

November 6, 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
56 (a/k/a 54) Floydville Road), East Granby, 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 Town of East Granby (“Town”) in June of 2001. Cellco’s use of the tower was approved by the Siting Council (“Council”) in August of 2002 (EM-VER-040-020717). A copy of the Town’s tower approval and the Council’s EM-VER-040-020717 approval are included in Attachment 1.

Cellco’s proposed modification involves the installation of two (2) interference mitigation filters (“Filters”) on its existing antenna platform and antenna 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 East Granby’s Chief Elected Official and Land Use Officer. A copy of this letter is also being sent to the Property owner.

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 modification 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 antenna mounting assembly.

28158126-v1

Melanie A. Bachman, Esq.

November 6, 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 the new Filters will not result in a change to radio frequency (RF) emissions from the facility. Therefore, no new RF emissions information is included in this filing.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis Report (“SA”) and Antenna Mount Analysis Report (“MA”), the existing tower, 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:

Eden Wimpfheimer, First Selectwoman
Robin Newton, Director of Planning and Economic Development
D.I. Paine and Sons, Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1



TOWN
PLANNING

9
EAST
7099 3400 0008 8633 1724

CERTIFIED MAIL RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
Article Sent To: <u>SBA Inc</u>	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Name (Please Print Clearly) (to be completed by mailer)	
Street, Apt. No.; or PO Box No.	
City, State, ZIP+4	
PS Form 3800, July 1999	
See Reverse for Instructions	

June 6, 2001

SBA Properties, Inc.
C/o Thomas F. Flynn III
80 Eastern Boulevard
Glastonbury, CT 06033

CERTIFIED MAIL

Dear Sir,


At its meeting on June 5, 2001, the East Granby Planning & Zoning Commission voted to approve your Application #01-03 for a communication tower on the Paine property (ref. Sheets T-1, S-1, Z-1, Z-2, and Z-5 all dated revised 1/26/01 and Sheets 2, 3 and Z-4 all dated 11/01/00) subject to the following conditions:

1. The tower height shall be 120 feet maximum. (Data provided did not show the 130 feet tower was necessary.)
2. The two Paine properties shall be legally combined and evidence of such shall be provided to the Commission. The necessary revisions shall be made to the plans (Resolve yard requirements and confusion as noted in the Town Engineer's letter dated 3/06/01 item 2.3.)
3. A letter of approval be provided from the FAA that the proposed tower meets their requirements (ref. section IX, G3d of the Zoning Regulations).
4. A \$70,000 bond shall be posted prior to construction to be used to remove the tower if abandoned per section IX, G7 of the Zoning Regulations.
5. A written statement from the applicant/First Selectman indicating what agreement for Town use was reached (ref. section IX, G3e).

6. The entrance driveway shall remain as shown for approximately 160 feet where it reaches the 190-foot elevation. It shall turn towards the right and follow the 190-foot contour line to the site. A 10-foot side yard dimension shall also be added.
7. Add a note that all utilities must be underground and remove all references to new overhead utilities (ref. 4/04/01 minutes of the Inland/Wetlands Commission and the PZC public hearing).
8. Add a note that this approval is for one carrier, Verizon at the 120-foot height level. All additional levels and carriers need further approval.
9. A written statement by a competent professional describing the impact on public health and safety associated with the proposed activity with particular emphasis on radio emissions (signal frequency, intensity and power density) and structural integrity shall be provided to the Commission. (Note: Information provided at the public hearing was not signed by anyone.)
10. Landscaping shall be added to the west and south side of the facility per the PZC's approval.
11. As noted above, the conditions require numerous revisions to the detailed plans on almost every page. This includes the property size which is a total of 17.3 acres for the two lots that will become one.

Please submit a mylar and four copies of the revised plans for the Commission's signature.

Sincerely,



Frederick O'Brien
Chairman

Cc: Town Clerk
Building Official
Town Engineer
Assessor

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Received by (Please Print Clearly)	B. Date of Delivery 6-7-06
1. Article Addressed to: SBA c/o T. Flynn 50 Eastern Boulevard Glastonbury, CT 06033	C. Signature X <i>T. Flynn</i> <div style="float: right;"> <input type="checkbox"/> Agent <input type="checkbox"/> Address </div> D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Copy from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
PS Form 3811, July 1999	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes 7099 3400 00886331724 Domestic Return Receipt	



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

August 8, 2002

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

RE: **EM-VER-040-020717** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 56 Floydville Road, East Granby, Connecticut.

Dear Attorney Baldwin:


At a public meeting held on August 1, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 17, 2002. 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 an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,



Mortimer A. Gelston
Chairman

MAG/DM/laf

c: Honorable David K. Kilbon, First Selectman, Town of East Granby
Richard A. Nelson, Zoning Enforcement Officer, Town of East Granby
Sheila R. Becker, SBA, Inc.
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP

ATTACHMENT 2

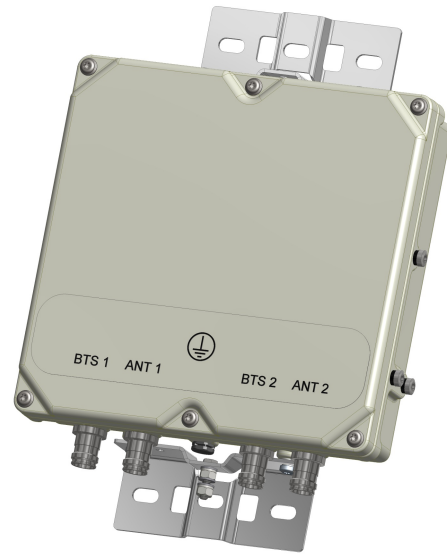
KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

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



TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	

ELECTRICAL	
Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG	
Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-20°C to +60°C -4°F to +140°F
Ingress protection	IP67
Altitude	2600m 8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE

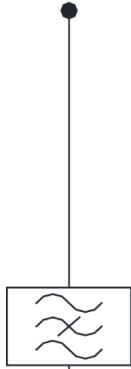
MECHANICAL	
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter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

ORDERING INFORMATION

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

ELECTRICAL BLOCK DIAGRAM

ANT1



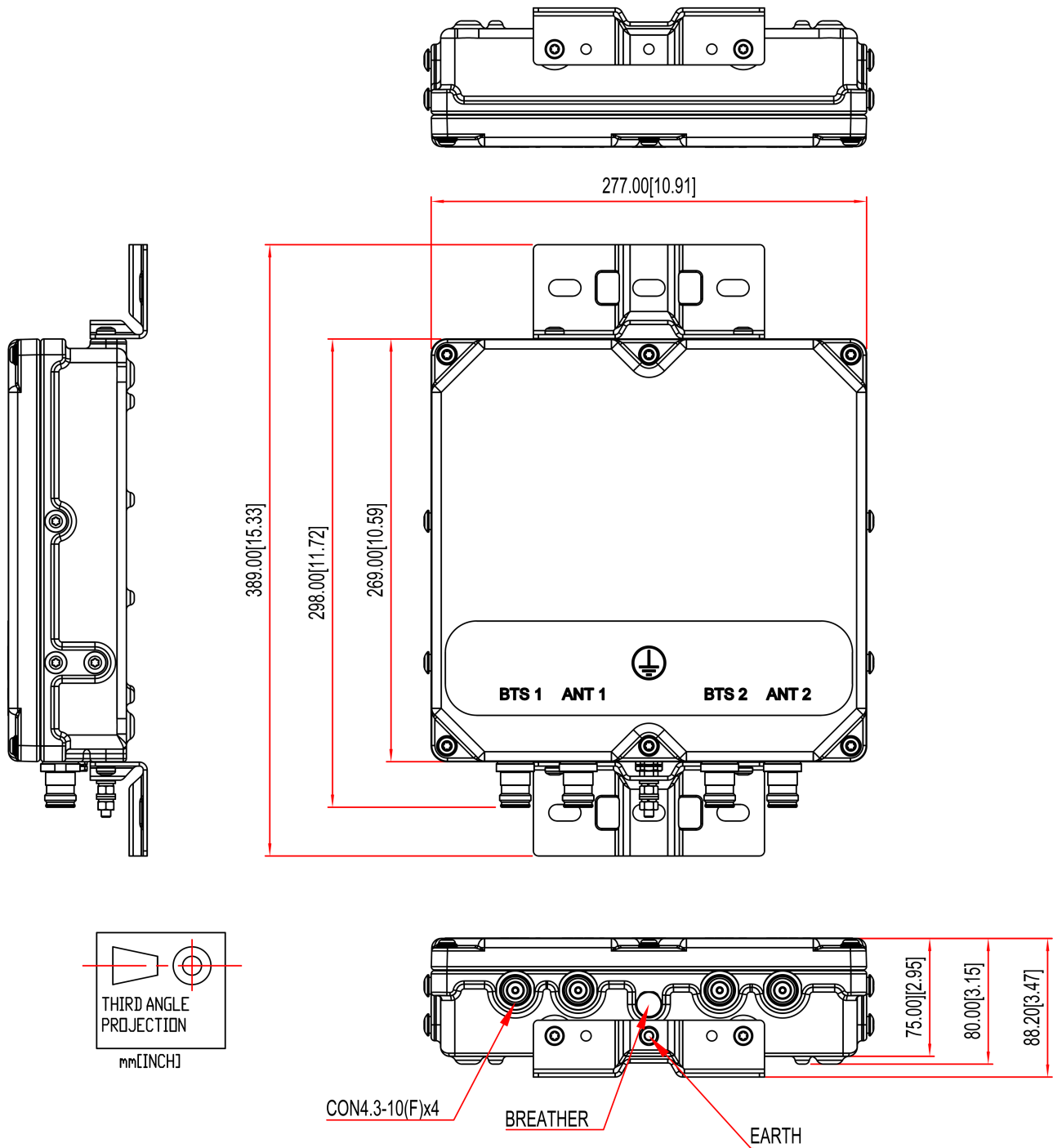
BTS1

ANT2



BTS2

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: 5000385252 / E Granby 2 CT
Application #: 235964, v1

SBA Site ID / Name: CT03801-S-1 / East Granby

120 ft Monopole

56 Floydville Road
East Granby, Connecticut, 06026.
Lat: 41.928649, Long: -72.776099

Project number: CT03801-VZW-083123

Analysis Results

Tower	69.4%	Pass
Foundation	51.0%	Pass

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

Prepared by:

Liliana Noda Vazquez
Structural Engineer I
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Reviewed by:

Anantha (Shan) Shanubhogue, P.E.
Senior Manager, Structural Engineering
561-984-7390
SShanubhogue@sbsite.com

September 6, 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 120 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	PiRod Engineering, File A-118, 413-1, dated June 14, 2001.
Foundation drawings	PiRod Engineering, File A-118, 413-1, dated June 14, 2001.
Geotechnical report	Jaworski Geotech, Inc., Project #00729G, dated May 11, 2001.
Mount Analysis	Maser Consulting Connecticut, Project # 21777107A (Rev.1), dated November 3, 2021
Mount Analysis Modification	Maser Consulting Connecticut, Job # 21777107A (Rev.1), dated November 4, 2021
Latest SA	TES Project Number: 127668, Dated April 19, 2022

Analysis Criteria

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut/Hartford/East Granby
Governing Codes	ANSI/TIA/EIA 222-H, 2021 IBC, 2022 CSBC.
Ultimate Wind Speed (3-Sec gust)	115.0 mph
Wind Speed with Ice (3-Sec gust)	50 mph
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	1.50"
Risk Category	II
Exposure Category	C
Topographic Category	1
Crest Height	0 ft
Ground Elevation	186.04 ft.
Seismic Parameter S_s	0.173
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	118.0	6	Commscope NHH-65B-R2B- Panel	Low Profile Platform, (3) Support Rail SP1: VZW Smart-PLK3, (1) MP Collar SP1: VZW SMART-PLK7,(3) Commscope BSAMNT-SBS-1-2	(2) 1 5/8" Hybrid (1) 1/2" (12) 1 5/8"	Verizon
2		3	Samsung MT6407-77A - Panel			
3		3	Samsung RF4439d-25A RRU			
4		3	Samsung RF4440d-13A RRU			
5		1	Raycap RVZDC-6627-PF-48			
6	117.0	3	Andrew HBXX-6517DS-A2M Panel			
7		1	Lucent KS24019-L112A GPS			
8	110.0	3	RFS APXVAALL24_43-U-NA20 - Panel	Low Profile Platform w/ (1) Metrosite Support Rail w/ End connection: MSHRCEP- 35 (1) Metrosite Light collar mount: MS-1436 (1) Metrosite Kicker Support: MS-K122-5 (1) Site Pro Support Rail Bracing Kit	(9) 1 5/8" (1) 1 5/8" Fiber (2) 1.9" Fiber	T-Mobile
9		3	Ericsson AIR6419 B41 - Panel			
10		3	Ericsson KRY 112 144/1 TMA			
11		6	Ericsson KRY 112 489/2 TMA			
12		3	Ericsson 4449 B71 + B85 RRU			
13		3	Ericsson 4460 B25 + B66 RRU			
14	97.0	3	Fujitsu TA08025-B605 RRU	(1) Commscope MC-PK8-DSH (Platform w/ handrails)	(1) 1.6" Hybrid	Dish Wireless
15		3	Fujitsu TA08025-B604 RRU			
16		1	Raycap RDIDC-9181-PF-48			
17		3	JMA Wireless - MX08FRO665-21 - Panel			
18	87.0	3	Powerwave 7770 - Panel	Low Profile Platform (1) SitePro1 PRK-1245L (reinforcement Kit) (1) SitePro1 HRK-12 (Handrail Kit)	(12) 1 5/8" (2) 1/2" Fiber (1) 2" Conduit (1) 3" Conduit (4) 3/4" DC	AT&T*
19		3	CCI HPA-65R-BU8AA - Panel			
20		3	Kathrein 800 10966 - Panel			
21		6	Powerwave TT19-08BP111-001 TMA			
22		6	Powerwave 21903 Diplexer			
23		3	Ericsson RRUS 8843 B2 B66A - RRU			
24		3	Ericsson RRUS 4449 B5 - RRU			
25		1	Raycap DC6-48-60-18-8F			
26		1	Raycap DC6-48-60-18-8C			

* (1) 3" Conduit housing (2) 3/4" DC & (1) 1/2" Fiber; (1) 2" Conduit housing (2) 3/4" DC & (1) 1/2"



Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 235964, v1 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	118.0	6	Commscope NHH-65B-R2B - Panel	Low Profile Platform, (3) Support Rail SP1: VZW Smart-PLK3, (1) MP Collar SP1: VZW SMART- PLK7,(3) Commscope BSAMNT-SBS-1-2	(2) 1 5/8" Hybrid (1) 1/2" (12) 1 5/8"	Verizon
2		3	Sammsung MT6407-77A - Panel			
3		3	Samsung RF4439d-25A RRU			
4		3	Samsung RF4440d-13A RRU			
5		1	Raycap RVZDC-6627-PF-48			
6	117.0	3	Andrew HBXX-6517DS-VTM - Panel			
7		1	Lucent KS24019-L112A GPS			
8		2	Kaelus KA-6030 [Filter]			

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:	58.1%	50.8%	69.4%
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	51.0%	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 58.12% at 0.0ft

Structure: CT03801-S-1
Site Name: East Granby
Height: 120.00 (ft)
Base Elev: 0.000 (ft)

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

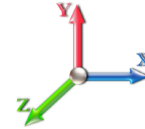
9/6/2023



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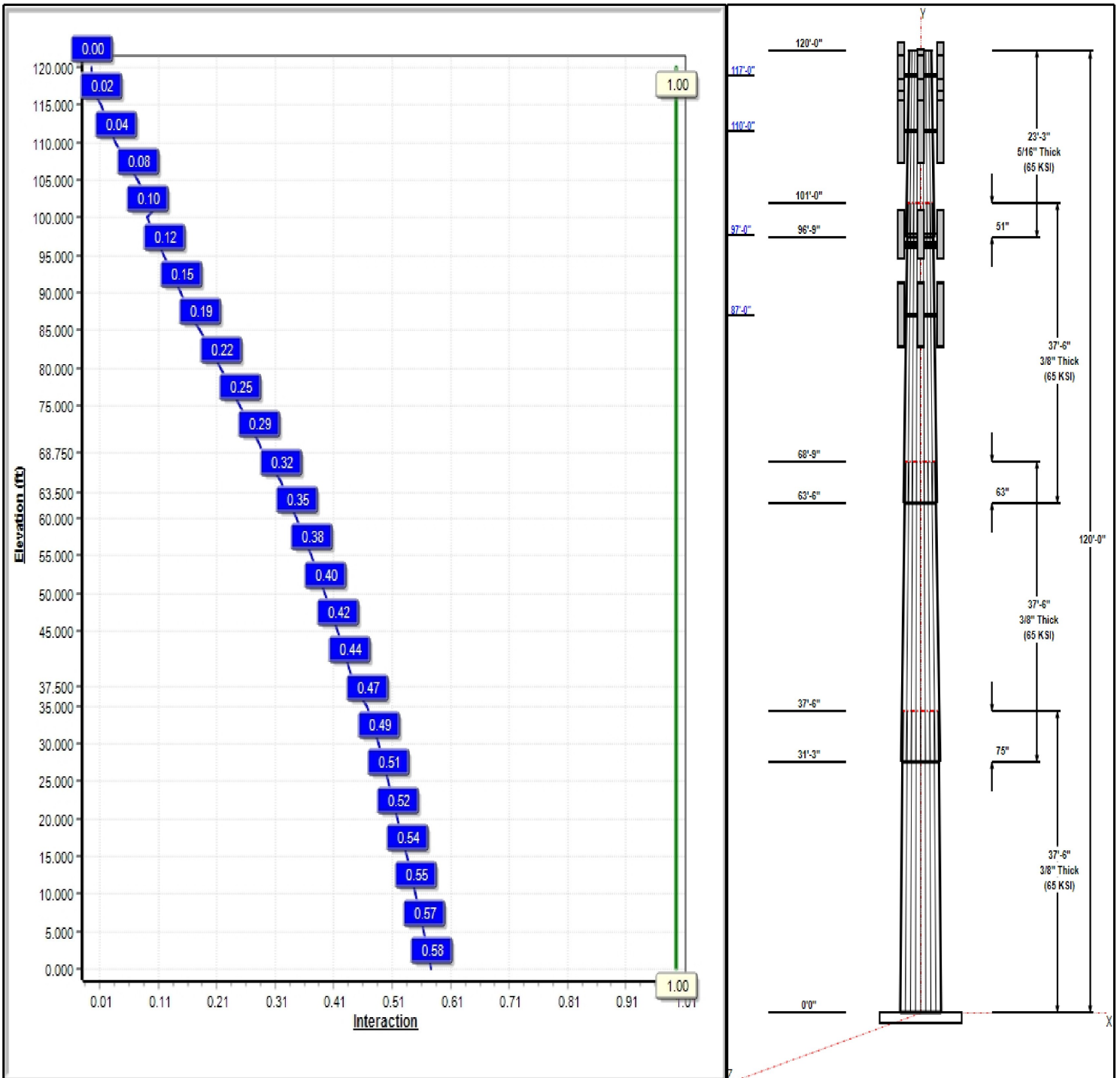
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 115 mph Wind



Iterations: 19

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Structure: CT03801-S-1

Type: Tapered
Site Name: East Granby
Height: 120.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.25001

9/6/2023

Page: 2



Shaft Properties

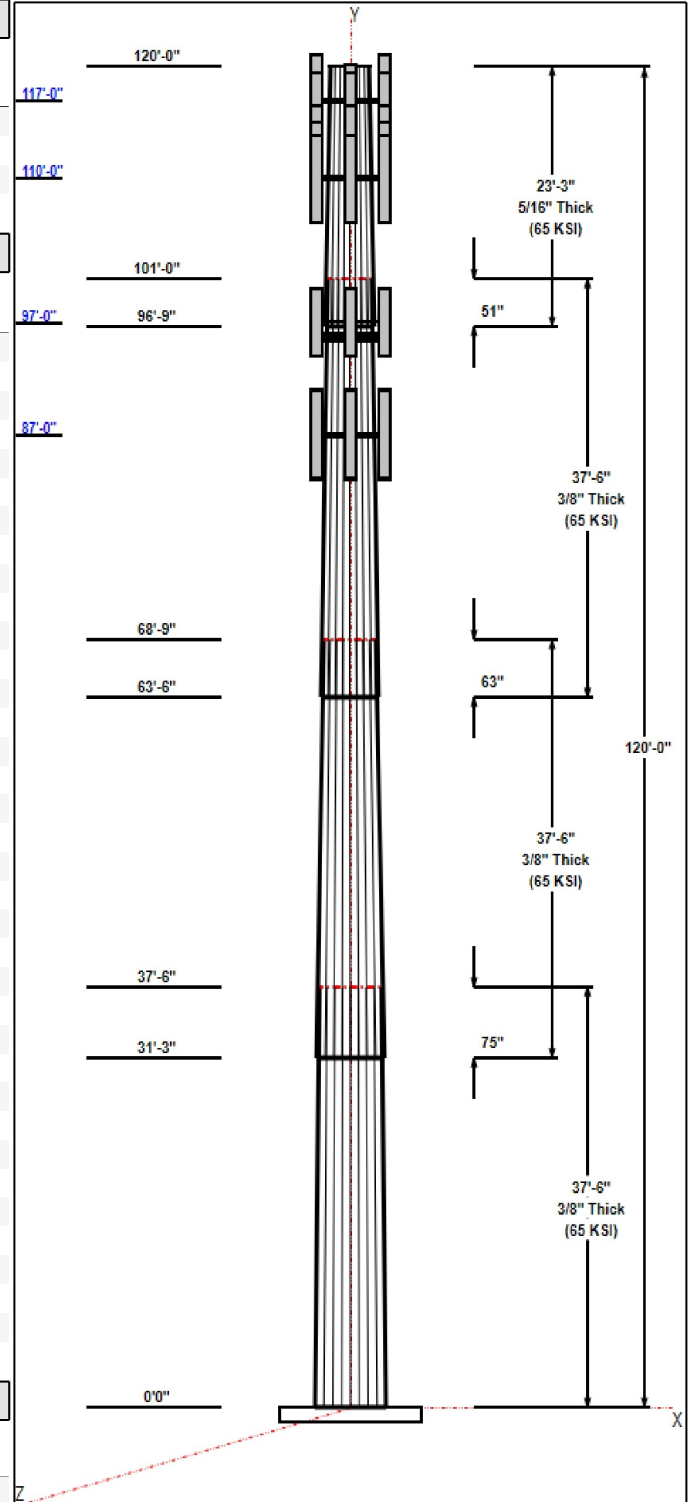
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	37.50	46.75	56.13	0.375		0.25001	65
2	37.50	39.69	49.06	0.375	Slip	0.25001	65
3	37.50	32.37	41.75	0.375	Slip	0.25001	65
4	23.25	28.25	34.06	0.313	Slip	0.25001	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
117.00	117.00	3	Andrew	Verizon
117.00	117.00	1	Lucent KS24019-L112A	Verizon
117.00	118.00	6	Commscope	Verizon
117.00	118.00	3	Samsung MT6407-77A	Verizon
117.00	118.00	3	Samsung RF4439d-25A	Verizon
117.00	118.00	3	Samsung RF4440d-13A	Verizon
117.00	118.00	1	Raycap	Verizon
117.00	117.00	1	Low Profile Platform-round	Verizon
117.00	117.00	2	Kaelus KA-6030[Filter]	Verizon
117.00	117.00	1	VZW MOD	Verizon
110.00	110.00	1	HRK12 (handrail kit)	T-Mobile
110.00	110.00	3	APXVAALL24_43-U-NA20	T-Mobile
110.00	110.00	3	AIR6419 B41	T-Mobile
110.00	110.00	3	4449 B71 + B85	T-Mobile
110.00	110.00	3	4460 B25 + B66	T-Mobile
110.00	110.00	1	Low profile	T-Mobile
110.00	110.00	3	KRY 112 144/1	T-Mobile
110.00	110.00	6	KRY 112 489/2	T-Mobile
110.00	110.00	1	MS-KI22-5 (Kickers w/o	T-Mobile
97.00	97.00	1	MC-PK8-DSH	Dish Wireless
97.00	97.00	3	TA08025-B605	Dish Wireless
97.00	97.00	3	TA08025-B604	Dish Wireless
97.00	97.00	1	RDIDC-9181-PF-48	Dish Wireless
97.00	97.00	3	MX08FRO665-21	Dish Wireless
87.00	87.00	3	800 10966	AT&T
87.00	87.00	1	Low Profile	AT&T
87.00	87.00	1	PRK-1245 (kicker kit)	AT&T
87.00	87.00	1	HRK12 (Handrail Kit)	AT&T
87.00	87.00	6	TT19-08BP111-001	AT&T
87.00	87.00	6	LGP21903	AT&T
87.00	87.00	3	B2 B66A 8843	AT&T
87.00	87.00	3	4449 B5/B12	AT&T
87.00	87.00	1	DC6-48-60-18-8F(23.5"	AT&T
87.00	87.00	1	DC6-48-60-18-8C	AT&T
87.00	87.00	3	7770.00	AT&T
87.00	87.00	3	HPA-65R-BUU-H8	AT&T

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	120.00	Outside	Climbing Ladder	SBA
0.00	120.00	Outside	Safety Cable	SBA
0.00	117.00	Inside	1 5/8" Coax	Verizon
0.00	117.00	Inside	1 5/8" Hybrid	Verizon
0.00	117.00	Inside	1/2" Coax	Verizon
0.00	110.00	Inside	1 5/8" Coax	T-Mobile



Structure: CT03801-S-1

Type: Tapered	Base Shape: 18 Sided	9/6/2023
Site Name: East Granby	Taper: 0.25001	
Height: 120.00 (ft)		
Base Elev: 0.00 (ft)		Page: 3



0.00	110.00	Inside	1 5/8" Fiber	T-Mobile
0.00	110.00	Inside	1.9" Fiber	T-Mobile
0.00	97.00	Outside	1.6" Hybrid	Dish Wireless
0.00	87.00	Inside	1 5/8" Coax	AT&T
0.00	87.00	Inside	1/2" Fiber	AT&T
0.00	87.00	Inside	2" Conduit	AT&T
0.00	87.00	Inside	3" Conduit	AT&T
0.00	87.00	Inside	3/4" DC	AT&T

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
39	1.25" A687	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	65.0	50.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 115 mph Wind	2810.6	32.4	49.0
0.9D + 1.0W 115 mph Wind	2791.4	32.3	36.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind	798.7	9.3	71.7
1.2D + 1.0Ev + 1.0Eh	100.2	1.0	50.5
0.9D + 1.0Ev + 1.0Eh	99.9	1.0	38.2
1.0D + 1.0W 60 mph Wind	681.7	7.9	40.8

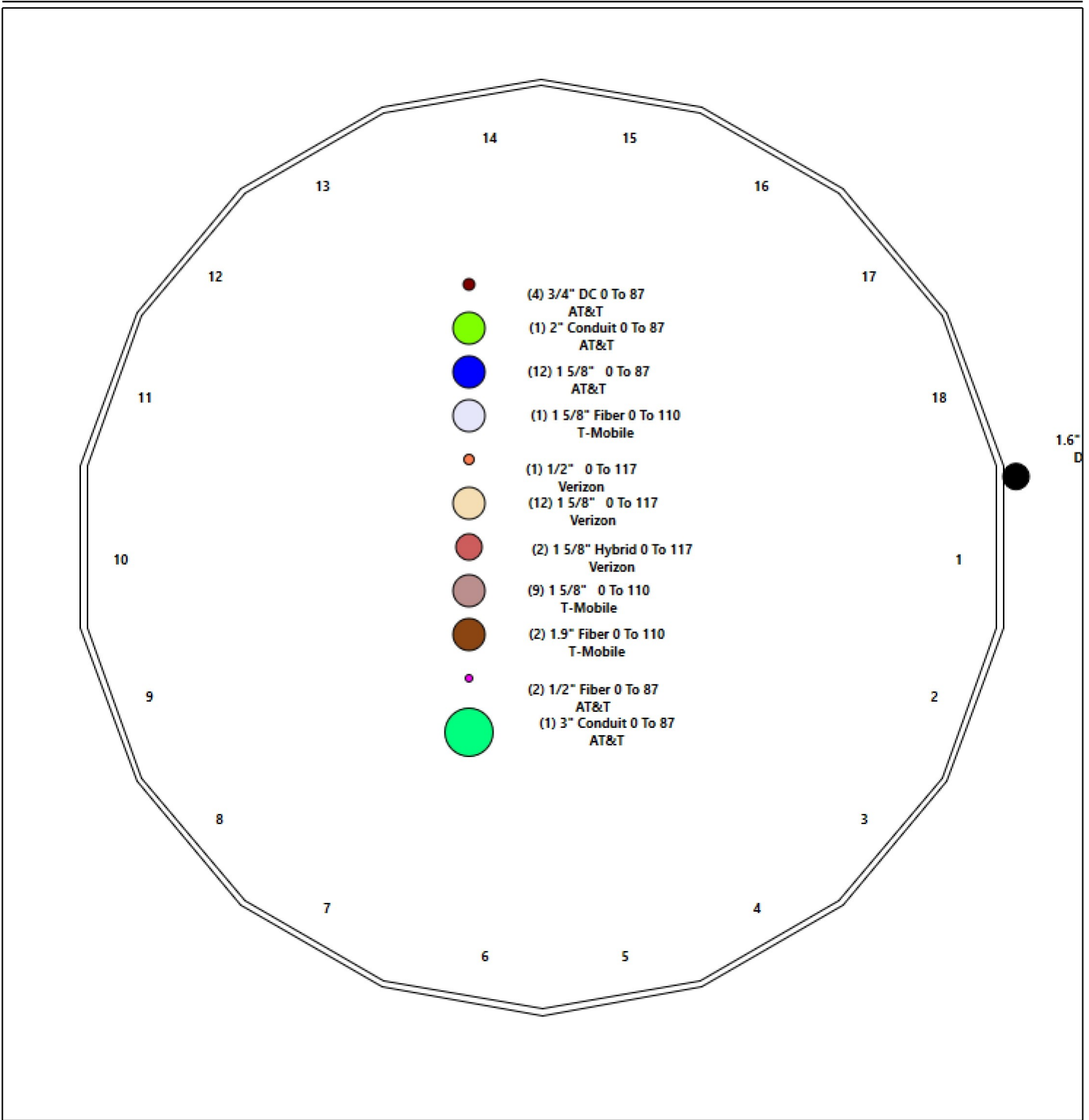
Structure: CT03801-S-1 - Coax Line Placement

Type: Monopole
Site Name: East Granby
Height: 120.00 (ft)

9/6/2023



Page: 4



Shaft Properties

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (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	37.500	0.3750	65		0.00	7,755
2	18	37.500	0.3750	65	Slip	75.00	6,682
3	18	37.500	0.3750	65	Slip	63.00	5,572
4	18	23.250	0.3130	65	Slip	51.00	2,424
Total Shaft Weight:							22,434

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	56.13	0.00	66.35	26056.15	24.98	149.67	46.75	37.50	55.20	14997.4	20.57	124.6	0.250008
2	49.06	31.25	57.95	17354.86	21.66	130.83	39.69	68.75	46.79	9135.84	17.25	105.8	0.250008
3	41.75	63.50	49.24	10650.57	18.22	111.33	32.37	101.00	38.09	4927.10	13.81	86.33	0.250008
4	34.06	96.75	33.53	4825.01	17.78	108.83	28.25	120.00	27.75	2736.71	14.50	90.26	0.250008

Load Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (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	117.00	Andrew HBXX-6517DS-A2M	3	40.78	8.54	0.81	231.19	9.796	0.82	0.00	0.00
2	117.00	Lucent KS24019-L112A GPS	1	5.00	0.14	1.00	10.31	0.325	1.00	0.00	0.00
3	117.00	Commscope NHH-65B-R2B	6	43.65	8.05	0.83	228.29	9.272	0.84	0.00	1.00
4	117.00	Samsung MT6407-77A	3	79.40	4.69	0.70	188.67	5.568	0.71	0.00	1.00
5	117.00	Samsung RF4439d-25A	3	74.70	1.87	0.84	123.99	2.400	0.85	0.00	1.00
6	117.00	Samsung RF4440d-13A	3	70.33	1.87	0.80	118.27	2.400	0.82	0.00	1.00
7	117.00	Raycap RVZDC-6627-PF-48	1	32.00	1.73	1.00	108.01	2.244	1.00	0.00	1.00
8	117.00	Low Profile Platform-round	1	1500.00	22.00	1.00	2776.79	39.228	1.00	0.00	0.00
9	117.00	Kaelus KA-6030[Filter]	2	17.60	0.96	0.82	40.29	1.348	0.84	0.00	0.00
10	117.00	VZW MOD	1	1200.00	26.01	1.00	2221.43	46.378	1.00	0.00	0.00
11	110.00	HRK12 (handrail kit)	1	261.72	6.75	1.00	527.41	11.318	1.00	0.00	0.00
12	110.00	APXVAALL24_43-U-NA20	3	122.80	20.24	0.73	535.86	22.080	0.73	0.00	0.00
13	110.00	AIR6419 B41	3	103.00	5.65	0.71	235.93	6.572	0.71	0.00	0.00
14	110.00	4449 B71 + B85	3	73.20	1.97	0.67	129.18	2.522	0.67	0.00	0.00
15	110.00	4460 B25 + B66	3	72.00	1.64	0.67	117.41	2.122	0.67	0.00	0.00
16	110.00	Low profile plataform-Round	1	1500.00	22.00	1.00	3022.73	36.889	1.00	0.00	0.00
17	110.00	KRY 112 144/1	3	11.00	0.41	0.67	21.45	0.871	0.67	0.00	0.00
18	110.00	KRY 112 489/2	6	0.10	0.01	0.67	0.10	0.010	0.67	0.00	0.00
19	110.00	MS-KI22-5 (Kickers w/o Collar)	1	146.00	5.33	1.00	294.21	8.937	1.00	0.00	0.00
20	97.00	MC-PK8-DSH	1	1727.00	22.94	1.00	3458.25	38.271	1.00	0.00	0.00
21	97.00	TA08025-B605	3	75.00	1.96	0.67	125.07	2.497	0.67	0.00	0.00
22	97.00	TA08025-B604	3	63.90	1.96	0.67	112.37	2.497	0.67	0.00	0.00
23	97.00	RDIDC-9181-PF-48	1	21.90	2.01	1.00	72.88	2.554	1.00	0.00	0.00
24	97.00	MX08FRO665-21	3	64.50	12.49	0.74	342.96	13.892	0.74	0.00	0.00
25	87.00	800 10966	3	125.70	17.36	0.72	461.79	19.068	0.74	0.00	0.00
26	87.00	Low Profile Platform-Round	1	1500.00	22.00	1.00	2739.52	38.725	1.00	0.00	0.00
27	87.00	PRK-1245 (kicker kit)	1	464.91	9.50	1.00	772.25	18.920	1.00	0.00	0.00
28	87.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	555.85	12.997	1.00	0.00	0.00
29	87.00	TT19-08BP111-001	6	16.00	0.64	0.90	35.17	1.201	0.92	0.00	0.00
30	87.00	LGP21903	6	5.50	0.27	0.84	13.48	0.647	0.86	0.00	0.00
31	87.00	B2 B66A 8843	3	70.00	1.64	0.85	113.55	2.129	0.87	0.00	0.00
32	87.00	4449 B5/B12	3	71.00	1.97	0.86	121.55	2.488	0.88	0.00	0.00
33	87.00	DC6-48-60-18-8F(23.5" Height)	1	20.00	1.26	1.00	69.96	1.885	1.00	0.00	0.00
34	87.00	DC6-48-60-18-8C	1	20.00	1.26	1.00	69.96	1.885	1.00	0.00	0.00
35	87.00	7770.00	3	35.00	5.50	0.73	161.47	6.505	0.75	0.00	0.00
36	87.00	HPA-65R-BUU-H8	3	68.00	12.98	0.79	341.21	14.505	0.81	0.00	0.00
Totals:			91	12,747.88			28,888.16				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	120.00	(1) Climbing Ladder	3.00	Outside
0.00	120.00	(1) Safety Cable	3.00	Outside
0.00	117.00	(12) 1 5/8" Coax	0.00	Inside
0.00	117.00	(2) 1 5/8" Hybrid	0.00	Inside
0.00	117.00	(1) 1/2" Coax	0.00	Inside

