.5
63	MP5B	Mx	0	.5
64	O1	X	-21.167	1
65	O1	Z	0	1
66	O1	Mx	0	1
67	MP3A	X	-9.323	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	-10.474	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.007	2.5
73	MP3C	X	-12.636	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	-.002	2.5
76	MP4A	X	-8.02	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	.006	2.5
79	MP4B	X	-9.608	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	-.006	2.5
82	MP4C	X	-12.592	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP4C	Z	0	2.5
84	MP4C	Mx	-.002	2.5
85	MP1A	X	-27.342	.5
86	MP1A	Z	0	.5
87	MP1A	Mx	.013	.5
88	MP1A	X	-27.342	3
89	MP1A	Z	0	3
90	MP1A	Mx	.013	3
91	MP1B	X	-28.327	.5
92	MP1B	Z	0	.5
93	MP1B	Mx	-.011	.5
94	MP1B	X	-28.327	3
95	MP1B	Z	0	3
96	MP1B	Mx	-.011	3
97	MP1C	X	-30.177	.5
98	MP1C	Z	0	.5
99	MP1C	Mx	-.003	.5
100	MP1C	X	-30.177	3
101	MP1C	Z	0	3
102	MP1C	Mx	-.003	3
103	MP4B	X	-28.327	.5
104	MP4B	Z	0	.5
105	MP4B	Mx	-.011	.5
106	MP4B	X	-28.327	3
107	MP4B	Z	0	3
108	MP4B	Mx	-.011	3
109	MP5A	X	-27.342	.5
110	MP5A	Z	0	.5
111	MP5A	Mx	.013	.5
112	MP5A	X	-27.342	3
113	MP5A	Z	0	3
114	MP5A	Mx	.013	3
115	MP5C	X	-30.177	.5
116	MP5C	Z	0	.5
117	MP5C	Mx	-.003	.5
118	MP5C	X	-30.177	3
119	MP5C	Z	0	3
120	MP5C	Mx	-.003	3
121	MP2C	X	-6.876	2.5
122	MP2C	Z	0	2.5
123	MP2C	Mx	.000597	2.5
124	MP2C	X	-6.876	2.5
125	MP2C	Z	0	2.5
126	MP2C	Mx	.000597	2.5
127	MP5B	X	-2.769	2.5
128	MP5B	Z	0	2.5
129	MP5B	Mx	.001	2.5
130	MP5B	X	-2.769	2.5
131	MP5B	Z	0	2.5
132	MP5B	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-18.884	.5
2	MP2A	Z	-10.903	.5
3	MP2A	Mx	.00081	.5
4	MP2A	X	-18.884	3
5	MP2A	Z	-10.903	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP2A	Mx	.00081	3
7	MP2A	X	-18.884	.5
8	MP2A	Z	-10.903	.5
9	MP2A	Mx	.018	.5
10	MP2A	X	-18.884	3
11	MP2A	Z	-10.903	3
12	MP2A	Mx	.018	3
13	MP2C	X	-18.772	.5
14	MP2C	Z	-10.838	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	-18.772	3
17	MP2C	Z	-10.838	3
18	MP2C	Mx	.003	3
19	MP2C	X	-18.772	.5
20	MP2C	Z	-10.838	.5
21	MP2C	Mx	.016	.5
22	MP2C	X	-18.772	3
23	MP2C	Z	-10.838	3
24	MP2C	Mx	.016	3
25	MP5B	X	-20.051	.5
26	MP5B	Z	-11.576	.5
27	MP5B	Mx	.000123	.5
28	MP5B	X	-20.051	3
29	MP5B	Z	-11.576	3
30	MP5B	Mx	.000123	3
31	MP5B	X	-20.051	.5
32	MP5B	Z	-11.576	.5
33	MP5B	Mx	-.018	.5
34	MP5B	X	-20.051	3
35	MP5B	Z	-11.576	3
36	MP5B	Mx	-.018	3
37	MP3B	X	-8.691	1
38	MP3B	Z	-5.018	1
39	MP3B	Mx	-.004	1
40	MP3B	X	-8.691	2.5
41	MP3B	Z	-5.018	2.5
42	MP3B	Mx	-.004	2.5
43	MP4A	X	-7.463	1
44	MP4A	Z	-4.309	1
45	MP4A	Mx	.004	1
46	MP4A	X	-7.463	2.5
47	MP4A	Z	-4.309	2.5
48	MP4A	Mx	.004	2.5
49	MP4C	X	-9.999	1
50	MP4C	Z	-5.773	1
51	MP4C	Mx	-.004	1
52	MP4C	X	-9.999	2.5
53	MP4C	Z	-5.773	2.5
54	MP4C	Mx	-.004	2.5
55	MP3A	X	-2.029	.5
56	MP3A	Z	-1.171	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-2.401	.5
59	MP3C	Z	-1.386	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-2.599	.5
62	MP5B	Z	-1.501	.5
63	MP5B	Mx	0	.5
64	O1	X	-17.902	1



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	O1	Z	-10.335	1
66	O1	Mx	0	1
67	MP3A	X	-7.782	2.5
68	MP3A	Z	-4.493	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	-10.651	2.5
71	MP3B	Z	-6.149	2.5
72	MP3B	Mx	-.004	2.5
73	MP3C	X	-9.655	2.5
74	MP3C	Z	-5.574	2.5
75	MP3C	Mx	-.006	2.5
76	MP4A	X	-6.542	2.5
77	MP4A	Z	-3.777	2.5
78	MP4A	Mx	.006	2.5
79	MP4B	X	-10.502	2.5
80	MP4B	Z	-6.063	2.5
81	MP4B	Mx	-.003	2.5
82	MP4C	X	-9.127	2.5
83	MP4C	Z	-5.269	2.5
84	MP4C	Mx	-.006	2.5
85	MP1A	X	-23.429	.5
86	MP1A	Z	-13.527	.5
87	MP1A	Mx	.013	.5
88	MP1A	X	-23.429	3
89	MP1A	Z	-13.527	3
90	MP1A	Mx	.013	3
91	MP1B	X	-25.884	.5
92	MP1B	Z	-14.944	.5
93	MP1B	Mx	-.005	.5
94	MP1B	X	-25.884	3
95	MP1B	Z	-14.944	3
96	MP1B	Mx	-.005	3
97	MP1C	X	-25.031	.5
98	MP1C	Z	-14.452	.5
99	MP1C	Mx	-.009	.5
100	MP1C	X	-25.031	3
101	MP1C	Z	-14.452	3
102	MP1C	Mx	-.009	3
103	MP4B	X	-25.884	.5
104	MP4B	Z	-14.944	.5
105	MP4B	Mx	-.005	.5
106	MP4B	X	-25.884	3
107	MP4B	Z	-14.944	3
108	MP4B	Mx	-.005	3
109	MP5A	X	-23.429	.5
110	MP5A	Z	-13.527	.5
111	MP5A	Mx	.013	.5
112	MP5A	X	-23.429	3
113	MP5A	Z	-13.527	3
114	MP5A	Mx	.013	3
115	MP5C	X	-25.031	.5
116	MP5C	Z	-14.452	.5
117	MP5C	Mx	-.009	.5
118	MP5C	X	-25.031	3
119	MP5C	Z	-14.452	3
120	MP5C	Mx	-.009	3
121	MP2C	X	-4.505	2.5
122	MP2C	Z	-2.601	2.5
123	MP2C	Mx	.002	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
124	MP2C	X	-4.505	2.5
125	MP2C	Z	-2.601	2.5
126	MP2C	Mx	.002	2.5
127	MP5B	X	-3.848	2.5
128	MP5B	Z	-2.221	2.5
129	MP5B	Mx	.002	2.5
130	MP5B	X	-3.848	2.5
131	MP5B	Z	-2.221	2.5
132	MP5B	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-15.361	.5
2	MP2A	Z	-26.606	.5
3	MP2A	Mx	-.013	.5
4	MP2A	X	-15.361	3
5	MP2A	Z	-26.606	3
6	MP2A	Mx	-.013	3
7	MP2A	X	-15.361	.5
8	MP2A	Z	-26.606	.5
9	MP2A	Mx	.029	.5
10	MP2A	X	-15.361	3
11	MP2A	Z	-26.606	3
12	MP2A	Mx	.029	3
13	MP2C	X	-13.101	.5
14	MP2C	Z	-22.691	.5
15	MP2C	Mx	-.007	.5
16	MP2C	X	-13.101	3
17	MP2C	Z	-22.691	3
18	MP2C	Mx	-.007	3
19	MP2C	X	-13.101	.5
20	MP2C	Z	-22.691	.5
21	MP2C	Mx	.02	.5
22	MP2C	X	-13.101	3
23	MP2C	Z	-22.691	3
24	MP2C	Mx	.02	3
25	MP5B	X	-13.703	.5
26	MP5B	Z	-23.734	.5
27	MP5B	Mx	.011	.5
28	MP5B	X	-13.703	3
29	MP5B	Z	-23.734	3
30	MP5B	Mx	.011	3
31	MP5B	X	-13.703	.5
32	MP5B	Z	-23.734	.5
33	MP5B	Mx	-.02	.5
34	MP5B	X	-13.703	3
35	MP5B	Z	-23.734	3
36	MP5B	Mx	-.02	3
37	MP3B	X	-7.06	1
38	MP3B	Z	-12.228	1
39	MP3B	Mx	-.002	1
40	MP3B	X	-7.06	2.5
41	MP3B	Z	-12.228	2.5
42	MP3B	Mx	-.002	2.5
43	MP4A	X	-6.482	1
44	MP4A	Z	-11.227	1
45	MP4A	Mx	.003	1
46	MP4A	X	-6.482	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP4A	Z	-11.227	2.5
48	MP4A	Mx	.003	2.5
49	MP4C	X	-3.731	1
50	MP4C	Z	-6.462	1
51	MP4C	Mx	-.004	1
52	MP4C	X	-3.731	2.5
53	MP4C	Z	-6.462	2.5
54	MP4C	Mx	-.004	2.5
55	MP3A	X	-1.319	.5
56	MP3A	Z	-2.285	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-1.205	.5
59	MP3C	Z	-2.087	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-1.534	.5
62	MP5B	Z	-2.658	.5
63	MP5B	Mx	0	.5
64	O1	X	-11.431	1
65	O1	Z	-19.799	1
66	O1	Mx	0	1
67	MP3A	X	-5.237	2.5
68	MP3A	Z	-9.071	2.5
69	MP3A	Mx	.007	2.5
70	MP3B	X	-6.318	2.5
71	MP3B	Z	-10.943	2.5
72	MP3B	Mx	.002	2.5
73	MP3C	X	-4.662	2.5
74	MP3C	Z	-8.074	2.5
75	MP3C	Mx	-.007	2.5
76	MP4A	X	-4.804	2.5
77	MP4A	Z	-8.32	2.5
78	MP4A	Mx	.006	2.5
79	MP4B	X	-6.296	2.5
80	MP4B	Z	-10.905	2.5
81	MP4B	Mx	.002	2.5
82	MP4C	X	-4.01	2.5
83	MP4C	Z	-6.945	2.5
84	MP4C	Mx	-.006	2.5
85	MP1A	X	-14.163	.5
86	MP1A	Z	-24.532	.5
87	MP1A	Mx	.011	.5
88	MP1A	X	-14.163	3
89	MP1A	Z	-24.532	3
90	MP1A	Mx	.011	3
91	MP1B	X	-15.088	.5
92	MP1B	Z	-26.134	.5
93	MP1B	Mx	.003	.5
94	MP1B	X	-15.088	3
95	MP1B	Z	-26.134	3
96	MP1B	Mx	.003	3
97	MP1C	X	-13.671	.5
98	MP1C	Z	-23.679	.5
99	MP1C	Mx	-.013	.5
100	MP1C	X	-13.671	3
101	MP1C	Z	-23.679	3
102	MP1C	Mx	-.013	3
103	MP4B	X	-15.088	.5
104	MP4B	Z	-26.134	.5
105	MP4B	Mx	.003	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
106	MP4B	X	-15.088	3
107	MP4B	Z	-26.134	3
108	MP4B	Mx	.003	3
109	MP5A	X	-14.163	.5
110	MP5A	Z	-24.532	.5
111	MP5A	Mx	.011	.5
112	MP5A	X	-14.163	3
113	MP5A	Z	-24.532	3
114	MP5A	Mx	.011	3
115	MP5C	X	-13.671	.5
116	MP5C	Z	-23.679	.5
117	MP5C	Mx	-.013	.5
118	MP5C	X	-13.671	3
119	MP5C	Z	-23.679	3
120	MP5C	Mx	-.013	3
121	MP2C	X	-1.574	2.5
122	MP2C	Z	-2.726	2.5
123	MP2C	Mx	.001	2.5
124	MP2C	X	-1.574	2.5
125	MP2C	Z	-2.726	2.5
126	MP2C	Mx	.001	2.5
127	MP5B	X	-3.248	2.5
128	MP5B	Z	-5.626	2.5
129	MP5B	Mx	.001	2.5
130	MP5B	X	-3.248	2.5
131	MP5B	Z	-5.626	2.5
132	MP5B	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.5
2	MP2A	Z	-11.708	.5
3	MP2A	Mx	-.009	.5
4	MP2A	X	0	3
5	MP2A	Z	-11.708	3
6	MP2A	Mx	-.009	3
7	MP2A	X	0	.5
8	MP2A	Z	-11.708	.5
9	MP2A	Mx	.009	.5
10	MP2A	X	0	3
11	MP2A	Z	-11.708	3
12	MP2A	Mx	.009	3
13	MP2C	X	0	.5
14	MP2C	Z	-9.357	.5
15	MP2C	Mx	-.006	.5
16	MP2C	X	0	3
17	MP2C	Z	-9.357	3
18	MP2C	Mx	-.006	3
19	MP2C	X	0	.5
20	MP2C	Z	-9.357	.5
21	MP2C	Mx	.006	.5
22	MP2C	X	0	3
23	MP2C	Z	-9.357	3
24	MP2C	Mx	.006	3
25	MP5B	X	0	.5
26	MP5B	Z	-9.26	.5
27	MP5B	Mx	.006	.5
28	MP5B	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP5B	Z	-9.26	3
30	MP5B	Mx	.006	3
31	MP5B	X	0	.5
32	MP5B	Z	-9.26	.5
33	MP5B	Mx	-.005	.5
34	MP5B	X	0	3
35	MP5B	Z	-9.26	3
36	MP5B	Mx	-.005	3
37	MP3B	X	0	1
38	MP3B	Z	-3.946	1
39	MP3B	Mx	.000343	1
40	MP3B	X	0	2.5
41	MP3B	Z	-3.946	2.5
42	MP3B	Mx	.000343	2.5
43	MP4A	X	0	1
44	MP4A	Z	-4.026	1
45	MP4A	Mx	0	1
46	MP4A	X	0	2.5
47	MP4A	Z	-4.026	2.5
48	MP4A	Mx	0	2.5
49	MP4C	X	0	1
50	MP4C	Z	-1.466	1
51	MP4C	Mx	-.000722	1
52	MP4C	X	0	2.5
53	MP4C	Z	-1.466	2.5
54	MP4C	Mx	-.000722	2.5
55	MP3A	X	0	.5
56	MP3A	Z	-.733	.5
57	MP3A	Mx	0	.5
58	MP3C	X	0	.5
59	MP3C	Z	-.533	.5
60	MP3C	Mx	0	.5
61	MP5B	X	0	.5
62	MP5B	Z	-.663	.5
63	MP5B	Mx	0	.5
64	O1	X	0	1
65	O1	Z	-8.108	1
66	O1	Mx	0	1
67	MP3A	X	0	2.5
68	MP3A	Z	-3.061	2.5
69	MP3A	Mx	.000872	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-2.751	2.5
72	MP3B	Mx	.001	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-2.168	2.5
75	MP3C	Mx	-.002	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	-3.016	2.5
78	MP4A	Mx	.00086	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	-2.59	2.5
81	MP4B	Mx	.001	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	-1.789	2.5
84	MP4C	Mx	-.001	2.5
85	MP1A	X	0	.5
86	MP1A	Z	-9.885	.5
87	MP1A	Mx	.002	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
88	MP1A	X	0	3
89	MP1A	Z	-9.885	3
90	MP1A	Mx	.002	3
91	MP1B	X	0	.5
92	MP1B	Z	-9.533	.5
93	MP1B	Mx	.003	.5
94	MP1B	X	0	3
95	MP1B	Z	-9.533	3
96	MP1B	Mx	.003	3
97	MP1C	X	0	.5
98	MP1C	Z	-8.872	.5
99	MP1C	Mx	-.004	.5
100	MP1C	X	0	3
101	MP1C	Z	-8.872	3
102	MP1C	Mx	-.004	3
103	MP4B	X	0	.5
104	MP4B	Z	-9.533	.5
105	MP4B	Mx	.003	.5
106	MP4B	X	0	3
107	MP4B	Z	-9.533	3
108	MP4B	Mx	.003	3
109	MP5A	X	0	.5
110	MP5A	Z	-9.885	.5
111	MP5A	Mx	.002	.5
112	MP5A	X	0	3
113	MP5A	Z	-9.885	3
114	MP5A	Mx	.002	3
115	MP5C	X	0	.5
116	MP5C	Z	-8.872	.5
117	MP5C	Mx	-.004	.5
118	MP5C	X	0	3
119	MP5C	Z	-8.872	3
120	MP5C	Mx	-.004	3
121	MP2C	X	0	2.5
122	MP2C	Z	-.64	2.5
123	MP2C	Mx	.000315	2.5
124	MP2C	X	0	2.5
125	MP2C	Z	-.64	2.5
126	MP2C	Mx	.000315	2.5
127	MP5B	X	0	2.5
128	MP5B	Z	-1.931	2.5
129	MP5B	Mx	-.000168	2.5
130	MP5B	X	0	2.5
131	MP5B	Z	-1.931	2.5
132	MP5B	Mx	-.000168	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	5.069	.5
2	MP2A	Z	-8.78	.5
3	MP2A	Mx	-.009	.5
4	MP2A	X	5.069	3
5	MP2A	Z	-8.78	3
6	MP2A	Mx	-.009	3
7	MP2A	X	5.069	.5
8	MP2A	Z	-8.78	.5
9	MP2A	Mx	.004	.5
10	MP2A	X	5.069	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP2A	Z	-8.78	3
12	MP2A	Mx	.004	3
13	MP2C	X	4.277	.5
14	MP2C	Z	-7.408	.5
15	MP2C	Mx	-.007	.5
16	MP2C	X	4.277	3
17	MP2C	Z	-7.408	3
18	MP2C	Mx	-.007	3
19	MP2C	X	4.277	.5
20	MP2C	Z	-7.408	.5
21	MP2C	Mx	.002	.5
22	MP2C	X	4.277	3
23	MP2C	Z	-7.408	3
24	MP2C	Mx	.002	3
25	MP5B	X	4.015	.5
26	MP5B	Z	-6.954	.5
27	MP5B	Mx	.006	.5
28	MP5B	X	4.015	3
29	MP5B	Z	-6.954	3
30	MP5B	Mx	.006	3
31	MP5B	X	4.015	.5
32	MP5B	Z	-6.954	.5
33	MP5B	Mx	-.001	.5
34	MP5B	X	4.015	3
35	MP5B	Z	-6.954	3
36	MP5B	Mx	-.001	3
37	MP3B	X	1.468	1
38	MP3B	Z	-2.542	1
39	MP3B	Mx	.000944	1
40	MP3B	X	1.468	2.5
41	MP3B	Z	-2.542	2.5
42	MP3B	Mx	.000944	2.5
43	MP4A	X	1.683	1
44	MP4A	Z	-2.915	1
45	MP4A	Mx	-.000842	1
46	MP4A	X	1.683	2.5
47	MP4A	Z	-2.915	2.5
48	MP4A	Mx	-.000842	2.5
49	MP4C	X	1.239	1
50	MP4C	Z	-2.145	1
51	MP4C	Mx	-.000949	1
52	MP4C	X	1.239	2.5
53	MP4C	Z	-2.145	2.5
54	MP4C	Mx	-.000949	2.5
55	MP3A	X	.376	.5
56	MP3A	Z	-.652	.5
57	MP3A	Mx	0	.5
58	MP3C	X	.311	.5
59	MP3C	Z	-.539	.5
60	MP3C	Mx	0	.5
61	MP5B	X	.277	.5
62	MP5B	Z	-.479	.5
63	MP5B	Mx	0	.5
64	O1	X	4.14	1
65	O1	Z	-7.171	1
66	O1	Mx	0	1
67	MP3A	X	1.576	2.5
68	MP3A	Z	-2.73	2.5
69	MP3A	Mx	-.000456	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
52	MP4C	X	3.219	2.5
53	MP4C	Z	-1.859	2.5
54	MP4C	Mx	-.000636	2.5
55	MP3A	X	.574	.5
56	MP3A	Z	-.332	.5
57	MP3A	Mx	0	.5
58	MP3C	X	.634	.5
59	MP3C	Z	-.366	.5
60	MP3C	Mx	0	.5
61	MP5B	X	.462	.5
62	MP5B	Z	-.266	.5
63	MP5B	Mx	0	.5
64	O1	X	6.515	1
65	O1	Z	-3.761	1
66	O1	Mx	0	1
67	MP3A	X	2.382	2.5
68	MP3A	Z	-1.376	2.5
69	MP3A	Mx	-.001	2.5
70	MP3B	X	1.877	2.5
71	MP3B	Z	-1.084	2.5
72	MP3B	Mx	.002	2.5
73	MP3C	X	2.651	2.5
74	MP3C	Z	-1.531	2.5
75	MP3C	Mx	-.000873	2.5
76	MP4A	X	2.243	2.5
77	MP4A	Z	-1.295	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	1.55	2.5
80	MP4B	Z	-.895	2.5
81	MP4B	Mx	.001	2.5
82	MP4C	X	2.612	2.5
83	MP4C	Z	-1.508	2.5
84	MP4C	Mx	-.00086	2.5
85	MP1A	X	8.256	.5
86	MP1A	Z	-4.767	.5
87	MP1A	Mx	-.003	.5
88	MP1A	X	8.256	3
89	MP1A	Z	-4.767	3
90	MP1A	Mx	-.003	3
91	MP1B	X	7.683	.5
92	MP1B	Z	-4.436	.5
93	MP1B	Mx	.004	.5
94	MP1B	X	7.683	3
95	MP1B	Z	-4.436	3
96	MP1B	Mx	.004	3
97	MP1C	X	8.561	.5
98	MP1C	Z	-4.943	.5
99	MP1C	Mx	-.002	.5
100	MP1C	X	8.561	3
101	MP1C	Z	-4.943	3
102	MP1C	Mx	-.002	3
103	MP4B	X	7.683	.5
104	MP4B	Z	-4.436	.5
105	MP4B	Mx	.004	.5
106	MP4B	X	7.683	3
107	MP4B	Z	-4.436	3
108	MP4B	Mx	.004	3
109	MP5A	X	8.256	.5
110	MP5A	Z	-4.767	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
111	MP5A	Mx	-.003	.5
112	MP5A	X	8.256	3
113	MP5A	Z	-4.767	3
114	MP5A	Mx	-.003	3
115	MP5C	X	8.561	.5
116	MP5C	Z	-4.943	.5
117	MP5C	Mx	-.002	.5
118	MP5C	X	8.561	3
119	MP5C	Z	-4.943	3
120	MP5C	Mx	-.002	3
121	MP2C	X	1.569	2.5
122	MP2C	Z	-.906	2.5
123	MP2C	Mx	.00031	2.5
124	MP2C	X	1.569	2.5
125	MP2C	Z	-.906	2.5
126	MP2C	Mx	.00031	2.5
127	MP5B	X	.657	2.5
128	MP5B	Z	-.379	2.5
129	MP5B	Mx	-.000356	2.5
130	MP5B	X	.657	2.5
131	MP5B	Z	-.379	2.5
132	MP5B	Mx	-.000356	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	5.426	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	5.426	3
5	MP2A	Z	0	3
6	MP2A	Mx	-.003	3
7	MP2A	X	5.426	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.003	.5
10	MP2A	X	5.426	3
11	MP2A	Z	0	3
12	MP2A	Mx	-.003	3
13	MP2C	X	6.145	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	6.145	3
17	MP2C	Z	0	3
18	MP2C	Mx	-.003	3
19	MP2C	X	6.145	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	-.003	.5
22	MP2C	X	6.145	3
23	MP2C	Z	0	3
24	MP2C	Mx	-.003	3
25	MP5B	X	6.242	.5
26	MP5B	Z	0	.5
27	MP5B	Mx	.002	.5
28	MP5B	X	6.242	3
29	MP5B	Z	0	3
30	MP5B	Mx	.002	3
31	MP5B	X	6.242	.5
32	MP5B	Z	0	.5
33	MP5B	Mx	.004	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP5B	X	6.242	3
35	MP5B	Z	0	3
36	MP5B	Mx	.004	3
37	MP3B	X	1.466	1
38	MP3B	Z	0	1
39	MP3B	Mx	.000722	1
40	MP3B	X	1.466	2.5
41	MP3B	Z	0	2.5
42	MP3B	Mx	.000722	2.5
43	MP4A	X	1.387	1
44	MP4A	Z	0	1
45	MP4A	Mx	-.000693	1
46	MP4A	X	1.387	2.5
47	MP4A	Z	0	2.5
48	MP4A	Mx	-.000693	2.5
49	MP4C	X	3.946	1
50	MP4C	Z	0	1
51	MP4C	Mx	.000343	1
52	MP4C	X	3.946	2.5
53	MP4C	Z	0	2.5
54	MP4C	Mx	.000343	2.5
55	MP3A	X	.553	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	0	.5
58	MP3C	X	.753	.5
59	MP3C	Z	0	.5
60	MP3C	Mx	0	.5
61	MP5B	X	.623	.5
62	MP5B	Z	0	.5
63	MP5B	Mx	0	.5
64	O1	X	6.594	1
65	O1	Z	0	1
66	O1	Mx	0	1
67	MP3A	X	2.259	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	2.569	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.002	2.5
73	MP3C	X	3.152	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	.000456	2.5
76	MP4A	X	1.914	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	2.34	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	.001	2.5
82	MP4C	X	3.141	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	.000455	2.5
85	MP1A	X	8.975	.5
86	MP1A	Z	0	.5
87	MP1A	Mx	-.004	.5
88	MP1A	X	8.975	3
89	MP1A	Z	0	3
90	MP1A	Mx	-.004	3
91	MP1B	X	9.327	.5
92	MP1B	Z	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP1B	Mx	.004	.5
94	MP1B	X	9.327	3
95	MP1B	Z	0	3
96	MP1B	Mx	.004	3
97	MP1C	X	9.988	.5
98	MP1C	Z	0	.5
99	MP1C	Mx	.000867	.5
100	MP1C	X	9.988	3
101	MP1C	Z	0	3
102	MP1C	Mx	.000867	3
103	MP4B	X	9.327	.5
104	MP4B	Z	0	.5
105	MP4B	Mx	.004	.5
106	MP4B	X	9.327	3
107	MP4B	Z	0	3
108	MP4B	Mx	.004	3
109	MP5A	X	8.975	.5
110	MP5A	Z	0	.5
111	MP5A	Mx	-.004	.5
112	MP5A	X	8.975	3
113	MP5A	Z	0	3
114	MP5A	Mx	-.004	3
115	MP5C	X	9.988	.5
116	MP5C	Z	0	.5
117	MP5C	Mx	.000867	.5
118	MP5C	X	9.988	3
119	MP5C	Z	0	3
120	MP5C	Mx	.000867	3
121	MP2C	X	1.931	2.5
122	MP2C	Z	0	2.5
123	MP2C	Mx	-.000168	2.5
124	MP2C	X	1.931	2.5
125	MP2C	Z	0	2.5
126	MP2C	Mx	-.000168	2.5
127	MP5B	X	.64	2.5
128	MP5B	Z	0	2.5
129	MP5B	Mx	-.000315	2.5
130	MP5B	X	.64	2.5
131	MP5B	Z	0	2.5
132	MP5B	Mx	-.000315	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	6.059	.5
2	MP2A	Z	3.498	.5
3	MP2A	Mx	-.00026	.5
4	MP2A	X	6.059	3
5	MP2A	Z	3.498	3
6	MP2A	Mx	-.00026	3
7	MP2A	X	6.059	.5
8	MP2A	Z	3.498	.5
9	MP2A	Mx	-.006	.5
10	MP2A	X	6.059	3
11	MP2A	Z	3.498	3
12	MP2A	Mx	-.006	3
13	MP2C	X	6.017	.5
14	MP2C	Z	3.474	.5
15	MP2C	Mx	-.00091	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude(lb.k-ft)	Locationft.%1
16	MP2C	X	6.017	3
17	MP2C	Z	3.474	3
18	MP2C	Mx	-00091	3
19	MP2C	X	6.017	.5
20	MP2C	Z	3.474	.5
21	MP2C	Mx	-.005	.5
22	MP2C	X	6.017	3
23	MP2C	Z	3.474	3
24	MP2C	Mx	-.005	3
25	MP5B	X	6.471	.5
26	MP5B	Z	3.736	.5
27	MP5B	Mx	-4e-5	.5
28	MP5B	X	6.471	3
29	MP5B	Z	3.736	3
30	MP5B	Mx	-4e-5	3
31	MP5B	X	6.471	.5
32	MP5B	Z	3.736	.5
33	MP5B	Mx	.006	.5
34	MP5B	X	6.471	3
35	MP5B	Z	3.736	3
36	MP5B	Mx	.006	3
37	MP3B	X	2.145	1
38	MP3B	Z	1.239	1
39	MP3B	Mx	.000949	1
40	MP3B	X	2.145	2.5
41	MP3B	Z	1.239	2.5
42	MP3B	Mx	.000949	2.5
43	MP4A	X	1.772	1
44	MP4A	Z	1.023	1
45	MP4A	Mx	-.000886	1
46	MP4A	X	1.772	2.5
47	MP4A	Z	1.023	2.5
48	MP4A	Mx	-.000886	2.5
49	MP4C	X	2.542	1
50	MP4C	Z	1.468	1
51	MP4C	Mx	.000944	1
52	MP4C	X	2.542	2.5
53	MP4C	Z	1.468	2.5
54	MP4C	Mx	.000944	2.5
55	MP3A	X	.462	.5
56	MP3A	Z	.266	.5
57	MP3A	Mx	0	.5
58	MP3C	X	.574	.5
59	MP3C	Z	.332	.5
60	MP3C	Mx	0	.5
61	MP5B	X	.634	.5
62	MP5B	Z	.366	.5
63	MP5B	Mx	0	.5
64	O1	X	5.562	1
65	O1	Z	3.211	1
66	O1	Mx	0	1
67	MP3A	X	1.877	2.5
68	MP3A	Z	1.084	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	2.651	2.5
71	MP3B	Z	1.531	2.5
72	MP3B	Mx	.000872	2.5
73	MP3C	X	2.382	2.5
74	MP3C	Z	1.376	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP3C	Mx	.001	2.5
76	MP4A	X	1.55	2.5
77	MP4A	Z	.895	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	2.612	2.5
80	MP4B	Z	1.508	2.5
81	MP4B	Mx	.00086	2.5
82	MP4C	X	2.243	2.5
83	MP4C	Z	1.295	2.5
84	MP4C	Mx	.001	2.5
85	MP1A	X	7.683	.5
86	MP1A	Z	4.436	.5
87	MP1A	Mx	-.004	.5
88	MP1A	X	7.683	3
89	MP1A	Z	4.436	3
90	MP1A	Mx	-.004	3
91	MP1B	X	8.561	.5
92	MP1B	Z	4.943	.5
93	MP1B	Mx	.002	.5
94	MP1B	X	8.561	3
95	MP1B	Z	4.943	3
96	MP1B	Mx	.002	3
97	MP1C	X	8.256	.5
98	MP1C	Z	4.767	.5
99	MP1C	Mx	.003	.5
100	MP1C	X	8.256	3
101	MP1C	Z	4.767	3
102	MP1C	Mx	.003	3
103	MP4B	X	8.561	.5
104	MP4B	Z	4.943	.5
105	MP4B	Mx	.002	.5
106	MP4B	X	8.561	3
107	MP4B	Z	4.943	3
108	MP4B	Mx	.002	3
109	MP5A	X	7.683	.5
110	MP5A	Z	4.436	.5
111	MP5A	Mx	-.004	.5
112	MP5A	X	7.683	3
113	MP5A	Z	4.436	3
114	MP5A	Mx	-.004	3
115	MP5C	X	8.256	.5
116	MP5C	Z	4.767	.5
117	MP5C	Mx	.003	.5
118	MP5C	X	8.256	3
119	MP5C	Z	4.767	3
120	MP5C	Mx	.003	3
121	MP2C	X	1.216	2.5
122	MP2C	Z	.702	2.5
123	MP2C	Mx	-.000451	2.5
124	MP2C	X	1.216	2.5
125	MP2C	Z	.702	2.5
126	MP2C	Mx	-.000451	2.5
127	MP5B	X	1.01	2.5
128	MP5B	Z	.583	2.5
129	MP5B	Mx	-.000447	2.5
130	MP5B	X	1.01	2.5
131	MP5B	Z	.583	2.5
132	MP5B	Mx	-.000447	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	5.069	.5
2	MP2A	Z	8.78	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	5.069	3
5	MP2A	Z	8.78	3
6	MP2A	Mx	.004	3
7	MP2A	X	5.069	.5
8	MP2A	Z	8.78	.5
9	MP2A	Mx	-.009	.5
10	MP2A	X	5.069	3
11	MP2A	Z	8.78	3
12	MP2A	Mx	-.009	3
13	MP2C	X	4.277	.5
14	MP2C	Z	7.408	.5
15	MP2C	Mx	.002	.5
16	MP2C	X	4.277	3
17	MP2C	Z	7.408	3
18	MP2C	Mx	.002	3
19	MP2C	X	4.277	.5
20	MP2C	Z	7.408	.5
21	MP2C	Mx	-.007	.5
22	MP2C	X	4.277	3
23	MP2C	Z	7.408	3
24	MP2C	Mx	-.007	3
25	MP5B	X	4.49	.5
26	MP5B	Z	7.778	.5
27	MP5B	Mx	-.004	.5
28	MP5B	X	4.49	3
29	MP5B	Z	7.778	3
30	MP5B	Mx	-.004	3
31	MP5B	X	4.49	.5
32	MP5B	Z	7.778	.5
33	MP5B	Mx	.007	.5
34	MP5B	X	4.49	3
35	MP5B	Z	7.778	3
36	MP5B	Mx	.007	3
37	MP3B	X	1.859	1
38	MP3B	Z	3.219	1
39	MP3B	Mx	.000636	1
40	MP3B	X	1.859	2.5
41	MP3B	Z	3.219	2.5
42	MP3B	Mx	.000636	2.5
43	MP4A	X	1.683	1
44	MP4A	Z	2.915	1
45	MP4A	Mx	-.000842	1
46	MP4A	X	1.683	2.5
47	MP4A	Z	2.915	2.5
48	MP4A	Mx	-.000842	2.5
49	MP4C	X	.848	1
50	MP4C	Z	1.468	1
51	MP4C	Mx	.000796	1
52	MP4C	X	.848	2.5
53	MP4C	Z	1.468	2.5
54	MP4C	Mx	.000796	2.5
55	MP3A	X	.311	.5
56	MP3A	Z	.539	.5
57	MP3A	Mx	0	.5
58	MP3C	X	.277	.5
59	MP3C	Z	.479	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
60	MP3C	Mx	0	.5
61	MP5B	X	.376	.5
62	MP5B	Z	.652	.5
63	MP5B	Mx	0	.5
64	O1	X	3.59	1
65	O1	Z	6.218	1
66	O1	Mx	0	1
67	MP3A	X	1.285	2.5
68	MP3A	Z	2.225	2.5
69	MP3A	Mx	-.002	2.5
70	MP3B	X	1.576	2.5
71	MP3B	Z	2.73	2.5
72	MP3B	Mx	-.000456	2.5
73	MP3C	X	1.129	2.5
74	MP3C	Z	1.956	2.5
75	MP3C	Mx	.002	2.5
76	MP4A	X	1.17	2.5
77	MP4A	Z	2.027	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	1.57	2.5
80	MP4B	Z	2.72	2.5
81	MP4B	Mx	-.000455	2.5
82	MP4C	X	.957	2.5
83	MP4C	Z	1.658	2.5
84	MP4C	Mx	.001	2.5
85	MP1A	X	4.663	.5
86	MP1A	Z	8.077	.5
87	MP1A	Mx	-.004	.5
88	MP1A	X	4.663	3
89	MP1A	Z	8.077	3
90	MP1A	Mx	-.004	3
91	MP1B	X	4.994	.5
92	MP1B	Z	8.65	.5
93	MP1B	Mx	-.000867	.5
94	MP1B	X	4.994	3
95	MP1B	Z	8.65	3
96	MP1B	Mx	-.000867	3
97	MP1C	X	4.488	.5
98	MP1C	Z	7.773	.5
99	MP1C	Mx	.004	.5
100	MP1C	X	4.488	3
101	MP1C	Z	7.773	3
102	MP1C	Mx	.004	3
103	MP4B	X	4.994	.5
104	MP4B	Z	8.65	.5
105	MP4B	Mx	-.000867	.5
106	MP4B	X	4.994	3
107	MP4B	Z	8.65	3
108	MP4B	Mx	-.000867	3
109	MP5A	X	4.663	.5
110	MP5A	Z	8.077	.5
111	MP5A	Mx	-.004	.5
112	MP5A	X	4.663	3
113	MP5A	Z	8.077	3
114	MP5A	Mx	-.004	3
115	MP5C	X	4.488	.5
116	MP5C	Z	7.773	.5
117	MP5C	Mx	.004	.5
118	MP5C	X	4.488	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP5C	Z	7.773	3
120	MP5C	Mx	.004	3
121	MP2C	X	.379	2.5
122	MP2C	Z	.657	2.5
123	MP2C	Mx	-.000356	2.5
124	MP2C	X	.379	2.5
125	MP2C	Z	.657	2.5
126	MP2C	Mx	-.000356	2.5
127	MP5B	X	.906	2.5
128	MP5B	Z	1.569	2.5
129	MP5B	Mx	-.00031	2.5
130	MP5B	X	.906	2.5
131	MP5B	Z	1.569	2.5
132	MP5B	Mx	-.00031	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.5
2	MP2A	Z	11.708	.5
3	MP2A	Mx	.009	.5
4	MP2A	X	0	3
5	MP2A	Z	11.708	3
6	MP2A	Mx	.009	3
7	MP2A	X	0	.5
8	MP2A	Z	11.708	.5
9	MP2A	Mx	-.009	.5
10	MP2A	X	0	3
11	MP2A	Z	11.708	3
12	MP2A	Mx	-.009	3
13	MP2C	X	0	.5
14	MP2C	Z	9.357	.5
15	MP2C	Mx	.006	.5
16	MP2C	X	0	3
17	MP2C	Z	9.357	3
18	MP2C	Mx	.006	3
19	MP2C	X	0	.5
20	MP2C	Z	9.357	.5
21	MP2C	Mx	-.006	.5
22	MP2C	X	0	3
23	MP2C	Z	9.357	3
24	MP2C	Mx	-.006	3
25	MP5B	X	0	.5
26	MP5B	Z	9.26	.5
27	MP5B	Mx	-.006	.5
28	MP5B	X	0	3
29	MP5B	Z	9.26	3
30	MP5B	Mx	-.006	3
31	MP5B	X	0	.5
32	MP5B	Z	9.26	.5
33	MP5B	Mx	.005	.5
34	MP5B	X	0	3
35	MP5B	Z	9.26	3
36	MP5B	Mx	.005	3
37	MP3B	X	0	1
38	MP3B	Z	3.946	1
39	MP3B	Mx	-.000343	1
40	MP3B	X	0	2.5
41	MP3B	Z	3.946	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
42	MP3B	Mx	-.000343	2.5
43	MP4A	X	0	1
44	MP4A	Z	4.026	1
45	MP4A	Mx	0	1
46	MP4A	X	0	2.5
47	MP4A	Z	4.026	2.5
48	MP4A	Mx	0	2.5
49	MP4C	X	0	1
50	MP4C	Z	1.466	1
51	MP4C	Mx	.000722	1
52	MP4C	X	0	2.5
53	MP4C	Z	1.466	2.5
54	MP4C	Mx	.000722	2.5
55	MP3A	X	0	.5
56	MP3A	Z	.733	.5
57	MP3A	Mx	0	.5
58	MP3C	X	0	.5
59	MP3C	Z	.533	.5
60	MP3C	Mx	0	.5
61	MP5B	X	0	.5
62	MP5B	Z	.663	.5
63	MP5B	Mx	0	.5
64	O1	X	0	1
65	O1	Z	8.108	1
66	O1	Mx	0	1
67	MP3A	X	0	2.5
68	MP3A	Z	3.061	2.5
69	MP3A	Mx	-.000872	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	2.751	2.5
72	MP3B	Mx	-.001	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	2.168	2.5
75	MP3C	Mx	.002	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	3.016	2.5
78	MP4A	Mx	-.00086	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	2.59	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	1.789	2.5
84	MP4C	Mx	.001	2.5
85	MP1A	X	0	.5
86	MP1A	Z	9.885	.5
87	MP1A	Mx	-.002	.5
88	MP1A	X	0	3
89	MP1A	Z	9.885	3
90	MP1A	Mx	-.002	3
91	MP1B	X	0	.5
92	MP1B	Z	9.533	.5
93	MP1B	Mx	-.003	.5
94	MP1B	X	0	3
95	MP1B	Z	9.533	3
96	MP1B	Mx	-.003	3
97	MP1C	X	0	.5
98	MP1C	Z	8.872	.5
99	MP1C	Mx	.004	.5
100	MP1C	X	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
101	MP1C	Z	8.872	3
102	MP1C	Mx	.004	3
103	MP4B	X	0	.5
104	MP4B	Z	9.533	.5
105	MP4B	Mx	-.003	.5
106	MP4B	X	0	3
107	MP4B	Z	9.533	3
108	MP4B	Mx	-.003	3
109	MP5A	X	0	.5
110	MP5A	Z	9.885	.5
111	MP5A	Mx	-.002	.5
112	MP5A	X	0	3
113	MP5A	Z	9.885	3
114	MP5A	Mx	-.002	3
115	MP5C	X	0	.5
116	MP5C	Z	8.872	.5
117	MP5C	Mx	.004	.5
118	MP5C	X	0	3
119	MP5C	Z	8.872	3
120	MP5C	Mx	.004	3
121	MP2C	X	0	2.5
122	MP2C	Z	.64	2.5
123	MP2C	Mx	-.000315	2.5
124	MP2C	X	0	2.5
125	MP2C	Z	.64	2.5
126	MP2C	Mx	-.000315	2.5
127	MP5B	X	0	2.5
128	MP5B	Z	1.931	2.5
129	MP5B	Mx	.000168	2.5
130	MP5B	X	0	2.5
131	MP5B	Z	1.931	2.5
132	MP5B	Mx	.000168	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.069	.5
2	MP2A	Z	8.78	.5
3	MP2A	Mx	.009	.5
4	MP2A	X	-5.069	3
5	MP2A	Z	8.78	3
6	MP2A	Mx	.009	3
7	MP2A	X	-5.069	.5
8	MP2A	Z	8.78	.5
9	MP2A	Mx	-.004	.5
10	MP2A	X	-5.069	3
11	MP2A	Z	8.78	3
12	MP2A	Mx	-.004	3
13	MP2C	X	-4.277	.5
14	MP2C	Z	7.408	.5
15	MP2C	Mx	.007	.5
16	MP2C	X	-4.277	3
17	MP2C	Z	7.408	3
18	MP2C	Mx	.007	3
19	MP2C	X	-4.277	.5
20	MP2C	Z	7.408	.5
21	MP2C	Mx	-.002	.5
22	MP2C	X	-4.277	3
23	MP2C	Z	7.408	3