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		
0.00	110.00	(9) 1 5/8" Coax		0.00							
0.00	110.00	(1) 1 5/8" Fiber		0.00							
0.00	110.00	(2) 1.9" Fiber		0.00							
0.00	97.00	(1) 1.6" Hybrid		1.60							
0.00	87.00	(12) 1 5/8" Coax		0.00							
0.00	87.00	(2) 1/2" Fiber		0.00							
0.00	87.00	(1) 2" Conduit		0.00							
0.00	87.00	(1) 3" Conduit		0.00							
0.00	87.00	(4) 3/4" DC		0.00							

Shaft Section Properties

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 8

Increment Length: 5 (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	56.125	66.354	26056.2	24.98	149.67	72.0	914.4	0.0
5.00		0.3750	54.875	64.866	24342.4	24.39	146.33	72.7	873.7	1116.3
10.00		0.3750	53.625	63.378	22705.6	23.80	143.00	73.4	834.0	1091.0
15.00		0.3750	52.375	61.891	21143.8	23.22	139.67	74.1	795.1	1065.7
20.00		0.3750	51.125	60.403	19655.3	22.63	136.33	74.8	757.2	1040.3
25.00		0.3750	49.875	58.915	18238.4	22.04	133.00	75.5	720.3	1015.0
30.00		0.3750	48.625	57.427	16891.2	21.45	129.67	76.2	684.2	989.7
31.25	Bot - Section 2	0.3750	48.312	57.055	16565.1	21.31	128.83	76.3	675.3	243.5
35.00		0.3750	47.375	55.939	15612.1	20.87	126.33	76.9	649.1	1453.2
37.50	Top - Section 1	0.3750	47.500	56.088	15737.0	20.92	126.67	0.0	0.0	953.0
40.00		0.3750	46.875	55.344	15119.1	20.63	125.00	77.1	635.3	474.0
45.00		0.3750	45.625	53.856	13932.2	20.04	121.67	77.8	601.5	929.0
50.00		0.3750	44.375	52.369	12809.2	19.45	118.33	78.5	568.5	903.7
55.00		0.3750	43.125	50.881	11748.2	18.87	115.00	79.2	536.6	878.3
60.00		0.3750	41.875	49.393	10747.4	18.28	111.67	79.9	505.5	853.0
63.50	Bot - Section 3	0.3750	40.999	48.352	10081.8	17.87	109.33	80.4	484.3	582.1
65.00		0.3750	40.624	47.905	9805.2	17.69	108.33	80.6	475.4	495.9
68.75	Top - Section 2	0.3750	40.437	47.682	9668.8	17.60	107.83	0.0	0.0	1219.7
70.00		0.3750	40.124	47.310	9444.3	17.46	107.00	80.9	463.6	202.0
75.00		0.3750	38.874	45.822	8581.0	16.87	103.67	81.6	434.8	792.3
80.00		0.3750	37.624	44.334	7772.0	16.28	100.33	82.3	406.9	767.0
85.00		0.3750	36.374	42.847	7015.5	15.69	97.00	82.5	379.9	741.6
87.00		0.3750	35.874	42.251	6727.2	15.46	95.66	82.5	369.3	289.6
90.00		0.3750	35.124	41.359	6309.7	15.10	93.66	82.5	353.8	426.8
95.00		0.3750	33.874	39.871	5653.0	14.52	90.33	82.5	328.7	691.0
96.75	Bot - Section 4	0.3750	33.437	39.350	5434.4	14.31	89.16	82.5	320.1	235.9
97.00		0.3750	33.374	39.276	5403.6	14.28	89.00	82.5	318.9	61.9
100.00		0.3750	32.624	38.383	5043.5	13.93	87.00	82.5	304.5	734.2
101.00	Top - Section 3	0.3130	33.000	32.472	4383.5	17.18	105.43	0.0	0.0	241.0
105.00		0.3130	32.000	31.479	3993.3	16.62	102.24	81.9	245.8	435.2
110.00		0.3130	30.750	30.237	3539.1	15.91	98.24	82.5	226.7	525.0
115.00		0.3130	29.500	28.995	3120.7	15.21	94.25	82.5	208.4	503.9
117.00		0.3130	29.000	28.498	2963.1	14.93	92.65	82.5	201.2	195.6
120.00		0.3130	28.250	27.753	2736.7	14.50	90.26	82.5	190.8	287.1
22433.5										

Wind Loading - Shaft

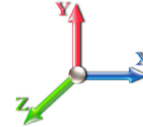
Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 9



Load Case: 1.2D + 1.0W 115 mph Wind

Iterations 19

Dead Load Factor 1.20
Wind Load Factor 1.00



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	27.155	29.87	501.84	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0	
5.00		1.00	0.85	27.155	29.87	490.67	0.806 *	0.000	5.00	23.482	18.93	565.6	0.0	1339.5	
10.00		1.00	0.85	27.155	29.87	479.49	0.813 *	0.000	5.00	22.953	18.66	557.5	0.0	1309.2	
15.00		1.00	0.85	27.155	29.87	468.31	0.820 *	0.000	5.00	22.424	18.39	549.4	0.0	1278.8	
20.00		1.00	0.90	28.813	31.69	470.88	0.828 *	0.000	5.00	21.895	18.12	574.4	0.0	1248.4	
25.00		1.00	0.95	30.199	33.22	470.28	0.836 *	0.000	5.00	21.366	17.85	593.1	0.0	1218.0	
30.00		1.00	0.98	31.380	34.52	467.38	0.844 *	0.000	5.00	20.837	17.58	606.9	0.0	1187.7	
31.25	Bot - Section 2	1.00	0.99	31.651	34.82	466.38	0.849 *	0.000	1.25	5.127	4.35	151.6	0.0	292.2	
35.00		1.00	1.01	32.415	35.66	462.82	0.854 *	0.000	3.75	15.420	13.16	469.3	0.0	1743.9	
37.50	Top - Section 1	1.00	1.03	32.890	36.18	460.04	0.859 *	0.000	2.50	10.115	8.69	314.4	0.0	1143.6	
40.00		1.00	1.04	33.340	36.67	464.41	0.858 *	0.000	2.50	9.982	8.57	314.2	0.0	568.8	
45.00		1.00	1.07	34.177	37.59	457.67	0.865 *	0.000	5.00	19.568	16.93	636.6	0.0	1114.8	
50.00		1.00	1.09	34.943	38.44	450.09	0.875 *	0.000	5.00	19.039	16.66	640.5	0.0	1084.4	
55.00		1.00	1.12	35.651	39.22	441.82	0.886 *	0.000	5.00	18.510	16.39	642.9	0.0	1054.0	
60.00		1.00	1.14	36.311	39.94	432.96	0.897 *	0.000	5.00	17.981	16.12	644.0	0.0	1023.6	
63.50	Bot - Section 3	1.00	1.15	36.747	40.42	426.45	0.907 *	0.000	3.50	12.272	11.13	449.7	0.0	698.5	
65.00		1.00	1.16	36.928	40.62	423.59	0.913 *	0.000	1.50	5.275	4.81	195.6	0.0	595.0	
68.75	Top - Section 2	1.00	1.17	37.366	41.10	416.27	0.919 *	0.000	3.75	12.980	11.93	490.4	0.0	1463.7	
70.00		1.00	1.17	37.508	41.26	421.66	0.918 *	0.000	1.25	4.261	3.91	161.4	0.0	242.4	
75.00		1.00	1.19	38.057	41.86	411.50	0.926 *	0.000	5.00	16.712	15.47	647.8	0.0	950.7	
80.00		1.00	1.21	38.578	42.44	400.98	0.940 *	0.000	5.00	16.183	15.20	645.2	0.0	920.3	
85.00		1.00	1.22	39.073	42.98	390.14	1.200 *	0.000	5.00	15.654	18.79	807.4	0.0	890.0	
87.00	Appurtenance(s)	1.00	1.23	39.265	43.19	385.72	1.200 *	0.000	2.00	6.114	7.34	316.9	0.0	347.5	
90.00		1.00	1.24	39.546	43.50	379.00	1.200 *	0.000	3.00	9.012	10.81	470.4	0.0	512.1	
95.00		1.00	1.25	39.999	44.00	367.60	1.200 *	0.000	5.00	14.596	17.52	770.7	0.0	829.2	
96.75	Bot - Section 4	1.00	1.26	40.153	44.17	363.55	1.200 *	0.000	1.75	4.984	5.98	264.2	0.0	283.1	
97.00	Appurtenance(s)	1.00	1.26	40.175	44.19	362.97	1.200 *	0.000	0.25	0.720	0.86	38.2	0.0	74.3	
100.00		1.00	1.27	40.433	44.48	355.95	0.903 *	0.000	3.00	8.536	7.71	342.9	0.0	881.1	
101.00	Top - Section 3	1.00	1.27	40.518	44.57	353.60	0.909 *	0.000	1.00	2.803	2.55	113.6	0.0	289.2	
105.00		1.00	1.28	40.851	44.94	350.94	0.909 *	0.000	4.00	11.001	10.00	449.4	0.0	522.3	
110.00	Appurtenance(s)	1.00	1.29	41.253	45.38	338.89	0.923 *	0.000	5.00	13.275	12.26	556.3	0.0	630.0	
115.00		1.00	1.30	41.641	45.80	326.64	0.941 *	0.000	5.00	12.746	11.99	549.1	0.0	604.7	
117.00	Appurtenance(s)	1.00	1.31	41.792	45.97	321.68	1.200 *	0.000	2.00	4.950	5.94	273.1	0.0	234.8	
120.00		1.00	1.32	42.015	46.22	314.20	1.200 *	0.000	3.00	7.267	8.72	403.0	0.0	344.5	
Totals:									120.00			15,205.6			26,920.2

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 10



Load Case: 1.2D + 1.0W 115 mph Wind	Iterations 19
Dead Load Factor 1.20	
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	117.00	Samsung RF4439d-25A	3	41.867	46.054	0.76	0.90	4.24	268.92	0.000	1.000	195.32	0.00	195.32	
2	117.00	Andrew	3	41.792	45.971	0.65	0.80	16.60	146.81	0.000	0.000	763.20	0.00	0.00	
3	117.00	Lucent KS24019-L112A	1	41.792	45.971	0.80	0.80	0.11	6.00	0.000	0.000	5.15	0.00	0.00	
4	117.00	Commscope	6	41.867	46.054	0.75	0.90	36.08	314.28	0.000	1.000	1661.62	0.00	1661.62	
5	117.00	Sammsung MT6407-77A	3	41.867	46.054	0.63	0.90	8.86	285.84	0.000	1.000	408.22	0.00	408.22	
6	117.00	VZW MOD	1	41.792	45.971	1.00	1.00	26.01	1440.00	0.000	0.000	1195.71	0.00	0.00	
7	117.00	Raycap	1	41.867	46.054	1.00	1.00	1.73	38.40	0.000	1.000	79.67	0.00	79.67	
8	117.00	Low Profile Platform-round	1	41.792	45.971	1.00	1.00	22.00	1800.00	0.000	0.000	1011.36	0.00	0.00	
9	117.00	Kaelus KA-6030[Filter]	2	41.792	45.971	0.66	0.80	1.26	42.24	0.000	0.000	57.90	0.00	0.00	
10	117.00	Samsung RF4440d-13A	3	41.867	46.054	0.72	0.90	4.04	253.19	0.000	1.000	186.02	0.00	186.02	
11	110.00	4460 B25 + B66	3	41.253	45.378	0.50	0.75	2.47	259.20	0.000	0.000	112.19	0.00	0.00	
12	110.00	APXVAALL24_43-U-NA20	3	41.253	45.378	0.55	0.75	33.24	442.08	0.000	0.000	1508.55	0.00	0.00	
13	110.00	AIR6419 B41	3	41.253	45.378	0.53	0.75	9.03	370.80	0.000	0.000	409.58	0.00	0.00	
14	110.00	4449 B71 + B85	3	41.253	45.378	0.50	0.75	2.97	263.52	0.000	0.000	134.76	0.00	0.00	
15	110.00	KRY 112 489/2	6	41.253	45.378	0.50	0.75	0.03	0.72	0.000	0.000	1.37	0.00	0.00	
16	110.00	Low profile	1	41.253	45.378	1.00	1.00	22.00	1800.00	0.000	0.000	998.31	0.00	0.00	
17	110.00	KRY 112 144/1	3	41.253	45.378	0.50	0.75	0.62	39.60	0.000	0.000	28.05	0.00	0.00	
18	110.00	MS-KI22-5 (Kickers w/o	1	41.253	45.378	1.00	1.00	5.33	175.20	0.000	0.000	241.86	0.00	0.00	
19	110.00	HRK12 (handrail kit)	1	41.253	45.378	1.00	1.00	6.75	314.06	0.000	0.000	306.30	0.00	0.00	
20	97.00	MX08FRO665-21	3	40.175	44.192	0.55	0.75	20.80	232.20	0.000	0.000	919.01	0.00	0.00	
21	97.00	RDIDC-9181-PF-48	1	40.175	44.192	0.75	0.75	1.51	26.28	0.000	0.000	66.62	0.00	0.00	
22	97.00	TA08025-B604	3	40.175	44.192	0.50	0.75	2.95	230.04	0.000	0.000	130.57	0.00	0.00	
23	97.00	TA08025-B605	3	40.175	44.192	0.50	0.75	2.95	270.00	0.000	0.000	130.57	0.00	0.00	
24	97.00	MC-PK8-DSH	1	40.175	44.192	1.00	1.00	22.94	2072.40	0.000	0.000	1013.77	0.00	0.00	
25	87.00	TT19-08BP111-001	6	39.265	43.191	0.68	0.75	2.59	115.20	0.000	0.000	111.95	0.00	0.00	
26	87.00	HRK12 (Handrail Kit)	1	39.265	43.191	1.00	1.00	6.75	314.06	0.000	0.000	291.54	0.00	0.00	
27	87.00	LGP21903	6	39.265	43.191	0.63	0.75	1.02	39.60	0.000	0.000	44.08	0.00	0.00	
28	87.00	PRK-1245 (kicker kit)	1	39.265	43.191	1.00	1.00	9.50	557.89	0.000	0.000	410.32	0.00	0.00	
29	87.00	Low Profile	1	39.265	43.191	1.00	1.00	22.00	1800.00	0.000	0.000	950.21	0.00	0.00	
30	87.00	800 10966	3	39.265	43.191	0.54	0.75	28.12	452.52	0.000	0.000	1214.68	0.00	0.00	
31	87.00	DC6-48-60-18-8F(23.5"	1	39.265	43.191	1.00	1.00	1.26	24.00	0.000	0.000	54.42	0.00	0.00	
32	87.00	B2 B66A 8843	3	39.265	43.191	0.64	0.75	3.14	252.00	0.000	0.000	135.47	0.00	0.00	
33	87.00	4449 B5/B12	3	39.265	43.191	0.65	0.75	3.81	255.60	0.000	0.000	164.64	0.00	0.00	
34	87.00	DC6-48-60-18-8C	1	39.265	43.191	1.00	1.00	1.26	24.00	0.000	0.000	54.42	0.00	0.00	
35	87.00	7770.00	3	39.265	43.191	0.55	0.75	9.03	126.00	0.000	0.000	390.18	0.00	0.00	
36	87.00	HPA-65R-BUU-H8	3	39.265	43.191	0.59	0.75	23.07	244.80	0.000	0.000	996.51	0.00	0.00	
Totals:									15,297.46						16,384.14

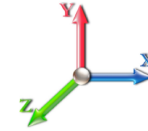
Total Applied Force Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 11



Load Case: 1.2D + 1.0W 115 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 19

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		565.58	1662.36	0.00	0.00
10.00		557.51	1631.98	0.00	0.00
15.00		549.43	1601.61	0.00	0.00
20.00		574.40	1571.23	0.00	0.00
25.00		593.06	1540.85	0.00	0.00
30.00		606.93	1510.48	0.00	0.00
31.25		151.57	372.87	0.00	0.00
35.00		469.33	1986.01	0.00	0.00
37.50		314.44	1305.02	0.00	0.00
40.00		314.24	730.18	0.00	0.00
45.00		636.63	1437.57	0.00	0.00
50.00		640.52	1407.20	0.00	0.00
55.00		642.91	1376.82	0.00	0.00
60.00		644.00	1346.45	0.00	0.00
63.50		449.71	924.44	0.00	0.00
65.00		195.56	691.89	0.00	0.00
68.75		490.41	1705.79	0.00	0.00
70.00		161.36	323.13	0.00	0.00
75.00		647.82	1273.54	0.00	0.00
80.00		645.21	1243.17	0.00	0.00
85.00		970.72	1212.79	0.00	0.00
87.00	(32) attachments	5200.95	4682.29	0.00	0.00
90.00		569.60	639.89	0.00	0.00
95.00		937.17	1042.18	0.00	0.00
96.75		322.56	357.59	0.00	0.00
97.00	(11) attachments	2307.08	2915.89	0.00	0.00
100.00		342.88	1005.23	0.00	0.00
101.00		113.58	330.62	0.00	0.00
105.00		449.41	687.83	0.00	0.00
110.00	(24) attachments	4297.23	4502.16	0.00	0.00
115.00		549.11	729.54	0.00	0.00
117.00	(24) attachments	5890.95	4880.39	0.00	2530.85
120.00		483.75	370.37	0.00	0.00
	Totals:	32,285.60	48,999.36	0.00	2,530.85

Linear Appurtenance Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II

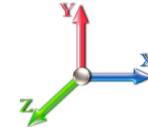


Load Case: 1.2D + 1.0W 115 mph Wind

Iterations 19

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)
5.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.135	1.105	27.155	0.00	41.40
5.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.135	1.105	27.155	0.00	1.64
5.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.135	1.105	27.155	0.00	6.00
10.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.114	27.155	0.00	41.40
10.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.114	27.155	0.00	1.64
10.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.138	1.114	27.155	0.00	6.00
15.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.141	1.124	27.155	0.00	41.40
15.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.141	1.124	27.155	0.00	1.64
15.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.141	1.124	27.155	0.00	6.00
20.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.145	1.134	28.813	0.00	41.40
20.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.145	1.134	28.813	0.00	1.64
20.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.145	1.134	28.813	0.00	6.00
25.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.148	1.145	30.199	0.00	41.40
25.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.148	1.145	30.199	0.00	1.64
25.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.148	1.145	30.199	0.00	6.00
30.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.152	1.156	31.380	0.00	41.40
30.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.152	1.156	31.380	0.00	1.64
30.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.152	1.156	31.380	0.00	6.00
31.25	Climbing Ladder	Yes	1.25	0.000	3.00	0.31	0.00	0.154	1.163	31.651	0.00	10.35
31.25	Safety Cable	Yes	1.25	0.000	3.00	0.31	0.00	0.154	1.163	31.651	0.00	0.41
31.25	1.6" Hybrid	Yes	1.25	0.000	1.60	0.17	0.00	0.154	1.163	31.651	0.00	1.50
35.00	Climbing Ladder	Yes	3.75	0.000	3.00	0.94	0.00	0.156	1.169	32.415	0.00	31.05
35.00	Safety Cable	Yes	3.75	0.000	3.00	0.94	0.00	0.156	1.169	32.415	0.00	1.23
35.00	1.6" Hybrid	Yes	3.75	0.000	1.60	0.50	0.00	0.156	1.169	32.415	0.00	4.50
37.50	Climbing Ladder	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.177	32.890	0.00	20.70
37.50	Safety Cable	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.177	32.890	0.00	0.82
37.50	1.6" Hybrid	Yes	2.50	0.000	1.60	0.33	0.00	0.159	1.177	32.890	0.00	3.00
40.00	Climbing Ladder	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.176	33.340	0.00	20.70
40.00	Safety Cable	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.176	33.340	0.00	0.82
40.00	1.6" Hybrid	Yes	2.50	0.000	1.60	0.33	0.00	0.159	1.176	33.340	0.00	3.00
45.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.162	1.185	34.177	0.00	41.40
45.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.162	1.185	34.177	0.00	1.64
45.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.162	1.185	34.177	0.00	6.00
50.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.166	1.199	34.943	0.00	41.40
50.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.166	1.199	34.943	0.00	1.64
50.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.166	1.199	34.943	0.00	6.00
55.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.171	1.213	35.651	0.00	41.40
55.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.171	1.213	35.651	0.00	1.64
55.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.171	1.213	35.651	0.00	6.00
60.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.176	1.228	36.311	0.00	41.40
60.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.176	1.228	36.311	0.00	1.64
60.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.176	1.228	36.311	0.00	6.00
63.50	Climbing Ladder	Yes	3.50	0.000	3.00	0.88	0.00	0.181	1.242	36.747	0.00	28.98
63.50	Safety Cable	Yes	3.50	0.000	3.00	0.88	0.00	0.181	1.242	36.747	0.00	1.15
63.50	1.6" Hybrid	Yes	3.50	0.000	1.60	0.47	0.00	0.181	1.242	36.747	0.00	4.20
65.00	Climbing Ladder	Yes	1.50	0.000	3.00	0.38	0.00	0.183	1.250	36.928	0.00	12.42
65.00	Safety Cable	Yes	1.50	0.000	3.00	0.38	0.00	0.183	1.250	36.928	0.00	0.49

Linear Appurtenance Segment Forces (Factored)

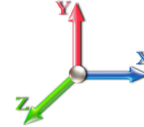
Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0W 115 mph Wind

Iterations 19

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)
65.00	1.6" Hybrid	Yes	1.50	0.000	1.60	0.20	0.00	0.183	1.250	36.928	0.00	1.80
68.75	Climbing Ladder	Yes	3.75	0.000	3.00	0.94	0.00	0.186	1.259	37.366	0.00	31.05
68.75	Safety Cable	Yes	3.75	0.000	3.00	0.94	0.00	0.186	1.259	37.366	0.00	1.23
68.75	1.6" Hybrid	Yes	3.75	0.000	1.60	0.50	0.00	0.186	1.259	37.366	0.00	4.50
70.00	Climbing Ladder	Yes	1.25	0.000	3.00	0.31	0.00	0.186	1.257	37.508	0.00	10.35
70.00	Safety Cable	Yes	1.25	0.000	3.00	0.31	0.00	0.186	1.257	37.508	0.00	0.41
70.00	1.6" Hybrid	Yes	1.25	0.000	1.60	0.17	0.00	0.186	1.257	37.508	0.00	1.50
75.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.189	1.268	38.057	0.00	41.40
75.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.189	1.268	38.057	0.00	1.64
75.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.189	1.268	38.057	0.00	6.00
80.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.287	38.578	0.00	41.40
80.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.287	38.578	0.00	1.64
80.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.196	1.287	38.578	0.00	6.00
85.00	Climbing Ladder	Yes	5.00	1.200	3.00	1.25	1.50	0.202	0.000	39.073	64.47	41.40
85.00	Safety Cable	Yes	5.00	1.200	3.00	1.25	1.50	0.202	0.000	39.073	64.47	1.64
85.00	1.6" Hybrid	Yes	5.00	1.200	1.60	0.67	0.80	0.202	0.000	39.073	34.38	6.00
87.00	Climbing Ladder	Yes	2.00	1.200	3.00	0.50	0.60	0.207	0.000	39.265	25.91	16.56
87.00	Safety Cable	Yes	2.00	1.200	3.00	0.50	0.60	0.207	0.000	39.265	25.91	0.66
87.00	1.6" Hybrid	Yes	2.00	1.200	1.60	0.27	0.32	0.207	0.000	39.265	13.82	2.40
90.00	Climbing Ladder	Yes	3.00	1.200	3.00	0.75	0.90	0.211	0.000	39.546	39.15	24.84
90.00	Safety Cable	Yes	3.00	1.200	3.00	0.75	0.90	0.211	0.000	39.546	39.15	0.98
90.00	1.6" Hybrid	Yes	3.00	1.200	1.60	0.40	0.48	0.211	0.000	39.546	20.88	3.60
95.00	Climbing Ladder	Yes	5.00	1.194	3.00	1.25	1.49	0.217	0.000	39.999	65.65	41.40
95.00	Safety Cable	Yes	5.00	1.194	3.00	1.25	1.49	0.217	0.000	39.999	65.65	1.64
95.00	1.6" Hybrid	Yes	5.00	1.200	1.60	0.67	0.80	0.217	0.000	39.999	35.20	6.00
96.75	Climbing Ladder	Yes	1.75	1.191	3.00	0.44	0.52	0.222	0.000	40.153	23.02	14.49
96.75	Safety Cable	Yes	1.75	1.191	3.00	0.44	0.52	0.222	0.000	40.153	23.02	0.57
96.75	1.6" Hybrid	Yes	1.75	1.200	1.60	0.23	0.28	0.222	0.000	40.153	12.37	2.10
97.00	Climbing Ladder	Yes	0.25	1.191	3.00	0.06	0.07	0.224	0.000	40.175	3.29	2.07
97.00	Safety Cable	Yes	0.25	1.191	3.00	0.06	0.07	0.224	0.000	40.175	3.29	0.08
97.00	1.6" Hybrid	Yes	0.25	1.200	1.60	0.03	0.04	0.224	0.000	40.175	1.77	0.30
100.00	Climbing Ladder	Yes	3.00	0.000	3.00	0.75	0.00	0.179	1.237	40.433	0.00	24.84
100.00	Safety Cable	Yes	3.00	0.000	3.00	0.75	0.00	0.179	1.237	40.433	0.00	0.98
101.00	Climbing Ladder	Yes	1.00	0.000	3.00	0.25	0.00	0.182	1.245	40.518	0.00	8.28
101.00	Safety Cable	Yes	1.00	0.000	3.00	0.25	0.00	0.182	1.245	40.518	0.00	0.33
105.00	Climbing Ladder	Yes	4.00	0.000	3.00	1.00	0.00	0.182	1.245	40.851	0.00	33.12
105.00	Safety Cable	Yes	4.00	0.000	3.00	1.00	0.00	0.182	1.245	40.851	0.00	1.31
110.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.188	1.265	41.253	0.00	41.40
110.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.188	1.265	41.253	0.00	1.64
115.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.288	41.641	0.00	41.40
115.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.288	41.641	0.00	1.64
117.00	Climbing Ladder	Yes	2.00	1.168	3.00	0.50	0.58	0.202	0.000	41.792	26.84	16.56
117.00	Safety Cable	Yes	2.00	1.168	3.00	0.50	0.58	0.202	0.000	41.792	26.84	0.66
120.00	Climbing Ladder	Yes	3.00	1.165	3.00	0.75	0.87	0.206	0.000	42.015	40.37	24.84
120.00	Safety Cable	Yes	3.00	1.165	3.00	0.75	0.87	0.206	0.000	42.015	40.37	0.98
Totals:											695.8	1,149.3

Calculated Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 14

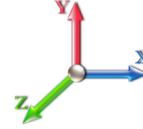


Load Case: 1.2D + 1.0W 115 mph Wind

Iterations 19

Dead Load Factor 1.20

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.96	-32.35	0.00	-2810.6	0.00	2810.62	4300.95	1164.51	5386.47	4939.14	0.00	0.000	0.000	0.581
5.00	-47.21	-31.91	0.00	-2648.8	0.00	2648.88	4244.87	1138.40	5147.62	4764.71	0.08	-0.149	0.000	0.568
10.00	-45.50	-31.46	0.00	-2489.3	0.00	2489.35	4186.94	1112.29	4914.19	4591.15	0.32	-0.299	0.000	0.554
15.00	-43.82	-31.02	0.00	-2332.0	0.00	2332.04	4127.16	1086.18	4686.18	4418.62	0.71	-0.450	0.000	0.539
20.00	-42.17	-30.54	0.00	-2176.9	0.00	2176.96	4065.53	1060.07	4463.58	4247.25	1.27	-0.602	0.000	0.524
25.00	-40.56	-30.04	0.00	-2024.2	0.00	2024.26	4002.04	1033.96	4246.40	4077.19	1.98	-0.754	0.000	0.507
30.00	-39.01	-29.47	0.00	-1874.0	0.00	1874.07	3936.71	1007.85	4034.64	3908.58	2.85	-0.906	0.000	0.490
31.25	-38.60	-29.37	0.00	-1837.2	0.00	1837.23	3920.09	1001.32	3982.54	3866.68	3.10	-0.945	0.000	0.486
35.00	-36.57	-28.92	0.00	-1727.1	0.00	1727.11	3869.52	981.74	3828.29	3741.57	3.88	-1.060	0.000	0.472
37.50	-35.24	-28.63	0.00	-1654.8	0.00	1654.80	3876.32	984.35	3848.67	3758.20	4.46	-1.137	0.000	0.450
40.00	-34.46	-28.37	0.00	-1583.2	0.00	1583.22	3842.13	971.29	3747.26	3675.25	5.08	-1.214	0.000	0.441
45.00	-32.97	-27.78	0.00	-1441.3	0.00	1441.37	3772.35	945.18	3548.49	3510.72	6.43	-1.356	0.000	0.420
50.00	-31.51	-27.18	0.00	-1302.4	0.00	1302.46	3700.72	919.07	3355.15	3348.13	7.92	-1.496	0.000	0.398
55.00	-30.09	-26.57	0.00	-1166.5	0.00	1166.55	3627.24	892.96	3167.21	3187.63	9.56	-1.633	0.000	0.375
60.00	-28.71	-25.95	0.00	-1033.6	0.00	1033.68	3551.90	866.85	2984.69	3029.36	11.35	-1.766	0.000	0.350
63.50	-27.77	-25.50	0.00	-942.87	0.00	942.87	3498.07	848.57	2860.16	2919.97	12.68	-1.858	0.000	0.332
65.00	-27.06	-25.31	0.00	-904.62	0.00	904.62	3474.72	840.74	2807.59	2873.46	13.27	-1.897	0.000	0.324
68.75	-25.34	-24.79	0.00	-809.70	0.00	809.70	3462.98	836.82	2781.49	2850.29	14.80	-1.990	0.000	0.292
70.00	-25.00	-24.65	0.00	-778.71	0.00	778.71	3443.33	830.29	2738.27	2811.80	15.32	-2.021	0.000	0.285
75.00	-23.70	-24.00	0.00	-655.47	0.00	655.47	3363.55	804.18	2568.75	2659.47	17.50	-2.129	0.000	0.254
80.00	-22.45	-23.34	0.00	-535.47	0.00	535.47	3281.92	778.07	2404.65	2509.86	19.78	-2.228	0.000	0.221
85.00	-21.25	-22.35	0.00	-418.75	0.00	418.75	3183.29	751.96	2245.96	2351.92	22.16	-2.315	0.000	0.186
87.00	-16.77	-16.97	0.00	-374.06	0.00	374.06	3139.07	741.51	2184.00	2286.71	23.14	-2.347	0.000	0.169
90.00	-16.14	-16.39	0.00	-323.15	0.00	323.15	3072.75	725.85	2092.69	2190.61	24.63	-2.392	0.000	0.153
95.00	-15.13	-15.42	0.00	-241.19	0.00	241.19	2962.22	699.74	1944.84	2035.03	27.17	-2.455	0.000	0.124
96.75	-14.78	-15.09	0.00	-214.21	0.00	214.21	2923.53	690.60	1894.37	1981.93	28.08	-2.475	0.000	0.114
97.00	-11.97	-12.66	0.00	-210.43	0.00	210.43	2918.00	689.29	1887.21	1974.40	28.21	-2.478	0.000	0.111
100.00	-10.97	-12.28	0.00	-172.46	0.00	172.46	2851.68	673.62	1802.40	1885.17	29.77	-2.508	0.000	0.096
101.00	-10.64	-12.15	0.00	-160.18	0.00	160.18	2372.90	569.89	1545.54	1593.20	30.30	-2.518	0.000	0.105
105.00	-9.97	-11.68	0.00	-111.57	0.00	111.57	2319.07	552.45	1452.42	1508.97	32.42	-2.549	0.000	0.079
110.00	-5.66	-7.19	0.00	-53.17	0.00	53.17	2246.46	530.66	1340.09	1403.50	35.11	-2.578	0.000	0.041
115.00	-4.96	-6.61	0.00	-17.24	0.00	17.24	2154.20	508.87	1232.27	1290.02	37.82	-2.592	0.000	0.016
117.00	-0.35	-0.50	0.00	-1.50	0.00	1.50	2117.29	500.15	1190.41	1245.97	38.90	-2.594	0.000	0.001
120.00	0.00	-0.48	0.00	0.00	0.00	0.00	2061.93	487.07	1128.98	1181.32	40.53	-2.595	0.000	0.000

Wind Loading - Shaft

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 15



Load Case: 0.9D + 1.0W 115 mph Wind

Iterations 19

Dead Load Factor 0.90
Wind Load Factor 1.00



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	27.155	29.87	501.84	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	27.155	29.87	490.67	0.806 *	0.000	5.00	23.482	18.93	565.6	0.0	1004.7
10.00		1.00	0.85	27.155	29.87	479.49	0.813 *	0.000	5.00	22.953	18.66	557.5	0.0	981.9
15.00		1.00	0.85	27.155	29.87	468.31	0.820 *	0.000	5.00	22.424	18.39	549.4	0.0	959.1
20.00		1.00	0.90	28.813	31.69	470.88	0.828 *	0.000	5.00	21.895	18.12	574.4	0.0	936.3
25.00		1.00	0.95	30.199	33.22	470.28	0.836 *	0.000	5.00	21.366	17.85	593.1	0.0	913.5
30.00		1.00	0.98	31.380	34.52	467.38	0.844 *	0.000	5.00	20.837	17.58	606.9	0.0	890.7
31.25	Bot - Section 2	1.00	0.99	31.651	34.82	466.38	0.849 *	0.000	1.25	5.127	4.35	151.6	0.0	219.1
35.00		1.00	1.01	32.415	35.66	462.82	0.854 *	0.000	3.75	15.420	13.16	469.3	0.0	1307.9
37.50	Top - Section 1	1.00	1.03	32.890	36.18	460.04	0.859 *	0.000	2.50	10.115	8.69	314.4	0.0	857.7
40.00		1.00	1.04	33.340	36.67	464.41	0.858 *	0.000	2.50	9.982	8.57	314.2	0.0	426.6
45.00		1.00	1.07	34.177	37.59	457.67	0.865 *	0.000	5.00	19.568	16.93	636.6	0.0	836.1
50.00		1.00	1.09	34.943	38.44	450.09	0.875 *	0.000	5.00	19.039	16.66	640.5	0.0	813.3
55.00		1.00	1.12	35.651	39.22	441.82	0.886 *	0.000	5.00	18.510	16.39	642.9	0.0	790.5
60.00		1.00	1.14	36.311	39.94	432.96	0.897 *	0.000	5.00	17.981	16.12	644.0	0.0	767.7
63.50	Bot - Section 3	1.00	1.15	36.747	40.42	426.45	0.907 *	0.000	3.50	12.272	11.13	449.7	0.0	523.8
65.00		1.00	1.16	36.928	40.62	423.59	0.913 *	0.000	1.50	5.275	4.81	195.6	0.0	446.3
68.75	Top - Section 2	1.00	1.17	37.366	41.10	416.27	0.919 *	0.000	3.75	12.980	11.93	490.4	0.0	1097.8
70.00		1.00	1.17	37.508	41.26	421.66	0.918 *	0.000	1.25	4.261	3.91	161.4	0.0	181.8
75.00		1.00	1.19	38.057	41.86	411.50	0.926 *	0.000	5.00	16.712	15.47	647.8	0.0	713.0
80.00		1.00	1.21	38.578	42.44	400.98	0.940 *	0.000	5.00	16.183	15.20	645.2	0.0	690.3
85.00		1.00	1.22	39.073	42.98	390.14	1.200 *	0.000	5.00	15.654	18.79	807.4	0.0	667.5
87.00	Appurtenance(s)	1.00	1.23	39.265	43.19	385.72	1.200 *	0.000	2.00	6.114	7.34	316.9	0.0	260.6
90.00		1.00	1.24	39.546	43.50	379.00	1.200 *	0.000	3.00	9.012	10.81	470.4	0.0	384.1
95.00		1.00	1.25	39.999	44.00	367.60	1.200 *	0.000	5.00	14.596	17.52	770.7	0.0	621.9
96.75	Bot - Section 4	1.00	1.26	40.153	44.17	363.55	1.200 *	0.000	1.75	4.984	5.98	264.2	0.0	212.3
97.00	Appurtenance(s)	1.00	1.26	40.175	44.19	362.97	1.200 *	0.000	0.25	0.720	0.86	38.2	0.0	55.7
100.00		1.00	1.27	40.433	44.48	355.95	0.903 *	0.000	3.00	8.536	7.71	342.9	0.0	660.8
101.00	Top - Section 3	1.00	1.27	40.518	44.57	353.60	0.909 *	0.000	1.00	2.803	2.55	113.6	0.0	216.9
105.00		1.00	1.28	40.851	44.94	350.94	0.909 *	0.000	4.00	11.001	10.00	449.4	0.0	391.7
110.00	Appurtenance(s)	1.00	1.29	41.253	45.38	338.89	0.923 *	0.000	5.00	13.275	12.26	556.3	0.0	472.5
115.00		1.00	1.30	41.641	45.80	326.64	0.941 *	0.000	5.00	12.746	11.99	549.1	0.0	453.5
117.00	Appurtenance(s)	1.00	1.31	41.792	45.97	321.68	1.200 *	0.000	2.00	4.950	5.94	273.1	0.0	176.1
120.00		1.00	1.32	42.015	46.22	314.20	1.200 *	0.000	3.00	7.267	8.72	403.0	0.0	258.4
Totals:									120.00			15,205.6		20,190.2

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 16



Load Case: 0.9D + 1.0W 115 mph Wind	Iterations 19
Dead Load Factor 0.90	
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	117.00	Samsung RF4439d-25A	3	41.867	46.054	0.76	0.90	4.24	201.69	0.000	1.000	195.32	0.00	195.32	
2	117.00	Andrew	3	41.792	45.971	0.65	0.80	16.60	110.11	0.000	0.000	763.20	0.00	0.00	
3	117.00	Lucent KS24019-L112A	1	41.792	45.971	0.80	0.80	0.11	4.50	0.000	0.000	5.15	0.00	0.00	
4	117.00	Commscope	6	41.867	46.054	0.75	0.90	36.08	235.71	0.000	1.000	1661.62	0.00	1661.62	
5	117.00	Sammsung MT6407-77A	3	41.867	46.054	0.63	0.90	8.86	214.38	0.000	1.000	408.22	0.00	408.22	
6	117.00	VZW MOD	1	41.792	45.971	1.00	1.00	26.01	1080.00	0.000	0.000	1195.71	0.00	0.00	
7	117.00	Raycap	1	41.867	46.054	1.00	1.00	1.73	28.80	0.000	1.000	79.67	0.00	79.67	
8	117.00	Low Profile Platform-round	1	41.792	45.971	1.00	1.00	22.00	1350.00	0.000	0.000	1011.36	0.00	0.00	
9	117.00	Kaelus KA-6030[Filter]	2	41.792	45.971	0.66	0.80	1.26	31.68	0.000	0.000	57.90	0.00	0.00	
10	117.00	Samsung RF4440d-13A	3	41.867	46.054	0.72	0.90	4.04	189.89	0.000	1.000	186.02	0.00	186.02	
11	110.00	4460 B25 + B66	3	41.253	45.378	0.50	0.75	2.47	194.40	0.000	0.000	112.19	0.00	0.00	
12	110.00	APXVAALL24_43-U-NA20	3	41.253	45.378	0.55	0.75	33.24	331.56	0.000	0.000	1508.55	0.00	0.00	
13	110.00	AIR6419 B41	3	41.253	45.378	0.53	0.75	9.03	278.10	0.000	0.000	409.58	0.00	0.00	
14	110.00	4449 B71 + B85	3	41.253	45.378	0.50	0.75	2.97	197.64	0.000	0.000	134.76	0.00	0.00	
15	110.00	KRY 112 489/2	6	41.253	45.378	0.50	0.75	0.03	0.54	0.000	0.000	1.37	0.00	0.00	
16	110.00	Low profile	1	41.253	45.378	1.00	1.00	22.00	1350.00	0.000	0.000	998.31	0.00	0.00	
17	110.00	KRY 112 144/1	3	41.253	45.378	0.50	0.75	0.62	29.70	0.000	0.000	28.05	0.00	0.00	
18	110.00	MS-KI22-5 (Kickers w/o	1	41.253	45.378	1.00	1.00	5.33	131.40	0.000	0.000	241.86	0.00	0.00	
19	110.00	HRK12 (handrail kit)	1	41.253	45.378	1.00	1.00	6.75	235.55	0.000	0.000	306.30	0.00	0.00	
20	97.00	MX08FRO665-21	3	40.175	44.192	0.55	0.75	20.80	174.15	0.000	0.000	919.01	0.00	0.00	
21	97.00	RDIDC-9181-PF-48	1	40.175	44.192	0.75	0.75	1.51	19.71	0.000	0.000	66.62	0.00	0.00	
22	97.00	TA08025-B604	3	40.175	44.192	0.50	0.75	2.95	172.53	0.000	0.000	130.57	0.00	0.00	
23	97.00	TA08025-B605	3	40.175	44.192	0.50	0.75	2.95	202.50	0.000	0.000	130.57	0.00	0.00	
24	97.00	MC-PK8-DSH	1	40.175	44.192	1.00	1.00	22.94	1554.30	0.000	0.000	1013.77	0.00	0.00	
25	87.00	TT19-08BP111-001	6	39.265	43.191	0.68	0.75	2.59	86.40	0.000	0.000	111.95	0.00	0.00	
26	87.00	HRK12 (Handrail Kit)	1	39.265	43.191	1.00	1.00	6.75	235.55	0.000	0.000	291.54	0.00	0.00	
27	87.00	LGP21903	6	39.265	43.191	0.63	0.75	1.02	29.70	0.000	0.000	44.08	0.00	0.00	
28	87.00	PRK-1245 (kicker kit)	1	39.265	43.191	1.00	1.00	9.50	418.42	0.000	0.000	410.32	0.00	0.00	
29	87.00	Low Profile	1	39.265	43.191	1.00	1.00	22.00	1350.00	0.000	0.000	950.21	0.00	0.00	
30	87.00	800 10966	3	39.265	43.191	0.54	0.75	28.12	339.39	0.000	0.000	1214.68	0.00	0.00	
31	87.00	DC6-48-60-18-8F(23.5"	1	39.265	43.191	1.00	1.00	1.26	18.00	0.000	0.000	54.42	0.00	0.00	
32	87.00	B2 B66A 8843	3	39.265	43.191	0.64	0.75	3.14	189.00	0.000	0.000	135.47	0.00	0.00	
33	87.00	4449 B5/B12	3	39.265	43.191	0.65	0.75	3.81	191.70	0.000	0.000	164.64	0.00	0.00	
34	87.00	DC6-48-60-18-8C	1	39.265	43.191	1.00	1.00	1.26	18.00	0.000	0.000	54.42	0.00	0.00	
35	87.00	7770.00	3	39.265	43.191	0.55	0.75	9.03	94.50	0.000	0.000	390.18	0.00	0.00	
36	87.00	HPA-65R-BUU-H8	3	39.265	43.191	0.59	0.75	23.07	183.60	0.000	0.000	996.51	0.00	0.00	
Totals:									11,473.09						16,384.14

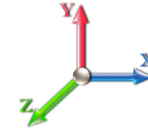
Total Applied Force Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 17



Load Case: 0.9D + 1.0W 115 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 19

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		565.58	1246.77	0.00	0.00
10.00		557.51	1223.99	0.00	0.00
15.00		549.43	1201.20	0.00	0.00
20.00		574.40	1178.42	0.00	0.00
25.00		593.06	1155.64	0.00	0.00
30.00		606.93	1132.86	0.00	0.00
31.25		151.57	279.65	0.00	0.00
35.00		469.33	1489.51	0.00	0.00
37.50		314.44	978.77	0.00	0.00
40.00		314.24	547.63	0.00	0.00
45.00		636.63	1078.18	0.00	0.00
50.00		640.52	1055.40	0.00	0.00
55.00		642.91	1032.62	0.00	0.00
60.00		644.00	1009.83	0.00	0.00
63.50		449.71	693.33	0.00	0.00
65.00		195.56	518.91	0.00	0.00
68.75		490.41	1279.34	0.00	0.00
70.00		161.36	242.35	0.00	0.00
75.00		647.82	955.16	0.00	0.00
80.00		645.21	932.38	0.00	0.00
85.00		970.72	909.59	0.00	0.00
87.00	(32) attachments	5200.95	3511.72	0.00	0.00
90.00		569.60	479.92	0.00	0.00
95.00		937.17	781.63	0.00	0.00
96.75		322.56	268.19	0.00	0.00
97.00	(11) attachments	2307.08	2186.92	0.00	0.00
100.00		342.88	753.92	0.00	0.00
101.00		113.58	247.96	0.00	0.00
105.00		449.41	515.88	0.00	0.00
110.00	(24) attachments	4297.23	3376.62	0.00	0.00
115.00		549.11	547.15	0.00	0.00
117.00	(24) attachments	5890.95	3660.29	0.00	2530.85
120.00		483.75	277.77	0.00	0.00
	Totals:	32,285.60	36,749.52	0.00	2,530.85

Linear Appurtenance Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



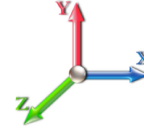
Page: 18

Load Case: 0.9D + 1.0W 115 mph Wind

Iterations 19

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)
5.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.135	1.105	27.155	0.00	31.05
5.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.135	1.105	27.155	0.00	1.23
5.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.135	1.105	27.155	0.00	4.50
10.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.114	27.155	0.00	31.05
10.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.114	27.155	0.00	1.23
10.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.138	1.114	27.155	0.00	4.50
15.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.141	1.124	27.155	0.00	31.05
15.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.141	1.124	27.155	0.00	1.23
15.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.141	1.124	27.155	0.00	4.50
20.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.145	1.134	28.813	0.00	31.05
20.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.145	1.134	28.813	0.00	1.23
20.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.145	1.134	28.813	0.00	4.50
25.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.148	1.145	30.199	0.00	31.05
25.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.148	1.145	30.199	0.00	1.23
25.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.148	1.145	30.199	0.00	4.50
30.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.152	1.156	31.380	0.00	31.05
30.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.152	1.156	31.380	0.00	1.23
30.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.152	1.156	31.380	0.00	4.50
31.25	Climbing Ladder	Yes	1.25	0.000	3.00	0.31	0.00	0.154	1.163	31.651	0.00	7.76
31.25	Safety Cable	Yes	1.25	0.000	3.00	0.31	0.00	0.154	1.163	31.651	0.00	0.31
31.25	1.6" Hybrid	Yes	1.25	0.000	1.60	0.17	0.00	0.154	1.163	31.651	0.00	1.13
35.00	Climbing Ladder	Yes	3.75	0.000	3.00	0.94	0.00	0.156	1.169	32.415	0.00	23.29
35.00	Safety Cable	Yes	3.75	0.000	3.00	0.94	0.00	0.156	1.169	32.415	0.00	0.92
35.00	1.6" Hybrid	Yes	3.75	0.000	1.60	0.50	0.00	0.156	1.169	32.415	0.00	3.38
37.50	Climbing Ladder	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.177	32.890	0.00	15.53
37.50	Safety Cable	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.177	32.890	0.00	0.61
37.50	1.6" Hybrid	Yes	2.50	0.000	1.60	0.33	0.00	0.159	1.177	32.890	0.00	2.25
40.00	Climbing Ladder	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.176	33.340	0.00	15.53
40.00	Safety Cable	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.176	33.340	0.00	0.61
40.00	1.6" Hybrid	Yes	2.50	0.000	1.60	0.33	0.00	0.159	1.176	33.340	0.00	2.25
45.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.162	1.185	34.177	0.00	31.05
45.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.162	1.185	34.177	0.00	1.23
45.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.162	1.185	34.177	0.00	4.50
50.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.166	1.199	34.943	0.00	31.05
50.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.166	1.199	34.943	0.00	1.23
50.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.166	1.199	34.943	0.00	4.50
55.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.171	1.213	35.651	0.00	31.05
55.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.171	1.213	35.651	0.00	1.23
55.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.171	1.213	35.651	0.00	4.50
60.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.176	1.228	36.311	0.00	31.05
60.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.176	1.228	36.311	0.00	1.23
60.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.176	1.228	36.311	0.00	4.50
63.50	Climbing Ladder	Yes	3.50	0.000	3.00	0.88	0.00	0.181	1.242	36.747	0.00	21.74
63.50	Safety Cable	Yes	3.50	0.000	3.00	0.88	0.00	0.181	1.242	36.747	0.00	0.86
63.50	1.6" Hybrid	Yes	3.50	0.000	1.60	0.47	0.00	0.181	1.242	36.747	0.00	3.15
65.00	Climbing Ladder	Yes	1.50	0.000	3.00	0.38	0.00	0.183	1.250	36.928	0.00	9.32
65.00	Safety Cable	Yes	1.50	0.000	3.00	0.38	0.00	0.183	1.250	36.928	0.00	0.37

Linear Appurtenance Segment Forces (Factored)

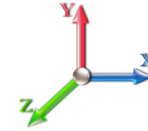
Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 19

Load Case: 0.9D + 1.0W 115 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 19

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)
65.00	1.6" Hybrid	Yes	1.50	0.000	1.60	0.20	0.00	0.183	1.250	36.928	0.00	1.35
68.75	Climbing Ladder	Yes	3.75	0.000	3.00	0.94	0.00	0.186	1.259	37.366	0.00	23.29
68.75	Safety Cable	Yes	3.75	0.000	3.00	0.94	0.00	0.186	1.259	37.366	0.00	0.92
68.75	1.6" Hybrid	Yes	3.75	0.000	1.60	0.50	0.00	0.186	1.259	37.366	0.00	3.38
70.00	Climbing Ladder	Yes	1.25	0.000	3.00	0.31	0.00	0.186	1.257	37.508	0.00	7.76
70.00	Safety Cable	Yes	1.25	0.000	3.00	0.31	0.00	0.186	1.257	37.508	0.00	0.31
70.00	1.6" Hybrid	Yes	1.25	0.000	1.60	0.17	0.00	0.186	1.257	37.508	0.00	1.13
75.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.189	1.268	38.057	0.00	31.05
75.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.189	1.268	38.057	0.00	1.23
75.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.189	1.268	38.057	0.00	4.50
80.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.287	38.578	0.00	31.05
80.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.287	38.578	0.00	1.23
80.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.196	1.287	38.578	0.00	4.50
85.00	Climbing Ladder	Yes	5.00	1.200	3.00	1.25	1.50	0.202	0.000	39.073	64.47	31.05
85.00	Safety Cable	Yes	5.00	1.200	3.00	1.25	1.50	0.202	0.000	39.073	64.47	1.23
85.00	1.6" Hybrid	Yes	5.00	1.200	1.60	0.67	0.80	0.202	0.000	39.073	34.38	4.50
87.00	Climbing Ladder	Yes	2.00	1.200	3.00	0.50	0.60	0.207	0.000	39.265	25.91	12.42
87.00	Safety Cable	Yes	2.00	1.200	3.00	0.50	0.60	0.207	0.000	39.265	25.91	0.49
87.00	1.6" Hybrid	Yes	2.00	1.200	1.60	0.27	0.32	0.207	0.000	39.265	13.82	1.80
90.00	Climbing Ladder	Yes	3.00	1.200	3.00	0.75	0.90	0.211	0.000	39.546	39.15	18.63
90.00	Safety Cable	Yes	3.00	1.200	3.00	0.75	0.90	0.211	0.000	39.546	39.15	0.74
90.00	1.6" Hybrid	Yes	3.00	1.200	1.60	0.40	0.48	0.211	0.000	39.546	20.88	2.70
95.00	Climbing Ladder	Yes	5.00	1.194	3.00	1.25	1.49	0.217	0.000	39.999	65.65	31.05
95.00	Safety Cable	Yes	5.00	1.194	3.00	1.25	1.49	0.217	0.000	39.999	65.65	1.23
95.00	1.6" Hybrid	Yes	5.00	1.200	1.60	0.67	0.80	0.217	0.000	39.999	35.20	4.50
96.75	Climbing Ladder	Yes	1.75	1.191	3.00	0.44	0.52	0.222	0.000	40.153	23.02	10.87
96.75	Safety Cable	Yes	1.75	1.191	3.00	0.44	0.52	0.222	0.000	40.153	23.02	0.43
96.75	1.6" Hybrid	Yes	1.75	1.200	1.60	0.23	0.28	0.222	0.000	40.153	12.37	1.57
97.00	Climbing Ladder	Yes	0.25	1.191	3.00	0.06	0.07	0.224	0.000	40.175	3.29	1.55
97.00	Safety Cable	Yes	0.25	1.191	3.00	0.06	0.07	0.224	0.000	40.175	3.29	0.06
97.00	1.6" Hybrid	Yes	0.25	1.200	1.60	0.03	0.04	0.224	0.000	40.175	1.77	0.23
100.00	Climbing Ladder	Yes	3.00	0.000	3.00	0.75	0.00	0.179	1.237	40.433	0.00	18.63
100.00	Safety Cable	Yes	3.00	0.000	3.00	0.75	0.00	0.179	1.237	40.433	0.00	0.74
101.00	Climbing Ladder	Yes	1.00	0.000	3.00	0.25	0.00	0.182	1.245	40.518	0.00	6.21
101.00	Safety Cable	Yes	1.00	0.000	3.00	0.25	0.00	0.182	1.245	40.518	0.00	0.25
105.00	Climbing Ladder	Yes	4.00	0.000	3.00	1.00	0.00	0.182	1.245	40.851	0.00	24.84
105.00	Safety Cable	Yes	4.00	0.000	3.00	1.00	0.00	0.182	1.245	40.851	0.00	0.98
110.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.188	1.265	41.253	0.00	31.05
110.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.188	1.265	41.253	0.00	1.23
115.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.288	41.641	0.00	31.05
115.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.288	41.641	0.00	1.23
117.00	Climbing Ladder	Yes	2.00	1.168	3.00	0.50	0.58	0.202	0.000	41.792	26.84	12.42
117.00	Safety Cable	Yes	2.00	1.168	3.00	0.50	0.58	0.202	0.000	41.792	26.84	0.49
120.00	Climbing Ladder	Yes	3.00	1.165	3.00	0.75	0.87	0.206	0.000	42.015	40.37	18.63
120.00	Safety Cable	Yes	3.00	1.165	3.00	0.75	0.87	0.206	0.000	42.015	40.37	0.74
Totals:											695.8	862.0

Calculated Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 20
	Struct Class: II	

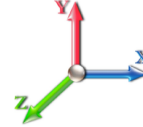


Load Case: 0.9D + 1.0W 115 mph Wind

Iterations 19

Dead Load Factor 0.90

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.71	-32.33	0.00	-2791.4	0.00	2791.41	4300.95	1164.51	5386.47	4939.14	0.00	0.000	0.000	0.574
5.00	-35.38	-31.86	0.00	-2629.7	0.00	2629.75	4244.87	1138.40	5147.62	4764.71	0.08	-0.148	0.000	0.561
10.00	-34.07	-31.39	0.00	-2470.4	0.00	2470.46	4186.94	1112.29	4914.19	4591.15	0.32	-0.297	0.000	0.547
15.00	-32.80	-30.91	0.00	-2313.5	0.00	2313.54	4127.16	1086.18	4686.18	4418.62	0.71	-0.447	0.000	0.532
20.00	-31.54	-30.41	0.00	-2158.9	0.00	2158.97	4065.53	1060.07	4463.58	4247.25	1.26	-0.597	0.000	0.517
25.00	-30.32	-29.89	0.00	-2006.9	0.00	2006.91	4002.04	1033.96	4246.40	4077.19	1.97	-0.748	0.000	0.501
30.00	-29.14	-29.31	0.00	-1857.4	0.00	1857.49	3936.71	1007.85	4034.64	3908.58	2.83	-0.899	0.000	0.483
31.25	-28.83	-29.19	0.00	-1820.8	0.00	1820.86	3920.09	1001.32	3982.54	3866.68	3.07	-0.937	0.000	0.479
35.00	-27.30	-28.74	0.00	-1711.3	0.00	1711.39	3869.52	981.74	3828.29	3741.57	3.85	-1.051	0.000	0.465
37.50	-26.29	-28.44	0.00	-1639.5	0.00	1639.53	3876.32	984.35	3848.67	3758.20	4.43	-1.128	0.000	0.444
40.00	-25.69	-28.17	0.00	-1568.4	0.00	1568.42	3842.13	971.29	3747.26	3675.25	5.04	-1.204	0.000	0.434
45.00	-24.56	-27.57	0.00	-1427.5	0.00	1427.59	3772.35	945.18	3548.49	3510.72	6.38	-1.345	0.000	0.414
50.00	-23.46	-26.96	0.00	-1289.7	0.00	1289.75	3700.72	919.07	3355.15	3348.13	7.86	-1.483	0.000	0.392
55.00	-22.38	-26.34	0.00	-1154.9	0.00	1154.97	3627.24	892.96	3167.21	3187.63	9.49	-1.619	0.000	0.369
60.00	-21.34	-25.71	0.00	-1023.2	0.00	1023.27	3551.90	866.85	2984.69	3029.36	11.25	-1.751	0.000	0.345
63.50	-20.64	-25.26	0.00	-933.30	0.00	933.30	3498.07	848.57	2860.16	2919.97	12.57	-1.842	0.000	0.326
65.00	-20.09	-25.07	0.00	-895.41	0.00	895.41	3474.72	840.74	2807.59	2873.46	13.16	-1.880	0.000	0.318
68.75	-18.81	-24.56	0.00	-801.40	0.00	801.40	3462.98	836.82	2781.49	2850.29	14.67	-1.973	0.000	0.287
70.00	-18.54	-24.41	0.00	-770.71	0.00	770.71	3443.33	830.29	2738.27	2811.80	15.19	-2.003	0.000	0.280
75.00	-17.57	-23.76	0.00	-648.66	0.00	648.66	3363.55	804.18	2568.75	2659.47	17.35	-2.110	0.000	0.250
80.00	-16.62	-23.11	0.00	-529.87	0.00	529.87	3281.92	778.07	2404.65	2509.86	19.62	-2.208	0.000	0.217
85.00	-15.73	-22.12	0.00	-414.34	0.00	414.34	3183.29	751.96	2245.96	2351.92	21.98	-2.294	0.000	0.182
87.00	-12.42	-16.79	0.00	-370.11	0.00	370.11	3139.07	741.51	2184.00	2286.71	22.94	-2.326	0.000	0.166
90.00	-11.95	-16.21	0.00	-319.75	0.00	319.75	3072.75	725.85	2092.69	2190.61	24.42	-2.370	0.000	0.150
95.00	-11.19	-15.25	0.00	-238.71	0.00	238.71	2962.22	699.74	1944.84	2035.03	26.94	-2.433	0.000	0.122
96.75	-10.94	-14.92	0.00	-212.03	0.00	212.03	2923.53	690.60	1894.37	1981.93	27.83	-2.453	0.000	0.111
97.00	-8.85	-12.52	0.00	-208.30	0.00	208.30	2918.00	689.29	1887.21	1974.40	27.96	-2.455	0.000	0.109
100.00	-8.11	-12.15	0.00	-170.74	0.00	170.74	2851.68	673.62	1802.40	1885.17	29.51	-2.485	0.000	0.094
101.00	-7.86	-12.03	0.00	-158.59	0.00	158.59	2372.90	569.89	1545.54	1593.20	30.04	-2.495	0.000	0.103
105.00	-7.36	-11.56	0.00	-110.49	0.00	110.49	2319.07	552.45	1452.42	1508.97	32.14	-2.526	0.000	0.077
110.00	-4.17	-7.12	0.00	-52.69	0.00	52.69	2246.46	530.66	1340.09	1403.50	34.80	-2.555	0.000	0.040
115.00	-3.65	-6.54	0.00	-17.11	0.00	17.11	2154.20	508.87	1232.27	1290.02	37.49	-2.569	0.000	0.015
117.00	-0.26	-0.50	0.00	-1.49	0.00	1.49	2117.29	500.15	1190.41	1245.97	38.56	-2.571	0.000	0.001
120.00	0.00	-0.48	0.00	0.00	0.00	0.00	2061.93	487.07	1128.98	1181.32	40.18	-2.571	0.000	0.000

Wind Loading - Shaft

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 21



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

Iterations 19

Dead Load Factor 1.20

Wind Load Factor 1.00



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	5.133	5.65	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.133	5.65	0.00	1.325 *	1.242	5.00	24.517	32.50	183.5	436.6	1776.2
10.00		1.00	0.85	5.133	5.65	0.00	1.337 *	1.331	5.00	24.062	32.16	181.6	458.3	1767.4
15.00		1.00	0.85	5.133	5.65	0.00	1.348 *	1.386	5.00	23.579	31.79	179.5	466.9	1745.6
20.00		1.00	0.90	5.447	5.99	0.00	1.361 *	1.427	5.00	23.084	31.41	188.2	469.7	1718.1
25.00		1.00	0.95	5.709	6.28	0.00	1.374 *	1.459	5.00	22.582	31.02	194.8	469.1	1687.2
30.00		1.00	0.98	5.932	6.53	0.00	1.387 *	1.486	5.00	22.075	30.62	199.8	466.4	1654.0
31.25	Bot - Section 2	1.00	0.99	5.983	6.58	0.00	1.396 *	1.492	1.25	5.437	7.59	50.0	116.4	408.5
35.00		1.00	1.01	6.128	6.74	0.00	1.403 *	1.509	3.75	16.363	22.96	154.8	351.8	2095.7
37.50	Top - Section 1	1.00	1.03	6.217	6.84	0.00	1.413 *	1.519	2.50	10.748	15.18	103.8	233.2	1376.9
40.00		1.00	1.04	6.302	6.93	0.00	1.411 *	1.529	2.50	10.619	14.98	103.9	231.8	800.6
45.00		1.00	1.07	6.461	7.11	0.00	1.423 *	1.547	5.00	20.857	29.67	210.9	457.2	1571.9
50.00		1.00	1.09	6.606	7.27	0.00	1.439 *	1.564	5.00	20.342	29.27	212.7	449.9	1534.3
55.00		1.00	1.12	6.739	7.41	0.00	1.456 *	1.579	5.00	19.826	28.86	214.0	442.0	1496.0
60.00		1.00	1.14	6.864	7.55	0.00	1.474 *	1.592	5.00	19.308	28.46	214.9	433.5	1457.1
63.50	Bot - Section 3	1.00	1.15	6.946	7.64	0.00	1.490 *	1.601	3.50	13.206	19.68	150.4	299.1	997.6
65.00		1.00	1.16	6.981	7.68	0.00	1.500 *	1.605	1.50	5.677	8.52	65.4	129.6	724.7
68.75	Top - Section 2	1.00	1.17	7.064	7.77	0.00	1.511 *	1.614	3.75	13.989	21.14	164.2	318.9	1782.5
70.00		1.00	1.17	7.090	7.80	0.00	1.509 *	1.617	1.25	4.598	6.94	54.1	105.7	348.1
75.00		1.00	1.19	7.194	7.91	0.00	1.522 *	1.628	5.00	18.069	27.50	217.7	413.0	1363.8
80.00		1.00	1.21	7.293	8.02	0.00	1.544 *	1.639	5.00	17.549	27.10	217.4	403.0	1323.3
85.00		1.00	1.22	7.386	8.12	0.00	1.200 *	1.649	5.00	17.028	20.43	166.0	392.6	1282.6
87.00	Appurtenance(s)	1.00	1.23	7.422	8.16	0.00	1.200 *	1.653	2.00	6.664	8.00	65.3	155.4	502.8
90.00		1.00	1.24	7.476	8.22	0.00	1.200 *	1.658	3.00	9.841	11.81	97.1	229.2	741.3
95.00		1.00	1.25	7.561	8.32	0.00	1.200 *	1.667	5.00	15.986	19.18	159.6	371.1	1200.3
96.75	Bot - Section 4	1.00	1.26	7.590	8.35	0.00	1.200 *	1.670	1.75	5.471	6.57	54.8	128.5	411.6
97.00	Appurtenance(s)	1.00	1.26	7.594	8.35	0.00	1.200 *	1.671	0.25	0.790	0.95	7.9	18.7	93.0
100.00		1.00	1.27	7.643	8.41	0.00	1.485 *	1.676	3.00	9.374	13.92	117.0	219.9	1101.0
101.00	Top - Section 3	1.00	1.27	7.659	8.43	0.00	1.495 *	1.678	1.00	3.083	4.61	38.8	72.9	362.1
105.00		1.00	1.28	7.722	8.49	0.00	1.495 *	1.684	4.00	12.123	18.12	153.9	284.2	806.4
110.00	Appurtenance(s)	1.00	1.29	7.798	8.58	0.00	1.518 *	1.692	5.00	14.685	22.29	191.2	343.7	973.7
115.00		1.00	1.30	7.872	8.66	0.00	1.546 *	1.699	5.00	14.162	21.90	189.6	332.0	936.7
117.00	Appurtenance(s)	1.00	1.31	7.900	8.69	0.00	1.200 *	1.702	2.00	5.518	6.62	57.5	130.9	365.7
120.00		1.00	1.32	7.942	8.74	0.00	1.200 *	1.707	3.00	8.120	9.74	85.1	192.1	536.6
Totals:									120.00			4,645.3		36,943.3