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP2C	Mx	-.002	3
25	MP5B	X	-4.015	.5
26	MP5B	Z	6.954	.5
27	MP5B	Mx	-.006	.5
28	MP5B	X	-4.015	3
29	MP5B	Z	6.954	3
30	MP5B	Mx	-.006	3
31	MP5B	X	-4.015	.5
32	MP5B	Z	6.954	.5
33	MP5B	Mx	.001	.5
34	MP5B	X	-4.015	3
35	MP5B	Z	6.954	3
36	MP5B	Mx	.001	3
37	MP3B	X	-1.468	1
38	MP3B	Z	2.542	1
39	MP3B	Mx	-.000944	1
40	MP3B	X	-1.468	2.5
41	MP3B	Z	2.542	2.5
42	MP3B	Mx	-.000944	2.5
43	MP4A	X	-1.683	1
44	MP4A	Z	2.915	1
45	MP4A	Mx	.000842	1
46	MP4A	X	-1.683	2.5
47	MP4A	Z	2.915	2.5
48	MP4A	Mx	.000842	2.5
49	MP4C	X	-1.239	1
50	MP4C	Z	2.145	1
51	MP4C	Mx	.000949	1
52	MP4C	X	-1.239	2.5
53	MP4C	Z	2.145	2.5
54	MP4C	Mx	.000949	2.5
55	MP3A	X	-.376	.5
56	MP3A	Z	.652	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-.311	.5
59	MP3C	Z	.539	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-.277	.5
62	MP5B	Z	.479	.5
63	MP5B	Mx	0	.5
64	O1	X	-4.14	1
65	O1	Z	7.171	1
66	O1	Mx	0	1
67	MP3A	X	-1.576	2.5
68	MP3A	Z	2.73	2.5
69	MP3A	Mx	.000456	2.5
70	MP3B	X	-1.129	2.5
71	MP3B	Z	1.956	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	-1.285	2.5
74	MP3C	Z	2.225	2.5
75	MP3C	Mx	.002	2.5
76	MP4A	X	-1.57	2.5
77	MP4A	Z	2.72	2.5
78	MP4A	Mx	.000454	2.5
79	MP4B	X	-.957	2.5
80	MP4B	Z	1.658	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	-1.17	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP4C	Z	2.027	2.5
84	MP4C	Mx	.001	2.5
85	MP1A	X	-4.994	.5
86	MP1A	Z	8.65	.5
87	MP1A	Mx	.000867	.5
88	MP1A	X	-4.994	3
89	MP1A	Z	8.65	3
90	MP1A	Mx	.000867	3
91	MP1B	X	-4.488	.5
92	MP1B	Z	7.773	.5
93	MP1B	Mx	-.004	.5
94	MP1B	X	-4.488	3
95	MP1B	Z	7.773	3
96	MP1B	Mx	-.004	3
97	MP1C	X	-4.663	.5
98	MP1C	Z	8.077	.5
99	MP1C	Mx	.004	.5
100	MP1C	X	-4.663	3
101	MP1C	Z	8.077	3
102	MP1C	Mx	.004	3
103	MP4B	X	-4.488	.5
104	MP4B	Z	7.773	.5
105	MP4B	Mx	-.004	.5
106	MP4B	X	-4.488	3
107	MP4B	Z	7.773	3
108	MP4B	Mx	-.004	3
109	MP5A	X	-4.994	.5
110	MP5A	Z	8.65	.5
111	MP5A	Mx	.000867	.5
112	MP5A	X	-4.994	3
113	MP5A	Z	8.65	3
114	MP5A	Mx	.000867	3
115	MP5C	X	-4.663	.5
116	MP5C	Z	8.077	.5
117	MP5C	Mx	.004	.5
118	MP5C	X	-4.663	3
119	MP5C	Z	8.077	3
120	MP5C	Mx	.004	3
121	MP2C	X	-.583	2.5
122	MP2C	Z	1.01	2.5
123	MP2C	Mx	-.000447	2.5
124	MP2C	X	-.583	2.5
125	MP2C	Z	1.01	2.5
126	MP2C	Mx	-.000447	2.5
127	MP5B	X	-.702	2.5
128	MP5B	Z	1.216	2.5
129	MP5B	Mx	.000451	2.5
130	MP5B	X	-.702	2.5
131	MP5B	Z	1.216	2.5
132	MP5B	Mx	.000451	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-6.059	.5
2	MP2A	Z	3.498	.5
3	MP2A	Mx	.006	.5
4	MP2A	X	-6.059	3
5	MP2A	Z	3.498	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP2A	Mx	.006	3
7	MP2A	X	-6.059	.5
8	MP2A	Z	3.498	.5
9	MP2A	Mx	.00026	.5
10	MP2A	X	-6.059	3
11	MP2A	Z	3.498	3
12	MP2A	Mx	.00026	3
13	MP2C	X	-6.017	.5
14	MP2C	Z	3.474	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	-6.017	3
17	MP2C	Z	3.474	3
18	MP2C	Mx	.005	3
19	MP2C	X	-6.017	.5
20	MP2C	Z	3.474	.5
21	MP2C	Mx	.00091	.5
22	MP2C	X	-6.017	3
23	MP2C	Z	3.474	3
24	MP2C	Mx	.00091	3
25	MP5B	X	-5.647	.5
26	MP5B	Z	3.26	.5
27	MP5B	Mx	-.004	.5
28	MP5B	X	-5.647	3
29	MP5B	Z	3.26	3
30	MP5B	Mx	-.004	3
31	MP5B	X	-5.647	.5
32	MP5B	Z	3.26	.5
33	MP5B	Mx	-.002	.5
34	MP5B	X	-5.647	3
35	MP5B	Z	3.26	3
36	MP5B	Mx	-.002	3
37	MP3B	X	-1.468	1
38	MP3B	Z	.848	1
39	MP3B	Mx	-.000796	1
40	MP3B	X	-1.468	2.5
41	MP3B	Z	.848	2.5
42	MP3B	Mx	-.000796	2.5
43	MP4A	X	-1.772	1
44	MP4A	Z	1.023	1
45	MP4A	Mx	.000886	1
46	MP4A	X	-1.772	2.5
47	MP4A	Z	1.023	2.5
48	MP4A	Mx	.000886	2.5
49	MP4C	X	-3.219	1
50	MP4C	Z	1.859	1
51	MP4C	Mx	.000636	1
52	MP4C	X	-3.219	2.5
53	MP4C	Z	1.859	2.5
54	MP4C	Mx	.000636	2.5
55	MP3A	X	-.574	.5
56	MP3A	Z	.332	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-.634	.5
59	MP3C	Z	.366	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-.462	.5
62	MP5B	Z	.266	.5
63	MP5B	Mx	0	.5
64	O1	X	-6.515	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	O1	Z	3.761	1
66	O1	Mx	0	1
67	MP3A	X	-2.382	2.5
68	MP3A	Z	1.376	2.5
69	MP3A	Mx	.001	2.5
70	MP3B	X	-1.877	2.5
71	MP3B	Z	1.084	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	-2.651	2.5
74	MP3C	Z	1.531	2.5
75	MP3C	Mx	.000873	2.5
76	MP4A	X	-2.243	2.5
77	MP4A	Z	1.295	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	-1.55	2.5
80	MP4B	Z	.895	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	-2.612	2.5
83	MP4C	Z	1.508	2.5
84	MP4C	Mx	.00086	2.5
85	MP1A	X	-8.256	.5
86	MP1A	Z	4.767	.5
87	MP1A	Mx	.003	.5
88	MP1A	X	-8.256	3
89	MP1A	Z	4.767	3
90	MP1A	Mx	.003	3
91	MP1B	X	-7.683	.5
92	MP1B	Z	4.436	.5
93	MP1B	Mx	-.004	.5
94	MP1B	X	-7.683	3
95	MP1B	Z	4.436	3
96	MP1B	Mx	-.004	3
97	MP1C	X	-8.561	.5
98	MP1C	Z	4.943	.5
99	MP1C	Mx	.002	.5
100	MP1C	X	-8.561	3
101	MP1C	Z	4.943	3
102	MP1C	Mx	.002	3
103	MP4B	X	-7.683	.5
104	MP4B	Z	4.436	.5
105	MP4B	Mx	-.004	.5
106	MP4B	X	-7.683	3
107	MP4B	Z	4.436	3
108	MP4B	Mx	-.004	3
109	MP5A	X	-8.256	.5
110	MP5A	Z	4.767	.5
111	MP5A	Mx	.003	.5
112	MP5A	X	-8.256	3
113	MP5A	Z	4.767	3
114	MP5A	Mx	.003	3
115	MP5C	X	-8.561	.5
116	MP5C	Z	4.943	.5
117	MP5C	Mx	.002	.5
118	MP5C	X	-8.561	3
119	MP5C	Z	4.943	3
120	MP5C	Mx	.002	3
121	MP2C	X	-1.569	2.5
122	MP2C	Z	.906	2.5
123	MP2C	Mx	-.00031	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
124	MP2C	X	-1.569	2.5
125	MP2C	Z	.906	2.5
126	MP2C	Mx	-.00031	2.5
127	MP5B	X	-.657	2.5
128	MP5B	Z	.379	2.5
129	MP5B	Mx	.000356	2.5
130	MP5B	X	-.657	2.5
131	MP5B	Z	.379	2.5
132	MP5B	Mx	.000356	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.426	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-5.426	3
5	MP2A	Z	0	3
6	MP2A	Mx	.003	3
7	MP2A	X	-5.426	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.003	.5
10	MP2A	X	-5.426	3
11	MP2A	Z	0	3
12	MP2A	Mx	.003	3
13	MP2C	X	-6.145	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	-6.145	3
17	MP2C	Z	0	3
18	MP2C	Mx	.003	3
19	MP2C	X	-6.145	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	.003	.5
22	MP2C	X	-6.145	3
23	MP2C	Z	0	3
24	MP2C	Mx	.003	3
25	MP5B	X	-6.242	.5
26	MP5B	Z	0	.5
27	MP5B	Mx	-.002	.5
28	MP5B	X	-6.242	3
29	MP5B	Z	0	3
30	MP5B	Mx	-.002	3
31	MP5B	X	-6.242	.5
32	MP5B	Z	0	.5
33	MP5B	Mx	-.004	.5
34	MP5B	X	-6.242	3
35	MP5B	Z	0	3
36	MP5B	Mx	-.004	3
37	MP3B	X	-1.466	1
38	MP3B	Z	0	1
39	MP3B	Mx	-.000722	1
40	MP3B	X	-1.466	2.5
41	MP3B	Z	0	2.5
42	MP3B	Mx	-.000722	2.5
43	MP4A	X	-1.387	1
44	MP4A	Z	0	1
45	MP4A	Mx	.000693	1
46	MP4A	X	-1.387	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP4A	Z	0	2.5
48	MP4A	Mx	.000693	2.5
49	MP4C	X	-3.946	1
50	MP4C	Z	0	1
51	MP4C	Mx	-.000343	1
52	MP4C	X	-3.946	2.5
53	MP4C	Z	0	2.5
54	MP4C	Mx	-.000343	2.5
55	MP3A	X	-.553	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-.753	.5
59	MP3C	Z	0	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-.623	.5
62	MP5B	Z	0	.5
63	MP5B	Mx	0	.5
64	O1	X	-6.594	1
65	O1	Z	0	1
66	O1	Mx	0	1
67	MP3A	X	-2.259	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.002	2.5
70	MP3B	X	-2.569	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.002	2.5
73	MP3C	X	-3.152	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	-.000456	2.5
76	MP4A	X	-1.914	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	-2.34	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	-3.141	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	-.000455	2.5
85	MP1A	X	-8.975	.5
86	MP1A	Z	0	.5
87	MP1A	Mx	.004	.5
88	MP1A	X	-8.975	3
89	MP1A	Z	0	3
90	MP1A	Mx	.004	3
91	MP1B	X	-9.327	.5
92	MP1B	Z	0	.5
93	MP1B	Mx	-.004	.5
94	MP1B	X	-9.327	3
95	MP1B	Z	0	3
96	MP1B	Mx	-.004	3
97	MP1C	X	-9.988	.5
98	MP1C	Z	0	.5
99	MP1C	Mx	-.000867	.5
100	MP1C	X	-9.988	3
101	MP1C	Z	0	3
102	MP1C	Mx	-.000867	3
103	MP4B	X	-9.327	.5
104	MP4B	Z	0	.5
105	MP4B	Mx	-.004	.5



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
106	MP4B	X	-9.327	3
107	MP4B	Z	0	3
108	MP4B	Mx	-.004	3
109	MP5A	X	-8.975	.5
110	MP5A	Z	0	.5
111	MP5A	Mx	.004	.5
112	MP5A	X	-8.975	3
113	MP5A	Z	0	3
114	MP5A	Mx	.004	3
115	MP5C	X	-9.988	.5
116	MP5C	Z	0	.5
117	MP5C	Mx	-.000867	.5
118	MP5C	X	-9.988	3
119	MP5C	Z	0	3
120	MP5C	Mx	-.000867	3
121	MP2C	X	-1.931	2.5
122	MP2C	Z	0	2.5
123	MP2C	Mx	.000168	2.5
124	MP2C	X	-1.931	2.5
125	MP2C	Z	0	2.5
126	MP2C	Mx	.000168	2.5
127	MP5B	X	-.64	2.5
128	MP5B	Z	0	2.5
129	MP5B	Mx	.000315	2.5
130	MP5B	X	-.64	2.5
131	MP5B	Z	0	2.5
132	MP5B	Mx	.000315	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-6.059	.5
2	MP2A	Z	-3.498	.5
3	MP2A	Mx	.00026	.5
4	MP2A	X	-6.059	3
5	MP2A	Z	-3.498	3
6	MP2A	Mx	.00026	3
7	MP2A	X	-6.059	.5
8	MP2A	Z	-3.498	.5
9	MP2A	Mx	.006	.5
10	MP2A	X	-6.059	3
11	MP2A	Z	-3.498	3
12	MP2A	Mx	.006	3
13	MP2C	X	-6.017	.5
14	MP2C	Z	-3.474	.5
15	MP2C	Mx	.00091	.5
16	MP2C	X	-6.017	3
17	MP2C	Z	-3.474	3
18	MP2C	Mx	.00091	3
19	MP2C	X	-6.017	.5
20	MP2C	Z	-3.474	.5
21	MP2C	Mx	.005	.5
22	MP2C	X	-6.017	3
23	MP2C	Z	-3.474	3
24	MP2C	Mx	.005	3
25	MP5B	X	-6.471	.5
26	MP5B	Z	-3.736	.5
27	MP5B	Mx	4e-5	.5
28	MP5B	X	-6.471	3



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
29	MP5B	Z	-3.736	3
30	MP5B	Mx	4e-5	3
31	MP5B	X	-6.471	.5
32	MP5B	Z	-3.736	.5
33	MP5B	Mx	-.006	.5
34	MP5B	X	-6.471	3
35	MP5B	Z	-3.736	3
36	MP5B	Mx	-.006	3
37	MP3B	X	-2.145	1
38	MP3B	Z	-1.239	1
39	MP3B	Mx	-.000949	1
40	MP3B	X	-2.145	2.5
41	MP3B	Z	-1.239	2.5
42	MP3B	Mx	-.000949	2.5
43	MP4A	X	-1.772	1
44	MP4A	Z	-1.023	1
45	MP4A	Mx	.000886	1
46	MP4A	X	-1.772	2.5
47	MP4A	Z	-1.023	2.5
48	MP4A	Mx	.000886	2.5
49	MP4C	X	-2.542	1
50	MP4C	Z	-1.468	1
51	MP4C	Mx	-.000944	1
52	MP4C	X	-2.542	2.5
53	MP4C	Z	-1.468	2.5
54	MP4C	Mx	-.000944	2.5
55	MP3A	X	-.462	.5
56	MP3A	Z	-.266	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-.574	.5
59	MP3C	Z	-.332	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-.634	.5
62	MP5B	Z	-.366	.5
63	MP5B	Mx	0	.5
64	O1	X	-5.562	1
65	O1	Z	-3.211	1
66	O1	Mx	0	1
67	MP3A	X	-1.877	2.5
68	MP3A	Z	-1.084	2.5
69	MP3A	Mx	.002	2.5
70	MP3B	X	-2.651	2.5
71	MP3B	Z	-1.531	2.5
72	MP3B	Mx	-.000872	2.5
73	MP3C	X	-2.382	2.5
74	MP3C	Z	-1.376	2.5
75	MP3C	Mx	-.001	2.5
76	MP4A	X	-1.55	2.5
77	MP4A	Z	-.895	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	-2.612	2.5
80	MP4B	Z	-1.508	2.5
81	MP4B	Mx	-.00086	2.5
82	MP4C	X	-2.243	2.5
83	MP4C	Z	-1.295	2.5
84	MP4C	Mx	-.001	2.5
85	MP1A	X	-7.683	.5
86	MP1A	Z	-4.436	.5
87	MP1A	Mx	.004	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP1A	X	-7.683	3
89	MP1A	Z	-4.436	3
90	MP1A	Mx	.004	3
91	MP1B	X	-8.561	.5
92	MP1B	Z	-4.943	.5
93	MP1B	Mx	-.002	.5
94	MP1B	X	-8.561	3
95	MP1B	Z	-4.943	3
96	MP1B	Mx	-.002	3
97	MP1C	X	-8.256	.5
98	MP1C	Z	-4.767	.5
99	MP1C	Mx	-.003	.5
100	MP1C	X	-8.256	3
101	MP1C	Z	-4.767	3
102	MP1C	Mx	-.003	3
103	MP4B	X	-8.561	.5
104	MP4B	Z	-4.943	.5
105	MP4B	Mx	-.002	.5
106	MP4B	X	-8.561	3
107	MP4B	Z	-4.943	3
108	MP4B	Mx	-.002	3
109	MP5A	X	-7.683	.5
110	MP5A	Z	-4.436	.5
111	MP5A	Mx	.004	.5
112	MP5A	X	-7.683	3
113	MP5A	Z	-4.436	3
114	MP5A	Mx	.004	3
115	MP5C	X	-8.256	.5
116	MP5C	Z	-4.767	.5
117	MP5C	Mx	-.003	.5
118	MP5C	X	-8.256	3
119	MP5C	Z	-4.767	3
120	MP5C	Mx	-.003	3
121	MP2C	X	-1.216	2.5
122	MP2C	Z	-.702	2.5
123	MP2C	Mx	.000451	2.5
124	MP2C	X	-1.216	2.5
125	MP2C	Z	-.702	2.5
126	MP2C	Mx	.000451	2.5
127	MP5B	X	-1.01	2.5
128	MP5B	Z	-.583	2.5
129	MP5B	Mx	.000447	2.5
130	MP5B	X	-1.01	2.5
131	MP5B	Z	-.583	2.5
132	MP5B	Mx	.000447	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.069	.5
2	MP2A	Z	-8.78	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	-5.069	3
5	MP2A	Z	-8.78	3
6	MP2A	Mx	-.004	3
7	MP2A	X	-5.069	.5
8	MP2A	Z	-8.78	.5
9	MP2A	Mx	.009	.5
10	MP2A	X	-5.069	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location(ft.%)
11	MP2A	Z	-8.78	3
12	MP2A	Mx	.009	3
13	MP2C	X	-4.277	.5
14	MP2C	Z	-7.408	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-4.277	3
17	MP2C	Z	-7.408	3
18	MP2C	Mx	-.002	3
19	MP2C	X	-4.277	.5
20	MP2C	Z	-7.408	.5
21	MP2C	Mx	.007	.5
22	MP2C	X	-4.277	3
23	MP2C	Z	-7.408	3
24	MP2C	Mx	.007	3
25	MP5B	X	-4.49	.5
26	MP5B	Z	-7.778	.5
27	MP5B	Mx	.004	.5
28	MP5B	X	-4.49	3
29	MP5B	Z	-7.778	3
30	MP5B	Mx	.004	3
31	MP5B	X	-4.49	.5
32	MP5B	Z	-7.778	.5
33	MP5B	Mx	-.007	.5
34	MP5B	X	-4.49	3
35	MP5B	Z	-7.778	3
36	MP5B	Mx	-.007	3
37	MP3B	X	-1.859	1
38	MP3B	Z	-3.219	1
39	MP3B	Mx	-.000636	1
40	MP3B	X	-1.859	2.5
41	MP3B	Z	-3.219	2.5
42	MP3B	Mx	-.000636	2.5
43	MP4A	X	-1.683	1
44	MP4A	Z	-2.915	1
45	MP4A	Mx	.000842	1
46	MP4A	X	-1.683	2.5
47	MP4A	Z	-2.915	2.5
48	MP4A	Mx	.000842	2.5
49	MP4C	X	-.848	1
50	MP4C	Z	-1.468	1
51	MP4C	Mx	-.000796	1
52	MP4C	X	-.848	2.5
53	MP4C	Z	-1.468	2.5
54	MP4C	Mx	-.000796	2.5
55	MP3A	X	-.311	.5
56	MP3A	Z	-.539	.5
57	MP3A	Mx	0	.5
58	MP3C	X	-.277	.5
59	MP3C	Z	-.479	.5
60	MP3C	Mx	0	.5
61	MP5B	X	-.376	.5
62	MP5B	Z	-.652	.5
63	MP5B	Mx	0	.5
64	O1	X	-3.59	1
65	O1	Z	-6.218	1
66	O1	Mx	0	1
67	MP3A	X	-1.285	2.5
68	MP3A	Z	-2.225	2.5
69	MP3A	Mx	.002	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
70	MP3B	X	-1.576	2.5
71	MP3B	Z	-2.73	2.5
72	MP3B	Mx	.000456	2.5
73	MP3C	X	-1.129	2.5
74	MP3C	Z	-1.956	2.5
75	MP3C	Mx	-.002	2.5
76	MP4A	X	-1.17	2.5
77	MP4A	Z	-2.027	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	-1.57	2.5
80	MP4B	Z	-2.72	2.5
81	MP4B	Mx	.000455	2.5
82	MP4C	X	-.957	2.5
83	MP4C	Z	-1.658	2.5
84	MP4C	Mx	-.001	2.5
85	MP1A	X	-4.663	.5
86	MP1A	Z	-8.077	.5
87	MP1A	Mx	.004	.5
88	MP1A	X	-4.663	3
89	MP1A	Z	-8.077	3
90	MP1A	Mx	.004	3
91	MP1B	X	-4.994	.5
92	MP1B	Z	-8.65	.5
93	MP1B	Mx	.000867	.5
94	MP1B	X	-4.994	3
95	MP1B	Z	-8.65	3
96	MP1B	Mx	.000867	3
97	MP1C	X	-4.488	.5
98	MP1C	Z	-7.773	.5
99	MP1C	Mx	-.004	.5
100	MP1C	X	-4.488	3
101	MP1C	Z	-7.773	3
102	MP1C	Mx	-.004	3
103	MP4B	X	-4.994	.5
104	MP4B	Z	-8.65	.5
105	MP4B	Mx	.000867	.5
106	MP4B	X	-4.994	3
107	MP4B	Z	-8.65	3
108	MP4B	Mx	.000867	3
109	MP5A	X	-4.663	.5
110	MP5A	Z	-8.077	.5
111	MP5A	Mx	.004	.5
112	MP5A	X	-4.663	3
113	MP5A	Z	-8.077	3
114	MP5A	Mx	.004	3
115	MP5C	X	-4.488	.5
116	MP5C	Z	-7.773	.5
117	MP5C	Mx	-.004	.5
118	MP5C	X	-4.488	3
119	MP5C	Z	-7.773	3
120	MP5C	Mx	-.004	3
121	MP2C	X	-.379	2.5
122	MP2C	Z	-.657	2.5
123	MP2C	Mx	.000356	2.5
124	MP2C	X	-.379	2.5
125	MP2C	Z	-.657	2.5
126	MP2C	Mx	.000356	2.5
127	MP5B	X	-.906	2.5
128	MP5B	Z	-1.569	2.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
129	MP5B	Mx	.00031	2.5
130	MP5B	X	-.906	2.5
131	MP5B	Z	-1.569	2.5
132	MP5B	Mx	.00031	2.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M80	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M78	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M20	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M20	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-1.142	.5
2	MP2A	My	-.000571	.5
3	MP2A	Mz	.000904	.5
4	MP2A	Y	-1.142	3
5	MP2A	My	-.000571	3
6	MP2A	Mz	.000904	3
7	MP2A	Y	-1.142	.5
8	MP2A	My	-.000571	.5
9	MP2A	Mz	-.000904	.5
10	MP2A	Y	-1.142	3
11	MP2A	My	-.000571	3
12	MP2A	Mz	-.000904	3
13	MP2C	Y	-.79	.5
14	MP2C	My	-.000395	.5
15	MP2C	Mz	.000477	.5
16	MP2C	Y	-.79	3
17	MP2C	My	-.000395	3
18	MP2C	Mz	.000477	3
19	MP2C	Y	-.79	.5
20	MP2C	My	-.000395	.5
21	MP2C	Mz	-.000477	.5
22	MP2C	Y	-.79	3
23	MP2C	My	-.000395	3
24	MP2C	Mz	-.000477	3
25	MP5B	Y	-.79	.5
26	MP5B	My	.000306	.5
27	MP5B	Mz	-.000539	.5
28	MP5B	Y	-.79	3
29	MP5B	My	.000306	3
30	MP5B	Mz	-.000539	3
31	MP5B	Y	-.79	.5
32	MP5B	My	.000472	.5
33	MP5B	Mz	.000401	.5