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 22



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind **Iterations** 19

Dead Load Factor 1.20

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	117.00	Samsung RF4439d-25A	3	7.914	8.706	0.77	0.90	5.51	426.99	0.000	1.000	47.95	0.00	47.95	
2	117.00	Andrew	3	7.900	8.690	0.66	0.80	19.28	564.69	0.000	0.000	167.54	0.00	0.00	
3	117.00	Lucent KS24019-L112A	1	7.900	8.690	0.80	0.80	0.26	-1.69	0.000	0.000	2.26	0.00	0.00	
4	117.00	Commscope	6	7.914	8.706	0.76	0.90	42.06	1144.04	0.000	1.000	366.16	0.00	366.16	
5	117.00	Sammsung MT6407-77A	3	7.914	8.706	0.64	0.90	10.67	537.45	0.000	1.000	92.93	0.00	92.93	
6	117.00	VZW MOD	1	7.900	8.690	1.00	1.00	46.38	1861.43	0.000	0.000	403.04	0.00	0.00	
7	117.00	Raycap	1	7.914	8.706	1.00	1.00	2.24	90.71	0.000	1.000	19.53	0.00	19.53	
8	117.00	Low Profile Platform-round	1	7.900	8.690	1.00	1.00	39.23	2776.79	0.000	0.000	340.90	0.00	0.00	
9	117.00	Kaelus KA-6030[Filter]	2	7.900	8.690	0.67	0.80	1.81	11.41	0.000	0.000	15.74	0.00	0.00	
10	117.00	Samsung RF4440d-13A	3	7.914	8.706	0.74	0.90	5.31	394.10	0.000	1.000	46.25	0.00	46.25	
11	110.00	4460 B25 + B66	3	7.798	8.578	0.50	0.75	3.20	359.44	0.000	0.000	27.44	0.00	0.00	
12	110.00	APXVAALL24_43-U-NA20	3	7.798	8.578	0.55	0.75	36.27	1681.26	0.000	0.000	311.10	0.00	0.00	
13	110.00	AIR6419 B41	3	7.798	8.578	0.53	0.75	10.50	674.49	0.000	0.000	90.05	0.00	0.00	
14	110.00	4449 B71 + B85	3	7.798	8.578	0.50	0.75	3.80	256.26	0.000	0.000	32.61	0.00	0.00	
15	110.00	KRY 112 489/2	6	7.798	8.578	0.50	0.75	0.03	1.32	0.000	0.000	0.26	0.00	0.00	
16	110.00	Low profile	1	7.798	8.578	1.00	1.00	36.89	2622.73	0.000	0.000	316.43	0.00	0.00	
17	110.00	KRY 112 144/1	3	7.798	8.578	0.50	0.75	1.31	61.66	0.000	0.000	11.26	0.00	0.00	
18	110.00	MS-KI22-5 (Kickers w/o	1	7.798	8.578	1.00	1.00	8.94	469.41	0.000	0.000	76.66	0.00	0.00	
19	110.00	HRK12 (handrail kit)	1	7.798	8.578	1.00	1.00	11.32	-1358.53	0.000	0.000	97.09	0.00	0.00	
20	97.00	MX08FRO665-21	3	7.594	8.354	0.55	0.75	23.13	865.99	0.000	0.000	193.23	0.00	0.00	
21	97.00	RDIDC-9181-PF-48	1	7.594	8.354	0.75	0.75	1.92	64.56	0.000	0.000	16.00	0.00	0.00	
22	97.00	TA08025-B604	3	7.594	8.354	0.50	0.75	3.76	339.15	0.000	0.000	31.45	0.00	0.00	
23	97.00	TA08025-B605	3	7.594	8.354	0.50	0.75	3.76	382.42	0.000	0.000	31.45	0.00	0.00	
24	97.00	MC-PK8-DSH	1	7.594	8.354	1.00	1.00	38.27	3430.65	0.000	0.000	319.71	0.00	0.00	
25	87.00	TT19-08BP111-001	6	7.422	8.165	0.69	0.75	4.97	195.40	0.000	0.000	40.61	0.00	0.00	
26	87.00	HRK12 (Handrail Kit)	1	7.422	8.165	1.00	1.00	13.00	869.91	0.000	0.000	106.12	0.00	0.00	
27	87.00	LGP21903	6	7.422	8.165	0.65	0.75	2.50	73.09	0.000	0.000	20.43	0.00	0.00	
28	87.00	PRK-1245 (kicker kit)	1	7.422	8.165	1.00	1.00	18.92	770.14	0.000	0.000	154.48	0.00	0.00	
29	87.00	Low Profile	1	7.422	8.165	1.00	1.00	38.73	2739.52	0.000	0.000	316.18	0.00	0.00	
30	87.00	800 10966	3	7.422	8.165	0.55	0.75	31.75	1460.79	0.000	0.000	259.21	0.00	0.00	
31	87.00	DC6-48-60-18-8F(23.5"	1	7.422	8.165	1.00	1.00	1.88	58.86	0.000	0.000	15.39	0.00	0.00	
32	87.00	B2 B66A 8843	3	7.422	8.165	0.65	0.75	4.17	348.74	0.000	0.000	34.03	0.00	0.00	
33	87.00	4449 B5/B12	3	7.422	8.165	0.66	0.75	4.93	366.45	0.000	0.000	40.23	0.00	0.00	
34	87.00	DC6-48-60-18-8C	1	7.422	8.165	1.00	1.00	1.88	58.86	0.000	0.000	15.39	0.00	0.00	
35	87.00	7770.00	3	7.422	8.165	0.56	0.75	10.98	505.40	0.000	0.000	89.63	0.00	0.00	
36	87.00	HPA-65R-BUU-H8	3	7.422	8.165	0.61	0.75	26.43	1064.43	0.000	0.000	215.83	0.00	0.00	
Totals:									26,168.32						4,364.56

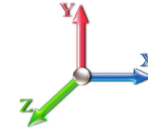
Total Applied Force Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 23



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 19

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		183.50	2156.18	0.00	0.00
10.00		181.61	2153.37	0.00	0.00
15.00		179.53	2135.38	0.00	0.00
20.00		188.19	2110.68	0.00	0.00
25.00		194.77	2082.09	0.00	0.00
30.00		199.81	2050.92	0.00	0.00
31.25		49.96	507.86	0.00	0.00
35.00		154.76	2394.68	0.00	0.00
37.50		103.83	1576.55	0.00	0.00
40.00		103.88	1000.64	0.00	0.00
45.00		210.86	1973.42	0.00	0.00
50.00		212.66	1937.05	0.00	0.00
55.00		213.98	1899.91	0.00	0.00
60.00		214.89	1862.13	0.00	0.00
63.50		150.38	1281.55	0.00	0.00
65.00		65.39	846.46	0.00	0.00
68.75		164.24	2087.54	0.00	0.00
70.00		54.11	449.85	0.00	0.00
75.00		217.65	1771.57	0.00	0.00
80.00		217.42	1731.97	0.00	0.00
85.00		237.09	1692.02	0.00	0.00
87.00	(32) attachments	1401.42	9178.33	0.00	0.00
90.00		140.40	921.49	0.00	0.00
95.00		232.76	1501.35	0.00	0.00
96.75		80.56	517.03	0.00	0.00
97.00	(11) attachments	603.44	5190.83	0.00	0.00
100.00		117.01	1261.22	0.00	0.00
101.00		38.82	415.52	0.00	0.00
105.00		153.91	1020.46	0.00	0.00
110.00	(24) attachments	1154.11	6009.70	0.00	0.00
115.00		189.59	1122.94	0.00	0.00
117.00	(24) attachments	1582.10	8246.17	0.00	572.82
120.00		118.75	599.52	0.00	0.00
	Totals:	9,311.35	71,686.37	0.00	572.82

Linear Appurtenance Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



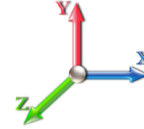
Page: 24

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

Iterations 19

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)
5.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.29	0.00	0.135	1.105	5.133	0.00	69.07
5.00	Safety Cable	Yes	5.00	0.000	3.00	2.29	0.00	0.135	1.105	5.133	0.00	12.93
5.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.70	0.00	0.135	1.105	5.133	0.00	24.22
10.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.36	0.00	0.138	1.114	5.133	0.00	71.51
10.00	Safety Cable	Yes	5.00	0.000	3.00	2.36	0.00	0.138	1.114	5.133	0.00	14.46
10.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.78	0.00	0.138	1.114	5.133	0.00	26.18
15.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.41	0.00	0.141	1.124	5.133	0.00	73.07
15.00	Safety Cable	Yes	5.00	0.000	3.00	2.41	0.00	0.141	1.124	5.133	0.00	15.46
15.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.82	0.00	0.141	1.124	5.133	0.00	27.43
20.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.44	0.00	0.145	1.134	5.447	0.00	74.24
20.00	Safety Cable	Yes	5.00	0.000	3.00	2.44	0.00	0.145	1.134	5.447	0.00	16.21
20.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.86	0.00	0.145	1.134	5.447	0.00	28.38
25.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.47	0.00	0.148	1.145	5.709	0.00	75.18
25.00	Safety Cable	Yes	5.00	0.000	3.00	2.47	0.00	0.148	1.145	5.709	0.00	16.83
25.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.88	0.00	0.148	1.145	5.709	0.00	29.15
30.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.49	0.00	0.152	1.156	5.932	0.00	75.97
30.00	Safety Cable	Yes	5.00	0.000	3.00	2.49	0.00	0.152	1.156	5.932	0.00	17.35
30.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.90	0.00	0.152	1.156	5.932	0.00	29.80
31.25	Climbing Ladder	Yes	1.25	0.000	3.00	0.62	0.00	0.154	1.163	5.983	0.00	19.04
31.25	Safety Cable	Yes	1.25	0.000	3.00	0.62	0.00	0.154	1.163	5.983	0.00	4.37
31.25	1.6" Hybrid	Yes	1.25	0.000	1.60	0.48	0.00	0.154	1.163	5.983	0.00	7.49
35.00	Climbing Ladder	Yes	3.75	0.000	3.00	1.88	0.00	0.156	1.169	6.128	0.00	57.50
35.00	Safety Cable	Yes	3.75	0.000	3.00	1.88	0.00	0.156	1.169	6.128	0.00	13.35
35.00	1.6" Hybrid	Yes	3.75	0.000	1.60	1.44	0.00	0.156	1.169	6.128	0.00	22.77
37.50	Climbing Ladder	Yes	2.50	0.000	3.00	1.26	0.00	0.159	1.177	6.217	0.00	38.49
37.50	Safety Cable	Yes	2.50	0.000	3.00	1.26	0.00	0.159	1.177	6.217	0.00	9.01
37.50	1.6" Hybrid	Yes	2.50	0.000	1.60	0.97	0.00	0.159	1.177	6.217	0.00	15.31
40.00	Climbing Ladder	Yes	2.50	0.000	3.00	1.26	0.00	0.159	1.176	6.302	0.00	38.64
40.00	Safety Cable	Yes	2.50	0.000	3.00	1.26	0.00	0.159	1.176	6.302	0.00	9.11
40.00	1.6" Hybrid	Yes	2.50	0.000	1.60	0.97	0.00	0.159	1.176	6.302	0.00	15.43
45.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.54	0.00	0.162	1.185	6.461	0.00	77.83
45.00	Safety Cable	Yes	5.00	0.000	3.00	2.54	0.00	0.162	1.185	6.461	0.00	18.58
45.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.96	0.00	0.162	1.185	6.461	0.00	31.32
50.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.55	0.00	0.166	1.199	6.606	0.00	78.33
50.00	Safety Cable	Yes	5.00	0.000	3.00	2.55	0.00	0.166	1.199	6.606	0.00	18.91
50.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.97	0.00	0.166	1.199	6.606	0.00	31.73
55.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.57	0.00	0.171	1.213	6.739	0.00	78.80
55.00	Safety Cable	Yes	5.00	0.000	3.00	2.57	0.00	0.171	1.213	6.739	0.00	19.22
55.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.98	0.00	0.171	1.213	6.739	0.00	32.11
60.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.58	0.00	0.176	1.228	6.864	0.00	79.22
60.00	Safety Cable	Yes	5.00	0.000	3.00	2.58	0.00	0.176	1.228	6.864	0.00	19.51
60.00	1.6" Hybrid	Yes	5.00	0.000	1.60	1.99	0.00	0.176	1.228	6.864	0.00	32.47
63.50	Climbing Ladder	Yes	3.50	0.000	3.00	1.81	0.00	0.181	1.242	6.946	0.00	55.65
63.50	Safety Cable	Yes	3.50	0.000	3.00	1.81	0.00	0.181	1.242	6.946	0.00	13.79
63.50	1.6" Hybrid	Yes	3.50	0.000	1.60	1.40	0.00	0.181	1.242	6.946	0.00	22.89
65.00	Climbing Ladder	Yes	1.50	0.000	3.00	0.78	0.00	0.183	1.250	6.981	0.00	23.89
65.00	Safety Cable	Yes	1.50	0.000	3.00	0.78	0.00	0.183	1.250	6.981	0.00	5.93

Linear Appurtenance Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



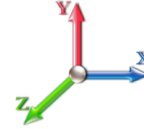
Page: 25

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

Iterations 19

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)
65.00	1.6" Hybrid	Yes	1.50	0.000	1.60	0.60	0.00	0.183	1.250	6.981	0.00	9.84
68.75	Climbing Ladder	Yes	3.75	0.000	3.00	1.95	0.00	0.186	1.259	7.064	0.00	59.93
68.75	Safety Cable	Yes	3.75	0.000	3.00	1.95	0.00	0.186	1.259	7.064	0.00	14.98
68.75	1.6" Hybrid	Yes	3.75	0.000	1.60	1.51	0.00	0.186	1.259	7.064	0.00	24.77
70.00	Climbing Ladder	Yes	1.25	0.000	3.00	0.65	0.00	0.186	1.257	7.090	0.00	20.00
70.00	Safety Cable	Yes	1.25	0.000	3.00	0.65	0.00	0.186	1.257	7.090	0.00	5.01
70.00	1.6" Hybrid	Yes	1.25	0.000	1.60	0.50	0.00	0.186	1.257	7.090	0.00	8.28
75.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.61	0.00	0.189	1.268	7.194	0.00	80.35
75.00	Safety Cable	Yes	5.00	0.000	3.00	2.61	0.00	0.189	1.268	7.194	0.00	20.27
75.00	1.6" Hybrid	Yes	5.00	0.000	1.60	2.02	0.00	0.189	1.268	7.194	0.00	33.40
80.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.62	0.00	0.196	1.287	7.293	0.00	80.68
80.00	Safety Cable	Yes	5.00	0.000	3.00	2.62	0.00	0.196	1.287	7.293	0.00	20.49
80.00	1.6" Hybrid	Yes	5.00	0.000	1.60	2.03	0.00	0.196	1.287	7.293	0.00	33.67
85.00	Climbing Ladder	Yes	5.00	1.200	3.00	2.62	3.15	0.202	0.000	7.386	25.58	81.00
85.00	Safety Cable	Yes	5.00	1.200	3.00	2.62	3.15	0.202	0.000	7.386	25.58	20.71
85.00	1.6" Hybrid	Yes	5.00	1.200	1.60	2.04	2.45	0.202	0.000	7.386	19.90	33.94
87.00	Climbing Ladder	Yes	2.00	1.200	3.00	1.05	1.26	0.207	0.000	7.422	10.30	32.45
87.00	Safety Cable	Yes	2.00	1.200	3.00	1.05	1.26	0.207	0.000	7.422	10.30	8.32
87.00	1.6" Hybrid	Yes	2.00	1.200	1.60	0.82	0.98	0.207	0.000	7.422	8.01	13.61
90.00	Climbing Ladder	Yes	3.00	1.200	3.00	1.58	1.89	0.211	0.000	7.476	15.58	48.78
90.00	Safety Cable	Yes	3.00	1.200	3.00	1.58	1.89	0.211	0.000	7.476	15.58	12.55
90.00	1.6" Hybrid	Yes	3.00	1.200	1.60	1.23	1.47	0.211	0.000	7.476	12.13	20.51
95.00	Climbing Ladder	Yes	5.00	1.200	3.00	2.64	3.17	0.217	0.000	7.561	26.34	81.59
95.00	Safety Cable	Yes	5.00	1.200	3.00	2.64	3.17	0.217	0.000	7.561	26.34	21.11
95.00	1.6" Hybrid	Yes	5.00	1.200	1.60	2.06	2.47	0.217	0.000	7.561	20.52	34.42
96.75	Climbing Ladder	Yes	1.75	1.200	3.00	0.92	1.11	0.222	0.000	7.590	9.26	28.59
96.75	Safety Cable	Yes	1.75	1.200	3.00	0.92	1.11	0.222	0.000	7.590	9.26	7.41
96.75	1.6" Hybrid	Yes	1.75	1.200	1.60	0.72	0.86	0.222	0.000	7.590	7.22	12.08
97.00	Climbing Ladder	Yes	0.25	1.200	3.00	0.13	0.16	0.224	0.000	7.594	1.32	4.09
97.00	Safety Cable	Yes	0.25	1.200	3.00	0.13	0.16	0.224	0.000	7.594	1.32	1.06
97.00	1.6" Hybrid	Yes	0.25	1.200	1.60	0.10	0.12	0.224	0.000	7.594	1.03	1.73
100.00	Climbing Ladder	Yes	3.00	0.000	3.00	1.59	0.00	0.179	1.237	7.643	0.00	49.12
100.00	Safety Cable	Yes	3.00	0.000	3.00	1.59	0.00	0.179	1.237	7.643	0.00	12.78
101.00	Climbing Ladder	Yes	1.00	0.000	3.00	0.53	0.00	0.182	1.245	7.659	0.00	16.38
101.00	Safety Cable	Yes	1.00	0.000	3.00	0.53	0.00	0.182	1.245	7.659	0.00	4.27
105.00	Climbing Ladder	Yes	4.00	0.000	3.00	2.12	0.00	0.182	1.245	7.722	0.00	65.70
105.00	Safety Cable	Yes	4.00	0.000	3.00	2.12	0.00	0.182	1.245	7.722	0.00	17.18
110.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.66	0.00	0.188	1.265	7.798	0.00	82.38
110.00	Safety Cable	Yes	5.00	0.000	3.00	2.66	0.00	0.188	1.265	7.798	0.00	21.65
115.00	Climbing Ladder	Yes	5.00	0.000	3.00	2.67	0.00	0.196	1.288	7.872	0.00	82.63
115.00	Safety Cable	Yes	5.00	0.000	3.00	2.67	0.00	0.196	1.288	7.872	0.00	21.82
117.00	Climbing Ladder	Yes	2.00	1.200	3.00	1.07	1.28	0.202	0.000	7.900	11.13	33.09
117.00	Safety Cable	Yes	2.00	1.200	3.00	1.07	1.28	0.202	0.000	7.900	11.13	8.75
120.00	Climbing Ladder	Yes	3.00	1.200	3.00	1.60	1.92	0.206	0.000	7.942	16.81	49.72
120.00	Safety Cable	Yes	3.00	1.200	3.00	1.60	1.92	0.206	0.000	7.942	16.81	13.19
Totals:											301.5	2,942.4

Calculated Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 26



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

Iterations 19

Dead Load Factor 1.20
Wind Load Factor 1.00



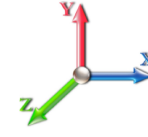
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-71.68	-9.34	0.00	-798.74	0.00	798.74	4300.95	1164.51	5386.47	4939.14	0.00	0.000	0.000	0.178
5.00	-69.52	-9.21	0.00	-752.05	0.00	752.05	4244.87	1138.40	5147.62	4764.71	0.02	-0.042	0.000	0.174
10.00	-67.36	-9.07	0.00	-706.02	0.00	706.02	4186.94	1112.29	4914.19	4591.15	0.09	-0.085	0.000	0.170
15.00	-65.22	-8.94	0.00	-660.66	0.00	660.66	4127.16	1086.18	4686.18	4418.62	0.20	-0.128	0.000	0.165
20.00	-63.10	-8.79	0.00	-615.98	0.00	615.98	4065.53	1060.07	4463.58	4247.25	0.36	-0.171	0.000	0.161
25.00	-61.01	-8.63	0.00	-572.03	0.00	572.03	4002.04	1033.96	4246.40	4077.19	0.56	-0.214	0.000	0.156
30.00	-58.96	-8.45	0.00	-528.85	0.00	528.85	3936.71	1007.85	4034.64	3908.58	0.81	-0.257	0.000	0.150
31.25	-58.45	-8.42	0.00	-518.29	0.00	518.29	3920.09	1001.32	3982.54	3866.68	0.88	-0.268	0.000	0.149
35.00	-56.05	-8.28	0.00	-486.70	0.00	486.70	3869.52	981.74	3828.29	3741.57	1.10	-0.300	0.000	0.145
37.50	-54.47	-8.19	0.00	-465.99	0.00	465.99	3876.32	984.35	3848.67	3758.20	1.26	-0.322	0.000	0.138
40.00	-53.47	-8.11	0.00	-445.51	0.00	445.51	3842.13	971.29	3747.26	3675.25	1.44	-0.343	0.000	0.135
45.00	-51.49	-7.92	0.00	-404.95	0.00	404.95	3772.35	945.18	3548.49	3510.72	1.82	-0.383	0.000	0.129
50.00	-49.55	-7.73	0.00	-365.34	0.00	365.34	3700.72	919.07	3355.15	3348.13	2.24	-0.423	0.000	0.123
55.00	-47.65	-7.53	0.00	-326.68	0.00	326.68	3627.24	892.96	3167.21	3187.63	2.71	-0.461	0.000	0.116
60.00	-45.78	-7.33	0.00	-289.02	0.00	289.02	3551.90	866.85	2984.69	3029.36	3.21	-0.498	0.000	0.108
63.50	-44.50	-7.18	0.00	-263.37	0.00	263.37	3498.07	848.57	2860.16	2919.97	3.59	-0.524	0.000	0.103
65.00	-43.65	-7.12	0.00	-252.60	0.00	252.60	3474.72	840.74	2807.59	2873.46	3.75	-0.535	0.000	0.101
68.75	-41.56	-6.95	0.00	-225.89	0.00	225.89	3462.98	836.82	2781.49	2850.29	4.18	-0.561	0.000	0.091
70.00	-41.11	-6.91	0.00	-217.21	0.00	217.21	3443.33	830.29	2738.27	2811.80	4.33	-0.570	0.000	0.089
75.00	-39.34	-6.69	0.00	-182.68	0.00	182.68	3363.55	804.18	2568.75	2659.47	4.94	-0.600	0.000	0.080
80.00	-37.61	-6.47	0.00	-149.23	0.00	149.23	3281.92	778.07	2404.65	2509.86	5.59	-0.627	0.000	0.071
85.00	-35.92	-6.22	0.00	-116.88	0.00	116.88	3183.29	751.96	2245.96	2351.92	6.26	-0.651	0.000	0.061
87.00	-26.75	-4.72	0.00	-104.43	0.00	104.43	3139.07	741.51	2184.00	2286.71	6.53	-0.660	0.000	0.054
90.00	-25.83	-4.58	0.00	-90.27	0.00	90.27	3072.75	725.85	2092.69	2190.61	6.95	-0.673	0.000	0.050
95.00	-24.33	-4.33	0.00	-67.37	0.00	67.37	2962.22	699.74	1944.84	2035.03	7.67	-0.691	0.000	0.041
96.75	-23.82	-4.25	0.00	-59.79	0.00	59.79	2923.53	690.60	1894.37	1981.93	7.92	-0.696	0.000	0.038
97.00	-18.63	-3.58	0.00	-58.73	0.00	58.73	2918.00	689.29	1887.21	1974.40	7.96	-0.697	0.000	0.036
100.00	-17.37	-3.45	0.00	-47.98	0.00	47.98	2851.68	673.62	1802.40	1885.17	8.40	-0.705	0.000	0.032
101.00	-16.96	-3.41	0.00	-44.53	0.00	44.53	2372.90	569.89	1545.54	1593.20	8.55	-0.708	0.000	0.035
105.00	-15.94	-3.25	0.00	-30.89	0.00	30.89	2319.07	552.45	1452.42	1508.97	9.14	-0.717	0.000	0.027
110.00	-9.94	-2.02	0.00	-14.66	0.00	14.66	2246.46	530.66	1340.09	1403.50	9.90	-0.725	0.000	0.015
115.00	-8.82	-1.81	0.00	-4.58	0.00	4.58	2154.20	508.87	1232.27	1290.02	10.66	-0.729	0.000	0.008
117.00	-0.60	-0.13	0.00	-0.38	0.00	0.38	2117.29	500.15	1190.41	1245.97	10.97	-0.729	0.000	0.001
120.00	0.00	-0.12	0.00	0.00	0.00	0.00	2061.93	487.07	1128.98	1181.32	11.43	-0.729	0.000	0.000

Seismic Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 27



Load Case: 1.2D + 1.0Ev + 1.0Eh						Iterations 17
Gust Response Factor	1.10			Sds	0.18	Ss 0.17
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.48	SA	0.04	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		1439.1	2.50	53.11	0.05	
10.00		1413.7	7.50	52.18	0.33	
15.00		1388.4	12.50	51.24	0.80	
20.00		1363.1	17.50	50.31	1.41	
25.00		1337.8	22.50	49.38	2.15	
30.00		1312.5	27.50	48.44	2.98	
31.25	Bot - Section 2	324.18	30.63	11.96	0.29	
35.00		1695.3	33.13	62.57	6.60	
37.50	Top - Section 1	1114.4	36.25	41.13	3.65	
40.00		635.38	38.75	23.45	1.50	
45.00		1251.7	42.50	46.20	5.99	
50.00		1226.4	47.50	45.26	7.05	
55.00		1201.1	52.50	44.33	8.13	
60.00		1175.8	57.50	43.40	9.21	
63.50	Bot - Section 3	808.03	61.75	29.82	5.33	
65.00		592.71	64.25	21.88	3.28	
68.75	Top - Section 2	1461.8	66.88	53.95	17.88	
70.00		282.73	69.38	10.43	0.99	
75.00		1115.0	72.50	41.15	12.71	
80.00		1089.7	77.50	40.22	13.75	
85.00		1064.4	82.50	39.29	14.75	
87.00	Appurtenance(s)	3923.4	86.00	144.80	165.99	
90.00		554.54	88.50	20.47	5.18	
95.00		903.98	92.50	33.36	13.50	
96.75	Bot - Section 4	310.41	95.88	11.46	2.11	
97.00	Appurtenance(s)	2431.6	96.88	89.75	86.98	
100.00		858.39	98.50	31.68	13.77	
101.00	Top - Section 3	282.41	100.50	10.42	1.93	
105.00		600.79	103.00	22.17	7.86	
110.00	Appurtenance(s)	3786.2	107.50	139.74	232.59	
115.00		628.76	112.50	23.21	9.99	
117.00	Appurtenance(s)	4075.3	116.00	150.41	304.43	
120.00		312.94	118.50	11.55	3.13	
Totals:		41,963.1		1,548.7	966.3	Total Wind: 32,285.6

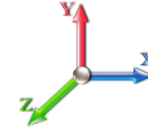
Calculated Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 28

Load Case: 1.2D + 1.0Ev + 1.0Eh							Iterations 17
Gust Response Factor	1.10				Sds	0.18	Ss 0.17
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09		S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.48	SA	0.04	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	-50.55	-0.97	0.00	-100.22	0.00	100.22	4300.95	1164.51	5386.47	4939.14	0.00	0.00	0.00	0.032
5.00	-48.83	-0.97	0.00	-95.38	0.00	95.38	4244.87	1138.40	5147.62	4764.71	0.00	-0.01	0.032	
10.00	-47.15	-0.98	0.00	-90.52	0.00	90.52	4186.94	1112.29	4914.19	4591.15	0.01	-0.01	0.031	
15.00	-45.50	-0.98	0.00	-85.64	0.00	85.64	4127.16	1086.18	4686.18	4418.62	0.03	-0.02	0.030	
20.00	-43.87	-0.98	0.00	-80.74	0.00	80.74	4065.53	1060.07	4463.58	4247.25	0.05	-0.02	0.030	
25.00	-42.28	-0.98	0.00	-75.83	0.00	75.83	4002.04	1033.96	4246.40	4077.19	0.07	-0.03	0.029	
30.00	-40.72	-0.98	0.00	-70.92	0.00	70.92	3936.71	1007.85	4034.64	3908.58	0.10	-0.03	0.028	
31.25	-40.34	-0.98	0.00	-69.69	0.00	69.69	3920.09	1001.32	3982.54	3866.68	0.11	-0.03	0.028	
35.00	-38.29	-0.98	0.00	-66.00	0.00	66.00	3869.52	981.74	3828.29	3741.57	0.14	-0.04	0.028	
37.50	-36.94	-0.98	0.00	-63.56	0.00	63.56	3876.32	984.35	3848.67	3758.20	0.16	-0.04	0.026	
40.00	-36.19	-0.98	0.00	-61.12	0.00	61.12	3842.13	971.29	3747.26	3675.25	0.19	-0.05	0.026	
45.00	-34.71	-0.97	0.00	-56.24	0.00	56.24	3772.35	945.18	3548.49	3510.72	0.24	-0.05	0.025	
50.00	-33.25	-0.97	0.00	-51.38	0.00	51.38	3700.72	919.07	3355.15	3348.13	0.29	-0.06	0.024	
55.00	-31.83	-0.96	0.00	-46.54	0.00	46.54	3627.24	892.96	3167.21	3187.63	0.35	-0.06	0.023	
60.00	-30.44	-0.95	0.00	-41.74	0.00	41.74	3551.90	866.85	2984.69	3029.36	0.42	-0.07	0.022	
63.50	-29.49	-0.95	0.00	-38.41	0.00	38.41	3498.07	848.57	2860.16	2919.97	0.47	-0.07	0.022	
65.00	-28.78	-0.94	0.00	-36.99	0.00	36.99	3474.72	840.74	2807.59	2873.46	0.49	-0.07	0.021	
68.75	-27.02	-0.93	0.00	-33.45	0.00	33.45	3462.98	836.82	2781.49	2850.29	0.55	-0.08	0.020	
70.00	-26.68	-0.93	0.00	-32.29	0.00	32.29	3443.33	830.29	2738.27	2811.80	0.57	-0.08	0.019	
75.00	-25.37	-0.91	0.00	-27.66	0.00	27.66	3363.55	804.18	2568.75	2659.47	0.66	-0.08	0.018	
80.00	-24.08	-0.90	0.00	-23.10	0.00	23.10	3281.92	778.07	2404.65	2509.86	0.74	-0.09	0.017	
85.00	-22.83	-0.88	0.00	-18.61	0.00	18.61	3183.29	751.96	2245.96	2351.92	0.84	-0.09	0.015	
87.00	-18.00	-0.71	0.00	-16.84	0.00	16.84	3139.07	741.51	2184.00	2286.71	0.87	-0.09	0.013	
90.00	-17.34	-0.70	0.00	-14.71	0.00	14.71	3072.75	725.85	2092.69	2190.61	0.93	-0.09	0.012	
95.00	-16.27	-0.69	0.00	-11.19	0.00	11.19	2962.22	699.74	1944.84	2035.03	1.03	-0.10	0.011	
96.75	-15.90	-0.69	0.00	-9.98	0.00	9.98	2923.53	690.60	1894.37	1981.93	1.07	-0.10	0.010	
97.00	-12.89	-0.60	0.00	-9.81	0.00	9.81	2918.00	689.29	1887.21	1974.40	1.07	-0.10	0.009	
100.00	-11.86	-0.58	0.00	-8.02	0.00	8.02	2851.68	673.62	1802.40	1885.17	1.13	-0.10	0.008	
101.00	-11.52	-0.58	0.00	-7.44	0.00	7.44	2372.90	569.89	1545.54	1593.20	1.15	-0.10	0.010	
105.00	-10.81	-0.57	0.00	-5.13	0.00	5.13	2319.07	552.45	1452.42	1508.97	1.24	-0.10	0.008	
110.00	-6.16	-0.33	0.00	-2.29	0.00	2.29	2246.46	530.66	1340.09	1403.50	1.34	-0.10	0.004	
115.00	-5.41	-0.32	0.00	-0.65	0.00	0.65	2154.20	508.87	1232.27	1290.02	1.45	-0.10	0.003	
117.00	-0.38	0.00	0.00	-0.01	0.00	0.01	2117.29	500.15	1190.41	1245.97	1.49	-0.10	0.000	
120.00	0.00	0.00	0.00	0.00	0.00	0.00	2061.93	487.07	1128.98	1181.32	1.56	-0.10	0.000	

Seismic Segment Forces (Factored)

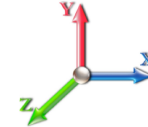
Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Page: 29
	Struct Class: II	



Load Case: 0.9D + 1.0Ev + 1.0Eh

Iterations 17

Gust Response Factor 1.10	Sds 0.18	Ss 0.17	
Dead Load Factor 0.90	Seismic Load Factor 1.00	Sd1 0.09	S1 0.05
Wind Load Factor 0.00	Structure Frequency (f1) 0.48	SA 0.04	Seismic Importance Factor 1.00



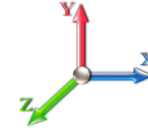
Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		1358.4	2.50	50.13	0.04	
10.00		1333.0	7.50	49.20	0.30	
15.00		1307.7	12.50	48.27	0.74	
20.00		1282.4	17.50	47.33	1.31	
25.00		1257.1	22.50	46.40	1.98	
30.00		1231.8	27.50	45.46	2.74	
31.25	Bot - Section 2	304.00	30.63	11.22	0.27	
35.00		1634.8	33.13	60.34	6.36	
37.50	Top - Section 1	1074.0	36.25	39.64	3.52	
40.00		595.03	38.75	21.96	1.37	
45.00		1171.0	42.50	43.22	5.47	
50.00		1145.7	47.50	42.29	6.42	
55.00		1120.4	52.50	41.35	7.39	
60.00		1095.1	57.50	40.42	8.35	
63.50	Bot - Section 3	751.53	61.75	27.74	4.82	
65.00		568.50	64.25	20.98	3.13	
68.75	Top - Section 2	1401.3	66.88	51.72	17.07	
70.00		262.55	69.38	9.69	0.90	
75.00		1034.3	72.50	38.18	11.43	
80.00		1009.0	77.50	37.24	12.33	
85.00		983.76	82.50	36.31	13.18	
87.00	Appurtenance(s)	3891.1	86.00	143.61	168.41	
90.00		522.59	88.50	19.29	4.79	
95.00		850.74	92.50	31.40	12.47	
96.75	Bot - Section 4	291.78	95.88	10.77	1.94	
97.00	Appurtenance(s)	2429.0	96.88	89.65	89.39	
100.00		827.34	98.50	30.53	13.27	
101.00	Top - Section 3	272.07	100.50	10.04	1.86	
105.00		559.40	103.00	20.65	7.12	
110.00	Appurtenance(s)	3734.5	107.50	137.83	233.66	
115.00		597.54	112.50	22.05	9.39	
117.00	Appurtenance(s)	4062.8	116.00	149.95	311.77	
120.00		306.49	118.50	11.31	3.10	
Totals:		40,267.7		1,486.1	966.3	Total Wind: 32,285.6