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP5B	Y	-.79	3
35	MP5B	My	.000472	3
36	MP5B	Mz	.000401	3
37	MP3B	Y	-1.087	1
38	MP3B	My	.000535	1
39	MP3B	Mz	-9.4e-5	1
40	MP3B	Y	-1.087	2.5
41	MP3B	My	.000535	2.5
42	MP3B	Mz	-9.4e-5	2.5
43	MP4A	Y	-1.087	1
44	MP4A	My	-.000544	1
45	MP4A	Mz	0	1
46	MP4A	Y	-1.087	2.5
47	MP4A	My	-.000544	2.5
48	MP4A	Mz	0	2.5
49	MP4C	Y	-1.087	1
50	MP4C	My	9.4e-5	1
51	MP4C	Mz	.000535	1
52	MP4C	Y	-1.087	2.5
53	MP4C	My	9.4e-5	2.5
54	MP4C	Mz	.000535	2.5
55	MP3A	Y	-.26	.5
56	MP3A	My	0	.5
57	MP3A	Mz	0	.5
58	MP3C	Y	-.26	.5
59	MP3C	My	0	.5
60	MP3C	Mz	0	.5
61	MP5B	Y	-.26	.5
62	MP5B	My	0	.5
63	MP5B	Mz	0	.5
64	O1	Y	-.799	1
65	O1	My	0	1
66	O1	Mz	0	1
67	MP3A	Y	-2.107	2.5
68	MP3A	My	-.002	2.5
69	MP3A	Mz	-.0006	2.5
70	MP3B	Y	-2.107	2.5
71	MP3B	My	.001	2.5
72	MP3B	Mz	-.001	2.5
73	MP3C	Y	-2.107	2.5
74	MP3C	My	.000305	2.5
75	MP3C	Mz	.002	2.5
76	MP4A	Y	-1.755	2.5
77	MP4A	My	-.001	2.5
78	MP4A	Mz	-.0005	2.5
79	MP4B	Y	-1.755	2.5
80	MP4B	My	.001	2.5
81	MP4B	Mz	-.00094	2.5
82	MP4C	Y	-1.755	2.5
83	MP4C	My	.000254	2.5
84	MP4C	Mz	.001	2.5
85	MP1A	Y	-.337	.5
86	MP1A	My	-.000158	.5
87	MP1A	Mz	-5.8e-5	.5
88	MP1A	Y	-.337	3
89	MP1A	My	-.000158	3
90	MP1A	Mz	-5.8e-5	3
91	MP1B	Y	-.337	.5
92	MP1B	My	.000129	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP1B	Mz	-.000108	.5
94	MP1B	Y	-.337	3
95	MP1B	My	.000129	3
96	MP1B	Mz	-.000108	3
97	MP1C	Y	-.337	.5
98	MP1C	My	2.9e-5	.5
99	MP1C	Mz	.000166	.5
100	MP1C	Y	-.337	3
101	MP1C	My	2.9e-5	3
102	MP1C	Mz	.000166	3
103	MP4B	Y	-.337	.5
104	MP4B	My	.000129	.5
105	MP4B	Mz	-.000108	.5
106	MP4B	Y	-.337	3
107	MP4B	My	.000129	3
108	MP4B	Mz	-.000108	3
109	MP5A	Y	-.337	.5
110	MP5A	My	-.000158	.5
111	MP5A	Mz	-5.8e-5	.5
112	MP5A	Y	-.337	3
113	MP5A	My	-.000158	3
114	MP5A	Mz	-5.8e-5	3
115	MP5C	Y	-.337	.5
116	MP5C	My	2.9e-5	.5
117	MP5C	Mz	.000166	.5
118	MP5C	Y	-.337	3
119	MP5C	My	2.9e-5	3
120	MP5C	Mz	.000166	3
121	MP2C	Y	-.439	2.5
122	MP2C	My	-3.8e-5	2.5
123	MP2C	Mz	-.000216	2.5
124	MP2C	Y	-.439	2.5
125	MP2C	My	-3.8e-5	2.5
126	MP2C	Mz	-.000216	2.5
127	MP5B	Y	-.439	2.5
128	MP5B	My	-.000216	2.5
129	MP5B	Mz	3.8e-5	2.5
130	MP5B	Y	-.439	2.5
131	MP5B	My	-.000216	2.5
132	MP5B	Mz	3.8e-5	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Z	-2.855	.5
2	MP2A	Mx	-.002	.5
3	MP2A	Z	-2.855	3
4	MP2A	Mx	-.002	3
5	MP2A	Z	-2.855	.5
6	MP2A	Mx	.002	.5
7	MP2A	Z	-2.855	3
8	MP2A	Mx	.002	3
9	MP2C	Z	-1.975	.5
10	MP2C	Mx	-.001	.5
11	MP2C	Z	-1.975	3
12	MP2C	Mx	-.001	3
13	MP2C	Z	-1.975	.5
14	MP2C	Mx	.001	.5
15	MP2C	Z	-1.975	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft %]
16	MP2C	Mx	.001	3
17	MP5B	Z	-1.975	.5
18	MP5B	Mx	.001	.5
19	MP5B	Z	-1.975	3
20	MP5B	Mx	.001	3
21	MP5B	Z	-1.975	.5
22	MP5B	Mx	-.001	.5
23	MP5B	Z	-1.975	3
24	MP5B	Mx	-.001	3
25	MP3B	Z	-2.718	1
26	MP3B	Mx	.000236	1
27	MP3B	Z	-2.718	2.5
28	MP3B	Mx	.000236	2.5
29	MP4A	Z	-2.718	1
30	MP4A	Mx	0	1
31	MP4A	Z	-2.718	2.5
32	MP4A	Mx	0	2.5
33	MP4C	Z	-2.718	1
34	MP4C	Mx	-.001	1
35	MP4C	Z	-2.718	2.5
36	MP4C	Mx	-.001	2.5
37	MP3A	Z	-.649	.5
38	MP3A	Mx	0	.5
39	MP3C	Z	-.649	.5
40	MP3C	Mx	0	.5
41	MP5B	Z	-.649	.5
42	MP5B	Mx	0	.5
43	O1	Z	-1.997	1
44	O1	Mx	0	1
45	MP3A	Z	-5.267	2.5
46	MP3A	Mx	.002	2.5
47	MP3B	Z	-5.267	2.5
48	MP3B	Mx	.003	2.5
49	MP3C	Z	-5.267	2.5
50	MP3C	Mx	-.004	2.5
51	MP4A	Z	-4.387	2.5
52	MP4A	Mx	.001	2.5
53	MP4B	Z	-4.387	2.5
54	MP4B	Mx	.002	2.5
55	MP4C	Z	-4.387	2.5
56	MP4C	Mx	-.004	2.5
57	MP1A	Z	-.842	.5
58	MP1A	Mx	.000144	.5
59	MP1A	Z	-.842	3
60	MP1A	Mx	.000144	3
61	MP1B	Z	-.842	.5
62	MP1B	Mx	.000271	.5
63	MP1B	Z	-.842	3
64	MP1B	Mx	.000271	3
65	MP1C	Z	-.842	.5
66	MP1C	Mx	-.000415	.5
67	MP1C	Z	-.842	3
68	MP1C	Mx	-.000415	3
69	MP4B	Z	-.842	.5
70	MP4B	Mx	.000271	.5
71	MP4B	Z	-.842	3
72	MP4B	Mx	.000271	3
73	MP5A	Z	-.842	.5
74	MP5A	Mx	.000144	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP5A	Z	- .842	3
76	MP5A	Mx	.000144	3
77	MP5C	Z	- .842	.5
78	MP5C	Mx	-.000415	.5
79	MP5C	Z	- .842	3
80	MP5C	Mx	-.000415	3
81	MP2C	Z	-1.098	2.5
82	MP2C	Mx	.000541	2.5
83	MP2C	Z	-1.098	2.5
84	MP2C	Mx	.000541	2.5
85	MP5B	Z	-1.098	2.5
86	MP5B	Mx	-9.5e-5	2.5
87	MP5B	Z	-1.098	2.5
88	MP5B	Mx	-9.5e-5	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.855	.5
2	MP2A	Mx	- .001	.5
3	MP2A	X	2.855	3
4	MP2A	Mx	- .001	3
5	MP2A	X	2.855	.5
6	MP2A	Mx	- .001	.5
7	MP2A	X	2.855	3
8	MP2A	Mx	- .001	3
9	MP2C	X	1.975	.5
10	MP2C	Mx	-.000987	.5
11	MP2C	X	1.975	3
12	MP2C	Mx	-.000987	3
13	MP2C	X	1.975	.5
14	MP2C	Mx	-.000987	.5
15	MP2C	X	1.975	3
16	MP2C	Mx	-.000987	3
17	MP5B	X	1.975	.5
18	MP5B	Mx	.000765	.5
19	MP5B	X	1.975	3
20	MP5B	Mx	.000765	3
21	MP5B	X	1.975	.5
22	MP5B	Mx	.001	.5
23	MP5B	X	1.975	3
24	MP5B	Mx	.001	3
25	MP3B	X	2.718	1
26	MP3B	Mx	.001	1
27	MP3B	X	2.718	2.5
28	MP3B	Mx	.001	2.5
29	MP4A	X	2.718	1
30	MP4A	Mx	- .001	1
31	MP4A	X	2.718	2.5
32	MP4A	Mx	- .001	2.5
33	MP4C	X	2.718	1
34	MP4C	Mx	.000236	1
35	MP4C	X	2.718	2.5
36	MP4C	Mx	.000236	2.5
37	MP3A	X	.649	.5
38	MP3A	Mx	0	.5
39	MP3C	X	.649	.5
40	MP3C	Mx	0	.5
41	MP5B	X	.649	.5



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
42	MP5B	Mx	0	.5
43	O1	X	1.997	1
44	O1	Mx	0	1
45	MP3A	X	5.267	2.5
46	MP3A	Mx	-.004	2.5
47	MP3B	X	5.267	2.5
48	MP3B	Mx	.003	2.5
49	MP3C	X	5.267	2.5
50	MP3C	Mx	.000762	2.5
51	MP4A	X	4.387	2.5
52	MP4A	Mx	-.003	2.5
53	MP4B	X	4.387	2.5
54	MP4B	Mx	.003	2.5
55	MP4C	X	4.387	2.5
56	MP4C	Mx	.000635	2.5
57	MP1A	X	.842	.5
58	MP1A	Mx	-.000396	.5
59	MP1A	X	.842	3
60	MP1A	Mx	-.000396	3
61	MP1B	X	.842	.5
62	MP1B	Mx	.000323	.5
63	MP1B	X	.842	3
64	MP1B	Mx	.000323	3
65	MP1C	X	.842	.5
66	MP1C	Mx	7.3e-5	.5
67	MP1C	X	.842	3
68	MP1C	Mx	7.3e-5	3
69	MP4B	X	.842	.5
70	MP4B	Mx	.000323	.5
71	MP4B	X	.842	3
72	MP4B	Mx	.000323	3
73	MP5A	X	.842	.5
74	MP5A	Mx	-.000396	.5
75	MP5A	X	.842	3
76	MP5A	Mx	-.000396	3
77	MP5C	X	.842	.5
78	MP5C	Mx	7.3e-5	.5
79	MP5C	X	.842	3
80	MP5C	Mx	7.3e-5	3
81	MP2C	X	1.098	2.5
82	MP2C	Mx	-9.5e-5	2.5
83	MP2C	X	1.098	2.5
84	MP2C	Mx	-9.5e-5	2.5
85	MP5B	X	1.098	2.5
86	MP5B	Mx	-.000541	2.5
87	MP5B	X	1.098	2.5
88	MP5B	Mx	-.000541	2.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	Y	-6.512	-6.512	0	%100
2	M64	Y	-10.031	-10.031	0	%100
3	M65	Y	-10.031	-10.031	0	%100
4	M71	Y	-10.031	-10.031	0	%100
5	M138C	Y	-10.031	-10.031	0	%100
6	M140C	Y	-10.031	-10.031	0	%100
7	M142C	Y	-10.031	-10.031	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
8	M144C	Y	-10.031	-10.031	0	%100
9	M146C	Y	-10.031	-10.031	0	%100
10	M163A	Y	-10.031	-10.031	0	%100
11	M164A	Y	-10.031	-10.031	0	%100
12	M165A	Y	-10.031	-10.031	0	%100
13	M169A	Y	-9.534	-9.534	0	%100
14	M154A	Y	-10.031	-10.031	0	%100
15	M155A	Y	-10.031	-10.031	0	%100
16	M157A	Y	-10.031	-10.031	0	%100
17	M158A	Y	-10.031	-10.031	0	%100
18	M160A	Y	-10.031	-10.031	0	%100
19	M161A	Y	-10.031	-10.031	0	%100
20	M163B	Y	-10.031	-10.031	0	%100
21	M164B	Y	-10.031	-10.031	0	%100
22	M166A	Y	-10.031	-10.031	0	%100
23	M167A	Y	-10.031	-10.031	0	%100
24	M169B	Y	-9.534	-9.534	0	%100
25	M170B	Y	-9.534	-9.534	0	%100
26	M173A	Y	-9.534	-9.534	0	%100
27	M174A	Y	-9.534	-9.534	0	%100
28	M177A	Y	-9.534	-9.534	0	%100
29	M178A	Y	-9.534	-9.534	0	%100
30	M183A	Y	-5.571	-5.571	0	%100
31	M186A	Y	-5.571	-5.571	0	%100
32	M105	Y	-6.512	-6.512	0	%100
33	M106A	Y	-6.512	-6.512	0	%100
34	M105A	Y	-9.534	-9.534	0	%100
35	M106B	Y	-9.534	-9.534	0	%100
36	M93A	Y	-5.571	-5.571	0	%100
37	M95A	Y	-5.571	-5.571	0	%100
38	M101A	Y	-5.571	-5.571	0	%100
39	M103A	Y	-5.571	-5.571	0	%100
40	MP5A	Y	-4.935	-4.935	0	%100
41	MP4A	Y	-4.935	-4.935	0	%100
42	MP2A	Y	-5.636	-5.636	0	%100
43	MP1A	Y	-4.935	-4.935	0	%100
44	MP3A	Y	-4.935	-4.935	0	%100
45	MP5C	Y	-4.935	-4.935	0	%100
46	MP4C	Y	-4.935	-4.935	0	%100
47	MP2C	Y	-5.636	-5.636	0	%100
48	MP1C	Y	-4.935	-4.935	0	%100
49	MP3C	Y	-4.935	-4.935	0	%100
50	MP5B	Y	-4.935	-4.935	0	%100
51	MP4B	Y	-4.935	-4.935	0	%100
52	MP2B	Y	-5.636	-5.636	0	%100
53	MP1B	Y	-4.935	-4.935	0	%100
54	MP3B	Y	-4.935	-4.935	0	%100
55	O1	Y	-4.935	-4.935	0	%100
56	M108	Y	-5.636	-5.636	0	%100
57	M110	Y	-5.636	-5.636	0	%100
58	M111	Y	-5.636	-5.636	0	%100
59	M131	Y	-7.552	-7.552	0	%100
60	M132	Y	-7.552	-7.552	0	%100
61	M133	Y	-7.552	-7.552	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
2	M20	Z	-11.503	-11.503	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	-14.881	-14.881	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	-20.085	-20.085	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	-20.815	-20.815	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	-20.815	-20.815	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	-5.204	-5.204	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	-5.204	-5.204	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	-5.204	-5.204	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	-5.204	-5.204	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	-4.93	-4.93	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	-19.72	-19.72	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	-4.93	-4.93	0	%100
25	M169A	X	0	0	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	-14.881	-14.881	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	-20.085	-20.085	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	-14.881	-14.881	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	-5.021	-5.021	0	%100
35	M160A	X	0	0	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	-5.021	-5.021	0	%100
39	M163B	X	0	0	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	-5.021	-5.021	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	-14.881	-14.881	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	-5.021	-5.021	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	-10.845	-10.845	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	-10.845	-10.845	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	-2.711	-2.711	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	-2.711	-2.711	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	-2.711	-2.711	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	-2.711	-2.711	0	%100
59	M183A	X	0	0	0	%100
60	M183A	Z	-2.767	-2.767	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
61	M186A	X	0	0	%100
62	M186A	Z	-2.767	-2.767	%100
63	M105	X	0	0	%100
64	M105	Z	-2.876	-2.876	%100
65	M106A	X	0	0	%100
66	M106A	Z	-2.876	-2.876	%100
67	M105A	X	0	0	%100
68	M105A	Z	-9.79	-9.79	%100
69	M106B	X	0	0	%100
70	M106B	Z	-9.79	-9.79	%100
71	M93A	X	0	0	%100
72	M93A	Z	-10.915	-10.915	%100
73	M95A	X	0	0	%100
74	M95A	Z	-2.69	-2.69	%100
75	M101A	X	0	0	%100
76	M101A	Z	-2.69	-2.69	%100
77	M103A	X	0	0	%100
78	M103A	Z	-10.915	-10.915	%100
79	MP5A	X	0	0	%100
80	MP5A	Z	-7.806	-7.806	%100
81	MP4A	X	0	0	%100
82	MP4A	Z	-7.806	-7.806	%100
83	MP2A	X	0	0	%100
84	MP2A	Z	-9.449	-9.449	%100
85	MP1A	X	0	0	%100
86	MP1A	Z	-7.806	-7.806	%100
87	MP3A	X	0	0	%100
88	MP3A	Z	-7.806	-7.806	%100
89	MP5C	X	0	0	%100
90	MP5C	Z	-7.806	-7.806	%100
91	MP4C	X	0	0	%100
92	MP4C	Z	-7.806	-7.806	%100
93	MP2C	X	0	0	%100
94	MP2C	Z	-9.449	-9.449	%100
95	MP1C	X	0	0	%100
96	MP1C	Z	-7.806	-7.806	%100
97	MP3C	X	0	0	%100
98	MP3C	Z	-7.806	-7.806	%100
99	MP5B	X	0	0	%100
100	MP5B	Z	-7.806	-7.806	%100
101	MP4B	X	0	0	%100
102	MP4B	Z	-7.806	-7.806	%100
103	MP2B	X	0	0	%100
104	MP2B	Z	-9.449	-9.449	%100
105	MP1B	X	0	0	%100
106	MP1B	Z	-7.806	-7.806	%100
107	MP3B	X	0	0	%100
108	MP3B	Z	-7.806	-7.806	%100
109	O1	X	0	0	%100
110	O1	Z	-6.383	-6.383	%100
111	M108	X	0	0	%100
112	M108	Z	-9.449	-9.449	%100
113	M110	X	0	0	%100
114	M110	Z	-2.362	-2.362	%100
115	M111	X	0	0	%100
116	M111	Z	-2.362	-2.362	%100
117	M131	X	0	0	%100
118	M131	Z	-2.664	-2.664	%100
119	M132	X	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
120	M132	Z	-10.655	-10.655	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	-2.664	-2.664	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	X	4.314	4.314	0	%100
2	M20	Z	-7.471	-7.471	0	%100
3	M64	X	2.48	2.48	0	%100
4	M64	Z	-4.296	-4.296	0	%100
5	M65	X	7.532	7.532	0	%100
6	M65	Z	-13.045	-13.045	0	%100
7	M71	X	7.806	7.806	0	%100
8	M71	Z	-13.52	-13.52	0	%100
9	M138C	X	7.806	7.806	0	%100
10	M138C	Z	-13.52	-13.52	0	%100
11	M140C	X	7.806	7.806	0	%100
12	M140C	Z	-13.52	-13.52	0	%100
13	M142C	X	7.806	7.806	0	%100
14	M142C	Z	-13.52	-13.52	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	7.395	7.395	0	%100
20	M163A	Z	-12.808	-12.808	0	%100
21	M164A	X	7.395	7.395	0	%100
22	M164A	Z	-12.808	-12.808	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	1.632	1.632	0	%100
26	M169A	Z	-2.826	-2.826	0	%100
27	M154A	X	9.921	9.921	0	%100
28	M154A	Z	-17.183	-17.183	0	%100
29	M155A	X	7.532	7.532	0	%100
30	M155A	Z	-13.045	-13.045	0	%100
31	M157A	X	9.921	9.921	0	%100
32	M157A	Z	-17.183	-17.183	0	%100
33	M158A	X	7.532	7.532	0	%100
34	M158A	Z	-13.045	-13.045	0	%100
35	M160A	X	2.48	2.48	0	%100
36	M160A	Z	-4.296	-4.296	0	%100
37	M161A	X	7.532	7.532	0	%100
38	M161A	Z	-13.045	-13.045	0	%100
39	M163B	X	2.48	2.48	0	%100
40	M163B	Z	-4.296	-4.296	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	2.48	2.48	0	%100
44	M166A	Z	-4.296	-4.296	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	4.067	4.067	0	%100
48	M169B	Z	-7.044	-7.044	0	%100
49	M170B	X	4.067	4.067	0	%100
50	M170B	Z	-7.044	-7.044	0	%100
51	M173A	X	4.067	4.067	0	%100
52	M173A	Z	-7.044	-7.044	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
53	M174A	X	4.067	4.067	0	%100
54	M174A	Z	-7.044	-7.044	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	9.1e-5	9.1e-5	0	%100
60	M183A	Z	-0.000158	-0.000158	0	%100
61	M186A	X	4.112	4.112	0	%100
62	M186A	Z	-7.123	-7.123	0	%100
63	M105	X	4.314	4.314	0	%100
64	M105	Z	-7.471	-7.471	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	1.632	1.632	0	%100
68	M105A	Z	-2.826	-2.826	0	%100
69	M106B	X	6.527	6.527	0	%100
70	M106B	Z	-11.305	-11.305	0	%100
71	M93A	X	4.112	4.112	0	%100
72	M93A	Z	-7.123	-7.123	0	%100
73	M95A	X	9.1e-5	9.1e-5	0	%100
74	M95A	Z	-0.000158	-0.000158	0	%100
75	M101A	X	4.074	4.074	0	%100
76	M101A	Z	-7.056	-7.056	0	%100
77	M103A	X	4.074	4.074	0	%100
78	M103A	Z	-7.056	-7.056	0	%100
79	MP5A	X	3.903	3.903	0	%100
80	MP5A	Z	-6.76	-6.76	0	%100
81	MP4A	X	3.903	3.903	0	%100
82	MP4A	Z	-6.76	-6.76	0	%100
83	MP2A	X	4.724	4.724	0	%100
84	MP2A	Z	-8.183	-8.183	0	%100
85	MP1A	X	3.903	3.903	0	%100
86	MP1A	Z	-6.76	-6.76	0	%100
87	MP3A	X	3.903	3.903	0	%100
88	MP3A	Z	-6.76	-6.76	0	%100
89	MP5C	X	3.903	3.903	0	%100
90	MP5C	Z	-6.76	-6.76	0	%100
91	MP4C	X	3.903	3.903	0	%100
92	MP4C	Z	-6.76	-6.76	0	%100
93	MP2C	X	4.724	4.724	0	%100
94	MP2C	Z	-8.183	-8.183	0	%100
95	MP1C	X	3.903	3.903	0	%100
96	MP1C	Z	-6.76	-6.76	0	%100
97	MP3C	X	3.903	3.903	0	%100
98	MP3C	Z	-6.76	-6.76	0	%100
99	MP5B	X	3.903	3.903	0	%100
100	MP5B	Z	-6.76	-6.76	0	%100
101	MP4B	X	3.903	3.903	0	%100
102	MP4B	Z	-6.76	-6.76	0	%100
103	MP2B	X	4.724	4.724	0	%100
104	MP2B	Z	-8.183	-8.183	0	%100
105	MP1B	X	3.903	3.903	0	%100
106	MP1B	Z	-6.76	-6.76	0	%100
107	MP3B	X	3.903	3.903	0	%100
108	MP3B	Z	-6.76	-6.76	0	%100
109	O1	X	3.191	3.191	0	%100
110	O1	Z	-5.528	-5.528	0	%100
111	M108	X	3.543	3.543	0	%100



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
112	M108	Z	-6.137	-6.137	0	%100
113	M110	X	3.543	3.543	0	%100
114	M110	Z	-6.137	-6.137	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	3.996	3.996	0	%100
120	M132	Z	-6.921	-6.921	0	%100
121	M133	X	3.996	3.996	0	%100
122	M133	Z	-6.921	-6.921	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	X	2.49	2.49	0	%100
2	M20	Z	-1.438	-1.438	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	4.348	4.348	0	%100
6	M65	Z	-2.511	-2.511	0	%100
7	M71	X	4.507	4.507	0	%100
8	M71	Z	-2.602	-2.602	0	%100
9	M138C	X	4.507	4.507	0	%100
10	M138C	Z	-2.602	-2.602	0	%100
11	M140C	X	18.026	18.026	0	%100
12	M140C	Z	-10.408	-10.408	0	%100
13	M142C	X	18.026	18.026	0	%100
14	M142C	Z	-10.408	-10.408	0	%100
15	M144C	X	4.507	4.507	0	%100
16	M144C	Z	-2.602	-2.602	0	%100
17	M146C	X	4.507	4.507	0	%100
18	M146C	Z	-2.602	-2.602	0	%100
19	M163A	X	17.078	17.078	0	%100
20	M163A	Z	-9.86	-9.86	0	%100
21	M164A	X	4.269	4.269	0	%100
22	M164A	Z	-2.465	-2.465	0	%100
23	M165A	X	4.269	4.269	0	%100
24	M165A	Z	-2.465	-2.465	0	%100
25	M169A	X	8.479	8.479	0	%100
26	M169A	Z	-4.895	-4.895	0	%100
27	M154A	X	12.887	12.887	0	%100
28	M154A	Z	-7.44	-7.44	0	%100
29	M155A	X	4.348	4.348	0	%100
30	M155A	Z	-2.511	-2.511	0	%100
31	M157A	X	12.887	12.887	0	%100
32	M157A	Z	-7.44	-7.44	0	%100
33	M158A	X	17.394	17.394	0	%100
34	M158A	Z	-10.042	-10.042	0	%100
35	M160A	X	12.887	12.887	0	%100
36	M160A	Z	-7.44	-7.44	0	%100
37	M161A	X	17.394	17.394	0	%100
38	M161A	Z	-10.042	-10.042	0	%100
39	M163B	X	12.887	12.887	0	%100
40	M163B	Z	-7.44	-7.44	0	%100
41	M164B	X	4.348	4.348	0	%100
42	M164B	Z	-2.511	-2.511	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
45	M167A	X	4.348	4.348	0	%100
46	M167A	Z	-2.511	-2.511	0	%100
47	M169B	X	2.348	2.348	0	%100
48	M169B	Z	-1.356	-1.356	0	%100
49	M170B	X	2.348	2.348	0	%100
50	M170B	Z	-1.356	-1.356	0	%100
51	M173A	X	9.392	9.392	0	%100
52	M173A	Z	-5.422	-5.422	0	%100
53	M174A	X	9.392	9.392	0	%100
54	M174A	Z	-5.422	-5.422	0	%100
55	M177A	X	2.348	2.348	0	%100
56	M177A	Z	-1.356	-1.356	0	%100
57	M178A	X	2.348	2.348	0	%100
58	M178A	Z	-1.356	-1.356	0	%100
59	M183A	X	2.33	2.33	0	%100
60	M183A	Z	-1.345	-1.345	0	%100
61	M186A	X	9.452	9.452	0	%100
62	M186A	Z	-5.457	-5.457	0	%100
63	M105	X	9.962	9.962	0	%100
64	M105	Z	-5.752	-5.752	0	%100
65	M106A	X	2.49	2.49	0	%100
66	M106A	Z	-1.438	-1.438	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	8.479	8.479	0	%100
70	M106B	Z	-4.895	-4.895	0	%100
71	M93A	X	2.397	2.397	0	%100
72	M93A	Z	-1.384	-1.384	0	%100
73	M95A	X	2.397	2.397	0	%100
74	M95A	Z	-1.384	-1.384	0	%100
75	M101A	X	9.452	9.452	0	%100
76	M101A	Z	-5.457	-5.457	0	%100
77	M103A	X	2.33	2.33	0	%100
78	M103A	Z	-1.345	-1.345	0	%100
79	MP5A	X	6.76	6.76	0	%100
80	MP5A	Z	-3.903	-3.903	0	%100
81	MP4A	X	6.76	6.76	0	%100
82	MP4A	Z	-3.903	-3.903	0	%100
83	MP2A	X	8.183	8.183	0	%100
84	MP2A	Z	-4.724	-4.724	0	%100
85	MP1A	X	6.76	6.76	0	%100
86	MP1A	Z	-3.903	-3.903	0	%100
87	MP3A	X	6.76	6.76	0	%100
88	MP3A	Z	-3.903	-3.903	0	%100
89	MP5C	X	6.76	6.76	0	%100
90	MP5C	Z	-3.903	-3.903	0	%100
91	MP4C	X	6.76	6.76	0	%100
92	MP4C	Z	-3.903	-3.903	0	%100
93	MP2C	X	8.183	8.183	0	%100
94	MP2C	Z	-4.724	-4.724	0	%100
95	MP1C	X	6.76	6.76	0	%100
96	MP1C	Z	-3.903	-3.903	0	%100
97	MP3C	X	6.76	6.76	0	%100
98	MP3C	Z	-3.903	-3.903	0	%100
99	MP5B	X	6.76	6.76	0	%100
100	MP5B	Z	-3.903	-3.903	0	%100
101	MP4B	X	6.76	6.76	0	%100
102	MP4B	Z	-3.903	-3.903	0	%100
103	MP2B	X	8.183	8.183	0	%100



Company Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
104	MP2B	Z	-4.724	-4.724	0	%100
105	MP1B	X	6.76	6.76	0	%100
106	MP1B	Z	-3.903	-3.903	0	%100
107	MP3B	X	6.76	6.76	0	%100
108	MP3B	Z	-3.903	-3.903	0	%100
109	O1	X	5.528	5.528	0	%100
110	O1	Z	-3.191	-3.191	0	%100
111	M108	X	2.046	2.046	0	%100
112	M108	Z	-1.181	-1.181	0	%100
113	M110	X	8.183	8.183	0	%100
114	M110	Z	-4.724	-4.724	0	%100
115	M111	X	2.046	2.046	0	%100
116	M111	Z	-1.181	-1.181	0	%100
117	M131	X	2.307	2.307	0	%100
118	M131	Z	-1.332	-1.332	0	%100
119	M132	X	2.307	2.307	0	%100
120	M132	Z	-1.332	-1.332	0	%100
121	M133	X	9.228	9.228	0	%100
122	M133	Z	-5.328	-5.328	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M64	X	4.96	4.96	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	0	0	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	0	0	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	0	0	0	%100
11	M140C	X	15.611	15.611	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	15.611	15.611	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	15.611	15.611	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	15.611	15.611	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	14.79	14.79	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	0	0	0	%100
23	M165A	X	14.79	14.79	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	13.054	13.054	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	4.96	4.96	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	0	0	0	%100
31	M157A	X	4.96	4.96	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	15.064	15.064	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	19.841	19.841	0	%100
36	M160A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
37	M161A	X	15.064	15.064	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	19.841	19.841	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	15.064	15.064	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	4.96	4.96	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	15.064	15.064	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	0	0	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	0	0	0	%100
51	M173A	X	8.133	8.133	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	8.133	8.133	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	8.133	8.133	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	8.133	8.133	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	8.147	8.147	0	%100
60	M183A	Z	0	0	0	%100
61	M186A	X	8.147	8.147	0	%100
62	M186A	Z	0	0	0	%100
63	M105	X	8.627	8.627	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	8.627	8.627	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	3.263	3.263	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	3.263	3.263	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	.000182	.000182	0	%100
72	M93A	Z	0	0	0	%100
73	M95A	X	8.225	8.225	0	%100
74	M95A	Z	0	0	0	%100
75	M101A	X	8.225	8.225	0	%100
76	M101A	Z	0	0	0	%100
77	M103A	X	.000182	.000182	0	%100
78	M103A	Z	0	0	0	%100
79	MP5A	X	7.806	7.806	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	7.806	7.806	0	%100
82	MP4A	Z	0	0	0	%100
83	MP2A	X	9.449	9.449	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	7.806	7.806	0	%100
86	MP1A	Z	0	0	0	%100
87	MP3A	X	7.806	7.806	0	%100
88	MP3A	Z	0	0	0	%100
89	MP5C	X	7.806	7.806	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	7.806	7.806	0	%100
92	MP4C	Z	0	0	0	%100
93	MP2C	X	9.449	9.449	0	%100
94	MP2C	Z	0	0	0	%100
95	MP1C	X	7.806	7.806	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
96	MP1C	Z	0	0	0	%100
97	MP3C	X	7.806	7.806	0	%100
98	MP3C	Z	0	0	0	%100
99	MP5B	X	7.806	7.806	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	7.806	7.806	0	%100
102	MP4B	Z	0	0	0	%100
103	MP2B	X	9.449	9.449	0	%100
104	MP2B	Z	0	0	0	%100
105	MP1B	X	7.806	7.806	0	%100
106	MP1B	Z	0	0	0	%100
107	MP3B	X	7.806	7.806	0	%100
108	MP3B	Z	0	0	0	%100
109	O1	X	6.383	6.383	0	%100
110	O1	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M110	X	7.087	7.087	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	7.087	7.087	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	7.991	7.991	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	0	0	0	%100
121	M133	X	7.991	7.991	0	%100
122	M133	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....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	2.49	2.49	0	%100
2	M20	Z	1.438	1.438	0	%100
3	M64	X	12.887	12.887	0	%100
4	M64	Z	7.44	7.44	0	%100
5	M65	X	4.348	4.348	0	%100
6	M65	Z	2.511	2.511	0	%100
7	M71	X	4.507	4.507	0	%100
8	M71	Z	2.602	2.602	0	%100
9	M138C	X	4.507	4.507	0	%100
10	M138C	Z	2.602	2.602	0	%100
11	M140C	X	4.507	4.507	0	%100
12	M140C	Z	2.602	2.602	0	%100
13	M142C	X	4.507	4.507	0	%100
14	M142C	Z	2.602	2.602	0	%100
15	M144C	X	18.026	18.026	0	%100
16	M144C	Z	10.408	10.408	0	%100
17	M146C	X	18.026	18.026	0	%100
18	M146C	Z	10.408	10.408	0	%100
19	M163A	X	4.269	4.269	0	%100
20	M163A	Z	2.465	2.465	0	%100
21	M164A	X	4.269	4.269	0	%100
22	M164A	Z	2.465	2.465	0	%100
23	M165A	X	17.078	17.078	0	%100
24	M165A	Z	9.86	9.86	0	%100
25	M169A	X	8.479	8.479	0	%100
26	M169A	Z	4.895	4.895	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	0	0	0	%100