Calculated Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 30



Load Case: 0.9D + 1.0Ev + 1.0Eh						Iterations 17
Gust Response Factor	1.10			Sds	0.18	Ss 0.17
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.09	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.48	SA	0.04	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	-38.24	-0.97	0.00	-99.94	0.00	99.94	4300.95	1164.51	5386.47	4939.14	0.00	0.00	0.00	0.029
5.00	-36.94	-0.97	0.00	-95.11	0.00	95.11	4244.87	1138.40	5147.62	4764.71	0.00	-0.01	0.029	
10.00	-35.67	-0.97	0.00	-90.25	0.00	90.25	4186.94	1112.29	4914.19	4591.15	0.01	-0.01	0.028	
15.00	-34.42	-0.98	0.00	-85.39	0.00	85.39	4127.16	1086.18	4686.18	4418.62	0.03	-0.02	0.028	
20.00	-33.19	-0.98	0.00	-80.51	0.00	80.51	4065.53	1060.07	4463.58	4247.25	0.05	-0.02	0.027	
25.00	-31.99	-0.98	0.00	-75.62	0.00	75.62	4002.04	1033.96	4246.40	4077.19	0.07	-0.03	0.027	
30.00	-30.81	-0.98	0.00	-70.73	0.00	70.73	3936.71	1007.85	4034.64	3908.58	0.10	-0.03	0.026	
31.25	-30.52	-0.98	0.00	-69.51	0.00	69.51	3920.09	1001.32	3982.54	3866.68	0.11	-0.03	0.026	
35.00	-28.97	-0.97	0.00	-65.84	0.00	65.84	3869.52	981.74	3828.29	3741.57	0.14	-0.04	0.025	
37.50	-27.95	-0.97	0.00	-63.41	0.00	63.41	3876.32	984.35	3848.67	3758.20	0.16	-0.04	0.024	
40.00	-27.38	-0.97	0.00	-60.98	0.00	60.98	3842.13	971.29	3747.26	3675.25	0.19	-0.04	0.024	
45.00	-26.26	-0.97	0.00	-56.14	0.00	56.14	3772.35	945.18	3548.49	3510.72	0.24	-0.05	0.023	
50.00	-25.16	-0.96	0.00	-51.31	0.00	51.31	3700.72	919.07	3355.15	3348.13	0.29	-0.06	0.022	
55.00	-24.09	-0.95	0.00	-46.50	0.00	46.50	3627.24	892.96	3167.21	3187.63	0.35	-0.06	0.021	
60.00	-23.04	-0.95	0.00	-41.73	0.00	41.73	3551.90	866.85	2984.69	3029.36	0.42	-0.07	0.020	
63.50	-22.32	-0.94	0.00	-38.41	0.00	38.41	3498.07	848.57	2860.16	2919.97	0.47	-0.07	0.020	
65.00	-21.78	-0.94	0.00	-37.00	0.00	37.00	3474.72	840.74	2807.59	2873.46	0.49	-0.07	0.019	
68.75	-20.44	-0.92	0.00	-33.48	0.00	33.48	3462.98	836.82	2781.49	2850.29	0.55	-0.08	0.018	
70.00	-20.19	-0.92	0.00	-32.33	0.00	32.33	3443.33	830.29	2738.27	2811.80	0.57	-0.08	0.017	
75.00	-19.20	-0.91	0.00	-27.72	0.00	27.72	3363.55	804.18	2568.75	2659.47	0.65	-0.08	0.016	
80.00	-18.23	-0.90	0.00	-23.17	0.00	23.17	3281.92	778.07	2404.65	2509.86	0.74	-0.09	0.015	
85.00	-17.28	-0.88	0.00	-18.68	0.00	18.68	3183.29	751.96	2245.96	2351.92	0.83	-0.09	0.013	
87.00	-13.63	-0.71	0.00	-16.91	0.00	16.91	3139.07	741.51	2184.00	2286.71	0.87	-0.09	0.012	
90.00	-13.13	-0.71	0.00	-14.78	0.00	14.78	3072.75	725.85	2092.69	2190.61	0.93	-0.09	0.011	
95.00	-12.32	-0.69	0.00	-11.25	0.00	11.25	2962.22	699.74	1944.84	2035.03	1.03	-0.10	0.010	
96.75	-12.04	-0.69	0.00	-10.04	0.00	10.04	2923.53	690.60	1894.37	1981.93	1.06	-0.10	0.009	
97.00	-9.76	-0.60	0.00	-9.87	0.00	9.87	2918.00	689.29	1887.21	1974.40	1.07	-0.10	0.008	
100.00	-8.98	-0.58	0.00	-8.08	0.00	8.08	2851.68	673.62	1802.40	1885.17	1.13	-0.10	0.007	
101.00	-8.72	-0.58	0.00	-7.50	0.00	7.50	2372.90	569.89	1545.54	1593.20	1.15	-0.10	0.008	
105.00	-8.18	-0.57	0.00	-5.18	0.00	5.18	2319.07	552.45	1452.42	1508.97	1.24	-0.10	0.007	
110.00	-4.67	-0.33	0.00	-2.32	0.00	2.32	2246.46	530.66	1340.09	1403.50	1.34	-0.10	0.004	
115.00	-4.10	-0.32	0.00	-0.65	0.00	0.65	2154.20	508.87	1232.27	1290.02	1.45	-0.10	0.002	
117.00	-0.29	0.00	0.00	-0.01	0.00	0.01	2117.29	500.15	1190.41	1245.97	1.49	-0.10	0.000	
120.00	0.00	0.00	0.00	0.00	0.00	0.00	2061.93	487.07	1128.98	1181.32	1.56	-0.10	0.000	

Wind Loading - Shaft

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 31

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 18

Dead Load Factor 1.00

Wind Load Factor 1.00



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	6.614	7.28	261.83	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	6.614	7.28	256.00	0.806 *	0.000	5.00	23.482	18.93	137.8	0.0	1116.3
10.00		1.00	0.85	6.614	7.28	250.17	0.813 *	0.000	5.00	22.953	18.66	135.8	0.0	1091.0
15.00		1.00	0.85	6.614	7.28	244.34	0.820 *	0.000	5.00	22.424	18.39	133.8	0.0	1065.7
20.00		1.00	0.90	7.018	7.72	245.68	0.828 *	0.000	5.00	21.895	18.12	139.9	0.0	1040.3
25.00		1.00	0.95	7.355	8.09	245.37	0.836 *	0.000	5.00	21.366	17.85	144.4	0.0	1015.0
30.00		1.00	0.98	7.643	8.41	243.85	0.844 *	0.000	5.00	20.837	17.58	147.8	0.0	989.7
31.25	Bot - Section 2	1.00	0.99	7.709	8.48	243.33	0.849 *	0.000	1.25	5.127	4.35	36.9	0.0	243.5
35.00		1.00	1.01	7.895	8.68	241.47	0.854 *	0.000	3.75	15.420	13.16	114.3	0.0	1453.2
37.50	Top - Section 1	1.00	1.03	8.011	8.81	240.02	0.859 *	0.000	2.50	10.115	8.69	76.6	0.0	953.0
40.00		1.00	1.04	8.120	8.93	242.30	0.858 *	0.000	2.50	9.982	8.57	76.5	0.0	474.0
45.00		1.00	1.07	8.324	9.16	238.78	0.865 *	0.000	5.00	19.568	16.93	155.1	0.0	929.0
50.00		1.00	1.09	8.511	9.36	234.83	0.875 *	0.000	5.00	19.039	16.66	156.0	0.0	903.7
55.00		1.00	1.12	8.683	9.55	230.52	0.886 *	0.000	5.00	18.510	16.39	156.6	0.0	878.3
60.00		1.00	1.14	8.844	9.73	225.89	0.897 *	0.000	5.00	17.981	16.12	156.9	0.0	853.0
63.50	Bot - Section 3	1.00	1.15	8.950	9.84	222.50	0.907 *	0.000	3.50	12.272	11.13	109.5	0.0	582.1
65.00		1.00	1.16	8.994	9.89	221.00	0.913 *	0.000	1.50	5.275	4.81	47.6	0.0	495.9
68.75	Top - Section 2	1.00	1.17	9.101	10.01	217.18	0.919 *	0.000	3.75	12.980	11.93	119.4	0.0	1219.7
70.00		1.00	1.17	9.135	10.05	219.99	0.918 *	0.000	1.25	4.261	3.91	39.3	0.0	202.0
75.00		1.00	1.19	9.269	10.20	214.69	0.926 *	0.000	5.00	16.712	15.47	157.8	0.0	792.3
80.00		1.00	1.21	9.396	10.34	209.21	0.940 *	0.000	5.00	16.183	15.20	157.1	0.0	767.0
85.00		1.00	1.22	9.517	10.47	203.55	1.200 *	0.000	5.00	15.654	18.79	196.6	0.0	741.6
87.00	Appurtenance(s)	1.00	1.23	9.563	10.52	201.24	1.200 *	0.000	2.00	6.114	7.34	77.2	0.0	289.6
90.00		1.00	1.24	9.632	10.59	197.74	1.200 *	0.000	3.00	9.012	10.81	114.6	0.0	426.8
95.00		1.00	1.25	9.742	10.72	191.79	1.200 *	0.000	5.00	14.596	17.52	187.7	0.0	691.0
96.75	Bot - Section 4	1.00	1.26	9.780	10.76	189.68	1.200 *	0.000	1.75	4.984	5.98	64.3	0.0	235.9
97.00	Appurtenance(s)	1.00	1.26	9.785	10.76	189.38	1.200 *	0.000	0.25	0.720	0.86	9.3	0.0	61.9
100.00		1.00	1.27	9.848	10.83	185.72	0.903 *	0.000	3.00	8.536	7.71	83.5	0.0	734.2
101.00	Top - Section 3	1.00	1.27	9.868	10.86	184.49	0.909 *	0.000	1.00	2.803	2.55	27.7	0.0	241.0
105.00		1.00	1.28	9.949	10.94	183.10	0.909 *	0.000	4.00	11.001	10.00	109.5	0.0	435.2
110.00	Appurtenance(s)	1.00	1.29	10.047	11.05	176.81	0.923 *	0.000	5.00	13.275	12.26	135.5	0.0	525.0
115.00		1.00	1.30	10.142	11.16	170.42	0.941 *	0.000	5.00	12.746	11.99	133.7	0.0	503.9
117.00	Appurtenance(s)	1.00	1.31	10.179	11.20	167.84	1.200 *	0.000	2.00	4.950	5.94	66.5	0.0	195.6
120.00		1.00	1.32	10.233	11.26	163.93	1.200 *	0.000	3.00	7.267	8.72	98.2	0.0	287.1
Totals:									120.00			3,703.4		22,433.5

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 32



Load Case: 1.0D + 1.0W 60 mph Wind	Iterations 18
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	117.00	Samsung RF4439d-25A	3	10.197	11.217	0.76	0.90	4.24	224.10	0.000	1.000	47.57	0.00	47.57	
2	117.00	Andrew	3	10.179	11.197	0.65	0.80	16.60	122.34	0.000	0.000	185.88	0.00	0.00	
3	117.00	Lucent KS24019-L112A	1	10.179	11.197	0.80	0.80	0.11	5.00	0.000	0.000	1.25	0.00	0.00	
4	117.00	Commscope	6	10.197	11.217	0.75	0.90	36.08	261.90	0.000	1.000	404.70	0.00	404.70	
5	117.00	Sammsung MT6407-77A	3	10.197	11.217	0.63	0.90	8.86	238.20	0.000	1.000	99.43	0.00	99.43	
6	117.00	VZW MOD	1	10.179	11.197	1.00	1.00	26.01	1200.00	0.000	0.000	291.22	0.00	0.00	
7	117.00	Raycap	1	10.197	11.217	1.00	1.00	1.73	32.00	0.000	1.000	19.40	0.00	19.40	
8	117.00	Low Profile Platform-round	1	10.179	11.197	1.00	1.00	22.00	1500.00	0.000	0.000	246.33	0.00	0.00	
9	117.00	Kaelus KA-6030[Filter]	2	10.179	11.197	0.66	0.80	1.26	35.20	0.000	0.000	14.10	0.00	0.00	
10	117.00	Samsung RF4440d-13A	3	10.197	11.217	0.72	0.90	4.04	210.99	0.000	1.000	45.31	0.00	45.31	
11	110.00	4460 B25 + B66	3	10.047	11.052	0.50	0.75	2.47	216.00	0.000	0.000	27.32	0.00	0.00	
12	110.00	APXVAALL24_43-U-NA20	3	10.047	11.052	0.55	0.75	33.24	368.40	0.000	0.000	367.42	0.00	0.00	
13	110.00	AIR6419 B41	3	10.047	11.052	0.53	0.75	9.03	309.00	0.000	0.000	99.76	0.00	0.00	
14	110.00	4449 B71 + B85	3	10.047	11.052	0.50	0.75	2.97	219.60	0.000	0.000	32.82	0.00	0.00	
15	110.00	KRY 112 489/2	6	10.047	11.052	0.50	0.75	0.03	0.60	0.000	0.000	0.33	0.00	0.00	
16	110.00	Low profile	1	10.047	11.052	1.00	1.00	22.00	1500.00	0.000	0.000	243.15	0.00	0.00	
17	110.00	KRY 112 144/1	3	10.047	11.052	0.50	0.75	0.62	33.00	0.000	0.000	6.83	0.00	0.00	
18	110.00	MS-KI22-5 (Kickers w/o	1	10.047	11.052	1.00	1.00	5.33	146.00	0.000	0.000	58.91	0.00	0.00	
19	110.00	HRK12 (handrail kit)	1	10.047	11.052	1.00	1.00	6.75	261.72	0.000	0.000	74.60	0.00	0.00	
20	97.00	MX08FRO665-21	3	9.785	10.763	0.55	0.75	20.80	193.50	0.000	0.000	223.83	0.00	0.00	
21	97.00	RDIDC-9181-PF-48	1	9.785	10.763	0.75	0.75	1.51	21.90	0.000	0.000	16.23	0.00	0.00	
22	97.00	TA08025-B604	3	9.785	10.763	0.50	0.75	2.95	191.70	0.000	0.000	31.80	0.00	0.00	
23	97.00	TA08025-B605	3	9.785	10.763	0.50	0.75	2.95	225.00	0.000	0.000	31.80	0.00	0.00	
24	97.00	MC-PK8-DSH	1	9.785	10.763	1.00	1.00	22.94	1727.00	0.000	0.000	246.91	0.00	0.00	
25	87.00	TT19-08BP111-001	6	9.563	10.520	0.68	0.75	2.59	96.00	0.000	0.000	27.27	0.00	0.00	
26	87.00	HRK12 (Handrail Kit)	1	9.563	10.520	1.00	1.00	6.75	261.72	0.000	0.000	71.01	0.00	0.00	
27	87.00	LGP21903	6	9.563	10.520	0.63	0.75	1.02	33.00	0.000	0.000	10.74	0.00	0.00	
28	87.00	PRK-1245 (kicker kit)	1	9.563	10.520	1.00	1.00	9.50	464.91	0.000	0.000	99.94	0.00	0.00	
29	87.00	Low Profile	1	9.563	10.520	1.00	1.00	22.00	1500.00	0.000	0.000	231.43	0.00	0.00	
30	87.00	800 10966	3	9.563	10.520	0.54	0.75	28.12	377.10	0.000	0.000	295.85	0.00	0.00	
31	87.00	DC6-48-60-18-8F(23.5"	1	9.563	10.520	1.00	1.00	1.26	20.00	0.000	0.000	13.25	0.00	0.00	
32	87.00	B2 B66A 8843	3	9.563	10.520	0.64	0.75	3.14	210.00	0.000	0.000	32.99	0.00	0.00	
33	87.00	4449 B5/B12	3	9.563	10.520	0.65	0.75	3.81	213.00	0.000	0.000	40.10	0.00	0.00	
34	87.00	DC6-48-60-18-8C	1	9.563	10.520	1.00	1.00	1.26	20.00	0.000	0.000	13.25	0.00	0.00	
35	87.00	7770.00	3	9.563	10.520	0.55	0.75	9.03	105.00	0.000	0.000	95.03	0.00	0.00	
36	87.00	HPA-65R-BUU-H8	3	9.563	10.520	0.59	0.75	23.07	204.00	0.000	0.000	242.71	0.00	0.00	
Totals:									12,747.88						3,990.49

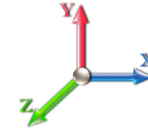
Total Applied Force Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 33



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 18

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		137.75	1385.30	0.00	0.00
10.00		135.78	1359.99	0.00	0.00
15.00		133.82	1334.67	0.00	0.00
20.00		139.90	1309.36	0.00	0.00
25.00		144.44	1284.05	0.00	0.00
30.00		147.82	1258.73	0.00	0.00
31.25		36.92	310.73	0.00	0.00
35.00		114.31	1655.01	0.00	0.00
37.50		76.58	1087.52	0.00	0.00
40.00		76.53	608.48	0.00	0.00
45.00		155.06	1197.98	0.00	0.00
50.00		156.00	1172.67	0.00	0.00
55.00		156.58	1147.35	0.00	0.00
60.00		156.85	1122.04	0.00	0.00
63.50		109.53	770.37	0.00	0.00
65.00		47.63	576.57	0.00	0.00
68.75		119.44	1421.49	0.00	0.00
70.00		39.30	269.28	0.00	0.00
75.00		157.78	1061.29	0.00	0.00
80.00		157.15	1035.97	0.00	0.00
85.00		236.43	1010.66	0.00	0.00
87.00	(32) attachments	1266.73	3901.91	0.00	0.00
90.00		138.73	533.24	0.00	0.00
95.00		228.42	868.48	0.00	0.00
96.75		78.64	297.99	0.00	0.00
97.00	(11) attachments	561.92	2429.91	0.00	0.00
100.00		83.51	837.69	0.00	0.00
101.00		27.66	275.51	0.00	0.00
105.00		109.46	573.19	0.00	0.00
110.00	(24) attachments	1046.62	3751.80	0.00	0.00
115.00		133.74	607.95	0.00	0.00
117.00	(24) attachments	1435.15	4066.99	0.00	616.41
120.00		118.42	308.64	0.00	0.00
	Totals:	7,864.63	40,832.80	0.00	616.41

Linear Appurtenance Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II

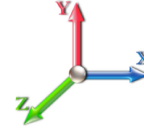


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 18

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)
5.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.135	1.105	6.614	0.00	34.50
5.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.135	1.105	6.614	0.00	1.37
5.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.135	1.105	6.614	0.00	5.00
10.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.114	6.614	0.00	34.50
10.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.114	6.614	0.00	1.37
10.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.138	1.114	6.614	0.00	5.00
15.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.141	1.124	6.614	0.00	34.50
15.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.141	1.124	6.614	0.00	1.37
15.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.141	1.124	6.614	0.00	5.00
20.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.145	1.134	7.018	0.00	34.50
20.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.145	1.134	7.018	0.00	1.37
20.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.145	1.134	7.018	0.00	5.00
25.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.148	1.145	7.355	0.00	34.50
25.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.148	1.145	7.355	0.00	1.37
25.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.148	1.145	7.355	0.00	5.00
30.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.152	1.156	7.643	0.00	34.50
30.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.152	1.156	7.643	0.00	1.37
30.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.152	1.156	7.643	0.00	5.00
31.25	Climbing Ladder	Yes	1.25	0.000	3.00	0.31	0.00	0.154	1.163	7.709	0.00	8.63
31.25	Safety Cable	Yes	1.25	0.000	3.00	0.31	0.00	0.154	1.163	7.709	0.00	0.34
31.25	1.6" Hybrid	Yes	1.25	0.000	1.60	0.17	0.00	0.154	1.163	7.709	0.00	1.25
35.00	Climbing Ladder	Yes	3.75	0.000	3.00	0.94	0.00	0.156	1.169	7.895	0.00	25.88
35.00	Safety Cable	Yes	3.75	0.000	3.00	0.94	0.00	0.156	1.169	7.895	0.00	1.02
35.00	1.6" Hybrid	Yes	3.75	0.000	1.60	0.50	0.00	0.156	1.169	7.895	0.00	3.75
37.50	Climbing Ladder	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.177	8.011	0.00	17.25
37.50	Safety Cable	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.177	8.011	0.00	0.68
37.50	1.6" Hybrid	Yes	2.50	0.000	1.60	0.33	0.00	0.159	1.177	8.011	0.00	2.50
40.00	Climbing Ladder	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.176	8.120	0.00	17.25
40.00	Safety Cable	Yes	2.50	0.000	3.00	0.63	0.00	0.159	1.176	8.120	0.00	0.68
40.00	1.6" Hybrid	Yes	2.50	0.000	1.60	0.33	0.00	0.159	1.176	8.120	0.00	2.50
45.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.162	1.185	8.324	0.00	34.50
45.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.162	1.185	8.324	0.00	1.37
45.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.162	1.185	8.324	0.00	5.00
50.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.166	1.199	8.511	0.00	34.50
50.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.166	1.199	8.511	0.00	1.37
50.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.166	1.199	8.511	0.00	5.00
55.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.171	1.213	8.683	0.00	34.50
55.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.171	1.213	8.683	0.00	1.37
55.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.171	1.213	8.683	0.00	5.00
60.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.176	1.228	8.844	0.00	34.50
60.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.176	1.228	8.844	0.00	1.37
60.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.176	1.228	8.844	0.00	5.00
63.50	Climbing Ladder	Yes	3.50	0.000	3.00	0.88	0.00	0.181	1.242	8.950	0.00	24.15
63.50	Safety Cable	Yes	3.50	0.000	3.00	0.88	0.00	0.181	1.242	8.950	0.00	0.96
63.50	1.6" Hybrid	Yes	3.50	0.000	1.60	0.47	0.00	0.181	1.242	8.950	0.00	3.50
65.00	Climbing Ladder	Yes	1.50	0.000	3.00	0.38	0.00	0.183	1.250	8.994	0.00	10.35
65.00	Safety Cable	Yes	1.50	0.000	3.00	0.38	0.00	0.183	1.250	8.994	0.00	0.41

Linear Appurtenance Segment Forces (Factored)

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind	Iterations 18
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)
65.00	1.6" Hybrid	Yes	1.50	0.000	1.60	0.20	0.00	0.183	1.250	8.994	0.00	1.50
68.75	Climbing Ladder	Yes	3.75	0.000	3.00	0.94	0.00	0.186	1.259	9.101	0.00	25.88
68.75	Safety Cable	Yes	3.75	0.000	3.00	0.94	0.00	0.186	1.259	9.101	0.00	1.02
68.75	1.6" Hybrid	Yes	3.75	0.000	1.60	0.50	0.00	0.186	1.259	9.101	0.00	3.75
70.00	Climbing Ladder	Yes	1.25	0.000	3.00	0.31	0.00	0.186	1.257	9.135	0.00	8.63
70.00	Safety Cable	Yes	1.25	0.000	3.00	0.31	0.00	0.186	1.257	9.135	0.00	0.34
70.00	1.6" Hybrid	Yes	1.25	0.000	1.60	0.17	0.00	0.186	1.257	9.135	0.00	1.25
75.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.189	1.268	9.269	0.00	34.50
75.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.189	1.268	9.269	0.00	1.37
75.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.189	1.268	9.269	0.00	5.00
80.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.287	9.396	0.00	34.50
80.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.287	9.396	0.00	1.37
80.00	1.6" Hybrid	Yes	5.00	0.000	1.60	0.67	0.00	0.196	1.287	9.396	0.00	5.00
85.00	Climbing Ladder	Yes	5.00	1.200	3.00	1.25	1.50	0.202	0.000	9.517	15.70	34.50
85.00	Safety Cable	Yes	5.00	1.200	3.00	1.25	1.50	0.202	0.000	9.517	15.70	1.37
85.00	1.6" Hybrid	Yes	5.00	1.200	1.60	0.67	0.80	0.202	0.000	9.517	8.37	5.00
87.00	Climbing Ladder	Yes	2.00	1.200	3.00	0.50	0.60	0.207	0.000	9.563	6.31	13.80
87.00	Safety Cable	Yes	2.00	1.200	3.00	0.50	0.60	0.207	0.000	9.563	6.31	0.55
87.00	1.6" Hybrid	Yes	2.00	1.200	1.60	0.27	0.32	0.207	0.000	9.563	3.37	2.00
90.00	Climbing Ladder	Yes	3.00	1.200	3.00	0.75	0.90	0.211	0.000	9.632	9.54	20.70
90.00	Safety Cable	Yes	3.00	1.200	3.00	0.75	0.90	0.211	0.000	9.632	9.54	0.82
90.00	1.6" Hybrid	Yes	3.00	1.200	1.60	0.40	0.48	0.211	0.000	9.632	5.09	3.00
95.00	Climbing Ladder	Yes	5.00	1.200	3.00	1.25	1.50	0.217	0.000	9.742	16.07	34.50
95.00	Safety Cable	Yes	5.00	1.200	3.00	1.25	1.50	0.217	0.000	9.742	16.07	1.37
95.00	1.6" Hybrid	Yes	5.00	1.200	1.60	0.67	0.80	0.217	0.000	9.742	8.57	5.00
96.75	Climbing Ladder	Yes	1.75	1.200	3.00	0.44	0.53	0.222	0.000	9.780	5.65	12.08
96.75	Safety Cable	Yes	1.75	1.200	3.00	0.44	0.53	0.222	0.000	9.780	5.65	0.48
96.75	1.6" Hybrid	Yes	1.75	1.200	1.60	0.23	0.28	0.222	0.000	9.780	3.01	1.75
97.00	Climbing Ladder	Yes	0.25	1.200	3.00	0.06	0.07	0.224	0.000	9.785	0.81	1.73
97.00	Safety Cable	Yes	0.25	1.200	3.00	0.06	0.07	0.224	0.000	9.785	0.81	0.07
97.00	1.6" Hybrid	Yes	0.25	1.200	1.60	0.03	0.04	0.224	0.000	9.785	0.43	0.25
100.00	Climbing Ladder	Yes	3.00	0.000	3.00	0.75	0.00	0.179	1.237	9.848	0.00	20.70
100.00	Safety Cable	Yes	3.00	0.000	3.00	0.75	0.00	0.179	1.237	9.848	0.00	0.82
101.00	Climbing Ladder	Yes	1.00	0.000	3.00	0.25	0.00	0.182	1.245	9.868	0.00	6.90
101.00	Safety Cable	Yes	1.00	0.000	3.00	0.25	0.00	0.182	1.245	9.868	0.00	0.27
105.00	Climbing Ladder	Yes	4.00	0.000	3.00	1.00	0.00	0.182	1.245	9.949	0.00	27.60
105.00	Safety Cable	Yes	4.00	0.000	3.00	1.00	0.00	0.182	1.245	9.949	0.00	1.09
110.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.188	1.265	10.047	0.00	34.50
110.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.188	1.265	10.047	0.00	1.37
115.00	Climbing Ladder	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.288	10.142	0.00	34.50
115.00	Safety Cable	Yes	5.00	0.000	3.00	1.25	0.00	0.196	1.288	10.142	0.00	1.37
117.00	Climbing Ladder	Yes	2.00	1.200	3.00	0.50	0.60	0.202	0.000	10.179	6.72	13.80
117.00	Safety Cable	Yes	2.00	1.200	3.00	0.50	0.60	0.202	0.000	10.179	6.72	0.55
120.00	Climbing Ladder	Yes	3.00	1.200	3.00	0.75	0.90	0.206	0.000	10.233	10.13	20.70
120.00	Safety Cable	Yes	3.00	1.200	3.00	0.75	0.90	0.206	0.000	10.233	10.13	0.82
Totals:											170.7	957.8

Calculated Forces

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 36

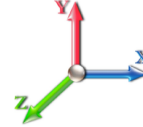


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 18

Dead Load Factor 1.00

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-40.83	-7.88	0.00	-681.72	0.00	681.72	4300.95	1164.51	5386.47	4939.14	0.00	0.000	0.000	0.148
5.00	-39.44	-7.76	0.00	-642.34	0.00	642.34	4244.87	1138.40	5147.62	4764.71	0.02	-0.036	0.000	0.144
10.00	-38.08	-7.65	0.00	-603.52	0.00	603.52	4186.94	1112.29	4914.19	4591.15	0.08	-0.073	0.000	0.141
15.00	-36.74	-7.54	0.00	-565.27	0.00	565.27	4127.16	1086.18	4686.18	4418.62	0.17	-0.109	0.000	0.137
20.00	-35.42	-7.42	0.00	-527.58	0.00	527.58	4065.53	1060.07	4463.58	4247.25	0.31	-0.146	0.000	0.133
25.00	-34.13	-7.29	0.00	-490.49	0.00	490.49	4002.04	1033.96	4246.40	4077.19	0.48	-0.183	0.000	0.129
30.00	-32.87	-7.15	0.00	-454.03	0.00	454.03	3936.71	1007.85	4034.64	3908.58	0.69	-0.220	0.000	0.125
31.25	-32.56	-7.13	0.00	-445.09	0.00	445.09	3920.09	1001.32	3982.54	3866.68	0.75	-0.229	0.000	0.123
35.00	-30.90	-7.02	0.00	-418.37	0.00	418.37	3869.52	981.74	3828.29	3741.57	0.94	-0.257	0.000	0.120
37.50	-29.81	-6.94	0.00	-400.82	0.00	400.82	3876.32	984.35	3848.67	3758.20	1.08	-0.276	0.000	0.114
40.00	-29.20	-6.88	0.00	-383.46	0.00	383.46	3842.13	971.29	3747.26	3675.25	1.23	-0.294	0.000	0.112
45.00	-28.00	-6.73	0.00	-349.07	0.00	349.07	3772.35	945.18	3548.49	3510.72	1.56	-0.329	0.000	0.107
50.00	-26.83	-6.59	0.00	-315.40	0.00	315.40	3700.72	919.07	3355.15	3348.13	1.92	-0.363	0.000	0.102
55.00	-25.68	-6.44	0.00	-282.47	0.00	282.47	3627.24	892.96	3167.21	3187.63	2.32	-0.396	0.000	0.096
60.00	-24.55	-6.28	0.00	-250.28	0.00	250.28	3551.90	866.85	2984.69	3029.36	2.75	-0.428	0.000	0.090
63.50	-23.78	-6.18	0.00	-228.29	0.00	228.29	3498.07	848.57	2860.16	2919.97	3.07	-0.450	0.000	0.085
65.00	-23.20	-6.13	0.00	-219.03	0.00	219.03	3474.72	840.74	2807.59	2873.46	3.22	-0.460	0.000	0.083
68.75	-21.78	-6.00	0.00	-196.04	0.00	196.04	3462.98	836.82	2781.49	2850.29	3.59	-0.482	0.000	0.075
70.00	-21.51	-5.97	0.00	-188.54	0.00	188.54	3443.33	830.29	2738.27	2811.80	3.71	-0.490	0.000	0.073
75.00	-20.45	-5.81	0.00	-158.69	0.00	158.69	3363.55	804.18	2568.75	2659.47	4.24	-0.516	0.000	0.066
80.00	-19.41	-5.65	0.00	-129.64	0.00	129.64	3281.92	778.07	2404.65	2509.86	4.79	-0.540	0.000	0.058
85.00	-18.40	-5.41	0.00	-101.38	0.00	101.38	3183.29	751.96	2245.96	2351.92	5.37	-0.561	0.000	0.049
87.00	-14.51	-4.11	0.00	-90.56	0.00	90.56	3139.07	741.51	2184.00	2286.71	5.61	-0.569	0.000	0.044
90.00	-13.98	-3.97	0.00	-78.24	0.00	78.24	3072.75	725.85	2092.69	2190.61	5.97	-0.579	0.000	0.040
95.00	-13.11	-3.73	0.00	-58.41	0.00	58.41	2962.22	699.74	1944.84	2035.03	6.58	-0.595	0.000	0.033
96.75	-12.81	-3.65	0.00	-51.88	0.00	51.88	2923.53	690.60	1894.37	1981.93	6.80	-0.600	0.000	0.031
97.00	-10.39	-3.06	0.00	-50.97	0.00	50.97	2918.00	689.29	1887.21	1974.40	6.84	-0.600	0.000	0.029
100.00	-9.55	-2.97	0.00	-41.78	0.00	41.78	2851.68	673.62	1802.40	1885.17	7.22	-0.608	0.000	0.026
101.00	-9.28	-2.94	0.00	-38.80	0.00	38.80	2372.90	569.89	1545.54	1593.20	7.34	-0.610	0.000	0.028
105.00	-8.71	-2.83	0.00	-27.03	0.00	27.03	2319.07	552.45	1452.42	1508.97	7.86	-0.617	0.000	0.022
110.00	-4.96	-1.74	0.00	-12.89	0.00	12.89	2246.46	530.66	1340.09	1403.50	8.51	-0.625	0.000	0.011
115.00	-4.36	-1.60	0.00	-4.18	0.00	4.18	2154.20	508.87	1232.27	1290.02	9.16	-0.628	0.000	0.005
117.00	-0.31	-0.12	0.00	-0.37	0.00	0.37	2117.29	500.15	1190.41	1245.97	9.43	-0.628	0.000	0.000
120.00	0.00	-0.12	0.00	0.00	0.00	0.00	2061.93	487.07	1128.98	1181.32	9.82	-0.629	0.000	0.000

Final Analysis Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 37



Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 115 mph Wind	32.4	0.00	48.96	0.00	0.00	2810.62
0.9D + 1.0W 115 mph Wind	32.3	0.00	36.71	0.00	0.00	2791.41
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.3	0.00	71.68	0.00	0.00	798.74
1.2D + 1.0Ev + 1.0Eh	1.0	0.00	50.55	0.00	0.00	100.22
0.9D + 1.0Ev + 1.0Eh	1.0	0.00	38.24	0.00	0.00	99.94
1.0D + 1.0W 60 mph Wind	7.9	0.00	40.83	0.00	0.00	681.72

Max Stresses


Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 115 mph Wind	-48.96	-32.35	0.00	-2810.6	0.00	-2810.6	4300.95	1164.5	5386.47	4939.14	0.00	0.581
0.9D + 1.0W 115 mph Wind	-36.71	-32.33	0.00	-2791.4	0.00	-2791.4	4300.95	1164.5	5386.47	4939.14	0.00	0.574
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-71.68	-9.34	0.00	-798.74	0.00	-798.74	4300.95	1164.5	5386.47	4939.14	0.00	0.178
1.2D + 1.0Ev + 1.0Eh	-50.55	-0.97	0.00	-100.22	0.00	-100.22	4300.95	1164.5	5386.47	4939.14	0.00	0.032
0.9D + 1.0Ev + 1.0Eh	-38.24	-0.97	0.00	-99.94	0.00	-99.94	4300.95	1164.5	5386.47	4939.14	0.00	0.029
1.0D + 1.0W 60 mph Wind	-40.83	-7.88	0.00	-681.72	0.00	-681.72	4300.95	1164.5	5386.47	4939.14	0.00	0.148

Base Plate Summary

Structure: CT03801-S-1	Code: TIA-222-H	9/6/2023
Site Name: East Granby	Exposure: C	
Height: 120.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Default	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 38



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 61.00
Moment (kip-ft): 3719.37	Width (in): 65.00	Number Bolts: 39.00
Axial (kip): 37.44	Style: Round	Bolt Type: 1.25" A687
Shear (kip): 37.03	Polygon Sides: 0.00	Bolt Diameter (in): 1.25
Analysis (1.2D + 1.0W)	Clip Length (in): 0.00	Yield (ksi): 105.00
Moment (kip-ft): 2810.62	Effective Len (in): 8.04	Ultimate (ksi): 150.00
Axial (kip): 48.96	Moment (kip-in): 141.29	Arrangement: Radial
Shear (kip): 32.35	Allow Stress (ksi): 67.50	Cluster Dist (in): 0.00
	Applied Stress (ksi): 46.58	Start Angle (deg): 0.00
	Stress Ratio: 0.69	Compression
		Force (kip): 57.96
		Allowable (kip): 115.97
		Ratio: 0.50
		Tension
		Force (kip): 55.45
		Allowable (kip): 109.13
		Ratio: 0.51

	Monopole Mat Foundation Design			Date
				9/6/2023
	Customer Name:	Verizon	TIA Standard:	TIA-222-H
	Site Name:		Structure Height (Ft.):	120
	Site Number:	CT03801-S	Engineer Name:	SBA Engineer
Engr. Number:		Engineer Login ID:		

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	49.0	Shear Force (Kips):	32.4
Uplift Force (Kips):	0.0	Moment (Kips-ft):	2810.6

Allowable overstress %: 5.0%

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	6.5	Depth of Base BG (ft.):	9.0
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	2.50
Length of Pad (ft.):	27	Width of Pad (ft.):	27

Final Length of pad (ft)	27.0	Final width of pad (ft):	27.0
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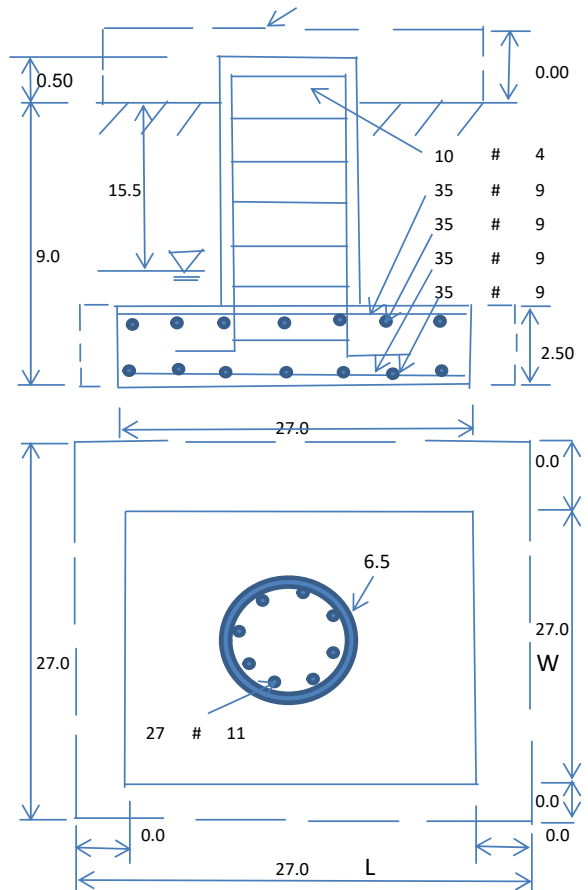
Material Properties and Rebar Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	27	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):	35	Qty. of Rebar in Pad (W):	35	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	35	Qty. of Rebar in Pad (W):	35	

Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

Soil Unit Weight (pcf):	110.0	Soil Buoyant Weight:	47.5	Pcf
Water Table B.G.S. (ft):	15.5	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	5000	Ultimate Skin Friction:	0	Psf
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No	
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:	1.00	
		Angle from Top of Pad:	30	
		Angle from Bottm of Pad:	25	
		Angle from Bottm of Pad:	25	



Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	4522.81	Total Dry Soil Weight (Kips):	497.51
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	497.51	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2054.78	Total Dry Concrete Weight (Kips):	308.22
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	308.22	Total Vertical Load on Base (Kips):	854.73

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	1922	<	Allowable Factored Soil Bearing (psf):	3750	0.51	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	10451.1	>	Design Factored Momont (kips-ft):	3118	0.30	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	3.35					OK!

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

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

Load/
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.56	Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	6141.1	>	Design Factored Moment (Mu, Kips-Ft)	3037.4	0.49 OK!
Calculated Shear Capacity (Kips):	578.1	>	Design Factored Shear (Kips):	32.4	0.06 OK!
Calculated Tension Capacity (Tn, Kips):	2274.5	>	Design Factored Tension (Tu Kips):	0.0	0.00 OK!
Calculated Compression Capacity (Pn, Kips):	8373.7	>	Design Factored Axial Load (Pu Kips):	49.0	0.01 OK!
Moment & Axial Strength Combination:	0.49	OK!	Check Tie Spacing (Design/Required):	1	OK!
Pier Reinforcement Ratio:	0.009		Reinforcement Ratio is satisfied per ACI		

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	812.6	>	One-Way Factored Shear (L-D. Kips):	246.6	0.30 OK!
One-Way Design Shear Capacity (W-Direction, Kips):	812.6	>	One-Way Factored Shear (W-D., Kips)	246.6	0.30 OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	821.0	>	One-Way Factored Shear (C-C, Kips):	228.6	0.28 OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0041	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0041	
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	4013.8	>	Moment at Bottom (L-Dir. K-Ft):	1451.5	0.36 OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	4013.8	>	Moment at Bottom (W-Dir. K-Ft):	1451.5	0.36 OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	5632.8	>	Moment at Bottom (C-C Dir. K-Ft):	2052.7	0.36 OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0041	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0041	
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	4013.8	>	Moment at the top (L-Dir K-Ft):	553.6	0.14 OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	4013.8	>	Moment at the top (W-Dir K-Ft):	553.6	0.14 OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	5632.8	>	Moment at the top (C-C Dir. K-Ft):	517.2	0.09 OK!

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

Moment transferred by punching shear:	1124.2	k-ft.	Max. factored shear stress v_{u_CD} :	3.0	Psi
Max. factored shear stress v_{u_AB} :	12.1	Psi	Factored shear Strength ϕv_n :	189.7	Psi
Max. factored shear stress v_u :	12.1	Psi	Check Usage of Punching Shear Capacity:	0.06	OK!

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

Overtuning moment to be transferred by flexure:	843.2	k-ft.	Effective Width for resisting OT moment:	14.0	ft.
Calculated number of Rebar in Effective width:	19		Actual number of Rebar in Effective width:	19	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	2175.1	k-ft.	Check Usage of the Flexure Capacity:	0.39	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 #: 10209714
Colliers Engineering & Design CT, P.C. Project #: 23777286

September 18, 2023

Site Information

Site ID: 5000385252-VZW / E GRANBY 2 CT
Site Name: E GRANBY 2 CT
Carrier Name: Verizon Wireless
Address: 56 Floydville Road
East Granby, Connecticut 06026
Hartford County
Latitude: 41.928650°
Longitude: -72.776100°

Structure Information

Tower Type: 120-Ft Monopole
Mount Type: 13.67-Ft Platform

FUZE ID # 17136786

Analysis Results

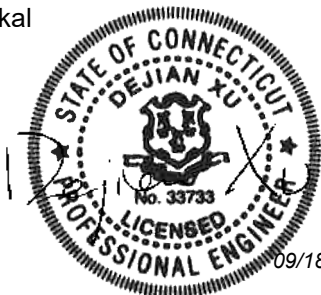
Platform: 78.6% Pass*

***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: Prasanna Dhakal



09/18/2023

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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 323807, dated November 1, 2021</i>
<i>Post-Modification Antenna Mount Analysis Report & Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21777107A (Rev. 1), dated November 3, 2021</i>
<i>Final Loading Configuration</i>	<i>Filter Add Scope Provided by Verizon Wireless</i>

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: 1.50 in
Risk Category: II
Exposure Category: C
Topographic Category: 1
Topographic Feature Considered: N/A
Topographic Method: N/A
Ground Elevation Factor, K_e : 0.977

Seismic Parameters: S_s : 0.173 g
 S_1 : 0.054 g

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph
Maintenance Load, L_v : 250 lbs.
Maintenance Load, L_m : 500 lbs.

Analysis Software: RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
114.50	118.00	2	KAelus	KA-6030	Added
		6	CommScope	NHH-65B-R2B	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		1	Raycap	RVZDC-6627-PF-48	
		3	CommScope	HBXX-6517DS-A2M	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design CT, P.C. and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design CT, P.C. to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT, P.C. is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. It is assumed that the mount modifications listed under Sources of Information have been installed per the design specifications.

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
<i>Corner Plate</i>	<i>50.0%</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>18.3%</i>	<i>Pass</i>
<i>Mount Pipe</i>	<i>46.4%</i>	<i>Pass</i>
<i>Cross Member</i>	<i>78.6%</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>17.1%</i>	<i>Pass</i>
<i>Support Rail</i>	<i>23.8%</i>	<i>Pass</i>
<i>Support Rail Corner Angle</i>	<i>52.2%</i>	<i>Pass</i>
<i>Kicker</i>	<i>15.8%</i>	<i>Pass</i>
<i>Mount Connection (Bolt)</i>	<i>12.9%</i>	<i>Pass</i>
<i>Mount Connection (Weld)</i>	<i>16.1%</i>	<i>Pass</i>
Structure Rating – (Controlling Utilization of all Components)		78.6%

BASELINE mount weight per SBA agreement: 3312.38 lbs

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

The weights listed above include 3 sectors.

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	27.5	27.5	48.3	48.3
0.5	36.6	36.6	65.7	65.7
1	44.4	44.4	82.0	82.0

Notes:

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

Requirements:

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

1. Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.
2. Contractor shall verify that previous mount modification as proposed in mount modification drawings by Maser Consulting Connecticut, Project #: 21777107A (Rev. 1), dated November 3, 2021 has been installed prior to installation of proposed filters.

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 #: 5000385252

SMART Project #: 10209714

Fuze Project ID: 17136786

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:

1. Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.
2. Contractor shall verify that previous mount modification as proposed in mount modification drawings by Maser Consulting Connecticut, Project #: 21777107A (Rev. 1), dated November 3, 2021 has been installed prior to installation of proposed filters.

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

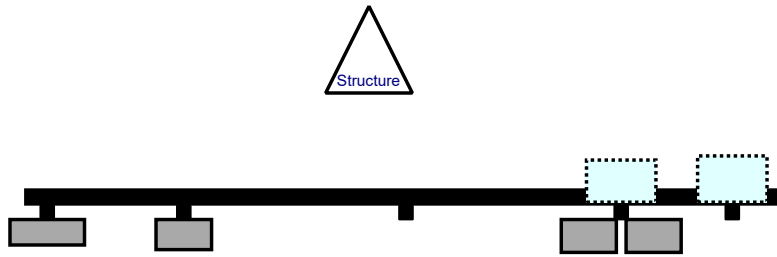
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

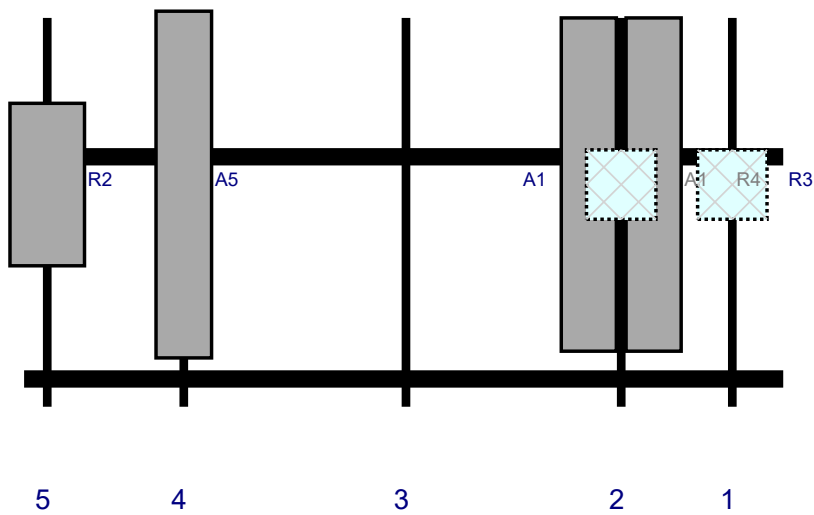
Certifying Individual:

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

Plan View

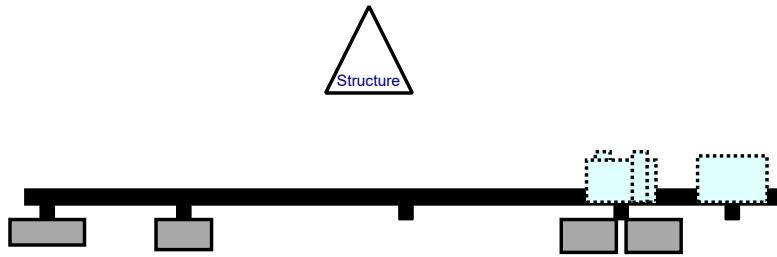


Front View - Looking at Structure

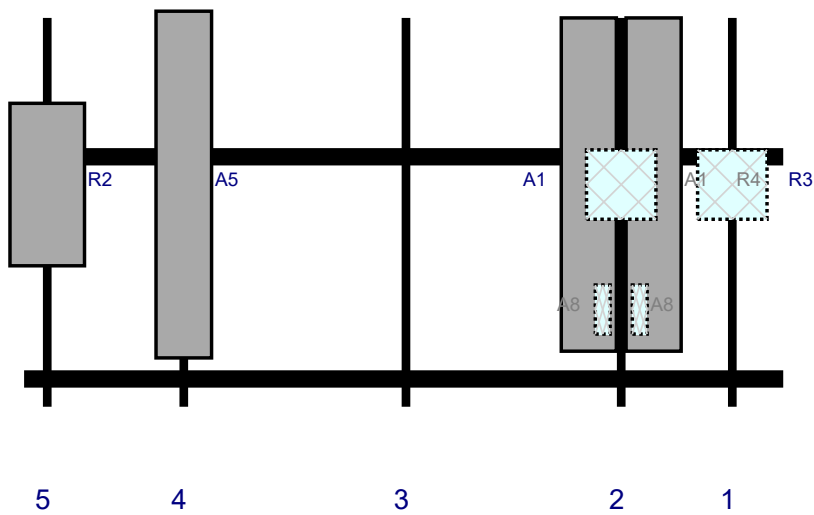


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	RF4439d-25A	15	15	153	1	a	Behind	36	0	Retained	
A1	NHH-65B-R2B	72	11.9	129	2	a	Front	36	7	Retained	
A1	NHH-65B-R2B	72	11.9	129	2	b	Front	36	-7	Retained	
R4	RF4440d-13A	15	15	129	2	a	Behind	36	0	Retained	
A5	HBXX-6517DS-A2M	74.9	12	34.5	4	a	Front	36	0	Retained	02/24/2021
R2	MT6407-77A	35.1	16.1	5	5	a	Front	36	0	Retained	
OVP	RVZDC-6627-PF-48	29.5	16.5			Member				Retained	

Plan View

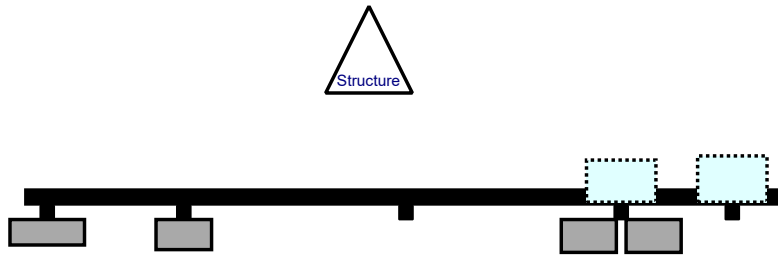


Front View - Looking at Structure

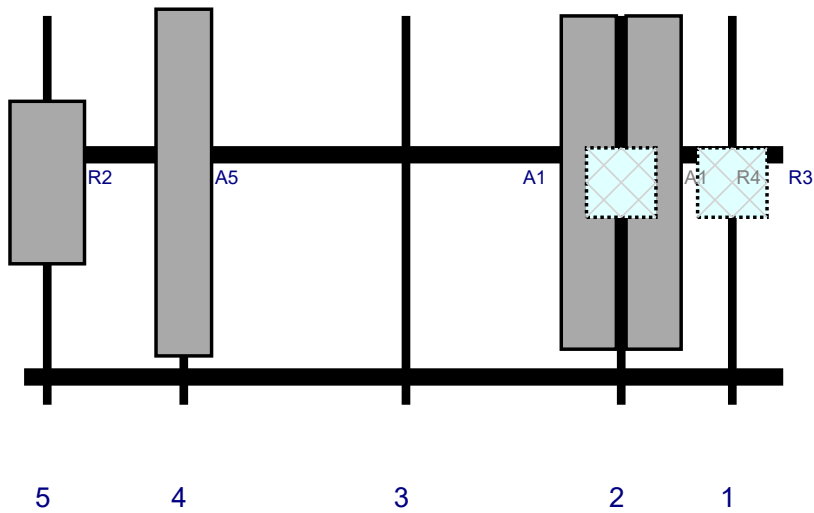


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	RF4439d-25A	15	15	153	1	a	Behind	36	0	Retained	
A1	NHH-65B-R2B	72	11.9	129	2	a	Front	36	7	Retained	
A1	NHH-65B-R2B	72	11.9	129	2	b	Front	36	-7	Retained	
R4	RF4440d-13A	15	15	129	2	a	Behind	36	0	Retained	
A8	KA-6030	10.6	3.2	129	2	a	Behind	63	4	Added	
A8	KA-6030	10.6	3.2	129	2	b	Behind	63	-4	Added	
A5	HBXX-6517DS-A2M	74.9	12	34.5	4	a	Front	36	0	Retained	02/24/2021
R2	MT6407-77A	35.1	16.1	5	5	a	Front	36	0	Retained	

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	RF4439d-25A	15	15	153	1	a	Behind	36	0	Retained	
A1	NHH-65B-R2B	72	11.9	129	2	a	Front	36	7	Retained	
A1	NHH-65B-R2B	72	11.9	129	2	b	Front	36	-7	Retained	
R4	RF4440d-13A	15	15	129	2	a	Behind	36	0	Retained	
A5	HBXX-6517DS-A2M	74.9	12	34.5	4	a	Front	36	0	Retained	02/24/2021
R2	MT6407-77A	35.1	16.1	5	5	a	Front	36	0	Retained	



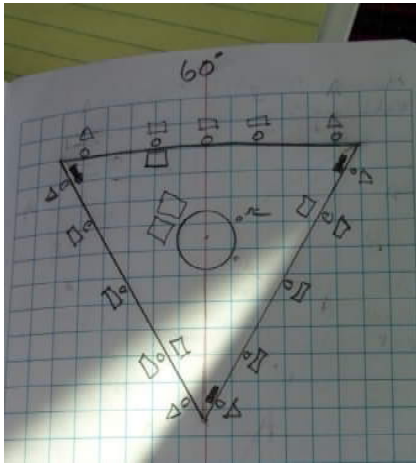


Antenna Mount Mapping Form (PATENT PENDING)

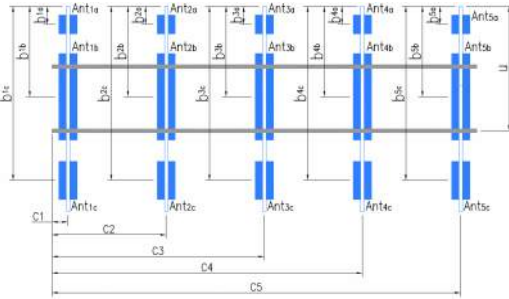
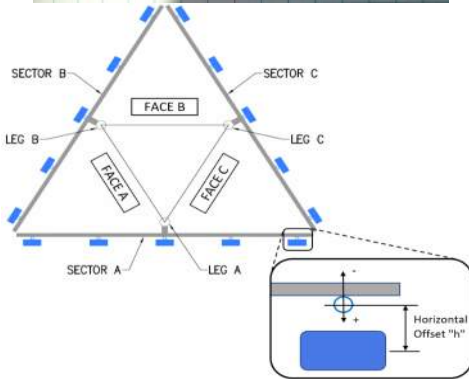
FCC #

Tower Owner:	SBA	Mapping Date:	2/24/2021
Site Name:	East Grandby 2 CT	Tower Type:	Monopole
Site Number or ID:	16272242	Tower Height (Ft.):	120
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	118

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.



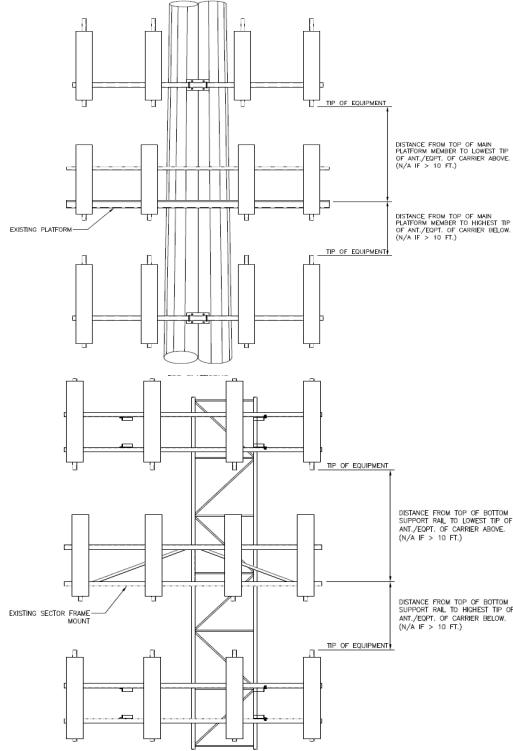
Mount Pipe Configuration and Geometries [Unit = Inches]								
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	
A1	2-3/8 x .154 x 84	78.00	11.00	C1	2-3/8 x .154 x 84	78.00	12.00	
A2	2-3/8 x .154 x 84	78.00	35.00	C2	2-3/8 x .154 x 84	78.00	36.00	
A3	2-3/8 x .154 x 84	78.00	81.50	C3	2-3/8 x .154 x 84	78.00	83.00	
A4	2-3/8 x .154 x 84	78.00	129.50	C4	2-3/8 x .154 x 84	78.00	130.50	
A5	2-3/8 x .154 x 84	78.00	151.50	C5	2-3/8 x .154 x 84	78.00	155.50	
A6				C6				
B1	2-3/8 x .154 x 84	78.00	12.00	D1				
B2	2-3/8 x .154 x 84	78.00	35.00	D2				
B3	2-3/8 x .154 x 84	78.00	79.00	D3				
B4	2-3/8 x .154 x 84	78.00	129.00	D4				
B5	2-3/8 x .154 x 84	78.00	153.00	D5				
B6				D6				
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :								
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :								
Please enter additional information or comments below.								
Tower Face Width at Mount Elev. (ft.):				Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				29



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	
Sector A										
Ant _{1a}	comm CBC7821-DF	7.00	3.00	7.50	1-5/8" T	122.75	21.00	-2.00		207
Ant _{1b}	LPA 80080/ 4CF EDIN	5.50	13.00	47.00	Jumpers	122	30.00	13.50	60.00	9
Ant _{1c}										
Ant _{2a}	B4 RRH 2x60-4R	11.00	6.00	36.00	HYB	121.833	32.00	-7.00		215
Ant _{2b}	comm HBXX-6517 DS	12.00	5.00	75.00	Jumpers	120.583	47.00	8.00	60.00	9
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	comm LNX-6514DS-A	12.00	7.00	72.00	Jumpers	121	42.00	7.50	60.00	9,229
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	comm HBXX-6517 DS	12.00	5.00	75.00	Jumpers	120.583	47.00	8.00	60.00	9,229
Ant _{4c}										
Ant _{5a}	comm CBC7821-DF	7.00	3.00	7.50	1-5/8" T	122.5	24.00	-2.00		229
Ant _{5b}	LPA 80080/ 4CF EDIN	5.50	13.00	47.00	Jumpers	122	30.00	13.50	60.00	9,229
Ant _{5c}										
Ant on Standoff										
Ant on Standoff	(2) RRFD-3315-PF-48	14.50	11.00	19.00	2) 1.5 HYB		35.00			188
Ant on Tower										
Ant on Tower										

Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B																		
Sector A:	Deg	Leg A:	Deg	Leg B:	Deg	Ant _{1a}	Ant _{1b}	Ant _{1c}	Ant _{2a}	Ant _{2b}	Ant _{2c}	Ant _{3a}	Ant _{3b}	Ant _{3c}	Ant _{4a}	Ant _{4b}	Ant _{4c}	Ant _{5a}	Ant _{5b}	Ant _{5c}	Ant on Standoff	Ant on Standoff	Ant on Tower	Ant on Tower
Sector A:	60.00	Deg	Leg A:		Deg	Ant _{1a}	comm CBC7821-DF	7.00	3.00	7.50	1-5/8"	122.625	22.50	-2.00										17,259
Sector B:	180.00	Deg	Leg B:		Deg	Ant _{1b}	LPA 80080/ 4CF EDIN	5.50	13.00	47.00	Jumpers	122	30.00	13.50	180.00									17,43
Sector C:	300.00	Deg	Leg C:		Deg	Ant _{1c}	B4 RRH 2x60-4R	11.00	6.00	36.00	HYB	121.833	32.00	-7.00										267
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	comm HBXX-6517 DS	12.00	5.00	75.00	Jumpers	120.583	47.00	8.00	180.00									17,43
Climbing Facility Information																								
Location:	100.00	Deg	N/A			Ant _{2c}																		
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3a}																		
	Access:		Climbing path was unobstructed.			Ant _{3b}	comm LNX-6514DS-A	12.00	7.00	72.00	Jumpers	121	42.00	7.50	180.00									17,43, 274
	Condition:		Damaged safety cable.			Ant _{3c}																		
Sector B																								
Sector C																								
Sector D																								



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

1	safety climb top attachment pushed out of plumb at top attachment	
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.



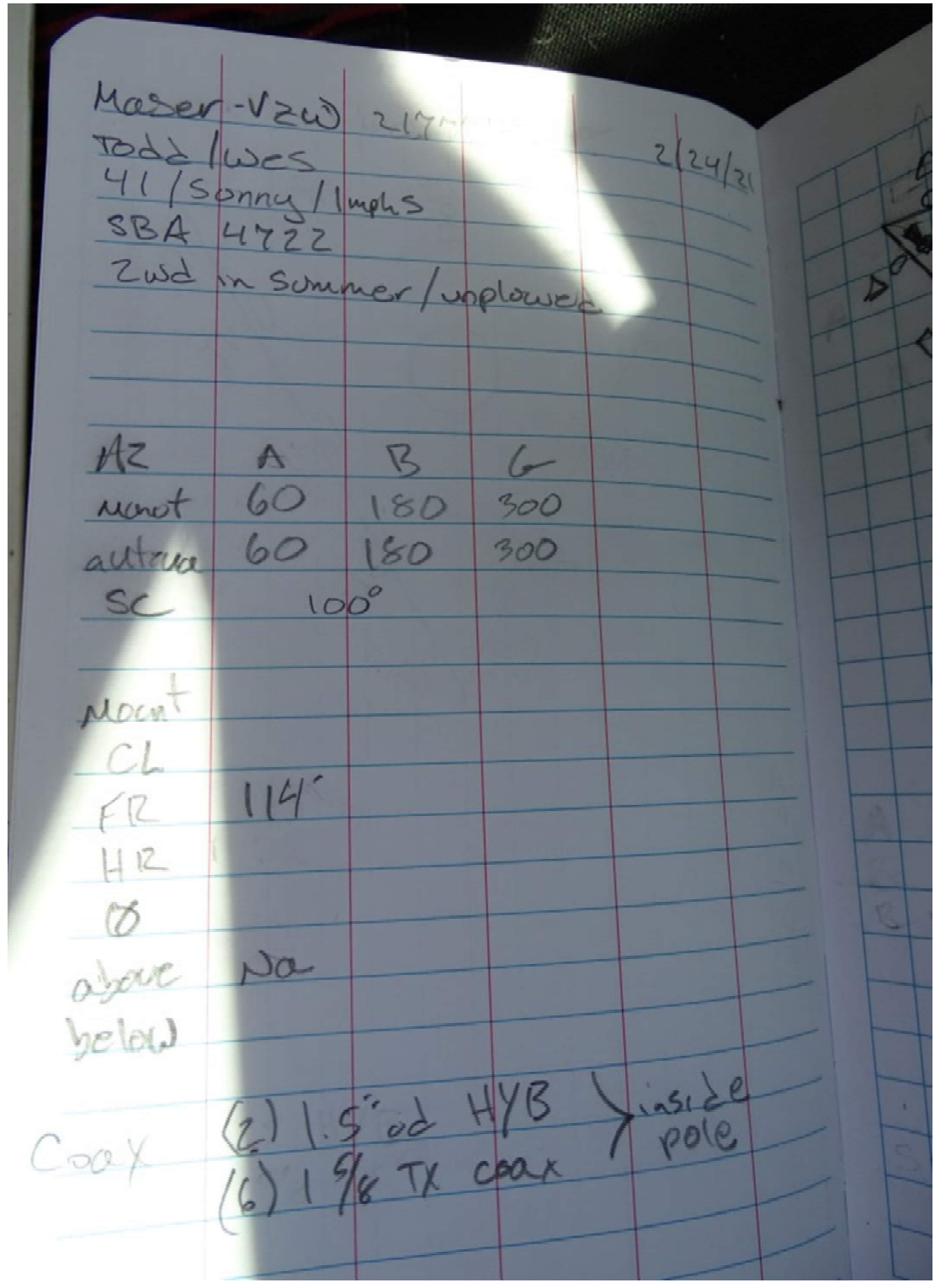
Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	SBA	Mapping Date:	2/24/2021
Site Name:	East Grandby 2 CT	Tower Type:	Monopole
Site Number or ID:	16272242	Tower Height (Ft.):	120
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	118

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.