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
29	M155A	X	4.348	4.348	0	%100
30	M155A	Z	2.511	2.511	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	4.348	4.348	0	%100
34	M158A	Z	2.511	2.511	0	%100
35	M160A	X	12.887	12.887	0	%100
36	M160A	Z	7.44	7.44	0	%100
37	M161A	X	4.348	4.348	0	%100
38	M161A	Z	2.511	2.511	0	%100
39	M163B	X	12.887	12.887	0	%100
40	M163B	Z	7.44	7.44	0	%100
41	M164B	X	17.394	17.394	0	%100
42	M164B	Z	10.042	10.042	0	%100
43	M166A	X	12.887	12.887	0	%100
44	M166A	Z	7.44	7.44	0	%100
45	M167A	X	17.394	17.394	0	%100
46	M167A	Z	10.042	10.042	0	%100
47	M169B	X	2.348	2.348	0	%100
48	M169B	Z	1.356	1.356	0	%100
49	M170B	X	2.348	2.348	0	%100
50	M170B	Z	1.356	1.356	0	%100
51	M173A	X	2.348	2.348	0	%100
52	M173A	Z	1.356	1.356	0	%100
53	M174A	X	2.348	2.348	0	%100
54	M174A	Z	1.356	1.356	0	%100
55	M177A	X	9.392	9.392	0	%100
56	M177A	Z	5.422	5.422	0	%100
57	M178A	X	9.392	9.392	0	%100
58	M178A	Z	5.422	5.422	0	%100
59	M183A	X	9.452	9.452	0	%100
60	M183A	Z	5.457	5.457	0	%100
61	M186A	X	2.33	2.33	0	%100
62	M186A	Z	1.345	1.345	0	%100
63	M105	X	2.49	2.49	0	%100
64	M105	Z	1.438	1.438	0	%100
65	M106A	X	9.962	9.962	0	%100
66	M106A	Z	5.752	5.752	0	%100
67	M105A	X	8.479	8.479	0	%100
68	M105A	Z	4.895	4.895	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	2.33	2.33	0	%100
72	M93A	Z	1.345	1.345	0	%100
73	M95A	X	9.452	9.452	0	%100
74	M95A	Z	5.457	5.457	0	%100
75	M101A	X	2.397	2.397	0	%100
76	M101A	Z	1.384	1.384	0	%100
77	M103A	X	2.397	2.397	0	%100
78	M103A	Z	1.384	1.384	0	%100
79	MP5A	X	6.76	6.76	0	%100
80	MP5A	Z	3.903	3.903	0	%100
81	MP4A	X	6.76	6.76	0	%100
82	MP4A	Z	3.903	3.903	0	%100
83	MP2A	X	8.183	8.183	0	%100
84	MP2A	Z	4.724	4.724	0	%100
85	MP1A	X	6.76	6.76	0	%100
86	MP1A	Z	3.903	3.903	0	%100
87	MP3A	X	6.76	6.76	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
88	MP3A	Z	3.903	3.903	0	%100
89	MP5C	X	6.76	6.76	0	%100
90	MP5C	Z	3.903	3.903	0	%100
91	MP4C	X	6.76	6.76	0	%100
92	MP4C	Z	3.903	3.903	0	%100
93	MP2C	X	8.183	8.183	0	%100
94	MP2C	Z	4.724	4.724	0	%100
95	MP1C	X	6.76	6.76	0	%100
96	MP1C	Z	3.903	3.903	0	%100
97	MP3C	X	6.76	6.76	0	%100
98	MP3C	Z	3.903	3.903	0	%100
99	MP5B	X	6.76	6.76	0	%100
100	MP5B	Z	3.903	3.903	0	%100
101	MP4B	X	6.76	6.76	0	%100
102	MP4B	Z	3.903	3.903	0	%100
103	MP2B	X	8.183	8.183	0	%100
104	MP2B	Z	4.724	4.724	0	%100
105	MP1B	X	6.76	6.76	0	%100
106	MP1B	Z	3.903	3.903	0	%100
107	MP3B	X	6.76	6.76	0	%100
108	MP3B	Z	3.903	3.903	0	%100
109	O1	X	5.528	5.528	0	%100
110	O1	Z	3.191	3.191	0	%100
111	M108	X	2.046	2.046	0	%100
112	M108	Z	1.181	1.181	0	%100
113	M110	X	2.046	2.046	0	%100
114	M110	Z	1.181	1.181	0	%100
115	M111	X	8.183	8.183	0	%100
116	M111	Z	4.724	4.724	0	%100
117	M131	X	9.228	9.228	0	%100
118	M131	Z	5.328	5.328	0	%100
119	M132	X	2.307	2.307	0	%100
120	M132	Z	1.332	1.332	0	%100
121	M133	X	2.307	2.307	0	%100
122	M133	Z	1.332	1.332	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	4.314	4.314	0	%100
2	M20	Z	7.471	7.471	0	%100
3	M64	X	9.921	9.921	0	%100
4	M64	Z	17.183	17.183	0	%100
5	M65	X	7.532	7.532	0	%100
6	M65	Z	13.045	13.045	0	%100
7	M71	X	7.806	7.806	0	%100
8	M71	Z	13.52	13.52	0	%100
9	M138C	X	7.806	7.806	0	%100
10	M138C	Z	13.52	13.52	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	7.806	7.806	0	%100
16	M144C	Z	13.52	13.52	0	%100
17	M146C	X	7.806	7.806	0	%100
18	M146C	Z	13.52	13.52	0	%100
19	M163A	X	0	0	0	%100
20	M163A	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....	Start Location[ft.%]	End Location[ft.%]
21	M164A	X	7.395	7.395	0	%100
22	M164A	Z	12.808	12.808	0	%100
23	M165A	X	7.395	7.395	0	%100
24	M165A	Z	12.808	12.808	0	%100
25	M169A	X	1.632	1.632	0	%100
26	M169A	Z	2.826	2.826	0	%100
27	M154A	X	2.48	2.48	0	%100
28	M154A	Z	4.296	4.296	0	%100
29	M155A	X	7.532	7.532	0	%100
30	M155A	Z	13.045	13.045	0	%100
31	M157A	X	2.48	2.48	0	%100
32	M157A	Z	4.296	4.296	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	2.48	2.48	0	%100
36	M160A	Z	4.296	4.296	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	2.48	2.48	0	%100
40	M163B	Z	4.296	4.296	0	%100
41	M164B	X	7.532	7.532	0	%100
42	M164B	Z	13.045	13.045	0	%100
43	M166A	X	9.921	9.921	0	%100
44	M166A	Z	17.183	17.183	0	%100
45	M167A	X	7.532	7.532	0	%100
46	M167A	Z	13.045	13.045	0	%100
47	M169B	X	4.067	4.067	0	%100
48	M169B	Z	7.044	7.044	0	%100
49	M170B	X	4.067	4.067	0	%100
50	M170B	Z	7.044	7.044	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	4.067	4.067	0	%100
56	M177A	Z	7.044	7.044	0	%100
57	M178A	X	4.067	4.067	0	%100
58	M178A	Z	7.044	7.044	0	%100
59	M183A	X	4.112	4.112	0	%100
60	M183A	Z	7.123	7.123	0	%100
61	M186A	X	9.1e-5	9.1e-5	0	%100
62	M186A	Z	.000158	.000158	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	4.314	4.314	0	%100
66	M106A	Z	7.471	7.471	0	%100
67	M105A	X	6.527	6.527	0	%100
68	M105A	Z	11.305	11.305	0	%100
69	M106B	X	1.632	1.632	0	%100
70	M106B	Z	2.826	2.826	0	%100
71	M93A	X	4.074	4.074	0	%100
72	M93A	Z	7.056	7.056	0	%100
73	M95A	X	4.074	4.074	0	%100
74	M95A	Z	7.056	7.056	0	%100
75	M101A	X	9.1e-5	9.1e-5	0	%100
76	M101A	Z	.000158	.000158	0	%100
77	M103A	X	4.112	4.112	0	%100
78	M103A	Z	7.123	7.123	0	%100
79	MP5A	X	3.903	3.903	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
80	MP5A	Z	6.76	6.76	0	%100
81	MP4A	X	3.903	3.903	0	%100
82	MP4A	Z	6.76	6.76	0	%100
83	MP2A	X	4.724	4.724	0	%100
84	MP2A	Z	8.183	8.183	0	%100
85	MP1A	X	3.903	3.903	0	%100
86	MP1A	Z	6.76	6.76	0	%100
87	MP3A	X	3.903	3.903	0	%100
88	MP3A	Z	6.76	6.76	0	%100
89	MP5C	X	3.903	3.903	0	%100
90	MP5C	Z	6.76	6.76	0	%100
91	MP4C	X	3.903	3.903	0	%100
92	MP4C	Z	6.76	6.76	0	%100
93	MP2C	X	4.724	4.724	0	%100
94	MP2C	Z	8.183	8.183	0	%100
95	MP1C	X	3.903	3.903	0	%100
96	MP1C	Z	6.76	6.76	0	%100
97	MP3C	X	3.903	3.903	0	%100
98	MP3C	Z	6.76	6.76	0	%100
99	MP5B	X	3.903	3.903	0	%100
100	MP5B	Z	6.76	6.76	0	%100
101	MP4B	X	3.903	3.903	0	%100
102	MP4B	Z	6.76	6.76	0	%100
103	MP2B	X	4.724	4.724	0	%100
104	MP2B	Z	8.183	8.183	0	%100
105	MP1B	X	3.903	3.903	0	%100
106	MP1B	Z	6.76	6.76	0	%100
107	MP3B	X	3.903	3.903	0	%100
108	MP3B	Z	6.76	6.76	0	%100
109	O1	X	3.191	3.191	0	%100
110	O1	Z	5.528	5.528	0	%100
111	M108	X	3.543	3.543	0	%100
112	M108	Z	6.137	6.137	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	3.543	3.543	0	%100
116	M111	Z	6.137	6.137	0	%100
117	M131	X	3.996	3.996	0	%100
118	M131	Z	6.921	6.921	0	%100
119	M132	X	3.996	3.996	0	%100
120	M132	Z	6.921	6.921	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	11.503	11.503	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	14.881	14.881	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	20.085	20.085	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	20.815	20.815	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	20.815	20.815	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	5.204	5.204	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
13	M142C	X	0	0	0	%100
14	M142C	Z	5.204	5.204	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	5.204	5.204	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	5.204	5.204	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	4.93	4.93	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	19.72	19.72	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	4.93	4.93	0	%100
25	M169A	X	0	0	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	14.881	14.881	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	20.085	20.085	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	14.881	14.881	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	5.021	5.021	0	%100
35	M160A	X	0	0	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	5.021	5.021	0	%100
39	M163B	X	0	0	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	5.021	5.021	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	14.881	14.881	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	5.021	5.021	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	10.845	10.845	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	10.845	10.845	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	2.711	2.711	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	2.711	2.711	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	2.711	2.711	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	2.711	2.711	0	%100
59	M183A	X	0	0	0	%100
60	M183A	Z	2.767	2.767	0	%100
61	M186A	X	0	0	0	%100
62	M186A	Z	2.767	2.767	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	2.876	2.876	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	2.876	2.876	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	9.79	9.79	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	9.79	9.79	0	%100
71	M93A	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
72	M93A	Z	10.915	10.915	0	%100
73	M95A	X	0	0	0	%100
74	M95A	Z	2.69	2.69	0	%100
75	M101A	X	0	0	0	%100
76	M101A	Z	2.69	2.69	0	%100
77	M103A	X	0	0	0	%100
78	M103A	Z	10.915	10.915	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	7.806	7.806	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	7.806	7.806	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	9.449	9.449	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	7.806	7.806	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	7.806	7.806	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	7.806	7.806	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	7.806	7.806	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	9.449	9.449	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	7.806	7.806	0	%100
97	MP3C	X	0	0	0	%100
98	MP3C	Z	7.806	7.806	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	7.806	7.806	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	7.806	7.806	0	%100
103	MP2B	X	0	0	0	%100
104	MP2B	Z	9.449	9.449	0	%100
105	MP1B	X	0	0	0	%100
106	MP1B	Z	7.806	7.806	0	%100
107	MP3B	X	0	0	0	%100
108	MP3B	Z	7.806	7.806	0	%100
109	O1	X	0	0	0	%100
110	O1	Z	6.383	6.383	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	9.449	9.449	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	2.362	2.362	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	2.362	2.362	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	2.664	2.664	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	10.655	10.655	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	2.664	2.664	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-4.314	-4.314	0	%100
2	M20	Z	7.471	7.471	0	%100
3	M64	X	-2.48	-2.48	0	%100
4	M64	Z	4.296	4.296	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
5	M65	X	-7.532	-7.532	0	%100
6	M65	Z	13.045	13.045	0	%100
7	M71	X	-7.806	-7.806	0	%100
8	M71	Z	13.52	13.52	0	%100
9	M138C	X	-7.806	-7.806	0	%100
10	M138C	Z	13.52	13.52	0	%100
11	M140C	X	-7.806	-7.806	0	%100
12	M140C	Z	13.52	13.52	0	%100
13	M142C	X	-7.806	-7.806	0	%100
14	M142C	Z	13.52	13.52	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	-7.395	-7.395	0	%100
20	M163A	Z	12.808	12.808	0	%100
21	M164A	X	-7.395	-7.395	0	%100
22	M164A	Z	12.808	12.808	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	-1.632	-1.632	0	%100
26	M169A	Z	2.826	2.826	0	%100
27	M154A	X	-9.921	-9.921	0	%100
28	M154A	Z	17.183	17.183	0	%100
29	M155A	X	-7.532	-7.532	0	%100
30	M155A	Z	13.045	13.045	0	%100
31	M157A	X	-9.921	-9.921	0	%100
32	M157A	Z	17.183	17.183	0	%100
33	M158A	X	-7.532	-7.532	0	%100
34	M158A	Z	13.045	13.045	0	%100
35	M160A	X	-2.48	-2.48	0	%100
36	M160A	Z	4.296	4.296	0	%100
37	M161A	X	-7.532	-7.532	0	%100
38	M161A	Z	13.045	13.045	0	%100
39	M163B	X	-2.48	-2.48	0	%100
40	M163B	Z	4.296	4.296	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	-2.48	-2.48	0	%100
44	M166A	Z	4.296	4.296	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	-4.067	-4.067	0	%100
48	M169B	Z	7.044	7.044	0	%100
49	M170B	X	-4.067	-4.067	0	%100
50	M170B	Z	7.044	7.044	0	%100
51	M173A	X	-4.067	-4.067	0	%100
52	M173A	Z	7.044	7.044	0	%100
53	M174A	X	-4.067	-4.067	0	%100
54	M174A	Z	7.044	7.044	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	-9.1e-5	-9.1e-5	0	%100
60	M183A	Z	.000158	.000158	0	%100
61	M186A	X	-4.112	-4.112	0	%100
62	M186A	Z	7.123	7.123	0	%100
63	M105	X	-4.314	-4.314	0	%100



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft....	Start Location/ft.%]	End Location/ft.%]
64	M105	Z	7.471	7.471	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	-1.632	-1.632	0	%100
68	M105A	Z	2.826	2.826	0	%100
69	M106B	X	-6.527	-6.527	0	%100
70	M106B	Z	11.305	11.305	0	%100
71	M93A	X	-4.112	-4.112	0	%100
72	M93A	Z	7.123	7.123	0	%100
73	M95A	X	-9.1e-5	-9.1e-5	0	%100
74	M95A	Z	.000158	.000158	0	%100
75	M101A	X	-4.074	-4.074	0	%100
76	M101A	Z	7.056	7.056	0	%100
77	M103A	X	-4.074	-4.074	0	%100
78	M103A	Z	7.056	7.056	0	%100
79	MP5A	X	-3.903	-3.903	0	%100
80	MP5A	Z	6.76	6.76	0	%100
81	MP4A	X	-3.903	-3.903	0	%100
82	MP4A	Z	6.76	6.76	0	%100
83	MP2A	X	-4.724	-4.724	0	%100
84	MP2A	Z	8.183	8.183	0	%100
85	MP1A	X	-3.903	-3.903	0	%100
86	MP1A	Z	6.76	6.76	0	%100
87	MP3A	X	-3.903	-3.903	0	%100
88	MP3A	Z	6.76	6.76	0	%100
89	MP5C	X	-3.903	-3.903	0	%100
90	MP5C	Z	6.76	6.76	0	%100
91	MP4C	X	-3.903	-3.903	0	%100
92	MP4C	Z	6.76	6.76	0	%100
93	MP2C	X	-4.724	-4.724	0	%100
94	MP2C	Z	8.183	8.183	0	%100
95	MP1C	X	-3.903	-3.903	0	%100
96	MP1C	Z	6.76	6.76	0	%100
97	MP3C	X	-3.903	-3.903	0	%100
98	MP3C	Z	6.76	6.76	0	%100
99	MP5B	X	-3.903	-3.903	0	%100
100	MP5B	Z	6.76	6.76	0	%100
101	MP4B	X	-3.903	-3.903	0	%100
102	MP4B	Z	6.76	6.76	0	%100
103	MP2B	X	-4.724	-4.724	0	%100
104	MP2B	Z	8.183	8.183	0	%100
105	MP1B	X	-3.903	-3.903	0	%100
106	MP1B	Z	6.76	6.76	0	%100
107	MP3B	X	-3.903	-3.903	0	%100
108	MP3B	Z	6.76	6.76	0	%100
109	O1	X	-3.191	-3.191	0	%100
110	O1	Z	5.528	5.528	0	%100
111	M108	X	-3.543	-3.543	0	%100
112	M108	Z	6.137	6.137	0	%100
113	M110	X	-3.543	-3.543	0	%100
114	M110	Z	6.137	6.137	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	-3.996	-3.996	0	%100
120	M132	Z	6.921	6.921	0	%100
121	M133	X	-3.996	-3.996	0	%100
122	M133	Z	6.921	6.921	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-2.49	-2.49	0	%100
2	M20	Z	1.438	1.438	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	-4.348	-4.348	0	%100
6	M65	Z	2.511	2.511	0	%100
7	M71	X	-4.507	-4.507	0	%100
8	M71	Z	2.602	2.602	0	%100
9	M138C	X	-4.507	-4.507	0	%100
10	M138C	Z	2.602	2.602	0	%100
11	M140C	X	-18.026	-18.026	0	%100
12	M140C	Z	10.408	10.408	0	%100
13	M142C	X	-18.026	-18.026	0	%100
14	M142C	Z	10.408	10.408	0	%100
15	M144C	X	-4.507	-4.507	0	%100
16	M144C	Z	2.602	2.602	0	%100
17	M146C	X	-4.507	-4.507	0	%100
18	M146C	Z	2.602	2.602	0	%100
19	M163A	X	-17.078	-17.078	0	%100
20	M163A	Z	9.86	9.86	0	%100
21	M164A	X	-4.269	-4.269	0	%100
22	M164A	Z	2.465	2.465	0	%100
23	M165A	X	-4.269	-4.269	0	%100
24	M165A	Z	2.465	2.465	0	%100
25	M169A	X	-8.479	-8.479	0	%100
26	M169A	Z	4.895	4.895	0	%100
27	M154A	X	-12.887	-12.887	0	%100
28	M154A	Z	7.44	7.44	0	%100
29	M155A	X	-4.348	-4.348	0	%100
30	M155A	Z	2.511	2.511	0	%100
31	M157A	X	-12.887	-12.887	0	%100
32	M157A	Z	7.44	7.44	0	%100
33	M158A	X	-17.394	-17.394	0	%100
34	M158A	Z	10.042	10.042	0	%100
35	M160A	X	-12.887	-12.887	0	%100
36	M160A	Z	7.44	7.44	0	%100
37	M161A	X	-17.394	-17.394	0	%100
38	M161A	Z	10.042	10.042	0	%100
39	M163B	X	-12.887	-12.887	0	%100
40	M163B	Z	7.44	7.44	0	%100
41	M164B	X	-4.348	-4.348	0	%100
42	M164B	Z	2.511	2.511	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-4.348	-4.348	0	%100
46	M167A	Z	2.511	2.511	0	%100
47	M169B	X	-2.348	-2.348	0	%100
48	M169B	Z	1.356	1.356	0	%100
49	M170B	X	-2.348	-2.348	0	%100
50	M170B	Z	1.356	1.356	0	%100
51	M173A	X	-9.392	-9.392	0	%100
52	M173A	Z	5.422	5.422	0	%100
53	M174A	X	-9.392	-9.392	0	%100
54	M174A	Z	5.422	5.422	0	%100
55	M177A	X	-2.348	-2.348	0	%100
56	M177A	Z	1.356	1.356	0	%100
57	M178A	X	-2.348	-2.348	0	%100
58	M178A	Z	1.356	1.356	0	%100
59	M183A	X	-2.33	-2.33	0	%100



Company Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	M183A	Z	1.345	1.345	0	%100
61	M186A	X	-9.452	-9.452	0	%100
62	M186A	Z	5.457	5.457	0	%100
63	M105	X	-9.962	-9.962	0	%100
64	M105	Z	5.752	5.752	0	%100
65	M106A	X	-2.49	-2.49	0	%100
66	M106A	Z	1.438	1.438	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	-8.479	-8.479	0	%100
70	M106B	Z	4.895	4.895	0	%100
71	M93A	X	-2.397	-2.397	0	%100
72	M93A	Z	1.384	1.384	0	%100
73	M95A	X	-2.397	-2.397	0	%100
74	M95A	Z	1.384	1.384	0	%100
75	M101A	X	-9.452	-9.452	0	%100
76	M101A	Z	5.457	5.457	0	%100
77	M103A	X	-2.33	-2.33	0	%100
78	M103A	Z	1.345	1.345	0	%100
79	MP5A	X	-6.76	-6.76	0	%100
80	MP5A	Z	3.903	3.903	0	%100
81	MP4A	X	-6.76	-6.76	0	%100
82	MP4A	Z	3.903	3.903	0	%100
83	MP2A	X	-8.183	-8.183	0	%100
84	MP2A	Z	4.724	4.724	0	%100
85	MP1A	X	-6.76	-6.76	0	%100
86	MP1A	Z	3.903	3.903	0	%100
87	MP3A	X	-6.76	-6.76	0	%100
88	MP3A	Z	3.903	3.903	0	%100
89	MP5C	X	-6.76	-6.76	0	%100
90	MP5C	Z	3.903	3.903	0	%100
91	MP4C	X	-6.76	-6.76	0	%100
92	MP4C	Z	3.903	3.903	0	%100
93	MP2C	X	-8.183	-8.183	0	%100
94	MP2C	Z	4.724	4.724	0	%100
95	MP1C	X	-6.76	-6.76	0	%100
96	MP1C	Z	3.903	3.903	0	%100
97	MP3C	X	-6.76	-6.76	0	%100
98	MP3C	Z	3.903	3.903	0	%100
99	MP5B	X	-6.76	-6.76	0	%100
100	MP5B	Z	3.903	3.903	0	%100
101	MP4B	X	-6.76	-6.76	0	%100
102	MP4B	Z	3.903	3.903	0	%100
103	MP2B	X	-8.183	-8.183	0	%100
104	MP2B	Z	4.724	4.724	0	%100
105	MP1B	X	-6.76	-6.76	0	%100
106	MP1B	Z	3.903	3.903	0	%100
107	MP3B	X	-6.76	-6.76	0	%100
108	MP3B	Z	3.903	3.903	0	%100
109	O1	X	-5.528	-5.528	0	%100
110	O1	Z	3.191	3.191	0	%100
111	M108	X	-2.046	-2.046	0	%100
112	M108	Z	1.181	1.181	0	%100
113	M110	X	-8.183	-8.183	0	%100
114	M110	Z	4.724	4.724	0	%100
115	M111	X	-2.046	-2.046	0	%100
116	M111	Z	1.181	1.181	0	%100
117	M131	X	-2.307	-2.307	0	%100
118	M131	Z	1.332	1.332	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
119	M132	X	-2.307	-2.307	0	%100
120	M132	Z	1.332	1.332	0	%100
121	M133	X	-9.228	-9.228	0	%100
122	M133	Z	5.328	5.328	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M64	X	-4.96	-4.96	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	0	0	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	0	0	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	0	0	0	%100
11	M140C	X	-15.611	-15.611	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	-15.611	-15.611	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	-15.611	-15.611	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	-15.611	-15.611	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	-14.79	-14.79	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	0	0	0	%100
23	M165A	X	-14.79	-14.79	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	-13.054	-13.054	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	-4.96	-4.96	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	0	0	0	%100
31	M157A	X	-4.96	-4.96	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	-15.064	-15.064	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	-19.841	-19.841	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	-15.064	-15.064	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	-19.841	-19.841	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	-15.064	-15.064	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	-4.96	-4.96	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-15.064	-15.064	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	0	0	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	0	0	0	%100
51	M173A	X	-8.133	-8.133	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
52	M173A	Z	0	0	0	%100
53	M174A	X	-8.133	-8.133	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	-8.133	-8.133	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	-8.133	-8.133	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	-8.147	-8.147	0	%100
60	M183A	Z	0	0	0	%100
61	M186A	X	-8.147	-8.147	0	%100
62	M186A	Z	0	0	0	%100
63	M105	X	-8.627	-8.627	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	-8.627	-8.627	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	-3.263	-3.263	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	-3.263	-3.263	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	-0.00182	-0.00182	0	%100
72	M93A	Z	0	0	0	%100
73	M95A	X	-8.225	-8.225	0	%100
74	M95A	Z	0	0	0	%100
75	M101A	X	-8.225	-8.225	0	%100
76	M101A	Z	0	0	0	%100
77	M103A	X	-0.00182	-0.00182	0	%100
78	M103A	Z	0	0	0	%100
79	MP5A	X	-7.806	-7.806	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	-7.806	-7.806	0	%100
82	MP4A	Z	0	0	0	%100
83	MP2A	X	-9.449	-9.449	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	-7.806	-7.806	0	%100
86	MP1A	Z	0	0	0	%100
87	MP3A	X	-7.806	-7.806	0	%100
88	MP3A	Z	0	0	0	%100
89	MP5C	X	-7.806	-7.806	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	-7.806	-7.806	0	%100
92	MP4C	Z	0	0	0	%100
93	MP2C	X	-9.449	-9.449	0	%100
94	MP2C	Z	0	0	0	%100
95	MP1C	X	-7.806	-7.806	0	%100
96	MP1C	Z	0	0	0	%100
97	MP3C	X	-7.806	-7.806	0	%100
98	MP3C	Z	0	0	0	%100
99	MP5B	X	-7.806	-7.806	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	-7.806	-7.806	0	%100
102	MP4B	Z	0	0	0	%100
103	MP2B	X	-9.449	-9.449	0	%100
104	MP2B	Z	0	0	0	%100
105	MP1B	X	-7.806	-7.806	0	%100
106	MP1B	Z	0	0	0	%100
107	MP3B	X	-7.806	-7.806	0	%100
108	MP3B	Z	0	0	0	%100
109	O1	X	-6.383	-6.383	0	%100
110	O1	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....	Start Location[ft.%]	End Location[ft.%]
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M110	X	-7.087	-7.087	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	-7.087	-7.087	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	-7.991	-7.991	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	0	0	0	%100
121	M133	X	-7.991	-7.991	0	%100
122	M133	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-2.49	-2.49	0	%100
2	M20	Z	-1.438	-1.438	0	%100
3	M64	X	-12.887	-12.887	0	%100
4	M64	Z	-7.44	-7.44	0	%100
5	M65	X	-4.348	-4.348	0	%100
6	M65	Z	-2.511	-2.511	0	%100
7	M71	X	-4.507	-4.507	0	%100
8	M71	Z	-2.602	-2.602	0	%100
9	M138C	X	-4.507	-4.507	0	%100
10	M138C	Z	-2.602	-2.602	0	%100
11	M140C	X	-4.507	-4.507	0	%100
12	M140C	Z	-2.602	-2.602	0	%100
13	M142C	X	-4.507	-4.507	0	%100
14	M142C	Z	-2.602	-2.602	0	%100
15	M144C	X	-18.026	-18.026	0	%100
16	M144C	Z	-10.408	-10.408	0	%100
17	M146C	X	-18.026	-18.026	0	%100
18	M146C	Z	-10.408	-10.408	0	%100
19	M163A	X	-4.269	-4.269	0	%100
20	M163A	Z	-2.465	-2.465	0	%100
21	M164A	X	-4.269	-4.269	0	%100
22	M164A	Z	-2.465	-2.465	0	%100
23	M165A	X	-17.078	-17.078	0	%100
24	M165A	Z	-9.86	-9.86	0	%100
25	M169A	X	-8.479	-8.479	0	%100
26	M169A	Z	-4.895	-4.895	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	-4.348	-4.348	0	%100
30	M155A	Z	-2.511	-2.511	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	-4.348	-4.348	0	%100
34	M158A	Z	-2.511	-2.511	0	%100
35	M160A	X	-12.887	-12.887	0	%100
36	M160A	Z	-7.44	-7.44	0	%100
37	M161A	X	-4.348	-4.348	0	%100
38	M161A	Z	-2.511	-2.511	0	%100
39	M163B	X	-12.887	-12.887	0	%100
40	M163B	Z	-7.44	-7.44	0	%100
41	M164B	X	-17.394	-17.394	0	%100
42	M164B	Z	-10.042	-10.042	0	%100
43	M166A	X	-12.887	-12.887	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft....	Start Locationft.%]	End Locationft.%]
44	M166A	Z	-7.44	-7.44	0	%100
45	M167A	X	-17.394	-17.394	0	%100
46	M167A	Z	-10.042	-10.042	0	%100
47	M169B	X	-2.348	-2.348	0	%100
48	M169B	Z	-1.356	-1.356	0	%100
49	M170B	X	-2.348	-2.348	0	%100
50	M170B	Z	-1.356	-1.356	0	%100
51	M173A	X	-2.348	-2.348	0	%100
52	M173A	Z	-1.356	-1.356	0	%100
53	M174A	X	-2.348	-2.348	0	%100
54	M174A	Z	-1.356	-1.356	0	%100
55	M177A	X	-9.392	-9.392	0	%100
56	M177A	Z	-5.422	-5.422	0	%100
57	M178A	X	-9.392	-9.392	0	%100
58	M178A	Z	-5.422	-5.422	0	%100
59	M183A	X	-9.452	-9.452	0	%100
60	M183A	Z	-5.457	-5.457	0	%100
61	M186A	X	-2.33	-2.33	0	%100
62	M186A	Z	-1.345	-1.345	0	%100
63	M105	X	-2.49	-2.49	0	%100
64	M105	Z	-1.438	-1.438	0	%100
65	M106A	X	-9.962	-9.962	0	%100
66	M106A	Z	-5.752	-5.752	0	%100
67	M105A	X	-8.479	-8.479	0	%100
68	M105A	Z	-4.895	-4.895	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	-2.33	-2.33	0	%100
72	M93A	Z	-1.345	-1.345	0	%100
73	M95A	X	-9.452	-9.452	0	%100
74	M95A	Z	-5.457	-5.457	0	%100
75	M101A	X	-2.397	-2.397	0	%100
76	M101A	Z	-1.384	-1.384	0	%100
77	M103A	X	-2.397	-2.397	0	%100
78	M103A	Z	-1.384	-1.384	0	%100
79	MP5A	X	-6.76	-6.76	0	%100
80	MP5A	Z	-3.903	-3.903	0	%100
81	MP4A	X	-6.76	-6.76	0	%100
82	MP4A	Z	-3.903	-3.903	0	%100
83	MP2A	X	-8.183	-8.183	0	%100
84	MP2A	Z	-4.724	-4.724	0	%100
85	MP1A	X	-6.76	-6.76	0	%100
86	MP1A	Z	-3.903	-3.903	0	%100
87	MP3A	X	-6.76	-6.76	0	%100
88	MP3A	Z	-3.903	-3.903	0	%100
89	MP5C	X	-6.76	-6.76	0	%100
90	MP5C	Z	-3.903	-3.903	0	%100
91	MP4C	X	-6.76	-6.76	0	%100
92	MP4C	Z	-3.903	-3.903	0	%100
93	MP2C	X	-8.183	-8.183	0	%100
94	MP2C	Z	-4.724	-4.724	0	%100
95	MP1C	X	-6.76	-6.76	0	%100
96	MP1C	Z	-3.903	-3.903	0	%100
97	MP3C	X	-6.76	-6.76	0	%100
98	MP3C	Z	-3.903	-3.903	0	%100
99	MP5B	X	-6.76	-6.76	0	%100
100	MP5B	Z	-3.903	-3.903	0	%100
101	MP4B	X	-6.76	-6.76	0	%100
102	MP4B	Z	-3.903	-3.903	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
103	MP2B	X	-8.183	-8.183	0	%100
104	MP2B	Z	-4.724	-4.724	0	%100
105	MP1B	X	-6.76	-6.76	0	%100
106	MP1B	Z	-3.903	-3.903	0	%100
107	MP3B	X	-6.76	-6.76	0	%100
108	MP3B	Z	-3.903	-3.903	0	%100
109	O1	X	-5.528	-5.528	0	%100
110	O1	Z	-3.191	-3.191	0	%100
111	M108	X	-2.046	-2.046	0	%100
112	M108	Z	-1.181	-1.181	0	%100
113	M110	X	-2.046	-2.046	0	%100
114	M110	Z	-1.181	-1.181	0	%100
115	M111	X	-8.183	-8.183	0	%100
116	M111	Z	-4.724	-4.724	0	%100
117	M131	X	-9.228	-9.228	0	%100
118	M131	Z	-5.328	-5.328	0	%100
119	M132	X	-2.307	-2.307	0	%100
120	M132	Z	-1.332	-1.332	0	%100
121	M133	X	-2.307	-2.307	0	%100
122	M133	Z	-1.332	-1.332	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-4.314	-4.314	0	%100
2	M20	Z	-7.471	-7.471	0	%100
3	M64	X	-9.921	-9.921	0	%100
4	M64	Z	-17.183	-17.183	0	%100
5	M65	X	-7.532	-7.532	0	%100
6	M65	Z	-13.045	-13.045	0	%100
7	M71	X	-7.806	-7.806	0	%100
8	M71	Z	-13.52	-13.52	0	%100
9	M138C	X	-7.806	-7.806	0	%100
10	M138C	Z	-13.52	-13.52	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	-7.806	-7.806	0	%100
16	M144C	Z	-13.52	-13.52	0	%100
17	M146C	X	-7.806	-7.806	0	%100
18	M146C	Z	-13.52	-13.52	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	-7.395	-7.395	0	%100
22	M164A	Z	-12.808	-12.808	0	%100
23	M165A	X	-7.395	-7.395	0	%100
24	M165A	Z	-12.808	-12.808	0	%100
25	M169A	X	-1.632	-1.632	0	%100
26	M169A	Z	-2.826	-2.826	0	%100
27	M154A	X	-2.48	-2.48	0	%100
28	M154A	Z	-4.296	-4.296	0	%100
29	M155A	X	-7.532	-7.532	0	%100
30	M155A	Z	-13.045	-13.045	0	%100
31	M157A	X	-2.48	-2.48	0	%100
32	M157A	Z	-4.296	-4.296	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	-2.48	-2.48	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
36	M160A	Z	-4.296	-4.296	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	-2.48	-2.48	0	%100
40	M163B	Z	-4.296	-4.296	0	%100
41	M164B	X	-7.532	-7.532	0	%100
42	M164B	Z	-13.045	-13.045	0	%100
43	M166A	X	-9.921	-9.921	0	%100
44	M166A	Z	-17.183	-17.183	0	%100
45	M167A	X	-7.532	-7.532	0	%100
46	M167A	Z	-13.045	-13.045	0	%100
47	M169B	X	-4.067	-4.067	0	%100
48	M169B	Z	-7.044	-7.044	0	%100
49	M170B	X	-4.067	-4.067	0	%100
50	M170B	Z	-7.044	-7.044	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	-4.067	-4.067	0	%100
56	M177A	Z	-7.044	-7.044	0	%100
57	M178A	X	-4.067	-4.067	0	%100
58	M178A	Z	-7.044	-7.044	0	%100
59	M183A	X	-4.112	-4.112	0	%100
60	M183A	Z	-7.123	-7.123	0	%100
61	M186A	X	-9.1e-5	-9.1e-5	0	%100
62	M186A	Z	-0.00158	-0.00158	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	-4.314	-4.314	0	%100
66	M106A	Z	-7.471	-7.471	0	%100
67	M105A	X	-6.527	-6.527	0	%100
68	M105A	Z	-11.305	-11.305	0	%100
69	M106B	X	-1.632	-1.632	0	%100
70	M106B	Z	-2.826	-2.826	0	%100
71	M93A	X	-4.074	-4.074	0	%100
72	M93A	Z	-7.056	-7.056	0	%100
73	M95A	X	-4.074	-4.074	0	%100
74	M95A	Z	-7.056	-7.056	0	%100
75	M101A	X	-9.1e-5	-9.1e-5	0	%100
76	M101A	Z	-0.00158	-0.00158	0	%100
77	M103A	X	-4.112	-4.112	0	%100
78	M103A	Z	-7.123	-7.123	0	%100
79	MP5A	X	-3.903	-3.903	0	%100
80	MP5A	Z	-6.76	-6.76	0	%100
81	MP4A	X	-3.903	-3.903	0	%100
82	MP4A	Z	-6.76	-6.76	0	%100
83	MP2A	X	-4.724	-4.724	0	%100
84	MP2A	Z	-8.183	-8.183	0	%100
85	MP1A	X	-3.903	-3.903	0	%100
86	MP1A	Z	-6.76	-6.76	0	%100
87	MP3A	X	-3.903	-3.903	0	%100
88	MP3A	Z	-6.76	-6.76	0	%100
89	MP5C	X	-3.903	-3.903	0	%100
90	MP5C	Z	-6.76	-6.76	0	%100
91	MP4C	X	-3.903	-3.903	0	%100
92	MP4C	Z	-6.76	-6.76	0	%100
93	MP2C	X	-4.724	-4.724	0	%100
94	MP2C	Z	-8.183	-8.183	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
95	MP1C	X	-3.903	-3.903	0	%100
96	MP1C	Z	-6.76	-6.76	0	%100
97	MP3C	X	-3.903	-3.903	0	%100
98	MP3C	Z	-6.76	-6.76	0	%100
99	MP5B	X	-3.903	-3.903	0	%100
100	MP5B	Z	-6.76	-6.76	0	%100
101	MP4B	X	-3.903	-3.903	0	%100
102	MP4B	Z	-6.76	-6.76	0	%100
103	MP2B	X	-4.724	-4.724	0	%100
104	MP2B	Z	-8.183	-8.183	0	%100
105	MP1B	X	-3.903	-3.903	0	%100
106	MP1B	Z	-6.76	-6.76	0	%100
107	MP3B	X	-3.903	-3.903	0	%100
108	MP3B	Z	-6.76	-6.76	0	%100
109	O1	X	-3.191	-3.191	0	%100
110	O1	Z	-5.528	-5.528	0	%100
111	M108	X	-3.543	-3.543	0	%100
112	M108	Z	-6.137	-6.137	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	-3.543	-3.543	0	%100
116	M111	Z	-6.137	-6.137	0	%100
117	M131	X	-3.996	-3.996	0	%100
118	M131	Z	-6.921	-6.921	0	%100
119	M132	X	-3.996	-3.996	0	%100
120	M132	Z	-6.921	-6.921	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	-3.306	-3.306	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	-3.156	-3.156	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	-4.25	-4.25	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	-4.377	-4.377	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	-4.377	-4.377	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	-1.094	-1.094	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	-1.094	-1.094	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	-1.094	-1.094	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	-1.094	-1.094	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	-1.065	-1.065	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	-4.261	-4.261	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	-1.065	-1.065	0	%100
25	M169A	X	0	0	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft....	Start Location ft.%]	End Location ft.%]
28	M154A	Z	-3.156	-3.156	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	-4.25	-4.25	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	-3.156	-3.156	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	-1.063	-1.063	0	%100
35	M160A	X	0	0	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	-1.063	-1.063	0	%100
39	M163B	X	0	0	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	-1.063	-1.063	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	-3.156	-3.156	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	-1.063	-1.063	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	-2.905	-2.905	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	-2.905	-2.905	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	-.726	-.726	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	-.726	-.726	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	-.726	-.726	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	-.726	-.726	0	%100
59	M183A	X	0	0	0	%100
60	M183A	Z	-.791	-.791	0	%100
61	M186A	X	0	0	0	%100
62	M186A	Z	-.791	-.791	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	-.826	-.826	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	-.826	-.826	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	-2.681	-2.681	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	-2.681	-2.681	0	%100
71	M93A	X	0	0	0	%100
72	M93A	Z	-3.121	-3.121	0	%100
73	M95A	X	0	0	0	%100
74	M95A	Z	-.769	-.769	0	%100
75	M101A	X	0	0	0	%100
76	M101A	Z	-.769	-.769	0	%100
77	M103A	X	0	0	0	%100
78	M103A	Z	-3.121	-3.121	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	-2.664	-2.664	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-2.664	-2.664	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	-2.949	-2.949	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	-2.664	-2.664	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
87	MP3A	X	0	0	0	%100
88	MP3A	Z	-2.664	-2.664	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	-2.664	-2.664	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-2.664	-2.664	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	-2.949	-2.949	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	-2.664	-2.664	0	%100
97	MP3C	X	0	0	0	%100
98	MP3C	Z	-2.664	-2.664	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	-2.664	-2.664	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-2.664	-2.664	0	%100
103	MP2B	X	0	0	0	%100
104	MP2B	Z	-2.949	-2.949	0	%100
105	MP1B	X	0	0	0	%100
106	MP1B	Z	-2.664	-2.664	0	%100
107	MP3B	X	0	0	0	%100
108	MP3B	Z	-2.664	-2.664	0	%100
109	O1	X	0	0	0	%100
110	O1	Z	-2.191	-2.191	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	-2.949	-2.949	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	-.737	-.737	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	-.737	-.737	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	-.675	-.675	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	-2.701	-2.701	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	-.675	-.675	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	1.24	1.24	0	%100
2	M20	Z	-2.147	-2.147	0	%100
3	M64	X	.526	.526	0	%100
4	M64	Z	-.911	-.911	0	%100
5	M65	X	1.594	1.594	0	%100
6	M65	Z	-2.761	-2.761	0	%100
7	M71	X	1.641	1.641	0	%100
8	M71	Z	-2.843	-2.843	0	%100
9	M138C	X	1.641	1.641	0	%100
10	M138C	Z	-2.843	-2.843	0	%100
11	M140C	X	1.641	1.641	0	%100
12	M140C	Z	-2.843	-2.843	0	%100
13	M142C	X	1.641	1.641	0	%100
14	M142C	Z	-2.843	-2.843	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	1.598	1.598	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
20	M163A	Z	-2.768	-2.768	0	%100
21	M164A	X	1.598	1.598	0	%100
22	M164A	Z	-2.768	-2.768	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	.447	.447	0	%100
26	M169A	Z	-.774	-.774	0	%100
27	M154A	X	2.104	2.104	0	%100
28	M154A	Z	-3.644	-3.644	0	%100
29	M155A	X	1.594	1.594	0	%100
30	M155A	Z	-2.761	-2.761	0	%100
31	M157A	X	2.104	2.104	0	%100
32	M157A	Z	-3.644	-3.644	0	%100
33	M158A	X	1.594	1.594	0	%100
34	M158A	Z	-2.761	-2.761	0	%100
35	M160A	X	.526	.526	0	%100
36	M160A	Z	-.911	-.911	0	%100
37	M161A	X	1.594	1.594	0	%100
38	M161A	Z	-2.761	-2.761	0	%100
39	M163B	X	.526	.526	0	%100
40	M163B	Z	-.911	-.911	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	.526	.526	0	%100
44	M166A	Z	-.911	-.911	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	1.089	1.089	0	%100
48	M169B	Z	-1.887	-1.887	0	%100
49	M170B	X	1.089	1.089	0	%100
50	M170B	Z	-1.887	-1.887	0	%100
51	M173A	X	1.089	1.089	0	%100
52	M173A	Z	-1.887	-1.887	0	%100
53	M174A	X	1.089	1.089	0	%100
54	M174A	Z	-1.887	-1.887	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	2.6e-5	2.6e-5	0	%100
60	M183A	Z	-4.5e-5	-4.5e-5	0	%100
61	M186A	X	1.176	1.176	0	%100
62	M186A	Z	-2.037	-2.037	0	%100
63	M105	X	1.24	1.24	0	%100
64	M105	Z	-2.147	-2.147	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	.447	.447	0	%100
68	M105A	Z	-.774	-.774	0	%100
69	M106B	X	1.788	1.788	0	%100
70	M106B	Z	-3.096	-3.096	0	%100
71	M93A	X	1.176	1.176	0	%100
72	M93A	Z	-2.037	-2.037	0	%100
73	M95A	X	2.6e-5	2.6e-5	0	%100
74	M95A	Z	-4.5e-5	-4.5e-5	0	%100
75	M101A	X	1.165	1.165	0	%100
76	M101A	Z	-2.018	-2.018	0	%100
77	M103A	X	1.165	1.165	0	%100
78	M103A	Z	-2.018	-2.018	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
79	MP5A	X	1.332	1.332	0	%100
80	MP5A	Z	-2.307	-2.307	0	%100
81	MP4A	X	1.332	1.332	0	%100
82	MP4A	Z	-2.307	-2.307	0	%100
83	MP2A	X	1.475	1.475	0	%100
84	MP2A	Z	-2.554	-2.554	0	%100
85	MP1A	X	1.332	1.332	0	%100
86	MP1A	Z	-2.307	-2.307	0	%100
87	MP3A	X	1.332	1.332	0	%100
88	MP3A	Z	-2.307	-2.307	0	%100
89	MP5C	X	1.332	1.332	0	%100
90	MP5C	Z	-2.307	-2.307	0	%100
91	MP4C	X	1.332	1.332	0	%100
92	MP4C	Z	-2.307	-2.307	0	%100
93	MP2C	X	1.475	1.475	0	%100
94	MP2C	Z	-2.554	-2.554	0	%100
95	MP1C	X	1.332	1.332	0	%100
96	MP1C	Z	-2.307	-2.307	0	%100
97	MP3C	X	1.332	1.332	0	%100
98	MP3C	Z	-2.307	-2.307	0	%100
99	MP5B	X	1.332	1.332	0	%100
100	MP5B	Z	-2.307	-2.307	0	%100
101	MP4B	X	1.332	1.332	0	%100
102	MP4B	Z	-2.307	-2.307	0	%100
103	MP2B	X	1.475	1.475	0	%100
104	MP2B	Z	-2.554	-2.554	0	%100
105	MP1B	X	1.332	1.332	0	%100
106	MP1B	Z	-2.307	-2.307	0	%100
107	MP3B	X	1.332	1.332	0	%100
108	MP3B	Z	-2.307	-2.307	0	%100
109	O1	X	1.096	1.096	0	%100
110	O1	Z	-1.898	-1.898	0	%100
111	M108	X	1.106	1.106	0	%100
112	M108	Z	-1.916	-1.916	0	%100
113	M110	X	1.106	1.106	0	%100
114	M110	Z	-1.916	-1.916	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	1.013	1.013	0	%100
120	M132	Z	-1.754	-1.754	0	%100
121	M133	X	1.013	1.013	0	%100
122	M133	Z	-1.754	-1.754	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	.716	.716	0	%100
2	M20	Z	-.413	-.413	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	.92	.92	0	%100
6	M65	Z	-.531	-.531	0	%100
7	M71	X	.948	.948	0	%100
8	M71	Z	-.547	-.547	0	%100
9	M138C	X	.948	.948	0	%100
10	M138C	Z	-.547	-.547	0	%100
11	M140C	X	3.791	3.791	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft....	Start Locationft.%]	End Locationft.%]
12	M140C	Z	-2.189	-2.189	0	%100
13	M142C	X	3.791	3.791	0	%100
14	M142C	Z	-2.189	-2.189	0	%100
15	M144C	X	.948	.948	0	%100
16	M144C	Z	-.547	-.547	0	%100
17	M146C	X	.948	.948	0	%100
18	M146C	Z	-.547	-.547	0	%100
19	M163A	X	3.69	3.69	0	%100
20	M163A	Z	-2.13	-2.13	0	%100
21	M164A	X	.923	.923	0	%100
22	M164A	Z	-.533	-.533	0	%100
23	M165A	X	.923	.923	0	%100
24	M165A	Z	-.533	-.533	0	%100
25	M169A	X	2.322	2.322	0	%100
26	M169A	Z	-1.341	-1.341	0	%100
27	M154A	X	2.733	2.733	0	%100
28	M154A	Z	-1.578	-1.578	0	%100
29	M155A	X	.92	.92	0	%100
30	M155A	Z	-.531	-.531	0	%100
31	M157A	X	2.733	2.733	0	%100
32	M157A	Z	-1.578	-1.578	0	%100
33	M158A	X	3.681	3.681	0	%100
34	M158A	Z	-2.125	-2.125	0	%100
35	M160A	X	2.733	2.733	0	%100
36	M160A	Z	-1.578	-1.578	0	%100
37	M161A	X	3.681	3.681	0	%100
38	M161A	Z	-2.125	-2.125	0	%100
39	M163B	X	2.733	2.733	0	%100
40	M163B	Z	-1.578	-1.578	0	%100
41	M164B	X	.92	.92	0	%100
42	M164B	Z	-.531	-.531	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	.92	.92	0	%100
46	M167A	Z	-.531	-.531	0	%100
47	M169B	X	.629	.629	0	%100
48	M169B	Z	-.363	-.363	0	%100
49	M170B	X	.629	.629	0	%100
50	M170B	Z	-.363	-.363	0	%100
51	M173A	X	2.515	2.515	0	%100
52	M173A	Z	-1.452	-1.452	0	%100
53	M174A	X	2.515	2.515	0	%100
54	M174A	Z	-1.452	-1.452	0	%100
55	M177A	X	.629	.629	0	%100
56	M177A	Z	-.363	-.363	0	%100
57	M178A	X	.629	.629	0	%100
58	M178A	Z	-.363	-.363	0	%100
59	M183A	X	.666	.666	0	%100
60	M183A	Z	-.385	-.385	0	%100
61	M186A	X	2.703	2.703	0	%100
62	M186A	Z	-1.561	-1.561	0	%100
63	M105	X	2.863	2.863	0	%100
64	M105	Z	-1.653	-1.653	0	%100
65	M106A	X	.716	.716	0	%100
66	M106A	Z	-.413	-.413	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	2.322	2.322	0	%100
70	M106B	Z	-1.341	-1.341	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
71	M93A	X	.685	.685	0	%100
72	M93A	Z	-.396	-.396	0	%100
73	M95A	X	.685	.685	0	%100
74	M95A	Z	-.396	-.396	0	%100
75	M101A	X	2.703	2.703	0	%100
76	M101A	Z	-1.561	-1.561	0	%100
77	M103A	X	.666	.666	0	%100
78	M103A	Z	-.385	-.385	0	%100
79	MP5A	X	2.307	2.307	0	%100
80	MP5A	Z	-1.332	-1.332	0	%100
81	MP4A	X	2.307	2.307	0	%100
82	MP4A	Z	-1.332	-1.332	0	%100
83	MP2A	X	2.554	2.554	0	%100
84	MP2A	Z	-1.475	-1.475	0	%100
85	MP1A	X	2.307	2.307	0	%100
86	MP1A	Z	-1.332	-1.332	0	%100
87	MP3A	X	2.307	2.307	0	%100
88	MP3A	Z	-1.332	-1.332	0	%100
89	MP5C	X	2.307	2.307	0	%100
90	MP5C	Z	-1.332	-1.332	0	%100
91	MP4C	X	2.307	2.307	0	%100
92	MP4C	Z	-1.332	-1.332	0	%100
93	MP2C	X	2.554	2.554	0	%100
94	MP2C	Z	-1.475	-1.475	0	%100
95	MP1C	X	2.307	2.307	0	%100
96	MP1C	Z	-1.332	-1.332	0	%100
97	MP3C	X	2.307	2.307	0	%100
98	MP3C	Z	-1.332	-1.332	0	%100
99	MP5B	X	2.307	2.307	0	%100
100	MP5B	Z	-1.332	-1.332	0	%100
101	MP4B	X	2.307	2.307	0	%100
102	MP4B	Z	-1.332	-1.332	0	%100
103	MP2B	X	2.554	2.554	0	%100
104	MP2B	Z	-1.475	-1.475	0	%100
105	MP1B	X	2.307	2.307	0	%100
106	MP1B	Z	-1.332	-1.332	0	%100
107	MP3B	X	2.307	2.307	0	%100
108	MP3B	Z	-1.332	-1.332	0	%100
109	O1	X	1.898	1.898	0	%100
110	O1	Z	-1.096	-1.096	0	%100
111	M108	X	.639	.639	0	%100
112	M108	Z	-.369	-.369	0	%100
113	M110	X	2.554	2.554	0	%100
114	M110	Z	-1.475	-1.475	0	%100
115	M111	X	.639	.639	0	%100
116	M111	Z	-.369	-.369	0	%100
117	M131	X	.585	.585	0	%100
118	M131	Z	-.338	-.338	0	%100
119	M132	X	.585	.585	0	%100
120	M132	Z	-.338	-.338	0	%100
121	M133	X	2.339	2.339	0	%100
122	M133	Z	-1.351	-1.351	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M64	X	1.052	1.052	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft....	Start Location ft.%	End Location ft.%
4	M64	Z	0	0	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	0	0	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	0	0	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	0	0	0	%100
11	M140C	X	3.283	3.283	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	3.283	3.283	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	3.283	3.283	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	3.283	3.283	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	3.196	3.196	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	0	0	0	%100
23	M165A	X	3.196	3.196	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	3.575	3.575	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	1.052	1.052	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	0	0	0	%100
31	M157A	X	1.052	1.052	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	3.188	3.188	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	4.208	4.208	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	3.188	3.188	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	4.208	4.208	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	3.188	3.188	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	1.052	1.052	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	3.188	3.188	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	0	0	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	0	0	0	%100
51	M173A	X	2.178	2.178	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	2.178	2.178	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	2.178	2.178	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	2.178	2.178	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	2.33	2.33	0	%100
60	M183A	Z	0	0	0	%100
61	M186A	X	2.33	2.33	0	%100
62	M186A	Z	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
63	M105	X	2.479	2.479	0 %100
64	M105	Z	0	0	0 %100
65	M106A	X	2.479	2.479	0 %100
66	M106A	Z	0	0	0 %100
67	M105A	X	.894	.894	0 %100
68	M105A	Z	0	0	0 %100
69	M106B	X	.894	.894	0 %100
70	M106B	Z	0	0	0 %100
71	M93A	X	5.2e-5	5.2e-5	0 %100
72	M93A	Z	0	0	0 %100
73	M95A	X	2.352	2.352	0 %100
74	M95A	Z	0	0	0 %100
75	M101A	X	2.352	2.352	0 %100
76	M101A	Z	0	0	0 %100
77	M103A	X	5.2e-5	5.2e-5	0 %100
78	M103A	Z	0	0	0 %100
79	MP5A	X	2.664	2.664	0 %100
80	MP5A	Z	0	0	0 %100
81	MP4A	X	2.664	2.664	0 %100
82	MP4A	Z	0	0	0 %100
83	MP2A	X	2.949	2.949	0 %100
84	MP2A	Z	0	0	0 %100
85	MP1A	X	2.664	2.664	0 %100
86	MP1A	Z	0	0	0 %100
87	MP3A	X	2.664	2.664	0 %100
88	MP3A	Z	0	0	0 %100
89	MP5C	X	2.664	2.664	0 %100
90	MP5C	Z	0	0	0 %100
91	MP4C	X	2.664	2.664	0 %100
92	MP4C	Z	0	0	0 %100
93	MP2C	X	2.949	2.949	0 %100
94	MP2C	Z	0	0	0 %100
95	MP1C	X	2.664	2.664	0 %100
96	MP1C	Z	0	0	0 %100
97	MP3C	X	2.664	2.664	0 %100
98	MP3C	Z	0	0	0 %100
99	MP5B	X	2.664	2.664	0 %100
100	MP5B	Z	0	0	0 %100
101	MP4B	X	2.664	2.664	0 %100
102	MP4B	Z	0	0	0 %100
103	MP2B	X	2.949	2.949	0 %100
104	MP2B	Z	0	0	0 %100
105	MP1B	X	2.664	2.664	0 %100
106	MP1B	Z	0	0	0 %100
107	MP3B	X	2.664	2.664	0 %100
108	MP3B	Z	0	0	0 %100
109	O1	X	2.191	2.191	0 %100
110	O1	Z	0	0	0 %100
111	M108	X	0	0	0 %100
112	M108	Z	0	0	0 %100
113	M110	X	2.212	2.212	0 %100
114	M110	Z	0	0	0 %100
115	M111	X	2.212	2.212	0 %100
116	M111	Z	0	0	0 %100
117	M131	X	2.026	2.026	0 %100
118	M131	Z	0	0	0 %100
119	M132	X	0	0	0 %100
120	M132	Z	0	0	0 %100
121	M133	X	2.026	2.026	0 %100



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
122	M133	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....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	.716	.716	0	%100
2	M20	Z	.413	.413	0	%100
3	M64	X	2.733	2.733	0	%100
4	M64	Z	1.578	1.578	0	%100
5	M65	X	.92	.92	0	%100
6	M65	Z	.531	.531	0	%100
7	M71	X	.948	.948	0	%100
8	M71	Z	.547	.547	0	%100
9	M138C	X	.948	.948	0	%100
10	M138C	Z	.547	.547	0	%100
11	M140C	X	.948	.948	0	%100
12	M140C	Z	.547	.547	0	%100
13	M142C	X	.948	.948	0	%100
14	M142C	Z	.547	.547	0	%100
15	M144C	X	3.791	3.791	0	%100
16	M144C	Z	2.189	2.189	0	%100
17	M146C	X	3.791	3.791	0	%100
18	M146C	Z	2.189	2.189	0	%100
19	M163A	X	.923	.923	0	%100
20	M163A	Z	.533	.533	0	%100
21	M164A	X	.923	.923	0	%100
22	M164A	Z	.533	.533	0	%100
23	M165A	X	3.69	3.69	0	%100
24	M165A	Z	2.13	2.13	0	%100
25	M169A	X	2.322	2.322	0	%100
26	M169A	Z	1.341	1.341	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	.92	.92	0	%100
30	M155A	Z	.531	.531	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	.92	.92	0	%100
34	M158A	Z	.531	.531	0	%100
35	M160A	X	2.733	2.733	0	%100
36	M160A	Z	1.578	1.578	0	%100
37	M161A	X	.92	.92	0	%100
38	M161A	Z	.531	.531	0	%100
39	M163B	X	2.733	2.733	0	%100
40	M163B	Z	1.578	1.578	0	%100
41	M164B	X	3.681	3.681	0	%100
42	M164B	Z	2.125	2.125	0	%100
43	M166A	X	2.733	2.733	0	%100
44	M166A	Z	1.578	1.578	0	%100
45	M167A	X	3.681	3.681	0	%100
46	M167A	Z	2.125	2.125	0	%100
47	M169B	X	.629	.629	0	%100
48	M169B	Z	.363	.363	0	%100
49	M170B	X	.629	.629	0	%100
50	M170B	Z	.363	.363	0	%100
51	M173A	X	.629	.629	0	%100
52	M173A	Z	.363	.363	0	%100
53	M174A	X	.629	.629	0	%100
54	M174A	Z	.363	.363	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
55	M177A	X	2.515	2.515	0 %100
56	M177A	Z	1.452	1.452	0 %100
57	M178A	X	2.515	2.515	0 %100
58	M178A	Z	1.452	1.452	0 %100
59	M183A	X	2.703	2.703	0 %100
60	M183A	Z	1.561	1.561	0 %100
61	M186A	X	.666	.666	0 %100
62	M186A	Z	.385	.385	0 %100
63	M105	X	.716	.716	0 %100
64	M105	Z	.413	.413	0 %100
65	M106A	X	2.863	2.863	0 %100
66	M106A	Z	1.653	1.653	0 %100
67	M105A	X	2.322	2.322	0 %100
68	M105A	Z	1.341	1.341	0 %100
69	M106B	X	0	0	0 %100
70	M106B	Z	0	0	0 %100
71	M93A	X	.666	.666	0 %100
72	M93A	Z	.385	.385	0 %100
73	M95A	X	2.703	2.703	0 %100
74	M95A	Z	1.561	1.561	0 %100
75	M101A	X	.685	.685	0 %100
76	M101A	Z	.396	.396	0 %100
77	M103A	X	.685	.685	0 %100
78	M103A	Z	.396	.396	0 %100
79	MP5A	X	2.307	2.307	0 %100
80	MP5A	Z	1.332	1.332	0 %100
81	MP4A	X	2.307	2.307	0 %100
82	MP4A	Z	1.332	1.332	0 %100
83	MP2A	X	2.554	2.554	0 %100
84	MP2A	Z	1.475	1.475	0 %100
85	MP1A	X	2.307	2.307	0 %100
86	MP1A	Z	1.332	1.332	0 %100
87	MP3A	X	2.307	2.307	0 %100
88	MP3A	Z	1.332	1.332	0 %100
89	MP5C	X	2.307	2.307	0 %100
90	MP5C	Z	1.332	1.332	0 %100
91	MP4C	X	2.307	2.307	0 %100
92	MP4C	Z	1.332	1.332	0 %100
93	MP2C	X	2.554	2.554	0 %100
94	MP2C	Z	1.475	1.475	0 %100
95	MP1C	X	2.307	2.307	0 %100
96	MP1C	Z	1.332	1.332	0 %100
97	MP3C	X	2.307	2.307	0 %100
98	MP3C	Z	1.332	1.332	0 %100
99	MP5B	X	2.307	2.307	0 %100
100	MP5B	Z	1.332	1.332	0 %100
101	MP4B	X	2.307	2.307	0 %100
102	MP4B	Z	1.332	1.332	0 %100
103	MP2B	X	2.554	2.554	0 %100
104	MP2B	Z	1.475	1.475	0 %100
105	MP1B	X	2.307	2.307	0 %100
106	MP1B	Z	1.332	1.332	0 %100
107	MP3B	X	2.307	2.307	0 %100
108	MP3B	Z	1.332	1.332	0 %100
109	O1	X	1.898	1.898	0 %100
110	O1	Z	1.096	1.096	0 %100
111	M108	X	.639	.639	0 %100
112	M108	Z	.369	.369	0 %100
113	M110	X	.639	.639	0 %100



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
114	M110	Z	.369	.369	0	%100
115	M111	X	2.554	2.554	0	%100
116	M111	Z	1.475	1.475	0	%100
117	M131	X	2.339	2.339	0	%100
118	M131	Z	1.351	1.351	0	%100
119	M132	X	.585	.585	0	%100
120	M132	Z	.338	.338	0	%100
121	M133	X	.585	.585	0	%100
122	M133	Z	.338	.338	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	1.24	1.24	0	%100
2	M20	Z	2.147	2.147	0	%100
3	M64	X	2.104	2.104	0	%100
4	M64	Z	3.644	3.644	0	%100
5	M65	X	1.594	1.594	0	%100
6	M65	Z	2.761	2.761	0	%100
7	M71	X	1.641	1.641	0	%100
8	M71	Z	2.843	2.843	0	%100
9	M138C	X	1.641	1.641	0	%100
10	M138C	Z	2.843	2.843	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	1.641	1.641	0	%100
16	M144C	Z	2.843	2.843	0	%100
17	M146C	X	1.641	1.641	0	%100
18	M146C	Z	2.843	2.843	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	1.598	1.598	0	%100
22	M164A	Z	2.768	2.768	0	%100
23	M165A	X	1.598	1.598	0	%100
24	M165A	Z	2.768	2.768	0	%100
25	M169A	X	.447	.447	0	%100
26	M169A	Z	.774	.774	0	%100
27	M154A	X	.526	.526	0	%100
28	M154A	Z	.911	.911	0	%100
29	M155A	X	1.594	1.594	0	%100
30	M155A	Z	2.761	2.761	0	%100
31	M157A	X	.526	.526	0	%100
32	M157A	Z	.911	.911	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	.526	.526	0	%100
36	M160A	Z	.911	.911	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	.526	.526	0	%100
40	M163B	Z	.911	.911	0	%100
41	M164B	X	1.594	1.594	0	%100
42	M164B	Z	2.761	2.761	0	%100
43	M166A	X	2.104	2.104	0	%100
44	M166A	Z	3.644	3.644	0	%100
45	M167A	X	1.594	1.594	0	%100
46	M167A	Z	2.761	2.761	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
47	M169B	X	1.089	1.089	0	%100
48	M169B	Z	1.887	1.887	0	%100
49	M170B	X	1.089	1.089	0	%100
50	M170B	Z	1.887	1.887	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	1.089	1.089	0	%100
56	M177A	Z	1.887	1.887	0	%100
57	M178A	X	1.089	1.089	0	%100
58	M178A	Z	1.887	1.887	0	%100
59	M183A	X	1.176	1.176	0	%100
60	M183A	Z	2.037	2.037	0	%100
61	M186A	X	2.6e-5	2.6e-5	0	%100
62	M186A	Z	4.5e-5	4.5e-5	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	1.24	1.24	0	%100
66	M106A	Z	2.147	2.147	0	%100
67	M105A	X	1.788	1.788	0	%100
68	M105A	Z	3.096	3.096	0	%100
69	M106B	X	.447	.447	0	%100
70	M106B	Z	.774	.774	0	%100
71	M93A	X	1.165	1.165	0	%100
72	M93A	Z	2.018	2.018	0	%100
73	M95A	X	1.165	1.165	0	%100
74	M95A	Z	2.018	2.018	0	%100
75	M101A	X	2.6e-5	2.6e-5	0	%100
76	M101A	Z	4.5e-5	4.5e-5	0	%100
77	M103A	X	1.176	1.176	0	%100
78	M103A	Z	2.037	2.037	0	%100
79	MP5A	X	1.332	1.332	0	%100
80	MP5A	Z	2.307	2.307	0	%100
81	MP4A	X	1.332	1.332	0	%100
82	MP4A	Z	2.307	2.307	0	%100
83	MP2A	X	1.475	1.475	0	%100
84	MP2A	Z	2.554	2.554	0	%100
85	MP1A	X	1.332	1.332	0	%100
86	MP1A	Z	2.307	2.307	0	%100
87	MP3A	X	1.332	1.332	0	%100
88	MP3A	Z	2.307	2.307	0	%100
89	MP5C	X	1.332	1.332	0	%100
90	MP5C	Z	2.307	2.307	0	%100
91	MP4C	X	1.332	1.332	0	%100
92	MP4C	Z	2.307	2.307	0	%100
93	MP2C	X	1.475	1.475	0	%100
94	MP2C	Z	2.554	2.554	0	%100
95	MP1C	X	1.332	1.332	0	%100
96	MP1C	Z	2.307	2.307	0	%100
97	MP3C	X	1.332	1.332	0	%100
98	MP3C	Z	2.307	2.307	0	%100
99	MP5B	X	1.332	1.332	0	%100
100	MP5B	Z	2.307	2.307	0	%100
101	MP4B	X	1.332	1.332	0	%100
102	MP4B	Z	2.307	2.307	0	%100
103	MP2B	X	1.475	1.475	0	%100
104	MP2B	Z	2.554	2.554	0	%100
105	MP1B	X	1.332	1.332	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
106	MP1B	Z	2.307	2.307	0	%100
107	MP3B	X	1.332	1.332	0	%100
108	MP3B	Z	2.307	2.307	0	%100
109	O1	X	1.096	1.096	0	%100
110	O1	Z	1.898	1.898	0	%100
111	M108	X	1.106	1.106	0	%100
112	M108	Z	1.916	1.916	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	1.106	1.106	0	%100
116	M111	Z	1.916	1.916	0	%100
117	M131	X	1.013	1.013	0	%100
118	M131	Z	1.754	1.754	0	%100
119	M132	X	1.013	1.013	0	%100
120	M132	Z	1.754	1.754	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	3.306	3.306	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	3.156	3.156	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	4.25	4.25	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	4.377	4.377	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	4.377	4.377	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	1.094	1.094	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	1.094	1.094	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	1.094	1.094	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	1.094	1.094	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	1.065	1.065	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	4.261	4.261	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	1.065	1.065	0	%100
25	M169A	X	0	0	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	3.156	3.156	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	4.25	4.25	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	3.156	3.156	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	1.063	1.063	0	%100
35	M160A	X	0	0	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	1.063	1.063	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
39	M163B	X	0	0	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	1.063	1.063	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	3.156	3.156	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	1.063	1.063	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	2.905	2.905	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	2.905	2.905	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	.726	.726	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	.726	.726	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	.726	.726	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	.726	.726	0	%100
59	M183A	X	0	0	0	%100
60	M183A	Z	.791	.791	0	%100
61	M186A	X	0	0	0	%100
62	M186A	Z	.791	.791	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	.826	.826	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	.826	.826	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	2.681	2.681	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	2.681	2.681	0	%100
71	M93A	X	0	0	0	%100
72	M93A	Z	3.121	3.121	0	%100
73	M95A	X	0	0	0	%100
74	M95A	Z	.769	.769	0	%100
75	M101A	X	0	0	0	%100
76	M101A	Z	.769	.769	0	%100
77	M103A	X	0	0	0	%100
78	M103A	Z	3.121	3.121	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	2.664	2.664	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	2.664	2.664	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	2.949	2.949	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	2.664	2.664	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	2.664	2.664	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	2.664	2.664	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	2.664	2.664	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	2.949	2.949	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	2.664	2.664	0	%100
97	MP3C	X	0	0	0	%100