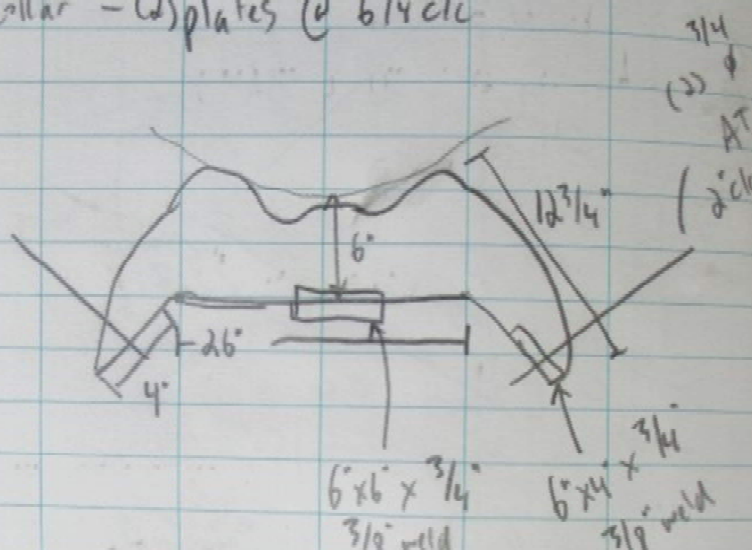
Please Insert Sketches of the Antenna Mount



21777107 E. Granby CT 2/24/21
 Maser / VZw MM Wes Todd
 4wd winter access - not plowed
 30-35°F, Sunny, 5 MPH W Gnx 4722

Pole @ top = 38 - 4 1/2 x 2 = 29"

Collar - (2) plates @ 6 1/4" c/c

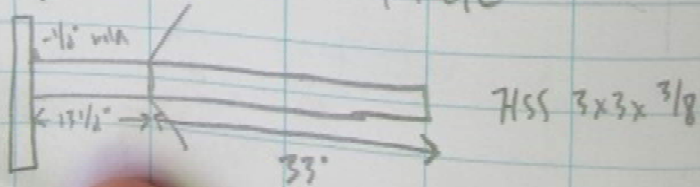


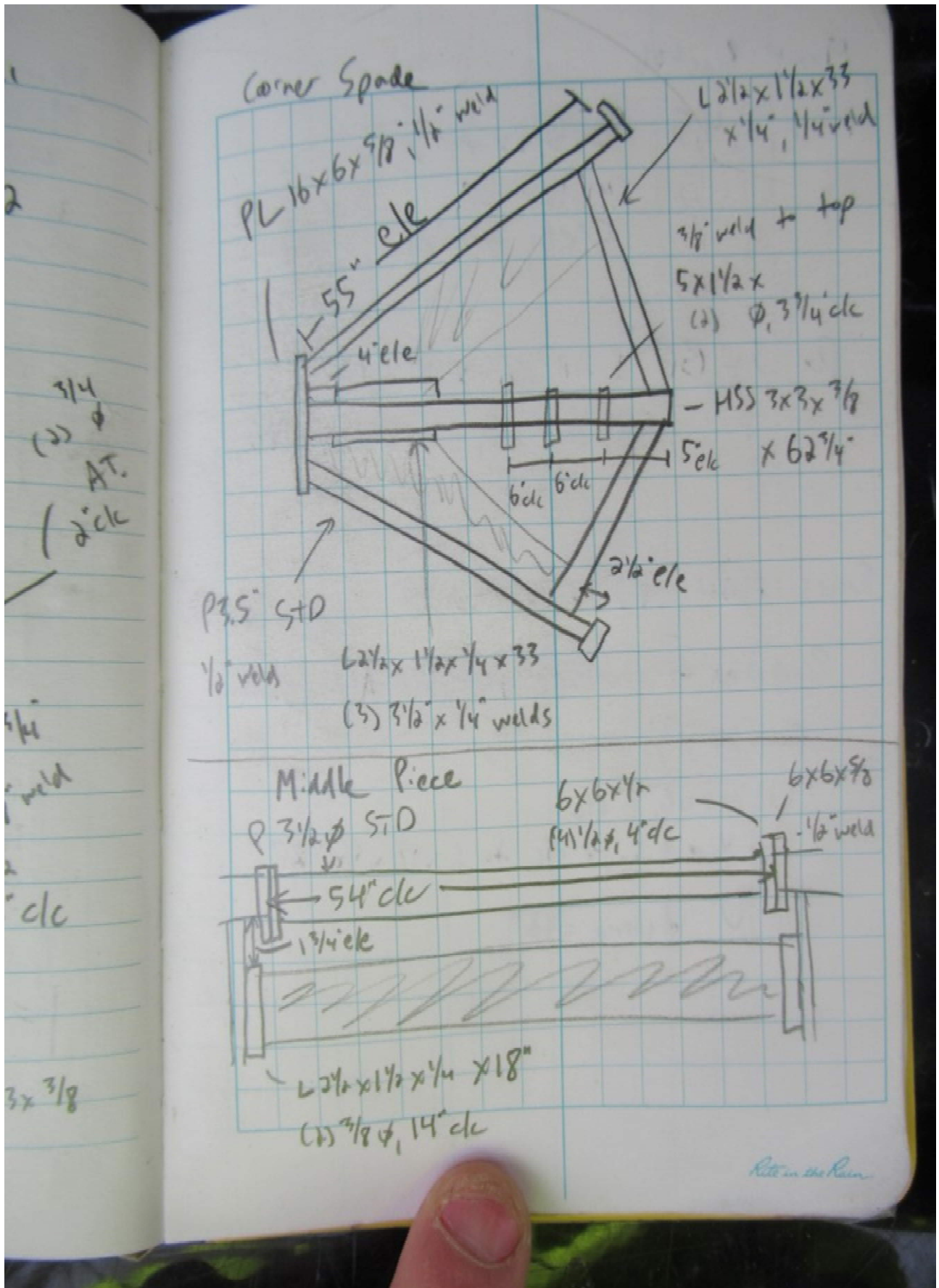
extra upper plate = 13 x 2 1/2 x 1/2

(2) 5/8" φ, 12" c/c

Standoff Arm

PL 6 x 6 x 3/4 (4) 5/8" φ, 4" c/c





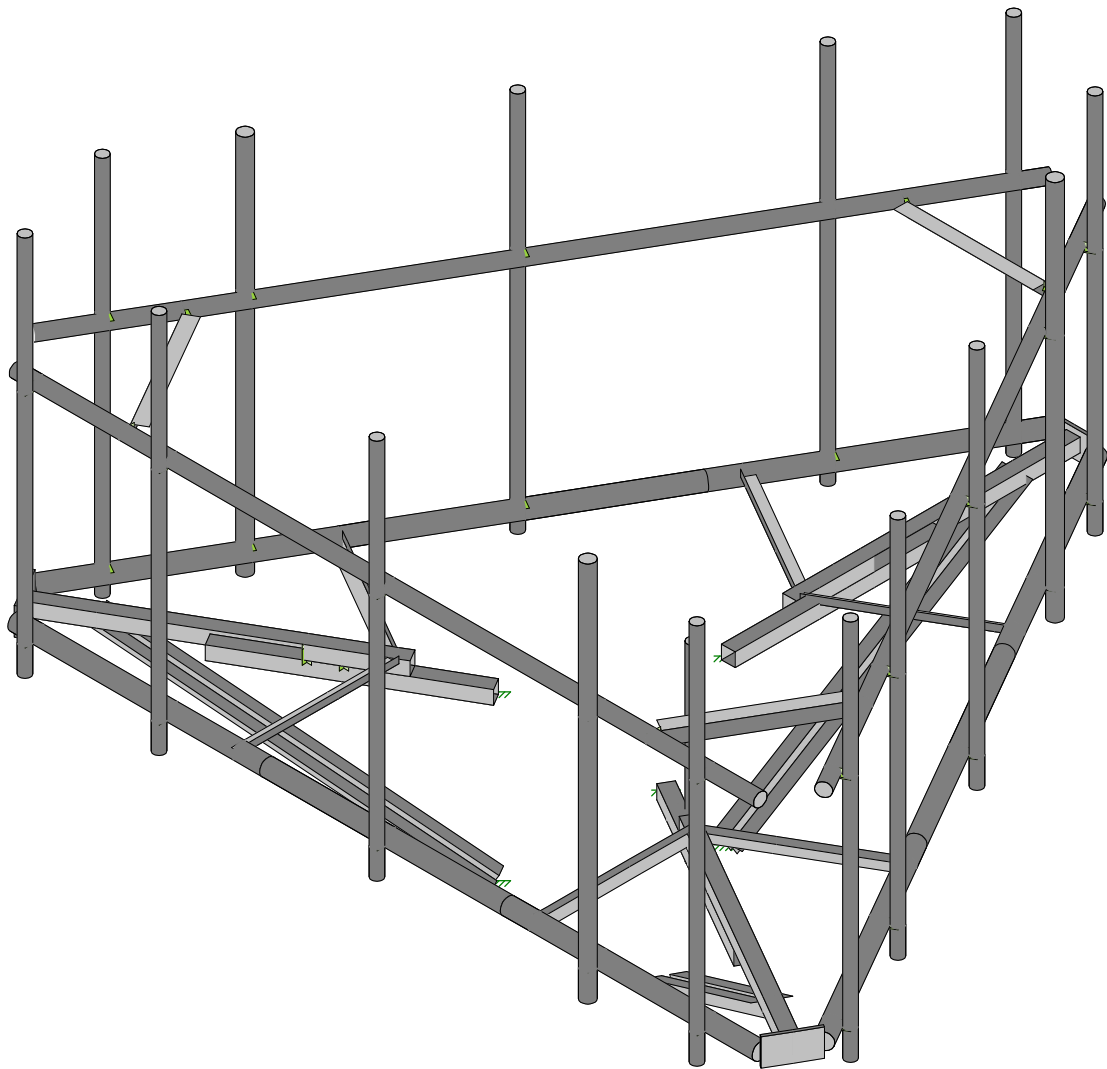
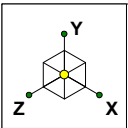
Mount Brackets

Pos 1, 2, 4, 5 - PL $8\frac{1}{4} \times 7 \times \frac{1}{2}$ (4) $\frac{1}{2}$ UB5" dc, $6\frac{3}{4}$ dcPos 3 - BP 8" tall $\times 6" \times 2" \times \frac{3}{8}$ (4) $\frac{1}{2}$ UB, $6\frac{1}{2}$ dc - 4" dcSurge Mount P $2\frac{3}{8} \times 0.154 \times 42$

Bracketed to standoff arm for Alpha/Gamma

PL $7 \times 7 \times \frac{3}{8}$ (4) $\frac{1}{2}$ UB, 6" dc(4) $\frac{1}{2}$ A.T., 7" dc to $6 \times 1\frac{1}{2} \times \frac{1}{4}$ BP

"U" distance = 32"



Envelope Only Solution

Colliers Engineering & De...

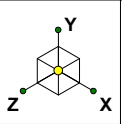
Project # 23777286

Antenna Mount Analysis

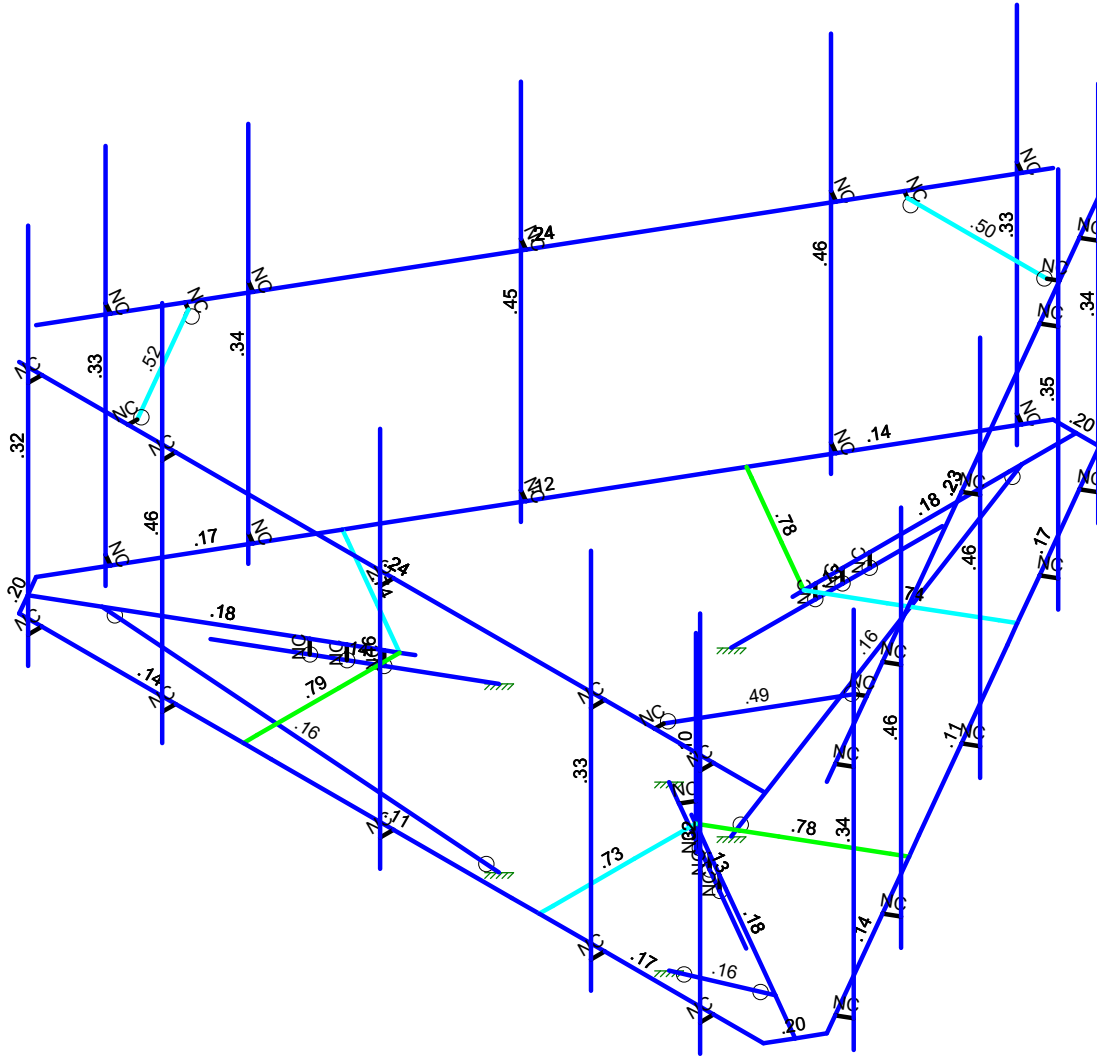
SK - 1

Sept 18, 2023 at 9:04 AM

5000385252-VZW_MT_LO_H.r3d



Code Check (Env)	
Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...

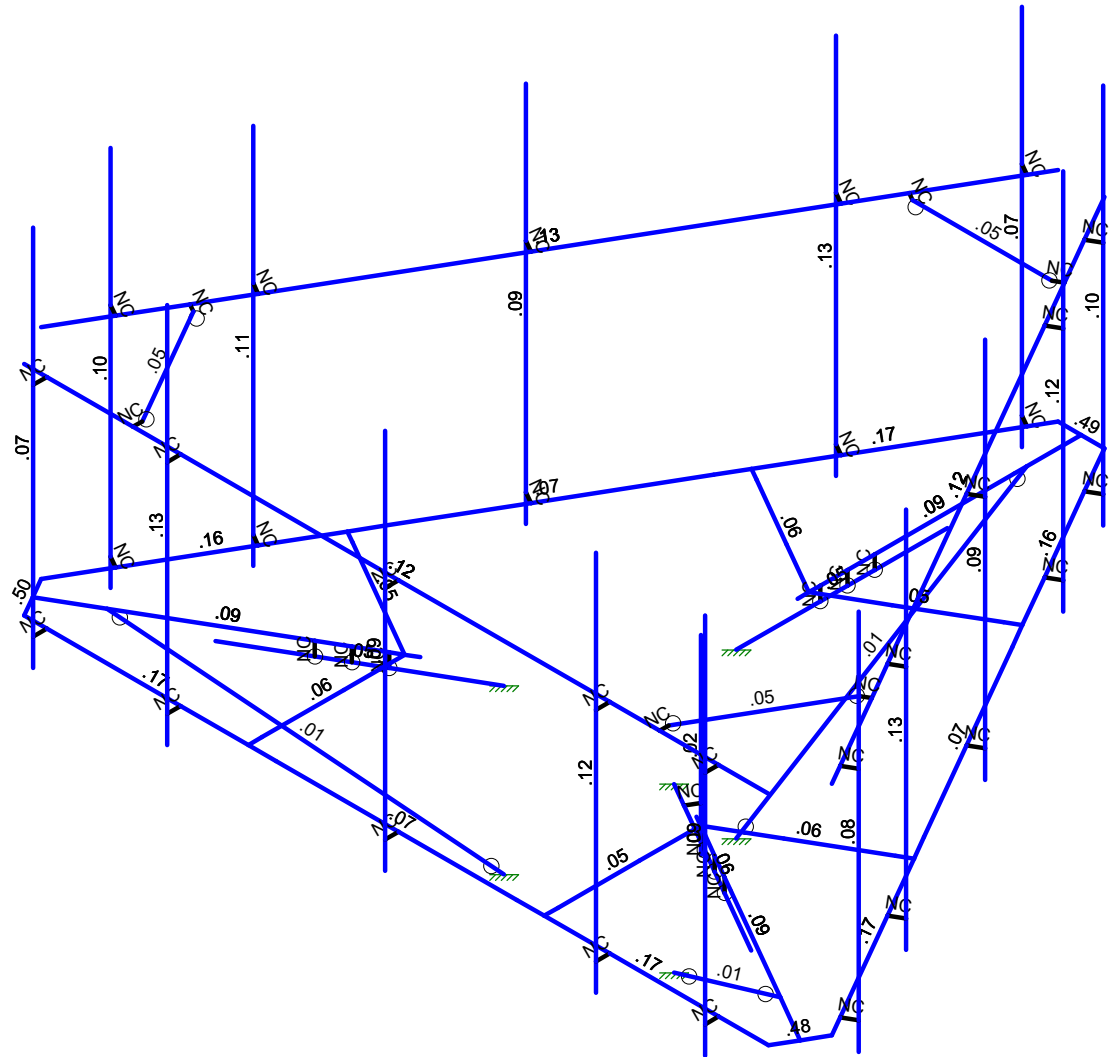
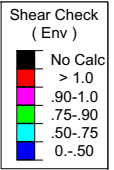
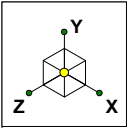
Antenna Mount Analysis

SK - 2

Sept 18, 2023 at 9:04 AM

Project # 23777286

5000385252-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...		SK - 3
	Antenna Mount Analysis	Sept 18, 2023 at 9:04 AM
Project # 23777286		5000385252-VZW_MT_LO_H.r3d



Basic Load Cases

	BLC Description	Category	X Gr...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Member)	Surfa...
1	Antenna D	None					99			
2	Antenna Di	None					99			
3	Antenna Wo (0 Deg)	None					99			
4	Antenna Wo (30 Deg)	None					99			
5	Antenna Wo (60 Deg)	None					99			
6	Antenna Wo (90 Deg)	None					99			
7	Antenna Wo (120 Deg)	None					99			
8	Antenna Wo (150 Deg)	None					99			
9	Antenna Wo (180 Deg)	None					99			
10	Antenna Wo (210 Deg)	None					99			
11	Antenna Wo (240 Deg)	None					99			
12	Antenna Wo (270 Deg)	None					99			
13	Antenna Wo (300 Deg)	None					99			
14	Antenna Wo (330 Deg)	None					99			
15	Antenna Wi (0 Deg)	None					99			
16	Antenna Wi (30 Deg)	None					99			
17	Antenna Wi (60 Deg)	None					99			
18	Antenna Wi (90 Deg)	None					99			
19	Antenna Wi (120 Deg)	None					99			
20	Antenna Wi (150 Deg)	None					99			
21	Antenna Wi (180 Deg)	None					99			
22	Antenna Wi (210 Deg)	None					99			
23	Antenna Wi (240 Deg)	None					99			
24	Antenna Wi (270 Deg)	None					99			
25	Antenna Wi (300 Deg)	None					99			
26	Antenna Wi (330 Deg)	None					99			
27	Antenna Wm (0 Deg)	None					99			
28	Antenna Wm (30 Deg)	None					99			
29	Antenna Wm (60 Deg)	None					99			
30	Antenna Wm (90 Deg)	None					99			
31	Antenna Wm (120 Deg)	None					99			
32	Antenna Wm (150 Deg)	None					99			
33	Antenna Wm (180 Deg)	None					99			
34	Antenna Wm (210 Deg)	None					99			
35	Antenna Wm (240 Deg)	None					99			
36	Antenna Wm (270 Deg)	None					99			
37	Antenna Wm (300 Deg)	None					99			
38	Antenna Wm (330 Deg)	None					99			
39	Structure D	None		-1					9	
40	Structure Di	None						49	9	
41	Structure Wo (0 Deg)	None						98		
42	Structure Wo (30 Deg)	None						98		
43	Structure Wo (60 Deg)	None						98		
44	Structure Wo (90 Deg)	None						98		
45	Structure Wo (120 Deg)	None						98		
46	Structure Wo (150 Deg)	None						98		
47	Structure Wo (180 Deg)	None						98		
48	Structure Wo (210 Deg)	None						98		
49	Structure Wo (240 Deg)	None						98		
50	Structure Wo (270 Deg)	None						98		
51	Structure Wo (300 Deg)	None						98		
52	Structure Wo (330 Deg)	None						98		
53	Structure Wi (0 Deg)	None						98		
54	Structure Wi (30 Deg)	None						98		
55	Structure Wi (60 Deg)	None						98		
56	Structure Wi (90 Deg)	None						98		



Basic Load Cases (Continued)

BLC Description	Category	X Gr...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Member)	Surfa...
57 Structure Wi (120 Deg)	None						98		
58 Structure Wi (150 Deg)	None						98		
59 Structure Wi (180 Deg)	None						98		
60 Structure Wi (210 Deg)	None						98		
61 Structure Wi (240 Deg)	None						98		
62 Structure Wi (270 Deg)	None						98		
63 Structure Wi (300 Deg)	None						98		
64 Structure Wi (330 Deg)	None						98		
65 Structure Wm (0 Deg)	None						98		
66 Structure Wm (30 Deg)	None						98		
67 Structure Wm (60 Deg)	None						98		
68 Structure Wm (90 Deg)	None						98		
69 Structure Wm (120 Deg)	None						98		
70 Structure Wm (150 Deg)	None						98		
71 Structure Wm (180 Deg)	None						98		
72 Structure Wm (210 Deg)	None						98		
73 Structure Wm (240 Deg)	None						98		
74 Structure Wm (270 Deg)	None						98		
75 Structure Wm (300 Deg)	None						98		
76 Structure Wm (330 Deg)	None						98		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			
81 Antenna Ev	None					99			
82 Antenna Eh (0 Deg)	None					66			
83 Antenna Eh (90 Deg)	None					66			
84 Structure Ev	ELY		-0.0369					9	
85 Structure Eh (0 Deg)	ELZ			-0.0923				9	
86 Structure Eh (90 Deg)	ELX	.0923						9	
87 BLC 39 Transient Area Loads	None						45		
88 BLC 40 Transient Area Loads	None						45		
89 BLC 84 Transient Area Loads	None						70		
90 BLC 85 Transient Area Loads	None						70		
91 BLC 86 Transient Area Loads	None						70		

Load Combinations

Description	S...	PDel...	SR...	BLC Fa...	BLC Fa...	BLC Fa...	B...Fa...	B...Fa...	B...Fa...	BLC Fa...	B...Fa...	B...Fa...	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 De...	Yes	Y		1	1.2	39	1.2	7	1	45	1		
6 1.2D+1.0Wo (150 De...	Yes	Y		1	1.2	39	1.2	8	1	46	1		
7 1.2D+1.0Wo (180 De...	Yes	Y		1	1.2	39	1.2	9	1	47	1		
8 1.2D+1.0Wo (210 De...	Yes	Y		1	1.2	39	1.2	10	1	48	1		
9 1.2D+1.0Wo (240 De...	Yes	Y		1	1.2	39	1.2	11	1	49	1		
10 1.2D+1.0Wo (270 De...	Yes	Y		1	1.2	39	1.2	12	1	50	1		
11 1.2D+1.0Wo (300 De...	Yes	Y		1	1.2	39	1.2	13	1	51	1		
12 1.2D+1.0Wo (330 De...	Yes	Y		1	1.2	39	1.2	14	1	52	1		
13 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1
14 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1
15 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1
16 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1
17 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1



Load Combinations (Continued)

Description	S...	PDel...	SR...	BLC	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
75	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	ELZ	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0	0	0	0	
2	N14	0.426321	0	-8.13659	0	
3	N27	-0.426321	0	-8.13659	0	
4	N38	-0.	0	-8.13659	0	
5	N39	-0.	0	-2.928257	0	
6	N44	-0.	-25	-5.678257	0	
7	N45	-0.	-25	-1.803257	0	
8	N46	-0.	0	-4.344924	0	
9	N47	-0.	0	-3.844924	0	
10	N48	-0.	0	-3.344924	0	
11	N49	-0.	-25	-4.344924	0	
12	N50	-0.	-25	-3.844924	0	
13	N51	-0.	-25	-3.344924	0	
14	N69	-0.	0	-3.13659	0	
15	N76	2.484804	0	-4.571193	0	
16	N77	-2.484804	0	-4.571193	0	
17	N115	5.916667	0	4.4375	0	
18	N116	5.916667	0	4.6875	0	
19	N117	5.916667	6.5	4.6875	0	
20	N118	5.916667	-0.5	4.6875	0	
21	N78	6.833333	0	4.4375	0	
22	N79	-6.833333	0	4.4375	0	
23	N80A	-2.208333	0	4.4375	0	
24	N81	2.208333	0	4.4375	0	
25	N36	-7.259654	0	3.69909	0	
26	N38A	-7.046494	0	4.068295	0	
27	N39A	-2.535945	0	1.464128	0	
28	N40	-4.917515	-25	2.839128	0	
29	N41	-1.561666	-25	0.901628	0	
30	N42	-3.762814	0	2.172462	0	
31	N43	-3.329802	0	1.922462	0	
32	N44A	-2.896789	0	1.672462	0	
33	N45A	-3.762814	-25	2.172462	0	
34	N46A	-3.329802	-25	1.922462	0	
35	N47A	-2.896789	-25	1.672462	0	
36	N48A	-2.716367	0	1.568295	0	
37	N49A	-5.201171	0	0.133693	0	
38	N50A	-2.716367	0	4.4375	0	
39	N63	7.259654	0	3.69909	0	
40	N64	7.046494	0	4.068295	0	
41	N65	2.535945	0	1.464128	0	
42	N66	4.917515	-25	2.839128	0	
43	N67	1.561666	-25	0.901628	0	
44	N68	3.762814	0	2.172462	0	
45	N69A	3.329802	0	1.922462	0	
46	N70	2.896789	0	1.672462	0	
47	N71	3.762814	-25	2.172462	0	
48	N72	3.329802	-25	1.922462	0	
49	N73	2.896789	-25	1.672462	0	
50	N74	2.716367	0	1.568295	0	
51	N75	2.716367	0	4.4375	0	



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N76A	5.201171	0	0.133693	0	
53	N88	4.947154	0	-0.306277	0	
54	N89	2.738821	0	-4.131223	0	
55	N92	-2.738821	0	-4.131223	0	
56	N93	-4.947154	0	-0.306277	0	
57	N82A	3.916667	0	4.4375	0	
58	N83A	3.916667	0	4.6875	0	
59	N84	3.916667	6.5	4.6875	0	
60	N85	3.916667	-0.5	4.6875	0	
61	N86	0.041667	0	4.4375	0	
62	N87	0.041667	0	4.6875	0	
63	N88A	0.041667	6.5	4.6875	0	
64	N89A	0.041667	-0.5	4.6875	0	
65	N90	-3.958333	0	4.4375	0	
66	N91	-3.958333	0	4.6875	0	
67	N92A	-3.958333	6.5	4.6875	0	
68	N93A	-3.958333	-0.5	4.6875	0	
69	N94	-6.416667	0	4.4375	0	
70	N95	-6.416667	0	4.6875	0	
71	N96	-6.416667	6.5	4.6875	0	
72	N97	-6.416667	-0.5	4.6875	0	
73	N98	0.926321	0	-7.270565	0	
74	N99	1.142827	0	-7.395565	0	
75	N100	1.142827	6.5	-7.395565	0	
76	N101	1.142827	-0.5	-7.395565	0	
77	N102	-6.759654	0	2.833065	0	
78	N103	-6.976161	0	2.708065	0	
79	N104	-6.976161	6.5	2.708065	0	
80	N105	-6.976161	-0.5	2.708065	0	
81	N106	-5.801321	0	1.173183	0	
82	N107	-6.017827	0	1.048183	0	
83	N108	-6.017827	6.5	1.048183	0	
84	N109	-6.017827	-0.5	1.048183	0	
85	N110	-3.967988	0	-2.002244	0	
86	N111	-4.184494	0	-2.127244	0	
87	N112	-4.184494	6.5	-2.127244	0	
88	N113	-4.184494	-0.5	-2.127244	0	
89	N114	-1.884654	0	-5.610683	0	
90	N115A	-2.101161	0	-5.735683	0	
91	N116A	-2.101161	6.5	-5.735683	0	
92	N117A	-2.101161	-0.5	-5.735683	0	
93	N118A	-0.634654	0	-7.775746	0	
94	N119	-0.851161	0	-7.900746	0	
95	N120	-0.851161	6.5	-7.900746	0	
96	N121	-0.851161	-0.5	-7.900746	0	
97	N122	1.926321	0	-5.538514	0	
98	N123	2.142827	0	-5.663514	0	
99	N124	2.142827	6.5	-5.663514	0	
100	N125	2.142827	-0.5	-5.663514	0	
101	N126	3.884654	0	-2.146581	0	
102	N127	4.101161	0	-2.271581	0	
103	N128	4.101161	6.5	-2.271581	0	
104	N129	4.101161	-0.5	-2.271581	0	
105	N130	5.863821	0	1.281436	0	
106	N131	6.080327	0	1.156436	0	
107	N132	6.080327	6.5	1.156436	0	
108	N133	6.080327	-0.5	1.156436	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N134	7.051321	0	3.338246	0	
110	N135	7.267827	0	3.213246	0	
111	N136	7.267827	6.5	3.213246	0	
112	N137	7.267827	-0.5	3.213246	0	
113	N142	1.994679	-25	1.151628	0	
114	N143	2.109262	-25	0.953164	0	
115	N144	2.109262	-1.083333	0.953164	0	
116	N145	2.109262	2.416667	0.953164	0	
117	N136A	5.916667	4	4.4375	0	
118	N137A	5.916667	4	4.6875	0	
119	N138	6.833333	4	4.4375	0	
120	N139	-6.833333	4	4.4375	0	
121	N140	3.916667	4	4.4375	0	
122	N141	3.916667	4	4.6875	0	
123	N142A	0.041667	4	4.4375	0	
124	N143A	0.041667	4	4.6875	0	
125	N144A	-3.958333	4	4.4375	0	
126	N145A	-3.958333	4	4.6875	0	
127	N146	-6.416667	4	4.4375	0	
128	N147	-6.416667	4	4.6875	0	
129	N148	-4.833333	4	4.4375	0	
130	N149	4.833333	4	4.4375	0	
131	N150	-4.833333	4	4.270833	0	
132	N151	4.833333	4	4.270833	0	
133	N153	-7.259654	4	3.69909	0	
134	N154	-0.426321	4	-8.13659	0	
135	N155	-1.426321	4	-6.404539	0	
136	N156	-6.259654	4	1.967039	0	
137	N157	-1.281983	4	-6.321206	0	
138	N158	-6.115317	4	2.050373	0	
139	N158A	0.926321	4	-7.270565	0	
140	N159	1.142827	4	-7.395565	0	
141	N160	-6.759654	4	2.833065	0	
142	N161	-6.976161	4	2.708065	0	
143	N162	-5.801321	4	1.173183	0	
144	N163	-6.017827	4	1.048183	0	
145	N164	-3.967988	4	-2.002244	0	
146	N165	-4.184494	4	-2.127244	0	
147	N166	-1.884654	4	-5.610683	0	
148	N167	-2.101161	4	-5.735683	0	
149	N168	-0.634654	4	-7.775746	0	
150	N169	-0.851161	4	-7.900746	0	
151	N170	1.926321	4	-5.538514	0	
152	N171	2.142827	4	-5.663514	0	
153	N172	3.884654	4	-2.146581	0	
154	N173	4.101161	4	-2.271581	0	
155	N174	5.863821	4	1.281436	0	
156	N175	6.080327	4	1.156436	0	
157	N176	7.051321	4	3.338246	0	
158	N177	7.267827	4	3.213246	0	
159	N182	0.426321	4	-8.13659	0	
160	N183	7.259654	4	3.69909	0	
161	N181	6.115317	4	2.050373	0	
162	N185A	1.281983	4	-6.321206	0	
163	N183C	6.259654	4	1.967039	0	
164	N184	1.426321	4	-6.404539	0	
165	N184A	-0.	-3.25	-1.803257	0	



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
166	N185B	-0.	0	-7.13659	0	
167	N187	-1.561666	-3.25	0.901628	0	
168	N188	-6.180468	0	3.568295	0	
169	N190	1.561666	-3.25	0.901628	0	
170	N191	6.180468	0	3.568295	0	
171	N177A	-2.716367	0	4.1875	0	
172	N178	2.716367	0	4.1875	0	
173	N179	-2.716367	0	2.6875	0	
174	N180	2.716367	0	2.6875	0	
175	N181A	4.984665	0	0.258693	0	
176	N182A	2.268298	0	-4.446193	0	
177	N183A	3.685627	0	1.008693	0	
178	N184B	0.96926	0	-3.696193	0	
179	N185C	-2.268298	0	-4.446193	0	
180	N186	-4.984665	0	0.258693	0	
181	N187A	-0.96926	0	-3.696193	0	
182	N188A	-3.685627	0	1.008693	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Desig... A [in2]	Iyy [i...]	Izz [i...]	J [in4]
1	Mount Pipe P2	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical 1.02	.627	.627	1.25
2	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical 2.07	2.85	2.85	5.69
3	Standoff Horizontal	HSS3X3X6	Beam	SquareTube	A500 Gr. B 46	Typical 3.39	3.78	3.78	6.64
4	Cross Member	L2.5x1.5x4	Beam	Single Angle	A36 Gr.36	Typical .947	.16	.594	.0209
5	Corner Plate	PL5/8x6	Beam	RECT	A36 Gr.36	Typical 3.75	.1221	11.25	.4562
6	Support Rail Corner Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical 1.44	1.23	1.23	.0313
7	Kicker	LL3x3x3x6	Column	Double Angle ...	A36 Gr.36	Typical 2.18	4.97	1.9	.0272
8	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical 1.61	1.45	1.45	2.89
9	Mount Pipe P2.5	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical 1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
1	M39	N27	N14			Corner Plate	Beam	RECT	A36 Gr.36	Typical
2	M40	N38	N39			Standoff Horizontal	Beam	SquareTube	A500 Gr...	Typical
3	M43	N44	N45			Standoff Horizontal	Beam	SquareTube	A500 Gr...	Typical
4	M44	N48	N51			RIGID	None	None	RIGID	Typical
5	M45	N47	N50			RIGID	None	None	RIGID	Typical
6	M46	N46	N49			RIGID	None	None	RIGID	Typical
7	M107	N116	N115			RIGID	None	None	RIGID	Typical
8	MP1A	N117	N118			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
9	M112A	N69	N76		270	Cross Member	Beam	Single Angle	A36 Gr.36	Typical
10	M113A	N77	N69		270	Cross Member	Beam	Single Angle	A36 Gr.36	Typical
11	M32	N79	N80A			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
12	M33	N78	N81			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
13	M34	N81	N80A			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
14	M16	N79	N36			Corner Plate	Beam	RECT	A36 Gr.36	Typical
15	M17	N38A	N39A			Standoff Horizontal	Beam	SquareTube	A500 Gr...	Typical
16	M18	N40	N41			Standoff Horizontal	Beam	SquareTube	A500 Gr...	Typical
17	M19	N44A	N47A			RIGID	None	None	RIGID	Typical
18	M20	N43	N46A			RIGID	None	None	RIGID	Typical
19	M21	N42	N45A			RIGID	None	None	RIGID	Typical
20	M22	N48A	N49A		270	Cross Member	Beam	Single Angle	A36 Gr.36	Typical
21	M23	N50A	N48A		270	Cross Member	Beam	Single Angle	A36 Gr.36	Typical
22	M26	N63	N78			Corner Plate	Beam	RECT	A36 Gr.36	Typical
23	M27	N64	N65			Standoff Horizontal	Beam	SquareTube	A500 Gr...	Typical
24	M28	N66	N67			Standoff Horizontal	Beam	SquareTube	A500 Gr...	Typical
25	M29	N70	N73			RIGID	None	None	RIGID	Typical
26	M30	N69A	N72			RIGID	None	None	RIGID	Typical
27	M31	N68	N71			RIGID	None	None	RIGID	Typical
28	M32A	N74	N75		270	Cross Member	Beam	Single Angle	A36 Gr.36	Typical
29	M33A	N76A	N74		270	Cross Member	Beam	Single Angle	A36 Gr.36	Typical
30	M36	N63	N88			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
31	M37	N14	N89			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
32	M38	N89	N88			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
33	M39A	N27	N92			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
34	M40A	N36	N93			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
35	M41	N93	N92			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
36	M38A	N83A	N82A			RIGID	None	None	RIGID	Typical
37	MP2A	N84	N85			Mount Pipe P2.5	Beam	Pipe	A53 Gr. B	Typical
38	M40B	N87	N86			RIGID	None	None	RIGID	Typical
39	MP3A	N88A	N89A			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
40	M42	N91	N90			RIGID	None	None	RIGID	Typical
41	MP4A	N92A	N93A			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
42	M44A	N95	N94			RIGID	None	None	RIGID	Typical
43	MP5A	N96	N97			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
44	M46A	N99	N98			RIGID	None	None	RIGID	Typical
45	MP1C	N100	N101			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
46	M48	N103	N102			RIGID	None	None	RIGID	Typical
47	MP1B	N104	N105			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
48	M50	N107	N106			RIGID	None	None	RIGID	Typical
49	MP2B	N108	N109			Mount Pipe P2.5	Beam	Pipe	A53 Gr. B	Typical
50	M52	N111	N110			RIGID	None	None	RIGID	Typical
51	MP3B	N112	N113			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
52	M54	N115A	N114			RIGID	None	None	RIGID	Typical
53	MP4B	N116A	N117A			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
54	M56	N119	N118A			RIGID	None	None	RIGID	Typical
55	MP5B	N120	N121			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
56	M58	N123	N122			RIGID	None	None	RIGID	Typical
57	MP2C	N124	N125			Mount Pipe P2.5	Beam	Pipe	A53 Gr. B	Typical
58	M60	N127	N126			RIGID	None	None	RIGID	Typical
59	MP3C	N128	N129			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
60	M62	N131	N130			RIGID	None	None	RIGID	Typical
61	MP4C	N132	N133			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
62	M64	N135	N134			RIGID	None	None	RIGID	Typical
63	MP5C	N136	N137			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
64	M68	N142	N143			RIGID	None	None	RIGID	Typical
65	OVP	N145	N144			Mount Pipe P2	Column	Pipe	A53 Gr. B	Typical
66	M66	N137A	N136A			RIGID	None	None	RIGID	Typical
67	M67	N141	N140			RIGID	None	None	RIGID	Typical
68	M68A	N143A	N142A			RIGID	None	None	RIGID	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
69	M69	N145A	N144A			RIGID	None	None	RIGID	Typical
70	M70	N147	N146			RIGID	None	None	RIGID	Typical
71	M71	N139	N138			Support Rail	Beam	Pipe	A53 Gr. B	Typical
72	M72	N148	N150			RIGID	None	None	RIGID	Typical
73	M73	N149	N151			RIGID	None	None	RIGID	Typical
74	M74	N154	N153			Support Rail	Beam	Pipe	A53 Gr. B	Typical
75	M75	N155	N157			RIGID	None	None	RIGID	Typical
76	M76	N156	N158			RIGID	None	None	RIGID	Typical
77	M77	N150	N158		90	Support Rail Corn...	Beam	Single Angle	A36 Gr.36	Typical
78	M78	N159	N158A			RIGID	None	None	RIGID	Typical
79	M79	N161	N160			RIGID	None	None	RIGID	Typical
80	M80	N163	N162			RIGID	None	None	RIGID	Typical
81	M81	N165	N164			RIGID	None	None	RIGID	Typical
82	M82	N167	N166			RIGID	None	None	RIGID	Typical
83	M83	N169	N168			RIGID	None	None	RIGID	Typical
84	M84	N171	N170			RIGID	None	None	RIGID	Typical
85	M85	N173	N172			RIGID	None	None	RIGID	Typical
86	M86	N175	N174			RIGID	None	None	RIGID	Typical
87	M87	N177	N176			RIGID	None	None	RIGID	Typical
88	M89	N183	N182			Support Rail	Beam	Pipe	A53 Gr. B	Typical
89	M90	N181	N151		90	Support Rail Corn...	Beam	Single Angle	A36 Gr.36	Typical
90	M91	N157	N185A		90	Support Rail Corn...	Beam	Single Angle	A36 Gr.36	Typical
91	M92	N183C	N181			RIGID	None	None	RIGID	Typical
92	M93	N184	N185A			RIGID	None	None	RIGID	Typical
93	M93A	N185B	N184A			Kicker	Column	Double Angl..	A36 Gr.36	Typical
94	M94	N188	N187			Kicker	Column	Double Angl..	A36 Gr.36	Typical
95	M95	N191	N190			Kicker	Column	Double Angl..	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl Ratio Opti...	Analysis ...	Inactive	Seismi...
1	M39						Yes			None
2	M40						Yes			None
3	M43						Yes			None
4	M44	BenPIN					Yes	** NA **		None
5	M45	BenPIN					Yes	** NA **		None
6	M46	BenPIN					Yes	** NA **		None
7	M107						Yes	** NA **		None
8	MP1A						Yes	** NA **		None
9	M112A						Yes			None
10	M113A						Yes			None
11	M32						Yes			None
12	M33						Yes			None
13	M34						Yes			None
14	M16						Yes			None
15	M17						Yes			None
16	M18						Yes			None
17	M19	BenPIN					Yes	** NA **		None
18	M20	BenPIN					Yes	** NA **		None
19	M21	BenPIN					Yes	** NA **		None
20	M22						Yes			None
21	M23						Yes			None
22	M26						Yes			None
23	M27						Yes			None
24	M28						Yes			None
25	M29	BenPIN					Yes	** NA **		None