Company
Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
98	MP3C	Z	2.664	2.664	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	2.664	2.664	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	2.664	2.664	0	%100
103	MP2B	X	0	0	0	%100
104	MP2B	Z	2.949	2.949	0	%100
105	MP1B	X	0	0	0	%100
106	MP1B	Z	2.664	2.664	0	%100
107	MP3B	X	0	0	0	%100
108	MP3B	Z	2.664	2.664	0	%100
109	O1	X	0	0	0	%100
110	O1	Z	2.191	2.191	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	2.949	2.949	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	.737	.737	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	.737	.737	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	.675	.675	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	2.701	2.701	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	.675	.675	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-1.24	-1.24	0	%100
2	M20	Z	2.147	2.147	0	%100
3	M64	X	-.526	-.526	0	%100
4	M64	Z	.911	.911	0	%100
5	M65	X	-1.594	-1.594	0	%100
6	M65	Z	2.761	2.761	0	%100
7	M71	X	-1.641	-1.641	0	%100
8	M71	Z	2.843	2.843	0	%100
9	M138C	X	-1.641	-1.641	0	%100
10	M138C	Z	2.843	2.843	0	%100
11	M140C	X	-1.641	-1.641	0	%100
12	M140C	Z	2.843	2.843	0	%100
13	M142C	X	-1.641	-1.641	0	%100
14	M142C	Z	2.843	2.843	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	-1.598	-1.598	0	%100
20	M163A	Z	2.768	2.768	0	%100
21	M164A	X	-1.598	-1.598	0	%100
22	M164A	Z	2.768	2.768	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	-.447	-.447	0	%100
26	M169A	Z	.774	.774	0	%100
27	M154A	X	-2.104	-2.104	0	%100
28	M154A	Z	3.644	3.644	0	%100
29	M155A	X	-1.594	-1.594	0	%100
30	M155A	Z	2.761	2.761	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
31	M157A	X	-2.104	-2.104	0 %100
32	M157A	Z	3.644	3.644	0 %100
33	M158A	X	-1.594	-1.594	0 %100
34	M158A	Z	2.761	2.761	0 %100
35	M160A	X	-.526	-.526	0 %100
36	M160A	Z	.911	.911	0 %100
37	M161A	X	-1.594	-1.594	0 %100
38	M161A	Z	2.761	2.761	0 %100
39	M163B	X	-.526	-.526	0 %100
40	M163B	Z	.911	.911	0 %100
41	M164B	X	0	0	0 %100
42	M164B	Z	0	0	0 %100
43	M166A	X	-.526	-.526	0 %100
44	M166A	Z	.911	.911	0 %100
45	M167A	X	0	0	0 %100
46	M167A	Z	0	0	0 %100
47	M169B	X	-1.089	-1.089	0 %100
48	M169B	Z	1.887	1.887	0 %100
49	M170B	X	-1.089	-1.089	0 %100
50	M170B	Z	1.887	1.887	0 %100
51	M173A	X	-1.089	-1.089	0 %100
52	M173A	Z	1.887	1.887	0 %100
53	M174A	X	-1.089	-1.089	0 %100
54	M174A	Z	1.887	1.887	0 %100
55	M177A	X	0	0	0 %100
56	M177A	Z	0	0	0 %100
57	M178A	X	0	0	0 %100
58	M178A	Z	0	0	0 %100
59	M183A	X	-2.6e-5	-2.6e-5	0 %100
60	M183A	Z	4.5e-5	4.5e-5	0 %100
61	M186A	X	-1.176	-1.176	0 %100
62	M186A	Z	2.037	2.037	0 %100
63	M105	X	-1.24	-1.24	0 %100
64	M105	Z	2.147	2.147	0 %100
65	M106A	X	0	0	0 %100
66	M106A	Z	0	0	0 %100
67	M105A	X	-.447	-.447	0 %100
68	M105A	Z	.774	.774	0 %100
69	M106B	X	-1.788	-1.788	0 %100
70	M106B	Z	3.096	3.096	0 %100
71	M93A	X	-1.176	-1.176	0 %100
72	M93A	Z	2.037	2.037	0 %100
73	M95A	X	-2.6e-5	-2.6e-5	0 %100
74	M95A	Z	4.5e-5	4.5e-5	0 %100
75	M101A	X	-1.165	-1.165	0 %100
76	M101A	Z	2.018	2.018	0 %100
77	M103A	X	-1.165	-1.165	0 %100
78	M103A	Z	2.018	2.018	0 %100
79	MP5A	X	-1.332	-1.332	0 %100
80	MP5A	Z	2.307	2.307	0 %100
81	MP4A	X	-1.332	-1.332	0 %100
82	MP4A	Z	2.307	2.307	0 %100
83	MP2A	X	-1.475	-1.475	0 %100
84	MP2A	Z	2.554	2.554	0 %100
85	MP1A	X	-1.332	-1.332	0 %100
86	MP1A	Z	2.307	2.307	0 %100
87	MP3A	X	-1.332	-1.332	0 %100
88	MP3A	Z	2.307	2.307	0 %100
89	MP5C	X	-1.332	-1.332	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
90	MP5C	Z	2.307	2.307	0	%100
91	MP4C	X	-1.332	-1.332	0	%100
92	MP4C	Z	2.307	2.307	0	%100
93	MP2C	X	-1.475	-1.475	0	%100
94	MP2C	Z	2.554	2.554	0	%100
95	MP1C	X	-1.332	-1.332	0	%100
96	MP1C	Z	2.307	2.307	0	%100
97	MP3C	X	-1.332	-1.332	0	%100
98	MP3C	Z	2.307	2.307	0	%100
99	MP5B	X	-1.332	-1.332	0	%100
100	MP5B	Z	2.307	2.307	0	%100
101	MP4B	X	-1.332	-1.332	0	%100
102	MP4B	Z	2.307	2.307	0	%100
103	MP2B	X	-1.475	-1.475	0	%100
104	MP2B	Z	2.554	2.554	0	%100
105	MP1B	X	-1.332	-1.332	0	%100
106	MP1B	Z	2.307	2.307	0	%100
107	MP3B	X	-1.332	-1.332	0	%100
108	MP3B	Z	2.307	2.307	0	%100
109	O1	X	-1.096	-1.096	0	%100
110	O1	Z	1.898	1.898	0	%100
111	M108	X	-1.106	-1.106	0	%100
112	M108	Z	1.916	1.916	0	%100
113	M110	X	-1.106	-1.106	0	%100
114	M110	Z	1.916	1.916	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	-1.013	-1.013	0	%100
120	M132	Z	1.754	1.754	0	%100
121	M133	X	-1.013	-1.013	0	%100
122	M133	Z	1.754	1.754	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-7.16	-7.16	0	%100
2	M20	Z	.413	.413	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	-.92	-.92	0	%100
6	M65	Z	.531	.531	0	%100
7	M71	X	-.948	-.948	0	%100
8	M71	Z	.547	.547	0	%100
9	M138C	X	-.948	-.948	0	%100
10	M138C	Z	.547	.547	0	%100
11	M140C	X	-3.791	-3.791	0	%100
12	M140C	Z	2.189	2.189	0	%100
13	M142C	X	-3.791	-3.791	0	%100
14	M142C	Z	2.189	2.189	0	%100
15	M144C	X	-.948	-.948	0	%100
16	M144C	Z	.547	.547	0	%100
17	M146C	X	-.948	-.948	0	%100
18	M146C	Z	.547	.547	0	%100
19	M163A	X	-3.69	-3.69	0	%100
20	M163A	Z	2.13	2.13	0	%100
21	M164A	X	-.923	-.923	0	%100
22	M164A	Z	.533	.533	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
23	M165A	X	-.923	-.923	0 %100
24	M165A	Z	.533	.533	0 %100
25	M169A	X	-2.322	-2.322	0 %100
26	M169A	Z	1.341	1.341	0 %100
27	M154A	X	-2.733	-2.733	0 %100
28	M154A	Z	1.578	1.578	0 %100
29	M155A	X	-.92	-.92	0 %100
30	M155A	Z	.531	.531	0 %100
31	M157A	X	-2.733	-2.733	0 %100
32	M157A	Z	1.578	1.578	0 %100
33	M158A	X	-3.681	-3.681	0 %100
34	M158A	Z	2.125	2.125	0 %100
35	M160A	X	-2.733	-2.733	0 %100
36	M160A	Z	1.578	1.578	0 %100
37	M161A	X	-3.681	-3.681	0 %100
38	M161A	Z	2.125	2.125	0 %100
39	M163B	X	-2.733	-2.733	0 %100
40	M163B	Z	1.578	1.578	0 %100
41	M164B	X	-.92	-.92	0 %100
42	M164B	Z	.531	.531	0 %100
43	M166A	X	0	0	0 %100
44	M166A	Z	0	0	0 %100
45	M167A	X	-.92	-.92	0 %100
46	M167A	Z	.531	.531	0 %100
47	M169B	X	-.629	-.629	0 %100
48	M169B	Z	.363	.363	0 %100
49	M170B	X	-.629	-.629	0 %100
50	M170B	Z	.363	.363	0 %100
51	M173A	X	-2.515	-2.515	0 %100
52	M173A	Z	1.452	1.452	0 %100
53	M174A	X	-2.515	-2.515	0 %100
54	M174A	Z	1.452	1.452	0 %100
55	M177A	X	-.629	-.629	0 %100
56	M177A	Z	.363	.363	0 %100
57	M178A	X	-.629	-.629	0 %100
58	M178A	Z	.363	.363	0 %100
59	M183A	X	-.666	-.666	0 %100
60	M183A	Z	.385	.385	0 %100
61	M186A	X	-2.703	-2.703	0 %100
62	M186A	Z	1.561	1.561	0 %100
63	M105	X	-2.863	-2.863	0 %100
64	M105	Z	1.653	1.653	0 %100
65	M106A	X	-.716	-.716	0 %100
66	M106A	Z	.413	.413	0 %100
67	M105A	X	0	0	0 %100
68	M105A	Z	0	0	0 %100
69	M106B	X	-2.322	-2.322	0 %100
70	M106B	Z	1.341	1.341	0 %100
71	M93A	X	-.685	-.685	0 %100
72	M93A	Z	.396	.396	0 %100
73	M95A	X	-.685	-.685	0 %100
74	M95A	Z	.396	.396	0 %100
75	M101A	X	-2.703	-2.703	0 %100
76	M101A	Z	1.561	1.561	0 %100
77	M103A	X	-.666	-.666	0 %100
78	M103A	Z	.385	.385	0 %100
79	MP5A	X	-2.307	-2.307	0 %100
80	MP5A	Z	1.332	1.332	0 %100
81	MP4A	X	-2.307	-2.307	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
82	MP4A	Z	1.332	1.332	0	%100
83	MP2A	X	-2.554	-2.554	0	%100
84	MP2A	Z	1.475	1.475	0	%100
85	MP1A	X	-2.307	-2.307	0	%100
86	MP1A	Z	1.332	1.332	0	%100
87	MP3A	X	-2.307	-2.307	0	%100
88	MP3A	Z	1.332	1.332	0	%100
89	MP5C	X	-2.307	-2.307	0	%100
90	MP5C	Z	1.332	1.332	0	%100
91	MP4C	X	-2.307	-2.307	0	%100
92	MP4C	Z	1.332	1.332	0	%100
93	MP2C	X	-2.554	-2.554	0	%100
94	MP2C	Z	1.475	1.475	0	%100
95	MP1C	X	-2.307	-2.307	0	%100
96	MP1C	Z	1.332	1.332	0	%100
97	MP3C	X	-2.307	-2.307	0	%100
98	MP3C	Z	1.332	1.332	0	%100
99	MP5B	X	-2.307	-2.307	0	%100
100	MP5B	Z	1.332	1.332	0	%100
101	MP4B	X	-2.307	-2.307	0	%100
102	MP4B	Z	1.332	1.332	0	%100
103	MP2B	X	-2.554	-2.554	0	%100
104	MP2B	Z	1.475	1.475	0	%100
105	MP1B	X	-2.307	-2.307	0	%100
106	MP1B	Z	1.332	1.332	0	%100
107	MP3B	X	-2.307	-2.307	0	%100
108	MP3B	Z	1.332	1.332	0	%100
109	O1	X	-1.898	-1.898	0	%100
110	O1	Z	1.096	1.096	0	%100
111	M108	X	-6.39	-6.39	0	%100
112	M108	Z	.369	.369	0	%100
113	M110	X	-2.554	-2.554	0	%100
114	M110	Z	1.475	1.475	0	%100
115	M111	X	-6.39	-6.39	0	%100
116	M111	Z	.369	.369	0	%100
117	M131	X	-5.85	-5.85	0	%100
118	M131	Z	.338	.338	0	%100
119	M132	X	-5.85	-5.85	0	%100
120	M132	Z	.338	.338	0	%100
121	M133	X	-2.339	-2.339	0	%100
122	M133	Z	1.351	1.351	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M64	X	-1.052	-1.052	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	0	0	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	0	0	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	0	0	0	%100
11	M140C	X	-3.283	-3.283	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	-3.283	-3.283	0	%100
14	M142C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft...]	Start Location[ft.%]	End Location[ft.%]
15	M144C	X	-3.283	-3.283	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	-3.283	-3.283	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	-3.196	-3.196	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	0	0	0	%100
23	M165A	X	-3.196	-3.196	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	-3.575	-3.575	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	-1.052	-1.052	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	0	0	0	%100
31	M157A	X	-1.052	-1.052	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	-3.188	-3.188	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	-4.208	-4.208	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	-3.188	-3.188	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	-4.208	-4.208	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	-3.188	-3.188	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	-1.052	-1.052	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-3.188	-3.188	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	0	0	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	0	0	0	%100
51	M173A	X	-2.178	-2.178	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	-2.178	-2.178	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	-2.178	-2.178	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	-2.178	-2.178	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	-2.33	-2.33	0	%100
60	M183A	Z	0	0	0	%100
61	M186A	X	-2.33	-2.33	0	%100
62	M186A	Z	0	0	0	%100
63	M105	X	-2.479	-2.479	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	-2.479	-2.479	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	-894	-894	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	-894	-894	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	-5.2e-5	-5.2e-5	0	%100
72	M93A	Z	0	0	0	%100
73	M95A	X	-2.352	-2.352	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
74	M95A	Z	0	0	0	%100
75	M101A	X	-2.352	-2.352	0	%100
76	M101A	Z	0	0	0	%100
77	M103A	X	-5.2e-5	-5.2e-5	0	%100
78	M103A	Z	0	0	0	%100
79	MP5A	X	-2.664	-2.664	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	-2.664	-2.664	0	%100
82	MP4A	Z	0	0	0	%100
83	MP2A	X	-2.949	-2.949	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	-2.664	-2.664	0	%100
86	MP1A	Z	0	0	0	%100
87	MP3A	X	-2.664	-2.664	0	%100
88	MP3A	Z	0	0	0	%100
89	MP5C	X	-2.664	-2.664	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	-2.664	-2.664	0	%100
92	MP4C	Z	0	0	0	%100
93	MP2C	X	-2.949	-2.949	0	%100
94	MP2C	Z	0	0	0	%100
95	MP1C	X	-2.664	-2.664	0	%100
96	MP1C	Z	0	0	0	%100
97	MP3C	X	-2.664	-2.664	0	%100
98	MP3C	Z	0	0	0	%100
99	MP5B	X	-2.664	-2.664	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	-2.664	-2.664	0	%100
102	MP4B	Z	0	0	0	%100
103	MP2B	X	-2.949	-2.949	0	%100
104	MP2B	Z	0	0	0	%100
105	MP1B	X	-2.664	-2.664	0	%100
106	MP1B	Z	0	0	0	%100
107	MP3B	X	-2.664	-2.664	0	%100
108	MP3B	Z	0	0	0	%100
109	O1	X	-2.191	-2.191	0	%100
110	O1	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M110	X	-2.212	-2.212	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	-2.212	-2.212	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	-2.026	-2.026	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	0	0	0	%100
121	M133	X	-2.026	-2.026	0	%100
122	M133	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....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-716	-716	0	%100
2	M20	Z	-413	-413	0	%100
3	M64	X	-2.733	-2.733	0	%100
4	M64	Z	-1.578	-1.578	0	%100
5	M65	X	-.92	-.92	0	%100
6	M65	Z	-.531	-.531	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location(ft.%)	End Location(ft.%)
7	M71	X	-948	-948	0	%100
8	M71	Z	-547	-547	0	%100
9	M138C	X	-948	-948	0	%100
10	M138C	Z	-547	-547	0	%100
11	M140C	X	-948	-948	0	%100
12	M140C	Z	-547	-547	0	%100
13	M142C	X	-948	-948	0	%100
14	M142C	Z	-547	-547	0	%100
15	M144C	X	-3.791	-3.791	0	%100
16	M144C	Z	-2.189	-2.189	0	%100
17	M146C	X	-3.791	-3.791	0	%100
18	M146C	Z	-2.189	-2.189	0	%100
19	M163A	X	-923	-923	0	%100
20	M163A	Z	-533	-533	0	%100
21	M164A	X	-923	-923	0	%100
22	M164A	Z	-533	-533	0	%100
23	M165A	X	-3.69	-3.69	0	%100
24	M165A	Z	-2.13	-2.13	0	%100
25	M169A	X	-2.322	-2.322	0	%100
26	M169A	Z	-1.341	-1.341	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	-.92	-.92	0	%100
30	M155A	Z	-.531	-.531	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	-.92	-.92	0	%100
34	M158A	Z	-.531	-.531	0	%100
35	M160A	X	-2.733	-2.733	0	%100
36	M160A	Z	-1.578	-1.578	0	%100
37	M161A	X	-.92	-.92	0	%100
38	M161A	Z	-.531	-.531	0	%100
39	M163B	X	-2.733	-2.733	0	%100
40	M163B	Z	-1.578	-1.578	0	%100
41	M164B	X	-3.681	-3.681	0	%100
42	M164B	Z	-2.125	-2.125	0	%100
43	M166A	X	-2.733	-2.733	0	%100
44	M166A	Z	-1.578	-1.578	0	%100
45	M167A	X	-3.681	-3.681	0	%100
46	M167A	Z	-2.125	-2.125	0	%100
47	M169B	X	-.629	-.629	0	%100
48	M169B	Z	-.363	-.363	0	%100
49	M170B	X	-.629	-.629	0	%100
50	M170B	Z	-.363	-.363	0	%100
51	M173A	X	-.629	-.629	0	%100
52	M173A	Z	-.363	-.363	0	%100
53	M174A	X	-.629	-.629	0	%100
54	M174A	Z	-.363	-.363	0	%100
55	M177A	X	-2.515	-2.515	0	%100
56	M177A	Z	-1.452	-1.452	0	%100
57	M178A	X	-2.515	-2.515	0	%100
58	M178A	Z	-1.452	-1.452	0	%100
59	M183A	X	-2.703	-2.703	0	%100
60	M183A	Z	-1.561	-1.561	0	%100
61	M186A	X	-.666	-.666	0	%100
62	M186A	Z	-.385	-.385	0	%100
63	M105	X	-.716	-.716	0	%100
64	M105	Z	-.413	-.413	0	%100
65	M106A	X	-2.863	-2.863	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
66	M106A	Z	-1.653	-1.653	0	%100
67	M105A	X	-2.322	-2.322	0	%100
68	M105A	Z	-1.341	-1.341	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	-.666	-.666	0	%100
72	M93A	Z	-.385	-.385	0	%100
73	M95A	X	-2.703	-2.703	0	%100
74	M95A	Z	-1.561	-1.561	0	%100
75	M101A	X	-.685	-.685	0	%100
76	M101A	Z	-.396	-.396	0	%100
77	M103A	X	-.685	-.685	0	%100
78	M103A	Z	-.396	-.396	0	%100
79	MP5A	X	-2.307	-2.307	0	%100
80	MP5A	Z	-1.332	-1.332	0	%100
81	MP4A	X	-2.307	-2.307	0	%100
82	MP4A	Z	-1.332	-1.332	0	%100
83	MP2A	X	-2.554	-2.554	0	%100
84	MP2A	Z	-1.475	-1.475	0	%100
85	MP1A	X	-2.307	-2.307	0	%100
86	MP1A	Z	-1.332	-1.332	0	%100
87	MP3A	X	-2.307	-2.307	0	%100
88	MP3A	Z	-1.332	-1.332	0	%100
89	MP5C	X	-2.307	-2.307	0	%100
90	MP5C	Z	-1.332	-1.332	0	%100
91	MP4C	X	-2.307	-2.307	0	%100
92	MP4C	Z	-1.332	-1.332	0	%100
93	MP2C	X	-2.554	-2.554	0	%100
94	MP2C	Z	-1.475	-1.475	0	%100
95	MP1C	X	-2.307	-2.307	0	%100
96	MP1C	Z	-1.332	-1.332	0	%100
97	MP3C	X	-2.307	-2.307	0	%100
98	MP3C	Z	-1.332	-1.332	0	%100
99	MP5B	X	-2.307	-2.307	0	%100
100	MP5B	Z	-1.332	-1.332	0	%100
101	MP4B	X	-2.307	-2.307	0	%100
102	MP4B	Z	-1.332	-1.332	0	%100
103	MP2B	X	-2.554	-2.554	0	%100
104	MP2B	Z	-1.475	-1.475	0	%100
105	MP1B	X	-2.307	-2.307	0	%100
106	MP1B	Z	-1.332	-1.332	0	%100
107	MP3B	X	-2.307	-2.307	0	%100
108	MP3B	Z	-1.332	-1.332	0	%100
109	O1	X	-1.898	-1.898	0	%100
110	O1	Z	-1.096	-1.096	0	%100
111	M108	X	-.639	-.639	0	%100
112	M108	Z	-.369	-.369	0	%100
113	M110	X	-.639	-.639	0	%100
114	M110	Z	-.369	-.369	0	%100
115	M111	X	-2.554	-2.554	0	%100
116	M111	Z	-1.475	-1.475	0	%100
117	M131	X	-2.339	-2.339	0	%100
118	M131	Z	-1.351	-1.351	0	%100
119	M132	X	-.585	-.585	0	%100
120	M132	Z	-.338	-.338	0	%100
121	M133	X	-.585	-.585	0	%100
122	M133	Z	-.338	-.338	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-1.24	-1.24	0 %100
2	M20	Z	-2.147	-2.147	0 %100
3	M64	X	-2.104	-2.104	0 %100
4	M64	Z	-3.644	-3.644	0 %100
5	M65	X	-1.594	-1.594	0 %100
6	M65	Z	-2.761	-2.761	0 %100
7	M71	X	-1.641	-1.641	0 %100
8	M71	Z	-2.843	-2.843	0 %100
9	M138C	X	-1.641	-1.641	0 %100
10	M138C	Z	-2.843	-2.843	0 %100
11	M140C	X	0	0	0 %100
12	M140C	Z	0	0	0 %100
13	M142C	X	0	0	0 %100
14	M142C	Z	0	0	0 %100
15	M144C	X	-1.641	-1.641	0 %100
16	M144C	Z	-2.843	-2.843	0 %100
17	M146C	X	-1.641	-1.641	0 %100
18	M146C	Z	-2.843	-2.843	0 %100
19	M163A	X	0	0	0 %100
20	M163A	Z	0	0	0 %100
21	M164A	X	-1.598	-1.598	0 %100
22	M164A	Z	-2.768	-2.768	0 %100
23	M165A	X	-1.598	-1.598	0 %100
24	M165A	Z	-2.768	-2.768	0 %100
25	M169A	X	-447	-447	0 %100
26	M169A	Z	-774	-774	0 %100
27	M154A	X	-526	-526	0 %100
28	M154A	Z	-911	-911	0 %100
29	M155A	X	-1.594	-1.594	0 %100
30	M155A	Z	-2.761	-2.761	0 %100
31	M157A	X	-526	-526	0 %100
32	M157A	Z	-911	-911	0 %100
33	M158A	X	0	0	0 %100
34	M158A	Z	0	0	0 %100
35	M160A	X	-526	-526	0 %100
36	M160A	Z	-911	-911	0 %100
37	M161A	X	0	0	0 %100
38	M161A	Z	0	0	0 %100
39	M163B	X	-526	-526	0 %100
40	M163B	Z	-911	-911	0 %100
41	M164B	X	-1.594	-1.594	0 %100
42	M164B	Z	-2.761	-2.761	0 %100
43	M166A	X	-2.104	-2.104	0 %100
44	M166A	Z	-3.644	-3.644	0 %100
45	M167A	X	-1.594	-1.594	0 %100
46	M167A	Z	-2.761	-2.761	0 %100
47	M169B	X	-1.089	-1.089	0 %100
48	M169B	Z	-1.887	-1.887	0 %100
49	M170B	X	-1.089	-1.089	0 %100
50	M170B	Z	-1.887	-1.887	0 %100
51	M173A	X	0	0	0 %100
52	M173A	Z	0	0	0 %100
53	M174A	X	0	0	0 %100
54	M174A	Z	0	0	0 %100
55	M177A	X	-1.089	-1.089	0 %100
56	M177A	Z	-1.887	-1.887	0 %100
57	M178A	X	-1.089	-1.089	0 %100
58	M178A	Z	-1.887	-1.887	0 %100
59	M183A	X	-1.176	-1.176	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
60	M183A	Z	-2.037	-2.037	0	%100
61	M186A	X	-2.6e-5	-2.6e-5	0	%100
62	M186A	Z	-4.5e-5	-4.5e-5	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	-1.24	-1.24	0	%100
66	M106A	Z	-2.147	-2.147	0	%100
67	M105A	X	-1.788	-1.788	0	%100
68	M105A	Z	-3.096	-3.096	0	%100
69	M106B	X	-.447	-.447	0	%100
70	M106B	Z	-.774	-.774	0	%100
71	M93A	X	-1.165	-1.165	0	%100
72	M93A	Z	-2.018	-2.018	0	%100
73	M95A	X	-1.165	-1.165	0	%100
74	M95A	Z	-2.018	-2.018	0	%100
75	M101A	X	-2.6e-5	-2.6e-5	0	%100
76	M101A	Z	-4.5e-5	-4.5e-5	0	%100
77	M103A	X	-1.176	-1.176	0	%100
78	M103A	Z	-2.037	-2.037	0	%100
79	MP5A	X	-1.332	-1.332	0	%100
80	MP5A	Z	-2.307	-2.307	0	%100
81	MP4A	X	-1.332	-1.332	0	%100
82	MP4A	Z	-2.307	-2.307	0	%100
83	MP2A	X	-1.475	-1.475	0	%100
84	MP2A	Z	-2.554	-2.554	0	%100
85	MP1A	X	-1.332	-1.332	0	%100
86	MP1A	Z	-2.307	-2.307	0	%100
87	MP3A	X	-1.332	-1.332	0	%100
88	MP3A	Z	-2.307	-2.307	0	%100
89	MP5C	X	-1.332	-1.332	0	%100
90	MP5C	Z	-2.307	-2.307	0	%100
91	MP4C	X	-1.332	-1.332	0	%100
92	MP4C	Z	-2.307	-2.307	0	%100
93	MP2C	X	-1.475	-1.475	0	%100
94	MP2C	Z	-2.554	-2.554	0	%100
95	MP1C	X	-1.332	-1.332	0	%100
96	MP1C	Z	-2.307	-2.307	0	%100
97	MP3C	X	-1.332	-1.332	0	%100
98	MP3C	Z	-2.307	-2.307	0	%100
99	MP5B	X	-1.332	-1.332	0	%100
100	MP5B	Z	-2.307	-2.307	0	%100
101	MP4B	X	-1.332	-1.332	0	%100
102	MP4B	Z	-2.307	-2.307	0	%100
103	MP2B	X	-1.475	-1.475	0	%100
104	MP2B	Z	-2.554	-2.554	0	%100
105	MP1B	X	-1.332	-1.332	0	%100
106	MP1B	Z	-2.307	-2.307	0	%100
107	MP3B	X	-1.332	-1.332	0	%100
108	MP3B	Z	-2.307	-2.307	0	%100
109	O1	X	-1.096	-1.096	0	%100
110	O1	Z	-1.898	-1.898	0	%100
111	M108	X	-1.106	-1.106	0	%100
112	M108	Z	-1.916	-1.916	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	-1.106	-1.106	0	%100
116	M111	Z	-1.916	-1.916	0	%100
117	M131	X	-1.013	-1.013	0	%100
118	M131	Z	-1.754	-1.754	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
119	M132	X	-1.013	-1.013	0	%100
120	M132	Z	-1.754	-1.754	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	-719	-719	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	-93	-93	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	-1.255	-1.255	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	-1.301	-1.301	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	-1.301	-1.301	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	-325	-325	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	-325	-325	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	-325	-325	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	-325	-325	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	-308	-308	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	-1.232	-1.232	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	-308	-308	0	%100
25	M169A	X	0	0	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	-93	-93	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	-1.255	-1.255	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	-93	-93	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	-314	-314	0	%100
35	M160A	X	0	0	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	-314	-314	0	%100
39	M163B	X	0	0	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	-314	-314	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	-93	-93	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	-314	-314	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	-678	-678	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	-678	-678	0	%100
51	M173A	X	0	0	0	%100



Company Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
52	M173A	Z	-.169	-.169	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	-.169	-.169	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	-.169	-.169	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	-.169	-.169	0	%100
59	M183A	X	0	0	0	%100
60	M183A	Z	-.173	-.173	0	%100
61	M186A	X	0	0	0	%100
62	M186A	Z	-.173	-.173	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	-.18	-.18	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	-.18	-.18	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	-.612	-.612	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	-.612	-.612	0	%100
71	M93A	X	0	0	0	%100
72	M93A	Z	-.682	-.682	0	%100
73	M95A	X	0	0	0	%100
74	M95A	Z	-.168	-.168	0	%100
75	M101A	X	0	0	0	%100
76	M101A	Z	-.168	-.168	0	%100
77	M103A	X	0	0	0	%100
78	M103A	Z	-.682	-.682	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	-.488	-.488	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-.488	-.488	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	-.591	-.591	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	-.488	-.488	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	-.488	-.488	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	-.488	-.488	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-.488	-.488	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	-.591	-.591	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	-.488	-.488	0	%100
97	MP3C	X	0	0	0	%100
98	MP3C	Z	-.488	-.488	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	-.488	-.488	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-.488	-.488	0	%100
103	MP2B	X	0	0	0	%100
104	MP2B	Z	-.591	-.591	0	%100
105	MP1B	X	0	0	0	%100
106	MP1B	Z	-.488	-.488	0	%100
107	MP3B	X	0	0	0	%100
108	MP3B	Z	-.488	-.488	0	%100
109	O1	X	0	0	0	%100
110	O1	Z	-.399	-.399	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
111	M108	X	0	0	0	%100
112	M108	Z	-.591	-.591	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	-.148	-.148	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	-.148	-.148	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	-.166	-.166	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	-.666	-.666	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	-.166	-.166	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	.27	.27	0	%100
2	M20	Z	-.467	-.467	0	%100
3	M64	X	.155	.155	0	%100
4	M64	Z	-.268	-.268	0	%100
5	M65	X	.471	.471	0	%100
6	M65	Z	-.815	-.815	0	%100
7	M71	X	.488	.488	0	%100
8	M71	Z	-.845	-.845	0	%100
9	M138C	X	.488	.488	0	%100
10	M138C	Z	-.845	-.845	0	%100
11	M140C	X	.488	.488	0	%100
12	M140C	Z	-.845	-.845	0	%100
13	M142C	X	.488	.488	0	%100
14	M142C	Z	-.845	-.845	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	.462	.462	0	%100
20	M163A	Z	-.801	-.801	0	%100
21	M164A	X	.462	.462	0	%100
22	M164A	Z	-.801	-.801	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	.102	.102	0	%100
26	M169A	Z	-.177	-.177	0	%100
27	M154A	X	.62	.62	0	%100
28	M154A	Z	-1.074	-1.074	0	%100
29	M155A	X	.471	.471	0	%100
30	M155A	Z	-.815	-.815	0	%100
31	M157A	X	.62	.62	0	%100
32	M157A	Z	-1.074	-1.074	0	%100
33	M158A	X	.471	.471	0	%100
34	M158A	Z	-.815	-.815	0	%100
35	M160A	X	.155	.155	0	%100
36	M160A	Z	-.268	-.268	0	%100
37	M161A	X	.471	.471	0	%100
38	M161A	Z	-.815	-.815	0	%100
39	M163B	X	.155	.155	0	%100
40	M163B	Z	-.268	-.268	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	.155	.155	0	%100



Company
Designer
Job Number
Model Name

July 20, 2023

1:06 PM

Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
44	M166A	Z	-.268	-.268	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	.254	.254	0	%100
48	M169B	Z	-.44	-.44	0	%100
49	M170B	X	.254	.254	0	%100
50	M170B	Z	-.44	-.44	0	%100
51	M173A	X	.254	.254	0	%100
52	M173A	Z	-.44	-.44	0	%100
53	M174A	X	.254	.254	0	%100
54	M174A	Z	-.44	-.44	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	6e-6	6e-6	0	%100
60	M183A	Z	-1e-5	-1e-5	0	%100
61	M186A	X	.257	.257	0	%100
62	M186A	Z	-.445	-.445	0	%100
63	M105	X	.27	.27	0	%100
64	M105	Z	-.467	-.467	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	.102	.102	0	%100
68	M105A	Z	-.177	-.177	0	%100
69	M106B	X	.408	.408	0	%100
70	M106B	Z	-.707	-.707	0	%100
71	M93A	X	.257	.257	0	%100
72	M93A	Z	-.445	-.445	0	%100
73	M95A	X	6e-6	6e-6	0	%100
74	M95A	Z	-1e-5	-1e-5	0	%100
75	M101A	X	.255	.255	0	%100
76	M101A	Z	-.441	-.441	0	%100
77	M103A	X	.255	.255	0	%100
78	M103A	Z	-.441	-.441	0	%100
79	MP5A	X	.244	.244	0	%100
80	MP5A	Z	-.422	-.422	0	%100
81	MP4A	X	.244	.244	0	%100
82	MP4A	Z	-.422	-.422	0	%100
83	MP2A	X	.295	.295	0	%100
84	MP2A	Z	-.511	-.511	0	%100
85	MP1A	X	.244	.244	0	%100
86	MP1A	Z	-.422	-.422	0	%100
87	MP3A	X	.244	.244	0	%100
88	MP3A	Z	-.422	-.422	0	%100
89	MP5C	X	.244	.244	0	%100
90	MP5C	Z	-.422	-.422	0	%100
91	MP4C	X	.244	.244	0	%100
92	MP4C	Z	-.422	-.422	0	%100
93	MP2C	X	.295	.295	0	%100
94	MP2C	Z	-.511	-.511	0	%100
95	MP1C	X	.244	.244	0	%100
96	MP1C	Z	-.422	-.422	0	%100
97	MP3C	X	.244	.244	0	%100
98	MP3C	Z	-.422	-.422	0	%100
99	MP5B	X	.244	.244	0	%100
100	MP5B	Z	-.422	-.422	0	%100
101	MP4B	X	.244	.244	0	%100
102	MP4B	Z	-.422	-.422	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023

1:06 PM

Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
36	M160A	Z	-.465	-.465	0	%100
37	M161A	X	1.087	1.087	0	%100
38	M161A	Z	-.628	-.628	0	%100
39	M163B	X	.805	.805	0	%100
40	M163B	Z	-.465	-.465	0	%100
41	M164B	X	.272	.272	0	%100
42	M164B	Z	-.157	-.157	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	.272	.272	0	%100
46	M167A	Z	-.157	-.157	0	%100
47	M169B	X	.147	.147	0	%100
48	M169B	Z	-.085	-.085	0	%100
49	M170B	X	.147	.147	0	%100
50	M170B	Z	-.085	-.085	0	%100
51	M173A	X	.587	.587	0	%100
52	M173A	Z	-.339	-.339	0	%100
53	M174A	X	.587	.587	0	%100
54	M174A	Z	-.339	-.339	0	%100
55	M177A	X	.147	.147	0	%100
56	M177A	Z	-.085	-.085	0	%100
57	M178A	X	.147	.147	0	%100
58	M178A	Z	-.085	-.085	0	%100
59	M183A	X	.146	.146	0	%100
60	M183A	Z	-.084	-.084	0	%100
61	M186A	X	.591	.591	0	%100
62	M186A	Z	-.341	-.341	0	%100
63	M105	X	.623	.623	0	%100
64	M105	Z	-.359	-.359	0	%100
65	M106A	X	.156	.156	0	%100
66	M106A	Z	-.09	-.09	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	.53	.53	0	%100
70	M106B	Z	-.306	-.306	0	%100
71	M93A	X	.15	.15	0	%100
72	M93A	Z	-.086	-.086	0	%100
73	M95A	X	.15	.15	0	%100
74	M95A	Z	-.086	-.086	0	%100
75	M101A	X	.591	.591	0	%100
76	M101A	Z	-.341	-.341	0	%100
77	M103A	X	.146	.146	0	%100
78	M103A	Z	-.084	-.084	0	%100
79	MP5A	X	.422	.422	0	%100
80	MP5A	Z	-.244	-.244	0	%100
81	MP4A	X	.422	.422	0	%100
82	MP4A	Z	-.244	-.244	0	%100
83	MP2A	X	.511	.511	0	%100
84	MP2A	Z	-.295	-.295	0	%100
85	MP1A	X	.422	.422	0	%100
86	MP1A	Z	-.244	-.244	0	%100
87	MP3A	X	.422	.422	0	%100
88	MP3A	Z	-.244	-.244	0	%100
89	MP5C	X	.422	.422	0	%100
90	MP5C	Z	-.244	-.244	0	%100
91	MP4C	X	.422	.422	0	%100
92	MP4C	Z	-.244	-.244	0	%100
93	MP2C	X	.511	.511	0	%100
94	MP2C	Z	-.295	-.295	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
95	MP1C	X	.422	.422	0	%100
96	MP1C	Z	-.244	-.244	0	%100
97	MP3C	X	.422	.422	0	%100
98	MP3C	Z	-.244	-.244	0	%100
99	MP5B	X	.422	.422	0	%100
100	MP5B	Z	-.244	-.244	0	%100
101	MP4B	X	.422	.422	0	%100
102	MP4B	Z	-.244	-.244	0	%100
103	MP2B	X	.511	.511	0	%100
104	MP2B	Z	-.295	-.295	0	%100
105	MP1B	X	.422	.422	0	%100
106	MP1B	Z	-.244	-.244	0	%100
107	MP3B	X	.422	.422	0	%100
108	MP3B	Z	-.244	-.244	0	%100
109	O1	X	.345	.345	0	%100
110	O1	Z	-.199	-.199	0	%100
111	M108	X	.128	.128	0	%100
112	M108	Z	-.074	-.074	0	%100
113	M110	X	.511	.511	0	%100
114	M110	Z	-.295	-.295	0	%100
115	M111	X	.128	.128	0	%100
116	M111	Z	-.074	-.074	0	%100
117	M131	X	.144	.144	0	%100
118	M131	Z	-.083	-.083	0	%100
119	M132	X	.144	.144	0	%100
120	M132	Z	-.083	-.083	0	%100
121	M133	X	.577	.577	0	%100
122	M133	Z	-.333	-.333	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M64	X	.31	.31	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	0	0	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	0	0	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	0	0	0	%100
11	M140C	X	.976	.976	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	.976	.976	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	.976	.976	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	.976	.976	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	.924	.924	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	0	0	0	%100
23	M165A	X	.924	.924	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	.816	.816	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	.31	.31	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
28	M154A	Z	0	0	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	0	0	0	%100
31	M157A	X	.31	.31	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	.941	.941	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	1.24	1.24	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	.941	.941	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	1.24	1.24	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	.941	.941	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	.31	.31	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	.941	.941	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	0	0	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	0	0	0	%100
51	M173A	X	.508	.508	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	.508	.508	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	.508	.508	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	.508	.508	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	.509	.509	0	%100
60	M183A	Z	0	0	0	%100
61	M186A	X	.509	.509	0	%100
62	M186A	Z	0	0	0	%100
63	M105	X	.539	.539	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	.539	.539	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	.204	.204	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	.204	.204	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	1.1e-5	1.1e-5	0	%100
72	M93A	Z	0	0	0	%100
73	M95A	X	.514	.514	0	%100
74	M95A	Z	0	0	0	%100
75	M101A	X	.514	.514	0	%100
76	M101A	Z	0	0	0	%100
77	M103A	X	1.1e-5	1.1e-5	0	%100
78	M103A	Z	0	0	0	%100
79	MP5A	X	.488	.488	0	%100
80	MP5A	Z	0	0	0	%100
81	MP4A	X	.488	.488	0	%100
82	MP4A	Z	0	0	0	%100
83	MP2A	X	.591	.591	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	.488	.488	0	%100
86	MP1A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
87	MP3A	X	.488	.488	0	%100
88	MP3A	Z	0	0	0	%100
89	MP5C	X	.488	.488	0	%100
90	MP5C	Z	0	0	0	%100
91	MP4C	X	.488	.488	0	%100
92	MP4C	Z	0	0	0	%100
93	MP2C	X	.591	.591	0	%100
94	MP2C	Z	0	0	0	%100
95	MP1C	X	.488	.488	0	%100
96	MP1C	Z	0	0	0	%100
97	MP3C	X	.488	.488	0	%100
98	MP3C	Z	0	0	0	%100
99	MP5B	X	.488	.488	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	.488	.488	0	%100
102	MP4B	Z	0	0	0	%100
103	MP2B	X	.591	.591	0	%100
104	MP2B	Z	0	0	0	%100
105	MP1B	X	.488	.488	0	%100
106	MP1B	Z	0	0	0	%100
107	MP3B	X	.488	.488	0	%100
108	MP3B	Z	0	0	0	%100
109	O1	X	.399	.399	0	%100
110	O1	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M110	X	.443	.443	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	.443	.443	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	.499	.499	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	0	0	0	%100
121	M133	X	.499	.499	0	%100
122	M133	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....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	.156	.156	0	%100
2	M20	Z	.09	.09	0	%100
3	M64	X	.805	.805	0	%100
4	M64	Z	.465	.465	0	%100
5	M65	X	.272	.272	0	%100
6	M65	Z	.157	.157	0	%100
7	M71	X	.282	.282	0	%100
8	M71	Z	.163	.163	0	%100
9	M138C	X	.282	.282	0	%100
10	M138C	Z	.163	.163	0	%100
11	M140C	X	.282	.282	0	%100
12	M140C	Z	.163	.163	0	%100
13	M142C	X	.282	.282	0	%100
14	M142C	Z	.163	.163	0	%100
15	M144C	X	1.127	1.127	0	%100
16	M144C	Z	.65	.65	0	%100
17	M146C	X	1.127	1.127	0	%100
18	M146C	Z	.65	.65	0	%100
19	M163A	X	.267	.267	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft....	End Magnitude lb/ft....	Start Location ft.%	End Location ft.%
20	M163A	Z	.154	.154	0	%100
21	M164A	X	.267	.267	0	%100
22	M164A	Z	.154	.154	0	%100
23	M165A	X	1.067	1.067	0	%100
24	M165A	Z	.616	.616	0	%100
25	M169A	X	.53	.53	0	%100
26	M169A	Z	.306	.306	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	.272	.272	0	%100
30	M155A	Z	.157	.157	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	.272	.272	0	%100
34	M158A	Z	.157	.157	0	%100
35	M160A	X	.805	.805	0	%100
36	M160A	Z	.465	.465	0	%100
37	M161A	X	.272	.272	0	%100
38	M161A	Z	.157	.157	0	%100
39	M163B	X	.805	.805	0	%100
40	M163B	Z	.465	.465	0	%100
41	M164B	X	1.087	1.087	0	%100
42	M164B	Z	.628	.628	0	%100
43	M166A	X	.805	.805	0	%100
44	M166A	Z	.465	.465	0	%100
45	M167A	X	1.087	1.087	0	%100
46	M167A	Z	.628	.628	0	%100
47	M169B	X	.147	.147	0	%100
48	M169B	Z	.085	.085	0	%100
49	M170B	X	.147	.147	0	%100
50	M170B	Z	.085	.085	0	%100
51	M173A	X	.147	.147	0	%100
52	M173A	Z	.085	.085	0	%100
53	M174A	X	.147	.147	0	%100
54	M174A	Z	.085	.085	0	%100
55	M177A	X	.587	.587	0	%100
56	M177A	Z	.339	.339	0	%100
57	M178A	X	.587	.587	0	%100
58	M178A	Z	.339	.339	0	%100
59	M183A	X	.591	.591	0	%100
60	M183A	Z	.341	.341	0	%100
61	M186A	X	.146	.146	0	%100
62	M186A	Z	.084	.084	0	%100
63	M105	X	.156	.156	0	%100
64	M105	Z	.09	.09	0	%100
65	M106A	X	.623	.623	0	%100
66	M106A	Z	.359	.359	0	%100
67	M105A	X	.53	.53	0	%100
68	M105A	Z	.306	.306	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	0	0	0	%100
71	M93A	X	.146	.146	0	%100
72	M93A	Z	.084	.084	0	%100
73	M95A	X	.591	.591	0	%100
74	M95A	Z	.341	.341	0	%100
75	M101A	X	.15	.15	0	%100
76	M101A	Z	.086	.086	0	%100
77	M103A	X	.15	.15	0	%100
78	M103A	Z	.086	.086	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
79	MP5A	X	.422	.422	0	%100
80	MP5A	Z	.244	.244	0	%100
81	MP4A	X	.422	.422	0	%100
82	MP4A	Z	.244	.244	0	%100
83	MP2A	X	.511	.511	0	%100
84	MP2A	Z	.295	.295	0	%100
85	MP1A	X	.422	.422	0	%100
86	MP1A	Z	.244	.244	0	%100
87	MP3A	X	.422	.422	0	%100
88	MP3A	Z	.244	.244	0	%100
89	MP5C	X	.422	.422	0	%100
90	MP5C	Z	.244	.244	0	%100
91	MP4C	X	.422	.422	0	%100
92	MP4C	Z	.244	.244	0	%100
93	MP2C	X	.511	.511	0	%100
94	MP2C	Z	.295	.295	0	%100
95	MP1C	X	.422	.422	0	%100
96	MP1C	Z	.244	.244	0	%100
97	MP3C	X	.422	.422	0	%100
98	MP3C	Z	.244	.244	0	%100
99	MP5B	X	.422	.422	0	%100
100	MP5B	Z	.244	.244	0	%100
101	MP4B	X	.422	.422	0	%100
102	MP4B	Z	.244	.244	0	%100
103	MP2B	X	.511	.511	0	%100
104	MP2B	Z	.295	.295	0	%100
105	MP1B	X	.422	.422	0	%100
106	MP1B	Z	.244	.244	0	%100
107	MP3B	X	.422	.422	0	%100
108	MP3B	Z	.244	.244	0	%100
109	O1	X	.345	.345	0	%100
110	O1	Z	.199	.199	0	%100
111	M108	X	.128	.128	0	%100
112	M108	Z	.074	.074	0	%100
113	M110	X	.128	.128	0	%100
114	M110	Z	.074	.074	0	%100
115	M111	X	.511	.511	0	%100
116	M111	Z	.295	.295	0	%100
117	M131	X	.577	.577	0	%100
118	M131	Z	.333	.333	0	%100
119	M132	X	.144	.144	0	%100
120	M132	Z	.083	.083	0	%100
121	M133	X	.144	.144	0	%100
122	M133	Z	.083	.083	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	.27	.27	0	%100
2	M20	Z	.467	.467	0	%100
3	M64	X	.62	.62	0	%100
4	M64	Z	1.074	1.074	0	%100
5	M65	X	.471	.471	0	%100
6	M65	Z	.815	.815	0	%100
7	M71	X	.488	.488	0	%100
8	M71	Z	.845	.845	0	%100
9	M138C	X	.488	.488	0	%100
10	M138C	Z	.845	.845	0	%100
11	M140C	X	0	0	0	%100



Company
Designer
Job Number
Model Name

July 20, 2023

1:06 PM

Checked By: _____

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

	Member Label	Direction	Start Magnitude/lb/ft....	End Magnitude/lb/ft....	Start Location/ft.%	End Location/ft.%
12	M140C	Z	0	0	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	.488	.488	0	%100
16	M144C	Z	.845	.845	0	%100
17	M146C	X	.488	.488	0	%100
18	M146C	Z	.845	.845	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	.462	.462	0	%100
22	M164A	Z	.801	.801	0	%100
23	M165A	X	.462	.462	0	%100
24	M165A	Z	.801	.801	0	%100
25	M169A	X	.102	.102	0	%100
26	M169A	Z	.177	.177	0	%100
27	M154A	X	.155	.155	0	%100
28	M154A	Z	.268	.268	0	%100
29	M155A	X	.471	.471	0	%100
30	M155A	Z	.815	.815	0	%100
31	M157A	X	.155	.155	0	%100
32	M157A	Z	.268	.268	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	.155	.155	0	%100
36	M160A	Z	.268	.268	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	.155	.155	0	%100
40	M163B	Z	.268	.268	0	%100
41	M164B	X	.471	.471	0	%100
42	M164B	Z	.815	.815	0	%100
43	M166A	X	.62	.62	0	%100
44	M166A	Z	1.074	1.074	0	%100
45	M167A	X	.471	.471	0	%100
46	M167A	Z	.815	.815	0	%100
47	M169B	X	.254	.254	0	%100
48	M169B	Z	.44	.44	0	%100
49	M170B	X	.254	.254	0	%100
50	M170B	Z	.44	.44	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	.254	.254	0	%100
56	M177A	Z	.44	.44	0	%100
57	M178A	X	.254	.254	0	%100
58	M178A	Z	.44	.44	0	%100
59	M183A	X	.257	.257	0	%100
60	M183A	Z	.445	.445	0	%100
61	M186A	X	6e-6	6e-6	0	%100
62	M186A	Z	1e-5	1e-5	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	.27	.27	0	%100
66	M106A	Z	.467	.467	0	%100
67	M105A	X	.408	.408	0	%100
68	M105A	Z	.707	.707	0	%100
69	M106B	X	.102	.102	0	%100
70	M106B	Z	.177	.177	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
71	M93A	X	.255	.255	0	%100
72	M93A	Z	.441	.441	0	%100
73	M95A	X	.255	.255	0	%100
74	M95A	Z	.441	.441	0	%100
75	M101A	X	6e-6	6e-6	0	%100
76	M101A	Z	1e-5	1e-5	0	%100
77	M103A	X	.257	.257	0	%100
78	M103A	Z	.445	.445	0	%100
79	MP5A	X	.244	.244	0	%100
80	MP5A	Z	.422	.422	0	%100
81	MP4A	X	.244	.244	0	%100
82	MP4A	Z	.422	.422	0	%100
83	MP2A	X	.295	.295	0	%100
84	MP2A	Z	.511	.511	0	%100
85	MP1A	X	.244	.244	0	%100
86	MP1A	Z	.422	.422	0	%100
87	MP3A	X	.244	.244	0	%100
88	MP3A	Z	.422	.422	0	%100
89	MP5C	X	.244	.244	0	%100
90	MP5C	Z	.422	.422	0	%100
91	MP4C	X	.244	.244	0	%100
92	MP4C	Z	.422	.422	0	%100
93	MP2C	X	.295	.295	0	%100
94	MP2C	Z	.511	.511	0	%100
95	MP1C	X	.244	.244	0	%100
96	MP1C	Z	.422	.422	0	%100
97	MP3C	X	.244	.244	0	%100
98	MP3C	Z	.422	.422	0	%100
99	MP5B	X	.244	.244	0	%100
100	MP5B	Z	.422	.422	0	%100
101	MP4B	X	.244	.244	0	%100
102	MP4B	Z	.422	.422	0	%100
103	MP2B	X	.295	.295	0	%100
104	MP2B	Z	.511	.511	0	%100
105	MP1B	X	.244	.244	0	%100
106	MP1B	Z	.422	.422	0	%100
107	MP3B	X	.244	.244	0	%100
108	MP3B	Z	.422	.422	0	%100
109	O1	X	.199	.199	0	%100
110	O1	Z	.345	.345	0	%100
111	M108	X	.221	.221	0	%100
112	M108	Z	.384	.384	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	.221	.221	0	%100
116	M111	Z	.384	.384	0	%100
117	M131	X	.25	.25	0	%100
118	M131	Z	.433	.433	0	%100
119	M132	X	.25	.25	0	%100
120	M132	Z	.433	.433	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	.719	.719	0	%100
3	M64	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude(lb/ft....)	End Magnitude(lb/ft....)	Start Location(ft.%)	End Location(ft.%)
4	M64	Z	.93	.93	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	1.255	1.255	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	1.301	1.301	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	1.301	1.301	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	.325	.325	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	.325	.325	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	.325	.325	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	.325	.325	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	.308	.308	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	1.232	1.232	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	.308	.308	0	%100
25	M169A	X	0	0	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	.93	.93	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	1.255	1.255	0	%100
31	M157A	X	0	0	0	%100
32	M157A	Z	.93	.93	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	.314	.314	0	%100
35	M160A	X	0	0	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	.314	.314	0	%100
39	M163B	X	0	0	0	%100
40	M163B	Z	0	0	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	.314	.314	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	.93	.93	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	.314	.314	0	%100
47	M169B	X	0	0	0	%100
48	M169B	Z	.678	.678	0	%100
49	M170B	X	0	0	0	%100
50	M170B	Z	.678	.678	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	.169	.169	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	.169	.169	0	%100
55	M177A	X	0	0	0	%100
56	M177A	Z	.169	.169	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	.169	.169	0	%100
59	M183A	X	0	0	0	%100
60	M183A	Z	.173	.173	0	%100
61	M186A	X	0	0	0	%100
62	M186A	Z	.173	.173	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]	
63	M105	X	0	0	0	%100
64	M105	Z	.18	.18	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	.18	.18	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	.612	.612	0	%100
69	M106B	X	0	0	0	%100
70	M106B	Z	.612	.612	0	%100
71	M93A	X	0	0	0	%100
72	M93A	Z	.682	.682	0	%100
73	M95A	X	0	0	0	%100
74	M95A	Z	.168	.168	0	%100
75	M101A	X	0	0	0	%100
76	M101A	Z	.168	.168	0	%100
77	M103A	X	0	0	0	%100
78	M103A	Z	.682	.682	0	%100
79	MP5A	X	0	0	0	%100
80	MP5A	Z	.488	.488	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	.488	.488	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	.591	.591	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	.488	.488	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	.488	.488	0	%100
89	MP5C	X	0	0	0	%100
90	MP5C	Z	.488	.488	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	.488	.488	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	.591	.591	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	.488	.488	0	%100
97	MP3C	X	0	0	0	%100
98	MP3C	Z	.488	.488	0	%100
99	MP5B	X	0	0	0	%100
100	MP5B	Z	.488	.488	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	.488	.488	0	%100
103	MP2B	X	0	0	0	%100
104	MP2B	Z	.591	.591	0	%100
105	MP1B	X	0	0	0	%100
106	MP1B	Z	.488	.488	0	%100
107	MP3B	X	0	0	0	%100
108	MP3B	Z	.488	.488	0	%100
109	O1	X	0	0	0	%100
110	O1	Z	.399	.399	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	.591	.591	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	.148	.148	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	.148	.148	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	.166	.166	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	.666	.666	0	%100
121	M133	X	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
122	M133	Z	.166	.166	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-.27	-.27	0	%100
2	M20	Z	.467	.467	0	%100
3	M64	X	-.155	-.155	0	%100
4	M64	Z	.268	.268	0	%100
5	M65	X	-.471	-.471	0	%100
6	M65	Z	.815	.815	0	%100
7	M71	X	-.488	-.488	0	%100
8	M71	Z	.845	.845	0	%100
9	M138C	X	-.488	-.488	0	%100
10	M138C	Z	.845	.845	0	%100
11	M140C	X	-.488	-.488	0	%100
12	M140C	Z	.845	.845	0	%100
13	M142C	X	-.488	-.488	0	%100
14	M142C	Z	.845	.845	0	%100
15	M144C	X	0	0	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	0	0	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	-.462	-.462	0	%100
20	M163A	Z	.801	.801	0	%100
21	M164A	X	-.462	-.462	0	%100
22	M164A	Z	.801	.801	0	%100
23	M165A	X	0	0	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	-.102	-.102	0	%100
26	M169A	Z	.177	.177	0	%100
27	M154A	X	-.62	-.62	0	%100
28	M154A	Z	1.074	1.074	0	%100
29	M155A	X	-.471	-.471	0	%100
30	M155A	Z	.815	.815	0	%100
31	M157A	X	-.62	-.62	0	%100
32	M157A	Z	1.074	1.074	0	%100
33	M158A	X	-.471	-.471	0	%100
34	M158A	Z	.815	.815	0	%100
35	M160A	X	-.155	-.155	0	%100
36	M160A	Z	.268	.268	0	%100
37	M161A	X	-.471	-.471	0	%100
38	M161A	Z	.815	.815	0	%100
39	M163B	X	-.155	-.155	0	%100
40	M163B	Z	.268	.268	0	%100
41	M164B	X	0	0	0	%100
42	M164B	Z	0	0	0	%100
43	M166A	X	-.155	-.155	0	%100
44	M166A	Z	.268	.268	0	%100
45	M167A	X	0	0	0	%100
46	M167A	Z	0	0	0	%100
47	M169B	X	-.254	-.254	0	%100
48	M169B	Z	.44	.44	0	%100
49	M170B	X	-.254	-.254	0	%100
50	M170B	Z	.44	.44	0	%100
51	M173A	X	-.254	-.254	0	%100
52	M173A	Z	.44	.44	0	%100
53	M174A	X	-.254	-.254	0	%100
54	M174A	Z	.44	.44	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
55	M177A	X	0	0	0	%100
56	M177A	Z	0	0	0	%100
57	M178A	X	0	0	0	%100
58	M178A	Z	0	0	0	%100
59	M183A	X	-6e-6	-6e-6	0	%100
60	M183A	Z	1e-5	1e-5	0	%100
61	M186A	X	-.257	-.257	0	%100
62	M186A	Z	.445	.445	0	%100
63	M105	X	-.27	-.27	0	%100
64	M105	Z	.467	.467	0	%100
65	M106A	X	0	0	0	%100
66	M106A	Z	0	0	0	%100
67	M105A	X	-.102	-.102	0	%100
68	M105A	Z	.177	.177	0	%100
69	M106B	X	-.408	-.408	0	%100
70	M106B	Z	.707	.707	0	%100
71	M93A	X	-.257	-.257	0	%100
72	M93A	Z	.445	.445	0	%100
73	M95A	X	-6e-6	-6e-6	0	%100
74	M95A	Z	1e-5	1e-5	0	%100
75	M101A	X	-.255	-.255	0	%100
76	M101A	Z	.441	.441	0	%100
77	M103A	X	-.255	-.255	0	%100
78	M103A	Z	.441	.441	0	%100
79	MP5A	X	-.244	-.244	0	%100
80	MP5A	Z	.422	.422	0	%100
81	MP4A	X	-.244	-.244	0	%100
82	MP4A	Z	.422	.422	0	%100
83	MP2A	X	-.295	-.295	0	%100
84	MP2A	Z	.511	.511	0	%100
85	MP1A	X	-.244	-.244	0	%100
86	MP1A	Z	.422	.422	0	%100
87	MP3A	X	-.244	-.244	0	%100
88	MP3A	Z	.422	.422	0	%100
89	MP5C	X	-.244	-.244	0	%100
90	MP5C	Z	.422	.422	0	%100
91	MP4C	X	-.244	-.244	0	%100
92	MP4C	Z	.422	.422	0	%100
93	MP2C	X	-.295	-.295	0	%100
94	MP2C	Z	.511	.511	0	%100
95	MP1C	X	-.244	-.244	0	%100
96	MP1C	Z	.422	.422	0	%100
97	MP3C	X	-.244	-.244	0	%100
98	MP3C	Z	.422	.422	0	%100
99	MP5B	X	-.244	-.244	0	%100
100	MP5B	Z	.422	.422	0	%100
101	MP4B	X	-.244	-.244	0	%100
102	MP4B	Z	.422	.422	0	%100
103	MP2B	X	-.295	-.295	0	%100
104	MP2B	Z	.511	.511	0	%100
105	MP1B	X	-.244	-.244	0	%100
106	MP1B	Z	.422	.422	0	%100
107	MP3B	X	-.244	-.244	0	%100
108	MP3B	Z	.422	.422	0	%100
109	O1	X	-.199	-.199	0	%100
110	O1	Z	.345	.345	0	%100
111	M108	X	-.221	-.221	0	%100
112	M108	Z	.384	.384	0	%100
113	M110	X	-.221	-.221	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
114	M110	Z	.384	.384	0	%100
115	M111	X	0	0	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	0	0	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	-.25	-.25	0	%100
120	M132	Z	.433	.433	0	%100
121	M133	X	-.25	-.25	0	%100
122	M133	Z	.433	.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-.156	-.156	0	%100
2	M20	Z	.09	.09	0	%100
3	M64	X	0	0	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	-.272	-.272	0	%100
6	M65	Z	.157	.157	0	%100
7	M71	X	-.282	-.282	0	%100
8	M71	Z	.163	.163	0	%100
9	M138C	X	-.282	-.282	0	%100
10	M138C	Z	.163	.163	0	%100
11	M140C	X	-1.127	-1.127	0	%100
12	M140C	Z	.65	.65	0	%100
13	M142C	X	-1.127	-1.127	0	%100
14	M142C	Z	.65	.65	0	%100
15	M144C	X	-.282	-.282	0	%100
16	M144C	Z	.163	.163	0	%100
17	M146C	X	-.282	-.282	0	%100
18	M146C	Z	.163	.163	0	%100
19	M163A	X	-1.067	-1.067	0	%100
20	M163A	Z	.616	.616	0	%100
21	M164A	X	-.267	-.267	0	%100
22	M164A	Z	.154	.154	0	%100
23	M165A	X	-.267	-.267	0	%100
24	M165A	Z	.154	.154	0	%100
25	M169A	X	-.53	-.53	0	%100
26	M169A	Z	.306	.306	0	%100
27	M154A	X	-.805	-.805	0	%100
28	M154A	Z	.465	.465	0	%100
29	M155A	X	-.272	-.272	0	%100
30	M155A	Z	.157	.157	0	%100
31	M157A	X	-.805	-.805	0	%100
32	M157A	Z	.465	.465	0	%100
33	M158A	X	-1.087	-1.087	0	%100
34	M158A	Z	.628	.628	0	%100
35	M160A	X	-.805	-.805	0	%100
36	M160A	Z	.465	.465	0	%100
37	M161A	X	-1.087	-1.087	0	%100
38	M161A	Z	.628	.628	0	%100
39	M163B	X	-.805	-.805	0	%100
40	M163B	Z	.465	.465	0	%100
41	M164B	X	-.272	-.272	0	%100
42	M164B	Z	.157	.157	0	%100
43	M166A	X	0	0	0	%100
44	M166A	Z	0	0	0	%100
45	M167A	X	-.272	-.272	0	%100
46	M167A	Z	.157	.157	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
47	M169B	X	-.147	-.147	0	%100
48	M169B	Z	.085	.085	0	%100
49	M170B	X	-.147	-.147	0	%100
50	M170B	Z	.085	.085	0	%100
51	M173A	X	-.587	-.587	0	%100
52	M173A	Z	.339	.339	0	%100
53	M174A	X	-.587	-.587	0	%100
54	M174A	Z	.339	.339	0	%100
55	M177A	X	-.147	-.147	0	%100
56	M177A	Z	.085	.085	0	%100
57	M178A	X	-.147	-.147	0	%100
58	M178A	Z	.085	.085	0	%100
59	M183A	X	-.146	-.146	0	%100
60	M183A	Z	.084	.084	0	%100
61	M186A	X	-.591	-.591	0	%100
62	M186A	Z	.341	.341	0	%100
63	M105	X	-.623	-.623	0	%100
64	M105	Z	.359	.359	0	%100
65	M106A	X	-.156	-.156	0	%100
66	M106A	Z	.09	.09	0	%100
67	M105A	X	0	0	0	%100
68	M105A	Z	0	0	0	%100
69	M106B	X	-.53	-.53	0	%100
70	M106B	Z	.306	.306	0	%100
71	M93A	X	-.15	-.15	0	%100
72	M93A	Z	.086	.086	0	%100
73	M95A	X	-.15	-.15	0	%100
74	M95A	Z	.086	.086	0	%100
75	M101A	X	-.591	-.591	0	%100
76	M101A	Z	.341	.341	0	%100
77	M103A	X	-.146	-.146	0	%100
78	M103A	Z	.084	.084	0	%100
79	MP5A	X	-.422	-.422	0	%100
80	MP5A	Z	.244	.244	0	%100
81	MP4A	X	-.422	-.422	0	%100
82	MP4A	Z	.244	.244	0	%100
83	MP2A	X	-.511	-.511	0	%100
84	MP2A	Z	.295	.295	0	%100
85	MP1A	X	-.422	-.422	0	%100
86	MP1A	Z	.244	.244	0	%100
87	MP3A	X	-.422	-.422	0	%100
88	MP3A	Z	.244	.244	0	%100
89	MP5C	X	-.422	-.422	0	%100
90	MP5C	Z	.244	.244	0	%100
91	MP4C	X	-.422	-.422	0	%100
92	MP4C	Z	.244	.244	0	%100
93	MP2C	X	-.511	-.511	0	%100
94	MP2C	Z	.295	.295	0	%100
95	MP1C	X	-.422	-.422	0	%100
96	MP1C	Z	.244	.244	0	%100
97	MP3C	X	-.422	-.422	0	%100
98	MP3C	Z	.244	.244	0	%100
99	MP5B	X	-.422	-.422	0	%100
100	MP5B	Z	.244	.244	0	%100
101	MP4B	X	-.422	-.422	0	%100
102	MP4B	Z	.244	.244	0	%100
103	MP2B	X	-.511	-.511	0	%100
104	MP2B	Z	.295	.295	0	%100
105	MP1B	X	-.422	-.422	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.....	End Magnitude[lb/ft.....	Start Location[ft.%]	End Location[ft.%]
106	MP1B	Z	.244	.244	0	%100
107	MP3B	X	-.422	-.422	0	%100
108	MP3B	Z	.244	.244	0	%100
109	O1	X	-.345	-.345	0	%100
110	O1	Z	.199	.199	0	%100
111	M108	X	-.128	-.128	0	%100
112	M108	Z	.074	.074	0	%100
113	M110	X	-.511	-.511	0	%100
114	M110	Z	.295	.295	0	%100
115	M111	X	-.128	-.128	0	%100
116	M111	Z	.074	.074	0	%100
117	M131	X	-.144	-.144	0	%100
118	M131	Z	.083	.083	0	%100
119	M132	X	-.144	-.144	0	%100
120	M132	Z	.083	.083	0	%100
121	M133	X	-.577	-.577	0	%100
122	M133	Z	.333	.333	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.....	End Magnitude[lb/ft.....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M64	X	-.31	-.31	0	%100
4	M64	Z	0	0	0	%100
5	M65	X	0	0	0	%100
6	M65	Z	0	0	0	%100
7	M71	X	0	0	0	%100
8	M71	Z	0	0	0	%100
9	M138C	X	0	0	0	%100
10	M138C	Z	0	0	0	%100
11	M140C	X	-.976	-.976	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	-.976	-.976	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	-.976	-.976	0	%100
16	M144C	Z	0	0	0	%100
17	M146C	X	-.976	-.976	0	%100
18	M146C	Z	0	0	0	%100
19	M163A	X	-.924	-.924	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	0	0	0	%100
22	M164A	Z	0	0	0	%100
23	M165A	X	-.924	-.924	0	%100
24	M165A	Z	0	0	0	%100
25	M169A	X	-.816	-.816	0	%100
26	M169A	Z	0	0	0	%100
27	M154A	X	-.31	-.31	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	0	0	0	%100
30	M155A	Z	0	0	0	%100
31	M157A	X	-.31	-.31	0	%100
32	M157A	Z	0	0	0	%100
33	M158A	X	-.941	-.941	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	-1.24	-1.24	0	%100
36	M160A	Z	0	0	0	%100
37	M161A	X	-.941	-.941	0	%100
38	M161A	Z	0	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft.%]	End Location[ft.%]
39	M163B	X	-1.24	-1.24	0 %100
40	M163B	Z	0	0	0 %100
41	M164B	X	-.941	-.941	0 %100
42	M164B	Z	0	0	0 %100
43	M166A	X	-.31	-.31	0 %100
44	M166A	Z	0	0	0 %100
45	M167A	X	-.941	-.941	0 %100
46	M167A	Z	0	0	0 %100
47	M169B	X	0	0	0 %100
48	M169B	Z	0	0	0 %100
49	M170B	X	0	0	0 %100
50	M170B	Z	0	0	0 %100
51	M173A	X	-.508	-.508	0 %100
52	M173A	Z	0	0	0 %100
53	M174A	X	-.508	-.508	0 %100
54	M174A	Z	0	0	0 %100
55	M177A	X	-.508	-.508	0 %100
56	M177A	Z	0	0	0 %100
57	M178A	X	-.508	-.508	0 %100
58	M178A	Z	0	0	0 %100
59	M183A	X	-.509	-.509	0 %100
60	M183A	Z	0	0	0 %100
61	M186A	X	-.509	-.509	0 %100
62	M186A	Z	0	0	0 %100
63	M105	X	-.539	-.539	0 %100
64	M105	Z	0	0	0 %100
65	M106A	X	-.539	-.539	0 %100
66	M106A	Z	0	0	0 %100
67	M105A	X	-.204	-.204	0 %100
68	M105A	Z	0	0	0 %100
69	M106B	X	-.204	-.204	0 %100
70	M106B	Z	0	0	0 %100
71	M93A	X	-1.1e-5	-1.1e-5	0 %100
72	M93A	Z	0	0	0 %100
73	M95A	X	-.514	-.514	0 %100
74	M95A	Z	0	0	0 %100
75	M101A	X	-.514	-.514	0 %100
76	M101A	Z	0	0	0 %100
77	M103A	X	-1.1e-5	-1.1e-5	0 %100
78	M103A	Z	0	0	0 %100
79	MP5A	X	-.488	-.488	0 %100
80	MP5A	Z	0	0	0 %100
81	MP4A	X	-.488	-.488	0 %100
82	MP4A	Z	0	0	0 %100
83	MP2A	X	-.591	-.591	0 %100
84	MP2A	Z	0	0	0 %100
85	MP1A	X	-.488	-.488	0 %100
86	MP1A	Z	0	0	0 %100
87	MP3A	X	-.488	-.488	0 %100
88	MP3A	Z	0	0	0 %100
89	MP5C	X	-.488	-.488	0 %100
90	MP5C	Z	0	0	0 %100
91	MP4C	X	-.488	-.488	0 %100
92	MP4C	Z	0	0	0 %100
93	MP2C	X	-.591	-.591	0 %100
94	MP2C	Z	0	0	0 %100
95	MP1C	X	-.488	-.488	0 %100
96	MP1C	Z	0	0	0 %100
97	MP3C	X	-.488	-.488	0 %100



Company Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
98	MP3C	Z	0	0	0	%100
99	MP5B	X	-488	-488	0	%100
100	MP5B	Z	0	0	0	%100
101	MP4B	X	-488	-488	0	%100
102	MP4B	Z	0	0	0	%100
103	MP2B	X	-591	-591	0	%100
104	MP2B	Z	0	0	0	%100
105	MP1B	X	-488	-488	0	%100
106	MP1B	Z	0	0	0	%100
107	MP3B	X	-488	-488	0	%100
108	MP3B	Z	0	0	0	%100
109	O1	X	-399	-399	0	%100
110	O1	Z	0	0	0	%100
111	M108	X	0	0	0	%100
112	M108	Z	0	0	0	%100
113	M110	X	-443	-443	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	-443	-443	0	%100
116	M111	Z	0	0	0	%100
117	M131	X	-499	-499	0	%100
118	M131	Z	0	0	0	%100
119	M132	X	0	0	0	%100
120	M132	Z	0	0	0	%100
121	M133	X	-499	-499	0	%100
122	M133	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....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-156	-156	0	%100
2	M20	Z	-.09	-.09	0	%100
3	M64	X	-805	-805	0	%100
4	M64	Z	-465	-465	0	%100
5	M65	X	-272	-272	0	%100
6	M65	Z	-157	-157	0	%100
7	M71	X	-282	-282	0	%100
8	M71	Z	-163	-163	0	%100
9	M138C	X	-282	-282	0	%100
10	M138C	Z	-163	-163	0	%100
11	M140C	X	-282	-282	0	%100
12	M140C	Z	-163	-163	0	%100
13	M142C	X	-282	-282	0	%100
14	M142C	Z	-163	-163	0	%100
15	M144C	X	-1.127	-1.127	0	%100
16	M144C	Z	-.65	-.65	0	%100
17	M146C	X	-1.127	-1.127	0	%100
18	M146C	Z	-.65	-.65	0	%100
19	M163A	X	-.267	-.267	0	%100
20	M163A	Z	-.154	-.154	0	%100
21	M164A	X	-.267	-.267	0	%100
22	M164A	Z	-.154	-.154	0	%100
23	M165A	X	-1.067	-1.067	0	%100
24	M165A	Z	-.616	-.616	0	%100
25	M169A	X	-.53	-.53	0	%100
26	M169A	Z	-.306	-.306	0	%100
27	M154A	X	0	0	0	%100
28	M154A	Z	0	0	0	%100
29	M155A	X	-.272	-.272	0	%100
30	M155A	Z	-.157	-.157	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
31	M157A	X	0	0	0 %100
32	M157A	Z	0	0	0 %100
33	M158A	X	-.272	-.272	0 %100
34	M158A	Z	-.157	-.157	0 %100
35	M160A	X	-.805	-.805	0 %100
36	M160A	Z	-.465	-.465	0 %100
37	M161A	X	-.272	-.272	0 %100
38	M161A	Z	-.157	-.157	0 %100
39	M163B	X	-.805	-.805	0 %100
40	M163B	Z	-.465	-.465	0 %100
41	M164B	X	-1.087	-1.087	0 %100
42	M164B	Z	-.628	-.628	0 %100
43	M166A	X	-.805	-.805	0 %100
44	M166A	Z	-.465	-.465	0 %100
45	M167A	X	-1.087	-1.087	0 %100
46	M167A	Z	-.628	-.628	0 %100
47	M169B	X	-.147	-.147	0 %100
48	M169B	Z	-.085	-.085	0 %100
49	M170B	X	-.147	-.147	0 %100
50	M170B	Z	-.085	-.085	0 %100
51	M173A	X	-.147	-.147	0 %100
52	M173A	Z	-.085	-.085	0 %100
53	M174A	X	-.147	-.147	0 %100
54	M174A	Z	-.085	-.085	0 %100
55	M177A	X	-.587	-.587	0 %100
56	M177A	Z	-.339	-.339	0 %100
57	M178A	X	-.587	-.587	0 %100
58	M178A	Z	-.339	-.339	0 %100
59	M183A	X	-.591	-.591	0 %100
60	M183A	Z	-.341	-.341	0 %100
61	M186A	X	-.146	-.146	0 %100
62	M186A	Z	-.084	-.084	0 %100
63	M105	X	-.156	-.156	0 %100
64	M105	Z	-.09	-.09	0 %100
65	M106A	X	-.623	-.623	0 %100
66	M106A	Z	-.359	-.359	0 %100
67	M105A	X	-.53	-.53	0 %100
68	M105A	Z	-.306	-.306	0 %100
69	M106B	X	0	0	0 %100
70	M106B	Z	0	0	0 %100
71	M93A	X	-.146	-.146	0 %100
72	M93A	Z	-.084	-.084	0 %100
73	M95A	X	-.591	-.591	0 %100
74	M95A	Z	-.341	-.341	0 %100
75	M101A	X	-.15	-.15	0 %100
76	M101A	Z	-.086	-.086	0 %100
77	M103A	X	-.15	-.15	0 %100
78	M103A	Z	-.086	-.086	0 %100
79	MP5A	X	-.422	-.422	0 %100
80	MP5A	Z	-.244	-.244	0 %100
81	MP4A	X	-.422	-.422	0 %100
82	MP4A	Z	-.244	-.244	0 %100
83	MP2A	X	-.511	-.511	0 %100
84	MP2A	Z	-.295	-.295	0 %100
85	MP1A	X	-.422	-.422	0 %100
86	MP1A	Z	-.244	-.244	0 %100
87	MP3A	X	-.422	-.422	0 %100
88	MP3A	Z	-.244	-.244	0 %100
89	MP5C	X	-.422	-.422	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft.....	End Magnitude[lb/ft.....	Start Location[ft.%]	End Location[ft.%]
90	MP5C	Z	-244	-244	0	%100
91	MP4C	X	-422	-422	0	%100
92	MP4C	Z	-244	-244	0	%100
93	MP2C	X	-511	-511	0	%100
94	MP2C	Z	-295	-295	0	%100
95	MP1C	X	-422	-422	0	%100
96	MP1C	Z	-244	-244	0	%100
97	MP3C	X	-422	-422	0	%100
98	MP3C	Z	-244	-244	0	%100
99	MP5B	X	-422	-422	0	%100
100	MP5B	Z	-244	-244	0	%100
101	MP4B	X	-422	-422	0	%100
102	MP4B	Z	-244	-244	0	%100
103	MP2B	X	-511	-511	0	%100
104	MP2B	Z	-295	-295	0	%100
105	MP1B	X	-422	-422	0	%100
106	MP1B	Z	-244	-244	0	%100
107	MP3B	X	-422	-422	0	%100
108	MP3B	Z	-244	-244	0	%100
109	O1	X	-345	-345	0	%100
110	O1	Z	-199	-199	0	%100
111	M108	X	-128	-128	0	%100
112	M108	Z	-074	-074	0	%100
113	M110	X	-128	-128	0	%100
114	M110	Z	-074	-074	0	%100
115	M111	X	-511	-511	0	%100
116	M111	Z	-295	-295	0	%100
117	M131	X	-577	-577	0	%100
118	M131	Z	-333	-333	0	%100
119	M132	X	-144	-144	0	%100
120	M132	Z	-083	-083	0	%100
121	M133	X	-144	-144	0	%100
122	M133	Z	-083	-083	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.....	End Magnitude[lb/ft.....	Start Location[ft.%]	End Location[ft.%]
1	M20	X	-27	-27	0	%100
2	M20	Z	-467	-467	0	%100
3	M64	X	-62	-62	0	%100
4	M64	Z	-1.074	-1.074	0	%100
5	M65	X	-471	-471	0	%100
6	M65	Z	-815	-815	0	%100
7	M71	X	-488	-488	0	%100
8	M71	Z	-845	-845	0	%100
9	M138C	X	-488	-488	0	%100
10	M138C	Z	-845	-845	0	%100
11	M140C	X	0	0	0	%100
12	M140C	Z	0	0	0	%100
13	M142C	X	0	0	0	%100
14	M142C	Z	0	0	0	%100
15	M144C	X	-488	-488	0	%100
16	M144C	Z	-845	-845	0	%100
17	M146C	X	-488	-488	0	%100
18	M146C	Z	-845	-845	0	%100
19	M163A	X	0	0	0	%100
20	M163A	Z	0	0	0	%100
21	M164A	X	-462	-462	0	%100
22	M164A	Z	-801	-801	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
23	M165A	X	-462	-462	0	%100
24	M165A	Z	-801	-801	0	%100
25	M169A	X	-102	-102	0	%100
26	M169A	Z	-177	-177	0	%100
27	M154A	X	-155	-155	0	%100
28	M154A	Z	-268	-268	0	%100
29	M155A	X	-471	-471	0	%100
30	M155A	Z	-815	-815	0	%100
31	M157A	X	-155	-155	0	%100
32	M157A	Z	-268	-268	0	%100
33	M158A	X	0	0	0	%100
34	M158A	Z	0	0	0	%100
35	M160A	X	-155	-155	0	%100
36	M160A	Z	-268	-268	0	%100
37	M161A	X	0	0	0	%100
38	M161A	Z	0	0	0	%100
39	M163B	X	-155	-155	0	%100
40	M163B	Z	-268	-268	0	%100
41	M164B	X	-471	-471	0	%100
42	M164B	Z	-815	-815	0	%100
43	M166A	X	-62	-62	0	%100
44	M166A	Z	-1.074	-1.074	0	%100
45	M167A	X	-471	-471	0	%100
46	M167A	Z	-815	-815	0	%100
47	M169B	X	-254	-254	0	%100
48	M169B	Z	-44	-44	0	%100
49	M170B	X	-254	-254	0	%100
50	M170B	Z	-44	-44	0	%100
51	M173A	X	0	0	0	%100
52	M173A	Z	0	0	0	%100
53	M174A	X	0	0	0	%100
54	M174A	Z	0	0	0	%100
55	M177A	X	-254	-254	0	%100
56	M177A	Z	-44	-44	0	%100
57	M178A	X	-254	-254	0	%100
58	M178A	Z	-44	-44	0	%100
59	M183A	X	-257	-257	0	%100
60	M183A	Z	-445	-445	0	%100
61	M186A	X	-6e-6	-6e-6	0	%100
62	M186A	Z	-1e-5	-1e-5	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	0	0	0	%100
65	M106A	X	-27	-27	0	%100
66	M106A	Z	-467	-467	0	%100
67	M105A	X	-408	-408	0	%100
68	M105A	Z	-707	-707	0	%100
69	M106B	X	-102	-102	0	%100
70	M106B	Z	-177	-177	0	%100
71	M93A	X	-255	-255	0	%100
72	M93A	Z	-441	-441	0	%100
73	M95A	X	-255	-255	0	%100
74	M95A	Z	-441	-441	0	%100
75	M101A	X	-6e-6	-6e-6	0	%100
76	M101A	Z	-1e-5	-1e-5	0	%100
77	M103A	X	-257	-257	0	%100
78	M103A	Z	-445	-445	0	%100
79	MP5A	X	-244	-244	0	%100
80	MP5A	Z	-422	-422	0	%100
81	MP4A	X	-244	-244	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
82	MP4A	Z	-422	-422	0	%100
83	MP2A	X	-295	-295	0	%100
84	MP2A	Z	-511	-511	0	%100
85	MP1A	X	-244	-244	0	%100
86	MP1A	Z	-422	-422	0	%100
87	MP3A	X	-244	-244	0	%100
88	MP3A	Z	-422	-422	0	%100
89	MP5C	X	-244	-244	0	%100
90	MP5C	Z	-422	-422	0	%100
91	MP4C	X	-244	-244	0	%100
92	MP4C	Z	-422	-422	0	%100
93	MP2C	X	-295	-295	0	%100
94	MP2C	Z	-511	-511	0	%100
95	MP1C	X	-244	-244	0	%100
96	MP1C	Z	-422	-422	0	%100
97	MP3C	X	-244	-244	0	%100
98	MP3C	Z	-422	-422	0	%100
99	MP5B	X	-244	-244	0	%100
100	MP5B	Z	-422	-422	0	%100
101	MP4B	X	-244	-244	0	%100
102	MP4B	Z	-422	-422	0	%100
103	MP2B	X	-295	-295	0	%100
104	MP2B	Z	-511	-511	0	%100
105	MP1B	X	-244	-244	0	%100
106	MP1B	Z	-422	-422	0	%100
107	MP3B	X	-244	-244	0	%100
108	MP3B	Z	-422	-422	0	%100
109	O1	X	-199	-199	0	%100
110	O1	Z	-345	-345	0	%100
111	M108	X	-221	-221	0	%100
112	M108	Z	-384	-384	0	%100
113	M110	X	0	0	0	%100
114	M110	Z	0	0	0	%100
115	M111	X	-221	-221	0	%100
116	M111	Z	-384	-384	0	%100
117	M131	X	-25	-25	0	%100
118	M131	Z	-433	-433	0	%100
119	M132	X	-25	-25	0	%100
120	M132	Z	-433	-433	0	%100
121	M133	X	0	0	0	%100
122	M133	Z	0	0	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M169A	Y	-2.677	-5.32	0	.9
2	M169A	Y	-5.32	-8.959	.9	1.8
3	M169A	Y	-8.959	-8.016	1.8	2.7
4	M169A	Y	-8.016	-2.501	2.7	3.6
5	M169A	Y	-2.501	-.143	3.6	4.5
6	M169B	Y	-.132	-1.779	0	.503
7	M169B	Y	-1.779	-3.911	.503	1.006
8	M169B	Y	-3.911	-4.445	1.006	1.509
9	M169B	Y	-4.445	-3.171	1.509	2.012
10	M169B	Y	-3.171	-.529	2.012	2.515
11	M170B	Y	-.809	-4.017	0	.503
12	M170B	Y	-4.017	-5.281	.503	1.006
13	M170B	Y	-5.281	-3.789	1.006	1.509
14	M170B	Y	-3.789	-1.399	1.509	2.012

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
15	M170B	Y	-1.399	-.16	2.012	2.515
16	M171B	Y	-.294	-.294	0	.167
17	M172A	Y	-.295	-.295	0	.167
18	M105	Y	-.042	-.984	7.449	8.691
19	M105	Y	-.984	-1.671	8.691	9.932
20	M105	Y	-1.671	-1.165	9.932	11.174
21	M106A	Y	-1.074	-1.809	1.242	2.483
22	M106A	Y	-1.809	-1.119	2.483	3.725
23	M106A	Y	-1.119	-.061	3.725	4.966
24	M102	Y	-.612	-1.809	0	.227
25	M103	Y	-.612	-1.809	0	.227
26	M20	Y	-1.074	-1.809	1.242	2.483
27	M20	Y	-1.809	-1.119	2.483	3.725
28	M20	Y	-1.119	-.061	3.725	4.966
29	M173A	Y	-.132	-1.779	0	.503
30	M173A	Y	-1.779	-3.911	.503	1.006
31	M173A	Y	-3.911	-4.445	1.006	1.509
32	M173A	Y	-4.445	-3.171	1.509	2.012
33	M173A	Y	-3.171	-.529	2.012	2.515
34	M174A	Y	-.809	-4.017	0	.503
35	M174A	Y	-4.017	-5.281	.503	1.006
36	M174A	Y	-5.281	-3.789	1.006	1.509
37	M174A	Y	-3.789	-1.399	1.509	2.012
38	M174A	Y	-1.399	-.16	2.012	2.515
39	M175A	Y	-.294	-.294	0	.167
40	M176A	Y	-.295	-.295	0	.167
41	M106A	Y	-.042	-.984	7.449	8.691
42	M106A	Y	-.984	-1.671	8.691	9.932
43	M106A	Y	-1.671	-1.165	9.932	11.174
44	M105A	Y	-2.677	-5.32	0	.9
45	M105A	Y	-5.32	-8.959	.9	1.8
46	M105A	Y	-8.959	-8.016	1.8	2.7
47	M105A	Y	-8.016	-2.501	2.7	3.6
48	M105A	Y	-2.501	-.143	3.6	4.5
49	M96	Y	-1.21	-1.21	0	.227
50	M99A	Y	-1.21	-1.21	0	.227
51	M20	Y	-.042	-.984	7.449	8.691
52	M20	Y	-.984	-1.671	8.691	9.932
53	M20	Y	-1.671	-1.165	9.932	11.174
54	M177A	Y	-.132	-1.779	0	.503
55	M177A	Y	-1.779	-3.911	.503	1.006
56	M177A	Y	-3.911	-4.445	1.006	1.509
57	M177A	Y	-4.445	-3.171	1.509	2.012
58	M177A	Y	-3.171	-.529	2.012	2.515
59	M178A	Y	-.809	-4.017	0	.503
60	M178A	Y	-4.017	-5.281	.503	1.006
61	M178A	Y	-5.281	-3.789	1.006	1.509
62	M178A	Y	-3.789	-1.399	1.509	2.012
63	M178A	Y	-1.399	-.16	2.012	2.515
64	M179A	Y	-.294	-.294	0	.167
65	M180A	Y	-.295	-.295	0	.167
66	M105	Y	-1.074	-1.809	1.242	2.483
67	M105	Y	-1.809	-1.119	2.483	3.725
68	M105	Y	-1.119	-.061	3.725	4.966
69	M106B	Y	-2.677	-5.32	0	.9
70	M106B	Y	-5.32	-8.959	.9	1.8
71	M106B	Y	-8.959	-8.016	1.8	2.7
72	M106B	Y	-8.016	-2.501	2.7	3.6
73	M106B	Y	-2.501	-.143	3.6	4.5



Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
74	M104	Y	-1.21	-1.21	0	.227
75	M107	Y	-1.21	-1.21	0	.227

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M20	Y	-2.21	-3.722	1.242	2.483
2	M20	Y	-3.722	-2.302	2.483	3.725
3	M20	Y	-2.302	-.126	3.725	4.966
4	M173A	Y	-.272	-3.66	0	.503
5	M173A	Y	-3.66	-8.048	.503	1.006
6	M173A	Y	-8.048	-9.146	1.006	1.509
7	M173A	Y	-9.146	-6.525	1.509	2.012
8	M173A	Y	-6.525	-1.089	2.012	2.515
9	M174A	Y	-1.665	-8.266	0	.503
10	M174A	Y	-8.266	-10.867	.503	1.006
11	M174A	Y	-10.867	-7.797	1.006	1.509
12	M174A	Y	-7.797	-2.879	1.509	2.012
13	M174A	Y	-2.879	-.33	2.012	2.515
14	M175A	Y	-.606	-.606	0	.167
15	M176A	Y	-.607	-.607	0	.167
16	M106A	Y	-.087	-2.024	7.449	8.691
17	M106A	Y	-2.024	-3.439	8.691	9.932
18	M106A	Y	-3.439	-2.397	9.932	11.174
19	M105A	Y	-5.508	-10.946	0	.9
20	M105A	Y	-10.946	-18.435	.9	1.8
21	M105A	Y	-18.435	-16.495	1.8	2.7
22	M105A	Y	-16.495	-5.147	2.7	3.6
23	M105A	Y	-5.147	-.293	3.6	4.5
24	M96	Y	-2.491	-2.491	0	.227
25	M99A	Y	-2.491	-2.491	0	.227
26	M169A	Y	-5.508	-10.946	0	.9
27	M169A	Y	-10.946	-18.435	.9	1.8
28	M169A	Y	-18.435	-16.495	1.8	2.7
29	M169A	Y	-16.495	-5.147	2.7	3.6
30	M169A	Y	-5.147	-.293	3.6	4.5
31	M169B	Y	-.33	-2.879	0	.503
32	M169B	Y	-2.879	-7.797	.503	1.006
33	M169B	Y	-7.797	-10.867	1.006	1.509
34	M169B	Y	-10.867	-8.267	1.509	2.012
35	M169B	Y	-8.267	-1.666	2.012	2.515
36	M170B	Y	-1.088	-6.525	0	.503
37	M170B	Y	-6.525	-9.146	.503	1.006
38	M170B	Y	-9.146	-8.048	1.006	1.509
39	M170B	Y	-8.048	-3.66	1.509	2.012
40	M170B	Y	-3.66	-.272	2.012	2.515
41	M171B	Y	-.607	-.607	0	.167
42	M172A	Y	-.606	-.606	0	.167
43	M105	Y	-.126	-2.302	7.449	8.691
44	M105	Y	-2.302	-3.722	8.691	9.932
45	M105	Y	-3.722	-2.21	9.932	11.174
46	M106A	Y	-2.397	-3.439	1.242	2.483
47	M106A	Y	-3.439	-2.024	2.483	3.725
48	M106A	Y	-2.024	-.087	3.725	4.966
49	M102	Y	-1.542	-3.439	0	.227
50	M103	Y	-1.542	-3.439	0	.227
51	M20	Y	-.126	-2.302	7.449	8.691
52	M20	Y	-2.302	-3.722	8.691	9.932
53	M20	Y	-3.722	-2.21	9.932	11.174

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
54	M177A	Y	-.33	-2.879	0	.503
55	M177A	Y	-2.879	-7.797	.503	1.006
56	M177A	Y	-7.797	-10.867	1.006	1.509
57	M177A	Y	-10.867	-8.267	1.509	2.012
58	M177A	Y	-8.267	-1.666	2.012	2.515
59	M178A	Y	-1.088	-6.525	0	.503
60	M178A	Y	-6.525	-9.146	.503	1.006
61	M178A	Y	-9.146	-8.048	1.006	1.509
62	M178A	Y	-8.048	-3.66	1.509	2.012
63	M178A	Y	-3.66	-.272	2.012	2.515
64	M179A	Y	-.607	-.607	0	.167
65	M180A	Y	-.606	-.606	0	.167
66	M105	Y	-2.397	-3.439	1.242	2.483
67	M105	Y	-3.439	-2.024	2.483	3.725
68	M105	Y	-2.024	-.087	3.725	4.966
69	M106B	Y	-5.508	-10.946	0	.9
70	M106B	Y	-10.946	-18.435	.9	1.8
71	M106B	Y	-18.435	-16.495	1.8	2.7
72	M106B	Y	-16.495	-5.147	2.7	3.6
73	M106B	Y	-5.147	-.293	3.6	4.5
74	M104	Y	-2.491	-2.491	0	.227
75	M107	Y	-2.491	-2.491	0	.227

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M169A	Y	-.067	-.133	0	.9
2	M169A	Y	-.133	-.224	.9	1.8
3	M169A	Y	-.224	-.2	1.8	2.7
4	M169A	Y	-.2	-.063	2.7	3.6
5	M169A	Y	-.063	-.004	3.6	4.5
6	M169B	Y	-.003	-.044	0	.503
7	M169B	Y	-.044	-.098	.503	1.006
8	M169B	Y	-.098	-.111	1.006	1.509
9	M169B	Y	-.111	-.079	1.509	2.012
10	M169B	Y	-.079	-.013	2.012	2.515
11	M170B	Y	-.02	-.1	0	.503
12	M170B	Y	-.1	-.132	.503	1.006
13	M170B	Y	-.132	-.095	1.006	1.509
14	M170B	Y	-.095	-.035	1.509	2.012
15	M170B	Y	-.035	-.004	2.012	2.515
16	M171B	Y	-.007	-.007	0	.167
17	M172A	Y	-.007	-.007	0	.167
18	M105	Y	-.001	-.025	7.449	8.691
19	M105	Y	-.025	-.042	8.691	9.932
20	M105	Y	-.042	-.029	9.932	11.174
21	M106A	Y	-.027	-.045	1.242	2.483
22	M106A	Y	-.045	-.028	2.483	3.725
23	M106A	Y	-.028	-.002	3.725	4.966
24	M102	Y	-.015	-.045	0	.227
25	M103	Y	-.015	-.045	0	.227
26	M20	Y	-.027	-.045	1.242	2.483
27	M20	Y	-.045	-.028	2.483	3.725
28	M20	Y	-.028	-.002	3.725	4.966
29	M173A	Y	-.003	-.044	0	.503
30	M173A	Y	-.044	-.098	.503	1.006
31	M173A	Y	-.098	-.111	1.006	1.509
32	M173A	Y	-.111	-.079	1.509	2.012
33	M173A	Y	-.079	-.013	2.012	2.515



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
34	M174A	Y	-.02	-.1	0	.503
35	M174A	Y	-.1	-.132	.503	1.006
36	M174A	Y	-.132	-.095	1.006	1.509
37	M174A	Y	-.095	-.035	1.509	2.012
38	M174A	Y	-.035	-.004	2.012	2.515
39	M175A	Y	-.007	-.007	0	.167
40	M176A	Y	-.007	-.007	0	.167
41	M106A	Y	-.001	-.025	7.449	8.691
42	M106A	Y	-.025	-.042	8.691	9.932
43	M106A	Y	-.042	-.029	9.932	11.174
44	M105A	Y	-.067	-.133	0	.9
45	M105A	Y	-.133	-.224	.9	1.8
46	M105A	Y	-.224	-.2	1.8	2.7
47	M105A	Y	-.2	-.063	2.7	3.6
48	M105A	Y	-.063	-.004	3.6	4.5
49	M96	Y	-.03	-.03	0	.227
50	M99A	Y	-.03	-.03	0	.227
51	M20	Y	-.001	-.025	7.449	8.691
52	M20	Y	-.025	-.042	8.691	9.932
53	M20	Y	-.042	-.029	9.932	11.174
54	M177A	Y	-.003	-.044	0	.503
55	M177A	Y	-.044	-.098	.503	1.006
56	M177A	Y	-.098	-.111	1.006	1.509
57	M177A	Y	-.111	-.079	1.509	2.012
58	M177A	Y	-.079	-.013	2.012	2.515
59	M178A	Y	-.02	-.1	0	.503
60	M178A	Y	-.1	-.132	.503	1.006
61	M178A	Y	-.132	-.095	1.006	1.509
62	M178A	Y	-.095	-.035	1.509	2.012
63	M178A	Y	-.035	-.004	2.012	2.515
64	M179A	Y	-.007	-.007	0	.167
65	M180A	Y	-.007	-.007	0	.167
66	M105	Y	-.027	-.045	1.242	2.483
67	M105	Y	-.045	-.028	2.483	3.725
68	M105	Y	-.028	-.002	3.725	4.966
69	M106B	Y	-.067	-.133	0	.9
70	M106B	Y	-.133	-.224	.9	1.8
71	M106B	Y	-.224	-.2	1.8	2.7
72	M106B	Y	-.2	-.063	2.7	3.6
73	M106B	Y	-.063	-.004	3.6	4.5
74	M104	Y	-.03	-.03	0	.227
75	M107	Y	-.03	-.03	0	.227

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M169A	Z	-.167	-.331	0	.9
2	M169A	Z	-.331	-.558	.9	1.8
3	M169A	Z	-.558	-.499	1.8	2.7
4	M169A	Z	-.499	-.156	2.7	3.6
5	M169A	Z	-.156	-.009	3.6	4.5
6	M169B	Z	-.008	-.111	0	.503
7	M169B	Z	-.111	-.244	.503	1.006
8	M169B	Z	-.244	-.277	1.006	1.509
9	M169B	Z	-.277	-.198	1.509	2.012
10	M169B	Z	-.198	-.033	2.012	2.515
11	M170B	Z	-.05	-.25	0	.503
12	M170B	Z	-.25	-.329	.503	1.006
13	M170B	Z	-.329	-.236	1.006	1.509



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
14	M170B	Z	-.236	-.087	1.509	2.012
15	M170B	Z	-.087	-.01	2.012	2.515
16	M171B	Z	-.018	-.018	0	.167
17	M172A	Z	-.018	-.018	0	.167
18	M105	Z	-.003	-.061	7.449	8.691
19	M105	Z	-.061	-.104	8.691	9.932
20	M105	Z	-.104	-.073	9.932	11.174
21	M106A	Z	-.067	-.113	1.242	2.483
22	M106A	Z	-.113	-.07	2.483	3.725
23	M106A	Z	-.07	-.004	3.725	4.966
24	M102	Z	-.038	-.113	0	.227
25	M103	Z	-.038	-.113	0	.227
26	M20	Z	-.067	-.113	1.242	2.483
27	M20	Z	-.113	-.07	2.483	3.725
28	M20	Z	-.07	-.004	3.725	4.966
29	M173A	Z	-.008	-.111	0	.503
30	M173A	Z	-.111	-.244	.503	1.006
31	M173A	Z	-.244	-.277	1.006	1.509
32	M173A	Z	-.277	-.198	1.509	2.012
33	M173A	Z	-.198	-.033	2.012	2.515
34	M174A	Z	-.05	-.25	0	.503
35	M174A	Z	-.25	-.329	.503	1.006
36	M174A	Z	-.329	-.236	1.006	1.509
37	M174A	Z	-.236	-.087	1.509	2.012
38	M174A	Z	-.087	-.01	2.012	2.515
39	M175A	Z	-.018	-.018	0	.167
40	M176A	Z	-.018	-.018	0	.167
41	M106A	Z	-.003	-.061	7.449	8.691
42	M106A	Z	-.061	-.104	8.691	9.932
43	M106A	Z	-.104	-.073	9.932	11.174
44	M105A	Z	-.167	-.331	0	.9
45	M105A	Z	-.331	-.558	.9	1.8
46	M105A	Z	-.558	-.499	1.8	2.7
47	M105A	Z	-.499	-.156	2.7	3.6
48	M105A	Z	-.156	-.009	3.6	4.5
49	M96	Z	-.075	-.075	0	.227
50	M99A	Z	-.075	-.075	0	.227
51	M20	Z	-.003	-.061	7.449	8.691
52	M20	Z	-.061	-.104	8.691	9.932
53	M20	Z	-.104	-.073	9.932	11.174
54	M177A	Z	-.008	-.111	0	.503
55	M177A	Z	-.111	-.244	.503	1.006
56	M177A	Z	-.244	-.277	1.006	1.509
57	M177A	Z	-.277	-.198	1.509	2.012
58	M177A	Z	-.198	-.033	2.012	2.515
59	M178A	Z	-.05	-.25	0	.503
60	M178A	Z	-.25	-.329	.503	1.006
61	M178A	Z	-.329	-.236	1.006	1.509
62	M178A	Z	-.236	-.087	1.509	2.012
63	M178A	Z	-.087	-.01	2.012	2.515
64	M179A	Z	-.018	-.018	0	.167
65	M180A	Z	-.018	-.018	0	.167
66	M105	Z	-.067	-.113	1.242	2.483
67	M105	Z	-.113	-.07	2.483	3.725
68	M105	Z	-.07	-.004	3.725	4.966
69	M106B	Z	-.167	-.331	0	.9
70	M106B	Z	-.331	-.558	.9	1.8
71	M106B	Z	-.558	-.499	1.8	2.7
72	M106B	Z	-.499	-.156	2.7	3.6



Company :
 Designer :
 Job Number :
 Model Name :

July 20, 2023
 1:06 PM
 Checked By: _____

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
73	M106B	Z	-.156	-.009	3.6	4.5
74	M104	Z	-.075	-.075	0	.227
75	M107	Z	-.075	-.075	0	.227

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M169A	X	.167	.331	0	.9
2	M169A	X	.331	.558	.9	1.8
3	M169A	X	.558	.499	1.8	2.7
4	M169A	X	.499	.156	2.7	3.6
5	M169A	X	.156	.009	3.6	4.5
6	M169B	X	.008	.111	0	.503
7	M169B	X	.111	.244	.503	1.006
8	M169B	X	.244	.277	1.006	1.509
9	M169B	X	.277	.198	1.509	2.012
10	M169B	X	.198	.033	2.012	2.515
11	M170B	X	.05	.25	0	.503
12	M170B	X	.25	.329	.503	1.006
13	M170B	X	.329	.236	1.006	1.509
14	M170B	X	.236	.087	1.509	2.012
15	M170B	X	.087	.01	2.012	2.515
16	M171B	X	.018	.018	0	.167
17	M172A	X	.018	.018	0	.167
18	M105	X	.003	.061	7.449	8.691
19	M105	X	.061	.104	8.691	9.932
20	M105	X	.104	.073	9.932	11.174
21	M106A	X	.067	.113	1.242	2.483
22	M106A	X	.113	.07	2.483	3.725
23	M106A	X	.07	.004	3.725	4.966
24	M102	X	.038	.113	0	.227
25	M103	X	.038	.113	0	.227
26	M20	X	.067	.113	1.242	2.483
27	M20	X	.113	.07	2.483	3.725
28	M20	X	.07	.004	3.725	4.966
29	M173A	X	.008	.111	0	.503
30	M173A	X	.111	.244	.503	1.006
31	M173A	X	.244	.277	1.006	1.509
32	M173A	X	.277	.198	1.509	2.012
33	M173A	X	.198	.033	2.012	2.515
34	M174A	X	.05	.25	0	.503
35	M174A	X	.25	.329	.503	1.006
36	M174A	X	.329	.236	1.006	1.509
37	M174A	X	.236	.087	1.509	2.012
38	M174A	X	.087	.01	2.012	2.515
39	M175A	X	.018	.018	0	.167
40	M176A	X	.018	.018	0	.167
41	M106A	X	.003	.061	7.449	8.691
42	M106A	X	.061	.104	8.691	9.932
43	M106A	X	.104	.073	9.932	11.174
44	M105A	X	.167	.331	0	.9
45	M105A	X	.331	.558	.9	1.8
46	M105A	X	.558	.499	1.8	2.7
47	M105A	X	.499	.156	2.7	3.6
48	M105A	X	.156	.009	3.6	4.5
49	M96	X	.075	.075	0	.227
50	M99A	X	.075	.075	0	.227
51	M20	X	.003	.061	7.449	8.691
52	M20	X	.061	.104	8.691	9.932

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
53	M20	X	.104	.073	9.932	11.174
54	M177A	X	.008	.111	0	.503
55	M177A	X	.111	.244	.503	1.006
56	M177A	X	.244	.277	1.006	1.509
57	M177A	X	.277	.198	1.509	2.012
58	M177A	X	.198	.033	2.012	2.515
59	M178A	X	.05	.25	0	.503
60	M178A	X	.25	.329	.503	1.006
61	M178A	X	.329	.236	1.006	1.509
62	M178A	X	.236	.087	1.509	2.012
63	M178A	X	.087	.01	2.012	2.515
64	M179A	X	.018	.018	0	.167
65	M180A	X	.018	.018	0	.167
66	M105	X	.067	.113	1.242	2.483
67	M105	X	.113	.07	2.483	3.725
68	M105	X	.07	.004	3.725	4.966
69	M106B	X	.167	.331	0	.9
70	M106B	X	.331	.558	.9	1.8
71	M106B	X	.558	.499	1.8	2.7
72	M106B	X	.499	.156	2.7	3.6
73	M106B	X	.156	.009	3.6	4.5
74	M104	X	.075	.075	0	.227
75	M107	X	.075	.075	0	.227

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N154	N273	N277	N153	Y	Two Way	-.005
2	N141A	N143A	N144A	N139A	Y	Two Way	-.005
3	N151B	N153B	N154A	N149B	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N141A	N143A	N144A	N139A	Y	Two Way	-.011
2	N273	N154	N153	N277	Y	Two Way	-.011
3	N149B	N154A	N153B	N151B	Y	Two Way	-.011

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N154	N273	N277	N153	Y	Two Way	-.00013
2	N141A	N143A	N144A	N139A	Y	Two Way	-.00013
3	N151B	N153B	N154A	N149B	Y	Two Way	-.00013

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N154	N273	N277	N153	Z	Two Way	-.000324
2	N141A	N143A	N144A	N139A	Z	Two Way	-.000324
3	N151B	N153B	N154A	N149B	Z	Two Way	-.000324

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N154	N273	N277	N153	X	Two Way	.000324
2	N141A	N143A	N144A	N139A	X	Two Way	.000324
3	N151B	N153B	N154A	N149B	X	Two Way	.000324



Company Designer
Job Number
Model Name

July 20, 2023
1:06 PM
Checked By: _____

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	N259A	max	1139.072	10	3462.484	13	2920.919	1	8.639	1	1.782	4	.453	2
2		min	-1190.191	4	-286.09	7	-3330.786	7	-3.001	7	-1.759	10	-.312	8
3	N161B	max	2048.364	9	2386.703	9	1550.525	2	1.475	3	.515	12	2.58	3
4		min	-2332.111	3	-556.58	3	-1357.531	8	-3.242	9	-.516	6	-5.262	9
5	N164A	max	2723.582	11	2944.998	17	2110.454	12	1.387	12	1.238	8	6.094	5
6		min	-2388.401	5	-324.797	11	-1887.905	6	-3.483	6	-1.322	2	-2.297	11
7	Totals:	max	5203.932	10	7781.972	13	6113.578	1						
8		min	-5203.946	4	2502.866	71	-6113.563	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	M20	PIPE 3.0	.181	8.018	6	.171	8.665	7	28571.3...	65205	5.749	5.749	2	H1-1b
2	M64	PL3/8x6	.319	0	12	.302	0	5	71260.7...	72900	.57	9.113	1	H1-1b
3	M65	PL3/8x6	.153	0	12	.114	0	20	71601.7...	72900	.57	9.113	1	H1-1b
4	M71	PL3/8x6	.107	.125	8	.272	0	12	72166.8...	72900	.57	9.113	1	H1-1b
5	M138C	PL3/8x6	.135	.125	6	.272	.125	8	72166.8...	72900	.57	9.113	1	H1-1b
6	M140C	PL3/8x6	.107	.125	5	.310	.125	1	72166.8...	72900	.57	9.113	1	H1-1b
7	M142C	PL3/8x6	.119	.125	2	.296	.125	5	72166.8...	72900	.57	9.113	1	H1-1b
8	M144C	PL3/8x6	.083	.125	3	.288	0	3	72166.8...	72900	.57	9.113	2	H1-1b
9	M146C	PL3/8x6	.117	.125	10	.321	.125	1	72166.8...	72900	.57	9.113	1	H1-1b
10	M163A	PL3/8x6	.142	.531	2	.165	1.061	12	35190.8...	72900	.57	9.113	1	H1-1b
11	M164A	PL3/8x6	.172	.531	1	.179	.531	2	35190.8...	72900	.57	9.113	1	H1-1b
12	M165A	PL3/8x6	.158	.531	12	.166	.531	3	35190.8...	72900	.57	9.113	1	H1-1b
13	M169A	HSS4X4X3	.717	5.625	1	.141	5.625	13	94041.5...	106812	12.662	12.662	2	H1-1b
14	M154A	PL3/8x6	.435	0	2	.368	0	9	71260.7...	72900	.57	9.113	1	H1-1b
15	M155A	PL3/8x6	.210	0	2	.140	0	18	71601.7...	72900	.57	9.113	1	H1-1b
16	M157A	PL3/8x6	.440	0	7	.433	0	1	71260.7...	72900	.57	9.113	1	H1-1b
17	M158A	PL3/8x6	.174	0	1	.147	0	17	71601.7...	72900	.57	9.113	1	H1-1b
18	M160A	PL3/8x6	.399	0	10	.413	0	6	71260.7...	72900	.57	9.113	1	H1-1b
19	M161A	PL3/8x6	.211	0	4	.162	0	13	71601.7...	72900	.57	9.113	1	H1-1b
20	M163B	PL3/8x6	.307	0	1	.339	0	9	71260.7...	72900	.57	9.113	1	H1-1b
21	M164B	PL3/8x6	.131	.167	7	.136	0	13	71601.7...	72900	.57	9.113	1	H1-1b
22	M166A	PL3/8x6	.307	0	1	.350	0	13	71260.7...	72900	.57	9.113	1	H1-1b
23	M167A	PL3/8x6	.116	.167	2	.111	0	21	71601.7...	72900	.57	9.113	1	H1-1b
24	M169B	HSS4X4X3	.290	2.515	24	.071	.367	1	104127...	106812	12.662	12.662	1	H1-1b
25	M170B	HSS4X4X3	.337	0	14	.080	2.148	1	104127...	106812	12.662	12.662	2	H1-1b
26	M173A	HSS4X4X3	.274	2.515	8	.067	.367	9	104127...	106812	12.662	12.662	1	H1-1b
27	M174A	HSS4X4X3	.244	0	9	.064	2.148	2	104127...	106812	12.662	12.662	1	H1-1b
28	M177A	HSS4X4X3	.305	2.515	16	.081	.367	6	104127...	106812	12.662	12.662	1	H1-1b
29	M178A	HSS4X4X3	.298	0	6	.075	2.148	5	104127...	106812	12.662	12.662	1	H1-1b
30	M183A	L2x2x3	.254	0	1	.010	4.13	z	9955.016	23392.8	.558	1.076	1	H2-1
31	M186A	L2x2x3	.211	4.087	2	.016	4.13	z	9955.016	23392.8	.558	1.176	1	H2-1
32	M105	PIPE 3.0	.193	8.018	1	.143	8.665	3	28571.3...	65205	5.749	5.749	3	H1-1b
33	M106A	PIPE 3.0	.302	3.104	12	.312	3.104	12	28571.3...	65205	5.749	5.749	1	H3-6
34	M105A	HSS4X4X3	.511	5.625	9	.114	5.625	y	94041.5...	106812	12.662	12.662	2	H1-1b
35	M106B	HSS4X4X3	.618	5.625	5	.108	5.625	y	94041.5...	106812	12.662	12.662	2	H1-1b
36	M93A	L2x2x3	.174	0	9	.012	4.13	z	9955.016	23392.8	.558	1.076	1	H2-1
37	M95A	L2x2x3	.175	4.13	9	.015	0	y	9955.016	23392.8	.558	1.164	1	H2-1
38	M101A	L2x2x3	.226	0	6	.014	4.13	z	9955.016	23392.8	.558	1.076	1	H2-1
39	M103A	L2x2x3	.201	3.441	6	.015	0	y	9955.016	23392.8	.558	1.169	1	H2-1
40	MP5A	PIPE 2.0	.530	1.5	7	.319	1.5	7	20866.7...	32130	1.872	1.872	2	H3-6
41	MP4A	PIPE 2.0	.478	4.125	5	.153	2.438	7	20866.7...	32130	1.872	1.872	2	H1-1b
42	MP2A	PIPE 2.5	.369	4.125	9	.176	4.125	6	37773.8...	50715	3.596	3.596	2	H1-1b
43	MP1A	PIPE 2.0	.581	1.5	7	.342	3	7	20866.7...	32130	1.872	1.872	2	H3-6
44	MP3A	PIPE 2.0	.416	4.667	4	.102	4.667	4	17855.0...	32130	1.872	1.872	3	H1-1b
45	MP5C	PIPE 2.0	.541	1.5	2	.287	1.5	3	20866.7...	32130	1.872	1.872	2	H3-6

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

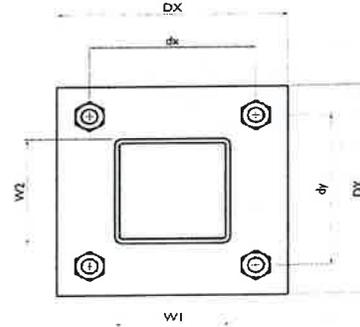
Yes

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
6
6
A325N
0.625
9.6
1.0
20.7
12.4
46.6%

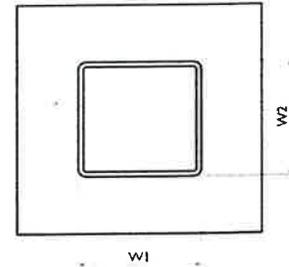


Tower Connection Baseplate Checks

Yes

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

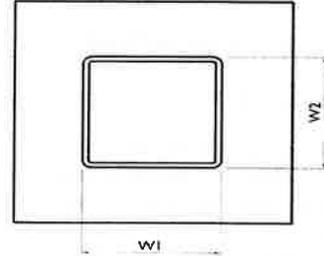
Rect Tube
No Stiffeners
8
8
4
4
0.1875
36
0.625
5.80
1.59
15.32
18.36
83.5%



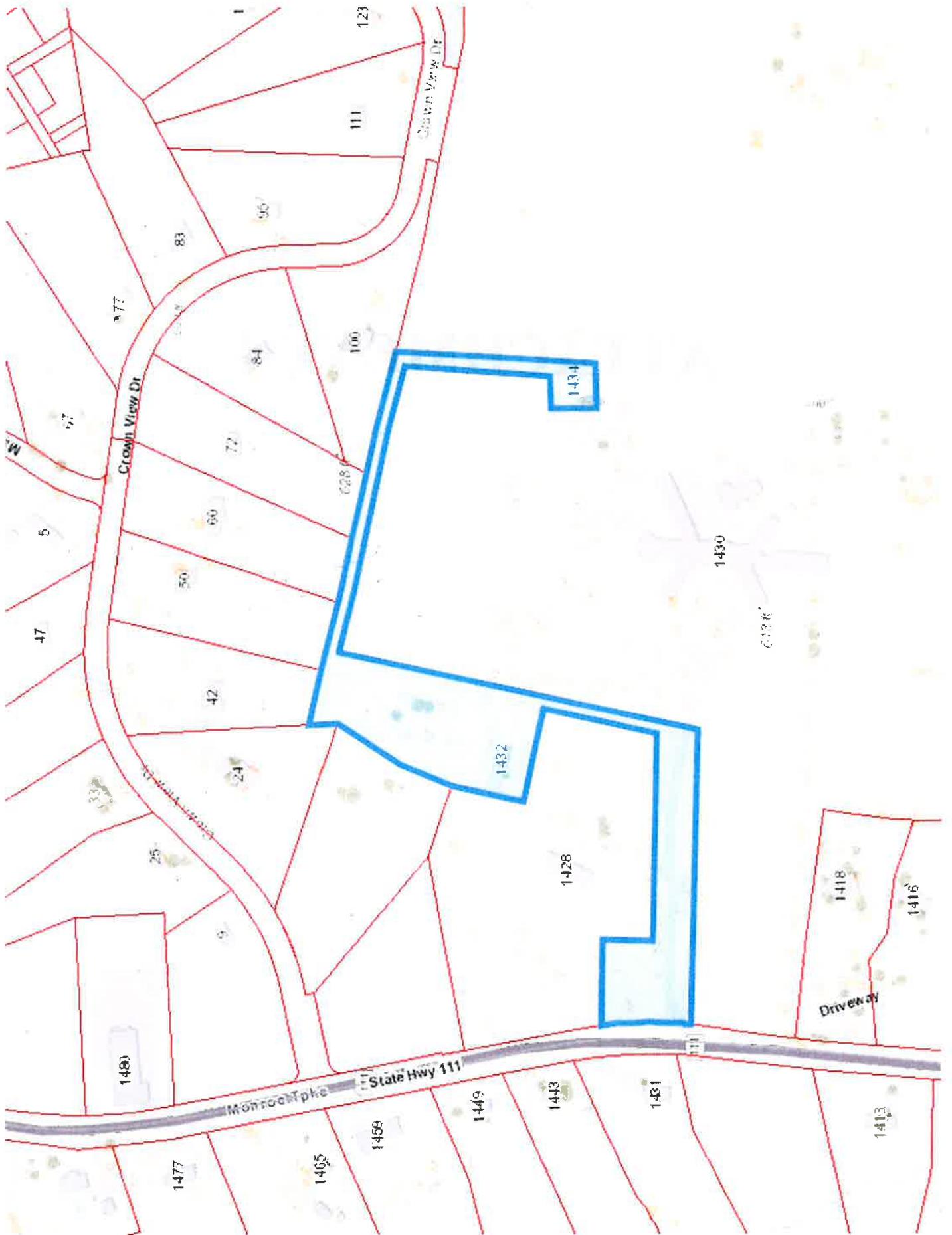
Tower Connection Weld Checks

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 (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in)
 c_y (in)
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.1875
2.1875
3.48
5.57
62.4%



ATTACHMENT 4



1432 MONROE TPKE

Location 1432 MONROE TPKE

Map/Lot 145/ 024/ 02/ /

Acct# 14502402

Owner CARDENTRY JEANETTE

Assessment \$241,200

Appraisal \$344,500

PID 17059

Building Count 1

Survey 3276, 3171

Affordable

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$199,800	\$144,700	\$344,500

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$139,900	\$101,300	\$241,200

Owner of Record

Owner CARDENTRY JEANETTE
Co-Owner
Address 1432 MONROE TPKE
 MONROE, CT 06468

Sale Price \$405,000
Certificate
Book & Page 2135/0093
Sale Date 02/02/2021
Instrument 0

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
CARDENTRY JEANETTE	\$405,000		2135/0093	0	02/02/2021
KIMBALL JILL M	\$0		1904/0251		12/26/2015
STONE CASTLE INVESTMENTS LLC	\$0		1789/0323	06	07/13/2012

Building Information

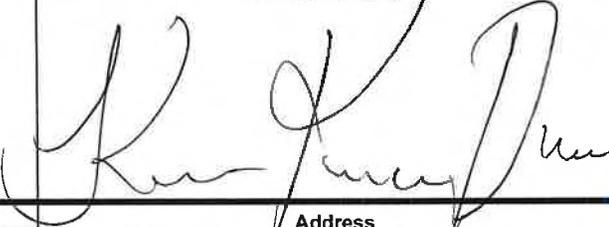
Building 1 : Section 1

Year Built: 1936

ATTACHMENT 5



Certificate of Mailing — Firm

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 <p style="text-align: center; font-size: 2em;">3</p>	TOTAL NO. of Pieces Received at Post Office™ <p style="text-align: center; font-size: 2em;">3</p>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right;"> <p>neopost[®] 08/29/2023 US POSTAGE \$003.19⁰⁰</p>  <p>ZIP 06103 041L12203937</p> </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.	Kenneth M. Kellogg, First Selectman					
	Town of Monroe					
	7 Fan Hill Road					
	Monroe, CT 06468					
2.	Rick Schultz, Town Planner					
	Town of Monroe					
	7 Fan Hill Road					
	Monroe, CT 06468					
3.	Jeanette Cardentry					
	1432 Monroe Turnpike					
	Monroe, CT 06468					
4.						
5.						
6.						