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Opti...	Analysis ...	Inactive	Seismi...
26	M30	BenPIN					Yes	** NA **				None
27	M31	BenPIN					Yes	** NA **				None
28	M32A						Yes					None
29	M33A						Yes					None
30	M36						Yes					None
31	M37						Yes					None
32	M38						Yes					None
33	M39A						Yes					None
34	M40A						Yes					None
35	M41						Yes					None
36	M38A						Yes	** NA **				None
37	MP2A						Yes					None
38	M40B						Yes	** NA **				None
39	MP3A						Yes	** NA **				None
40	M42						Yes	** NA **				None
41	MP4A						Yes	** NA **				None
42	M44A						Yes	** NA **				None
43	MP5A						Yes	** NA **				None
44	M46A						Yes	** NA **				None
45	MP1C						Yes	** NA **				None
46	M48						Yes	** NA **				None
47	MP1B						Yes	** NA **				None
48	M50						Yes	** NA **				None
49	MP2B						Yes					None
50	M52						Yes	** NA **				None
51	MP3B						Yes	** NA **				None
52	M54						Yes	** NA **				None
53	MP4B						Yes	** NA **				None
54	M56						Yes	** NA **				None
55	MP5B						Yes	** NA **				None
56	M58						Yes	** NA **				None
57	MP2C						Yes					None
58	M60						Yes	** NA **				None
59	MP3C						Yes	** NA **				None
60	M62						Yes	** NA **				None
61	MP4C						Yes	** NA **				None
62	M64						Yes	** NA **				None
63	MP5C						Yes	** NA **				None
64	M68						Yes	** NA **				None
65	OVP						Yes	** NA **				None
66	M66						Yes	** NA **				None
67	M67						Yes	** NA **				None
68	M68A						Yes	** NA **				None
69	M69						Yes	** NA **				None
70	M70						Yes	** NA **				None
71	M71						Yes					None
72	M72	00000X					Yes	** NA **				None
73	M73	00000X					Yes	** NA **				None
74	M74						Yes					None
75	M75	00000X					Yes	** NA **				None
76	M76	00000X					Yes	** NA **				None
77	M77						Yes					None
78	M78						Yes	** NA **				None
79	M79						Yes	** NA **				None
80	M80						Yes	** NA **				None
81	M81						Yes	** NA **				None
82	M82						Yes	** NA **				None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl Ratio	Opti...	Analysis ...	Inactive	Seismi...
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M89						Yes				None
89	M90						Yes				None
90	M91						Yes				None
91	M92	OOOOOX					Yes	** NA **			None
92	M93	OOOOOX					Yes	** NA **			None
93	M93A	BenPIN	BenPIN				Yes	** NA **			None
94	M94	BenPIN	BenPIN				Yes	** NA **			None
95	M95	BenPIN	BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	Y	-21.85	.5
2	MP2A	My	-.0109	.5
3	MP2A	Mz	.0127	.5
4	MP2A	Y	-21.85	5.5
5	MP2A	My	-.0109	5.5
6	MP2A	Mz	.0127	5.5
7	MP2B	Y	-21.85	.5
8	MP2B	My	-.0056	.5
9	MP2B	Mz	-.0158	.5
10	MP2B	Y	-21.85	5.5
11	MP2B	My	-.0056	5.5
12	MP2B	Mz	-.0158	5.5
13	MP2C	Y	-21.85	.5
14	MP2C	My	.0165	.5
15	MP2C	Mz	.0031	.5
16	MP2C	Y	-21.85	5.5
17	MP2C	My	.0165	5.5
18	MP2C	Mz	.0031	5.5
19	MP2A	Y	-21.85	.5
20	MP2A	My	-.0109	.5
21	MP2A	Mz	-.0127	.5
22	MP2A	Y	-21.85	5.5
23	MP2A	My	-.0109	5.5
24	MP2A	Mz	-.0127	5.5
25	MP2B	Y	-21.85	.5
26	MP2B	My	.0165	.5
27	MP2B	Mz	-.0031	.5
28	MP2B	Y	-21.85	5.5
29	MP2B	My	.0165	5.5
30	MP2B	Mz	-.0031	5.5
31	MP2C	Y	-21.85	.5
32	MP2C	My	-.0056	.5
33	MP2C	Mz	.0158	.5
34	MP2C	Y	-21.85	5.5
35	MP2C	My	-.0056	5.5
36	MP2C	Mz	.0158	5.5
37	MP5A	Y	-43.55	2
38	MP5A	My	-.0218	2
39	MP5A	Mz	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP5A	Y	-43.55	4
41	MP5A	My	-.0218	4
42	MP5A	Mz	0	4
43	MP5B	Y	-43.55	2
44	MP5B	My	.0109	2
45	MP5B	Mz	-.0189	2
46	MP5B	Y	-43.55	4
47	MP5B	My	.0109	4
48	MP5B	Mz	-.0189	4
49	MP5C	Y	-43.55	2
50	MP5C	My	.0109	2
51	MP5C	Mz	-.0189	2
52	MP5C	Y	-43.55	4
53	MP5C	My	.0109	4
54	MP5C	Mz	-.0189	4
55	MP1A	Y	-74.7	3
56	MP1A	My	.0374	3
57	MP1A	Mz	0	3
58	MP1B	Y	-74.7	3
59	MP1B	My	-.0187	3
60	MP1B	Mz	.0323	3
61	MP1C	Y	-74.7	3
62	MP1C	My	-.0187	3
63	MP1C	Mz	-.0323	3
64	MP2A	Y	-70.3	3
65	MP2A	My	.0352	3
66	MP2A	Mz	0	3
67	MP2B	Y	-70.3	3
68	MP2B	My	-.0176	3
69	MP2B	Mz	.0304	3
70	MP2C	Y	-70.3	3
71	MP2C	My	-.0176	3
72	MP2C	Mz	-.0304	3
73	MP4A	Y	-20.4	.5
74	MP4A	My	-.0136	.5
75	MP4A	Mz	0	.5
76	MP4A	Y	-20.4	5.5
77	MP4A	My	-.0136	5.5
78	MP4A	Mz	0	5.5
79	MP4B	Y	-20.4	.5
80	MP4B	My	.0068	.5
81	MP4B	Mz	-.0118	.5
82	MP4B	Y	-20.4	5.5
83	MP4B	My	.0068	5.5
84	MP4B	Mz	-.0118	5.5
85	MP4C	Y	-20.4	.5
86	MP4C	My	.0068	.5
87	MP4C	Mz	.0118	.5
88	MP4C	Y	-20.4	5.5
89	MP4C	My	.0068	5.5
90	MP4C	Mz	.0118	5.5
91	OVP	Y	-32	1.5
92	OVP	My	0	1.5
93	OVP	Mz	0	1.5
94	MP2B	Y	-17.6	5.25
95	MP2B	My	-.0139	5.25
96	MP2B	Mz	.0123	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
97	MP2B	Y	-17.6	5.25
98	MP2B	My	-.0037	5.25
99	MP2B	Mz	.0182	5.25

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	Y	-93.9859	.5
2	MP2A	My	-.047	.5
3	MP2A	Mz	.0548	.5
4	MP2A	Y	-93.9859	5.5
5	MP2A	Mv	-.047	5.5
6	MP2A	Mz	.0548	5.5
7	MP2B	Y	-93.9859	.5
8	MP2B	My	-.024	.5
9	MP2B	Mz	-.0681	.5
10	MP2B	Y	-93.9859	5.5
11	MP2B	My	-.024	5.5
12	MP2B	Mz	-.0681	5.5
13	MP2C	Y	-93.9859	.5
14	MP2C	My	.071	.5
15	MP2C	Mz	.0133	.5
16	MP2C	Y	-93.9859	5.5
17	MP2C	My	.071	5.5
18	MP2C	Mz	.0133	5.5
19	MP2A	Y	-93.9859	.5
20	MP2A	My	-.047	.5
21	MP2A	Mz	-.0548	.5
22	MP2A	Y	-93.9859	5.5
23	MP2A	Mv	-.047	5.5
24	MP2A	Mz	-.0548	5.5
25	MP2B	Y	-93.9859	.5
26	MP2B	My	.071	.5
27	MP2B	Mz	-.0133	.5
28	MP2B	Y	-93.9859	5.5
29	MP2B	Mv	.071	5.5
30	MP2B	Mz	-.0133	5.5
31	MP2C	Y	-93.9859	.5
32	MP2C	My	-.024	.5
33	MP2C	Mz	.0681	.5
34	MP2C	Y	-93.9859	5.5
35	MP2C	Mv	-.024	5.5
36	MP2C	Mz	.0681	5.5
37	MP5A	Y	-55.4677	2
38	MP5A	My	-.0277	2
39	MP5A	Mz	0	2
40	MP5A	Y	-55.4677	4
41	MP5A	My	-.0277	4
42	MP5A	Mz	0	4
43	MP5B	Y	-55.4677	2
44	MP5B	My	.0139	2
45	MP5B	Mz	-.024	2
46	MP5B	Y	-55.4677	4
47	MP5B	My	.0139	4
48	MP5B	Mz	-.024	4
49	MP5C	Y	-55.4677	2
50	MP5C	My	.0139	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP5C	Mz	-.024	2
52	MP5C	Y	-55.4677	4
53	MP5C	My	.0139	4
54	MP5C	Mz	-.024	4
55	MP1A	Y	-70.4718	3
56	MP1A	My	.0352	3
57	MP1A	Mz	0	3
58	MP1B	Y	-70.4718	3
59	MP1B	My	-.0176	3
60	MP1B	Mz	.0305	3
61	MP1C	Y	-70.4718	3
62	MP1C	My	-.0176	3
63	MP1C	Mz	-.0305	3
64	MP2A	Y	-67.224	3
65	MP2A	My	.0336	3
66	MP2A	Mz	0	3
67	MP2B	Y	-67.224	3
68	MP2B	My	-.0168	3
69	MP2B	Mz	.0291	3
70	MP2C	Y	-67.224	3
71	MP2C	My	-.0168	3
72	MP2C	Mz	-.0291	3
73	MP4A	Y	-94.9568	.5
74	MP4A	My	-.0633	.5
75	MP4A	Mz	0	.5
76	MP4A	Y	-94.9568	5.5
77	MP4A	My	-.0633	5.5
78	MP4A	Mz	0	5.5
79	MP4B	Y	-94.9568	.5
80	MP4B	My	.0317	.5
81	MP4B	Mz	-.0548	.5
82	MP4B	Y	-94.9568	5.5
83	MP4B	My	.0317	5.5
84	MP4B	Mz	-.0548	5.5
85	MP4C	Y	-94.9568	.5
86	MP4C	My	.0317	.5
87	MP4C	Mz	.0548	.5
88	MP4C	Y	-94.9568	5.5
89	MP4C	My	.0317	5.5
90	MP4C	Mz	.0548	5.5
91	OVP	Y	-135.2886	1.5
92	OVP	My	0	1.5
93	OVP	Mz	0	1.5
94	MP2B	Y	6.6	5.25
95	MP2B	My	.0052	5.25
96	MP2B	Mz	-.0046	5.25
97	MP2B	Y	6.6	5.25
98	MP2B	My	.0014	5.25
99	MP2B	Mz	-.0068	5.25

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	-109.531	.5
3	MP2A	Mx	-.0639	.5
4	MP2A	X	0	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	-109.531	5.5
6	MP2A	Mx	-.0639	5.5
7	MP2B	X	0	.5
8	MP2B	Z	-62.633	.5
9	MP2B	Mx	.0454	.5
10	MP2B	X	0	5.5
11	MP2B	Z	-62.633	5.5
12	MP2B	Mx	.0454	5.5
13	MP2C	X	0	.5
14	MP2C	Z	-62.633	.5
15	MP2C	Mx	-.0089	.5
16	MP2C	X	0	5.5
17	MP2C	Z	-62.633	5.5
18	MP2C	Mx	-.0089	5.5
19	MP2A	X	0	.5
20	MP2A	Z	-109.531	.5
21	MP2A	Mx	.0639	.5
22	MP2A	X	0	5.5
23	MP2A	Z	-109.531	5.5
24	MP2A	Mx	.0639	5.5
25	MP2B	X	0	.5
26	MP2B	Z	-62.633	.5
27	MP2B	Mx	.0089	.5
28	MP2B	X	0	5.5
29	MP2B	Z	-62.633	5.5
30	MP2B	Mx	.0089	5.5
31	MP2C	X	0	.5
32	MP2C	Z	-62.633	.5
33	MP2C	Mx	-.0454	.5
34	MP2C	X	0	5.5
35	MP2C	Z	-62.633	5.5
36	MP2C	Mx	-.0454	5.5
37	MP5A	X	0	2
38	MP5A	Z	-79.072	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	-79.072	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	-40.192	2
45	MP5B	Mx	.0174	2
46	MP5B	X	0	4
47	MP5B	Z	-40.192	4
48	MP5B	Mx	.0174	4
49	MP5C	X	0	2
50	MP5C	Z	-40.192	2
51	MP5C	Mx	.0174	2
52	MP5C	X	0	4
53	MP5C	Z	-40.192	4
54	MP5C	Mx	.0174	4
55	MP1A	X	0	3
56	MP1A	Z	-62.532	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-47.101	3
60	MP1B	Mx	-.0204	3
61	MP1C	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
62	MP1C	Z	-47.101	3
63	MP1C	Mx	.0204	3
64	MP2A	X	0	3
65	MP2A	Z	-62.532	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-44.075	3
69	MP2B	Mx	-.0191	3
70	MP2C	X	0	3
71	MP2C	Z	-44.075	3
72	MP2C	Mx	.0191	3
73	MP4A	X	0	.5
74	MP4A	Z	-172.467	.5
75	MP4A	Mx	0	.5
76	MP4A	X	0	5.5
77	MP4A	Z	-172.467	5.5
78	MP4A	Mx	0	5.5
79	MP4B	X	0	.5
80	MP4B	Z	-122.436	.5
81	MP4B	Mx	.0707	.5
82	MP4B	X	0	5.5
83	MP4B	Z	-122.436	5.5
84	MP4B	Mx	.0707	5.5
85	MP4C	X	0	.5
86	MP4C	Z	-122.436	.5
87	MP4C	Mx	-.0707	.5
88	MP4C	X	0	5.5
89	MP4C	Z	-122.436	5.5
90	MP4C	Mx	-.0707	5.5
91	OVP	X	0	1.5
92	OVP	Z	-119.463	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	0	5.25
95	MP2B	Z	-38.57	5.25
96	MP2B	Mx	-.027	5.25
97	MP2B	X	0	5.25
98	MP2B	Z	-38.57	5.25
99	MP2B	Mx	-.0398	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	46.949	.5
2	MP2A	Z	-81.318	.5
3	MP2A	Mx	-.0709	.5
4	MP2A	X	46.949	5.5
5	MP2A	Z	-81.318	5.5
6	MP2A	Mx	-.0709	5.5
7	MP2B	X	23.5	.5
8	MP2B	Z	-40.703	.5
9	MP2B	Mx	.0235	.5
10	MP2B	X	23.5	5.5
11	MP2B	Z	-40.703	5.5
12	MP2B	Mx	.0235	5.5
13	MP2C	X	46.949	.5
14	MP2C	Z	-81.318	.5
15	MP2C	Mx	.024	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP2C	X	46.949	5.5
17	MP2C	Z	-81.318	5.5
18	MP2C	Mx	.024	5.5
19	MP2A	X	46.949	.5
20	MP2A	Z	-81.318	.5
21	MP2A	Mx	.024	.5
22	MP2A	X	46.949	5.5
23	MP2A	Z	-81.318	5.5
24	MP2A	Mx	.024	5.5
25	MP2B	X	23.5	.5
26	MP2B	Z	-40.703	.5
27	MP2B	Mx	.0235	.5
28	MP2B	X	23.5	5.5
29	MP2B	Z	-40.703	5.5
30	MP2B	Mx	.0235	5.5
31	MP2C	X	46.949	.5
32	MP2C	Z	-81.318	.5
33	MP2C	Mx	-.0709	.5
34	MP2C	X	46.949	5.5
35	MP2C	Z	-81.318	5.5
36	MP2C	Mx	-.0709	5.5
37	MP5A	X	33.056	2
38	MP5A	Z	-57.255	2
39	MP5A	Mx	-.0165	2
40	MP5A	X	33.056	4
41	MP5A	Z	-57.255	4
42	MP5A	Mx	-.0165	4
43	MP5B	X	13.616	2
44	MP5B	Z	-23.583	2
45	MP5B	Mx	.0136	2
46	MP5B	X	13.616	4
47	MP5B	Z	-23.583	4
48	MP5B	Mx	.0136	4
49	MP5C	X	13.616	2
50	MP5C	Z	-23.583	2
51	MP5C	Mx	.0136	2
52	MP5C	X	13.616	4
53	MP5C	Z	-23.583	4
54	MP5C	Mx	.0136	4
55	MP1A	X	28.694	3
56	MP1A	Z	-49.699	3
57	MP1A	Mx	.0143	3
58	MP1B	X	20.978	3
59	MP1B	Z	-36.336	3
60	MP1B	Mx	-.021	3
61	MP1C	X	28.694	3
62	MP1C	Z	-49.699	3
63	MP1C	Mx	.0143	3
64	MP2A	X	28.19	3
65	MP2A	Z	-48.826	3
66	MP2A	Mx	.0141	3
67	MP2B	X	18.961	3
68	MP2B	Z	-32.842	3
69	MP2B	Mx	-.019	3
70	MP2C	X	28.19	3
71	MP2C	Z	-48.826	3
72	MP2C	Mx	.0141	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
73	MP4A	X	77.895	.5
74	MP4A	Z	-134.918	.5
75	MP4A	Mx	-.0519	.5
76	MP4A	X	77.895	5.5
77	MP4A	Z	-134.918	5.5
78	MP4A	Mx	-.0519	5.5
79	MP4B	X	52.88	.5
80	MP4B	Z	-91.59	.5
81	MP4B	Mx	.0705	.5
82	MP4B	X	52.88	5.5
83	MP4B	Z	-91.59	5.5
84	MP4B	Mx	.0705	5.5
85	MP4C	X	77.895	.5
86	MP4C	Z	-134.918	.5
87	MP4C	Mx	-.0519	.5
88	MP4C	X	77.895	5.5
89	MP4C	Z	-134.918	5.5
90	MP4C	Mx	-.0519	5.5
91	OVP	X	52.115	1.5
92	OVP	Z	-90.265	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	19.299	5.25
95	MP2B	Z	-33.427	5.25
96	MP2B	Mx	-.0386	5.25
97	MP2B	X	19.299	5.25
98	MP2B	Z	-33.427	5.25
99	MP2B	Mx	-.0386	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	54.241	.5
2	MP2A	Z	-31.316	.5
3	MP2A	Mx	-.0454	.5
4	MP2A	X	54.241	5.5
5	MP2A	Z	-31.316	5.5
6	MP2A	Mx	-.0454	5.5
7	MP2B	X	54.241	.5
8	MP2B	Z	-31.316	.5
9	MP2B	Mx	.0089	.5
10	MP2B	X	54.241	5.5
11	MP2B	Z	-31.316	5.5
12	MP2B	Mx	.0089	5.5
13	MP2C	X	94.857	.5
14	MP2C	Z	-54.766	.5
15	MP2C	Mx	.0639	.5
16	MP2C	X	94.857	5.5
17	MP2C	Z	-54.766	5.5
18	MP2C	Mx	.0639	5.5
19	MP2A	X	54.241	.5
20	MP2A	Z	-31.316	.5
21	MP2A	Mx	-.0089	.5
22	MP2A	X	54.241	5.5
23	MP2A	Z	-31.316	5.5
24	MP2A	Mx	-.0089	5.5
25	MP2B	X	54.241	.5
26	MP2B	Z	-31.316	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
27	MP2B	Mx	.0454	.5
28	MP2B	X	54.241	5.5
29	MP2B	Z	-31.316	5.5
30	MP2B	Mx	.0454	5.5
31	MP2C	X	94.857	.5
32	MP2C	Z	-54.766	.5
33	MP2C	Mx	-.0639	.5
34	MP2C	X	94.857	5.5
35	MP2C	Z	-54.766	5.5
36	MP2C	Mx	-.0639	5.5
37	MP5A	X	34.807	2
38	MP5A	Z	-20.096	2
39	MP5A	Mx	-.0174	2
40	MP5A	X	34.807	4
41	MP5A	Z	-20.096	4
42	MP5A	Mx	-.0174	4
43	MP5B	X	34.807	2
44	MP5B	Z	-20.096	2
45	MP5B	Mx	.0174	2
46	MP5B	X	34.807	4
47	MP5B	Z	-20.096	4
48	MP5B	Mx	.0174	4
49	MP5C	X	34.807	2
50	MP5C	Z	-20.096	2
51	MP5C	Mx	.0174	2
52	MP5C	X	34.807	4
53	MP5C	Z	-20.096	4
54	MP5C	Mx	.0174	4
55	MP1A	X	40.79	3
56	MP1A	Z	-23.55	3
57	MP1A	Mx	.0204	3
58	MP1B	X	40.79	3
59	MP1B	Z	-23.55	3
60	MP1B	Mx	-.0204	3
61	MP1C	X	54.154	3
62	MP1C	Z	-31.266	3
63	MP1C	Mx	0	3
64	MP2A	X	38.17	3
65	MP2A	Z	-22.037	3
66	MP2A	Mx	.0191	3
67	MP2B	X	38.17	3
68	MP2B	Z	-22.037	3
69	MP2B	Mx	-.0191	3
70	MP2C	X	54.154	3
71	MP2C	Z	-31.266	3
72	MP2C	Mx	0	3
73	MP4A	X	106.033	.5
74	MP4A	Z	-61.218	.5
75	MP4A	Mx	-.0707	.5
76	MP4A	X	106.033	5.5
77	MP4A	Z	-61.218	5.5
78	MP4A	Mx	-.0707	5.5
79	MP4B	X	106.033	.5
80	MP4B	Z	-61.218	.5
81	MP4B	Mx	.0707	.5
82	MP4B	X	106.033	5.5
83	MP4B	Z	-61.218	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
84	MP4B	Mx	.0707	5.5
85	MP4C	X	149.36	.5
86	MP4C	Z	-86.233	.5
87	MP4C	Mx	0	.5
88	MP4C	X	149.36	5.5
89	MP4C	Z	-86.233	5.5
90	MP4C	Mx	0	5.5
91	OVP	X	83.669	1.5
92	OVP	Z	-48.306	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	33.402	5.25
95	MP2B	Z	-19.285	5.25
96	MP2B	Mx	-.0398	5.25
97	MP2B	X	33.402	5.25
98	MP2B	Z	-19.285	5.25
99	MP2B	Mx	-.027	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	47	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.0235	.5
4	MP2A	X	47	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.0235	5.5
7	MP2B	X	93.898	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.024	.5
10	MP2B	X	93.898	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.024	5.5
13	MP2C	X	93.898	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.0709	.5
16	MP2C	X	93.898	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.0709	5.5
19	MP2A	X	47	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.0235	.5
22	MP2A	X	47	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.0235	5.5
25	MP2B	X	93.898	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.0709	.5
28	MP2B	X	93.898	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.0709	5.5
31	MP2C	X	93.898	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.024	.5
34	MP2C	X	93.898	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.024	5.5
37	MP5A	X	27.232	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
38	MP5A	Z	0	2
39	MP5A	Mx	-.0136	2
40	MP5A	X	27.232	4
41	MP5A	Z	0	4
42	MP5A	Mx	-.0136	4
43	MP5B	X	66.112	2
44	MP5B	Z	0	2
45	MP5B	Mx	.0165	2
46	MP5B	X	66.112	4
47	MP5B	Z	0	4
48	MP5B	Mx	.0165	4
49	MP5C	X	66.112	2
50	MP5C	Z	0	2
51	MP5C	Mx	.0165	2
52	MP5C	X	66.112	4
53	MP5C	Z	0	4
54	MP5C	Mx	.0165	4
55	MP1A	X	41.957	3
56	MP1A	Z	0	3
57	MP1A	Mx	.021	3
58	MP1B	X	57.388	3
59	MP1B	Z	0	3
60	MP1B	Mx	-.0143	3
61	MP1C	X	57.388	3
62	MP1C	Z	0	3
63	MP1C	Mx	-.0143	3
64	MP2A	X	37.922	3
65	MP2A	Z	0	3
66	MP2A	Mx	.019	3
67	MP2B	X	56.379	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.0141	3
70	MP2C	X	56.379	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.0141	3
73	MP4A	X	105.759	.5
74	MP4A	Z	0	.5
75	MP4A	Mx	-.0705	.5
76	MP4A	X	105.759	5.5
77	MP4A	Z	0	5.5
78	MP4A	Mx	-.0705	5.5
79	MP4B	X	155.79	.5
80	MP4B	Z	0	.5
81	MP4B	Mx	.0519	.5
82	MP4B	X	155.79	5.5
83	MP4B	Z	0	5.5
84	MP4B	Mx	.0519	5.5
85	MP4C	X	155.79	.5
86	MP4C	Z	0	.5
87	MP4C	Mx	.0519	.5
88	MP4C	X	155.79	5.5
89	MP4C	Z	0	5.5
90	MP4C	Mx	.0519	5.5
91	OVP	X	104.229	1.5
92	OVP	Z	0	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	38.513	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
95	MP2B	Z	0	5.25
96	MP2B	Mx	-0.304	5.25
97	MP2B	X	38.513	5.25
98	MP2B	Z	0	5.25
99	MP2B	Mx	-0.081	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	54.241	.5
2	MP2A	Z	31.316	.5
3	MP2A	Mx	-.0089	.5
4	MP2A	X	54.241	5.5
5	MP2A	Z	31.316	5.5
6	MP2A	Mx	-.0089	5.5
7	MP2B	X	94.857	.5
8	MP2B	Z	54.766	.5
9	MP2B	Mx	-.0639	.5
10	MP2B	X	94.857	5.5
11	MP2B	Z	54.766	5.5
12	MP2B	Mx	-.0639	5.5
13	MP2C	X	54.241	.5
14	MP2C	Z	31.316	.5
15	MP2C	Mx	.0454	.5
16	MP2C	X	54.241	5.5
17	MP2C	Z	31.316	5.5
18	MP2C	Mx	.0454	5.5
19	MP2A	X	54.241	.5
20	MP2A	Z	31.316	.5
21	MP2A	Mx	-.0454	.5
22	MP2A	X	54.241	5.5
23	MP2A	Z	31.316	5.5
24	MP2A	Mx	-.0454	5.5
25	MP2B	X	94.857	.5
26	MP2B	Z	54.766	.5
27	MP2B	Mx	.0639	.5
28	MP2B	X	94.857	5.5
29	MP2B	Z	54.766	5.5
30	MP2B	Mx	.0639	5.5
31	MP2C	X	54.241	.5
32	MP2C	Z	31.316	.5
33	MP2C	Mx	.0089	.5
34	MP2C	X	54.241	5.5
35	MP2C	Z	31.316	5.5
36	MP2C	Mx	.0089	5.5
37	MP5A	X	34.807	2
38	MP5A	Z	20.096	2
39	MP5A	Mx	-.0174	2
40	MP5A	X	34.807	4
41	MP5A	Z	20.096	4
42	MP5A	Mx	-.0174	4
43	MP5B	X	68.479	2
44	MP5B	Z	39.536	2
45	MP5B	Mx	0	2
46	MP5B	X	68.479	4
47	MP5B	Z	39.536	4
48	MP5B	Mx	0	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
49	MP5C	X	68.479	2
50	MP5C	Z	39.536	2
51	MP5C	Mx	0	2
52	MP5C	X	68.479	4
53	MP5C	Z	39.536	4
54	MP5C	Mx	0	4
55	MP1A	X	40.79	3
56	MP1A	Z	23.55	3
57	MP1A	Mx	.0204	3
58	MP1B	X	54.154	3
59	MP1B	Z	31.266	3
60	MP1B	Mx	0	3
61	MP1C	X	40.79	3
62	MP1C	Z	23.55	3
63	MP1C	Mx	-.0204	3
64	MP2A	X	38.17	3
65	MP2A	Z	22.037	3
66	MP2A	Mx	.0191	3
67	MP2B	X	54.154	3
68	MP2B	Z	31.266	3
69	MP2B	Mx	0	3
70	MP2C	X	38.17	3
71	MP2C	Z	22.037	3
72	MP2C	Mx	-.0191	3
73	MP4A	X	106.033	.5
74	MP4A	Z	61.218	.5
75	MP4A	Mx	-.0707	.5
76	MP4A	X	106.033	5.5
77	MP4A	Z	61.218	5.5
78	MP4A	Mx	-.0707	5.5
79	MP4B	X	149.36	.5
80	MP4B	Z	86.233	.5
81	MP4B	Mx	0	.5
82	MP4B	X	149.36	5.5
83	MP4B	Z	86.233	5.5
84	MP4B	Mx	0	5.5
85	MP4C	X	106.033	.5
86	MP4C	Z	61.218	.5
87	MP4C	Mx	.0707	.5
88	MP4C	X	106.033	5.5
89	MP4C	Z	61.218	5.5
90	MP4C	Mx	.0707	5.5
91	OVP	X	103.458	1.5
92	OVP	Z	59.731	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	33.329	5.25
95	MP2B	Z	19.242	5.25
96	MP2B	Mx	-.0128	5.25
97	MP2B	X	33.329	5.25
98	MP2B	Z	19.242	5.25
99	MP2B	Mx	.0128	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	46.949	.5
2	MP2A	Z	81.318	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP2A	Mx	.024	.5
4	MP2A	X	46.949	5.5
5	MP2A	Z	81.318	5.5
6	MP2A	Mx	.024	5.5
7	MP2B	X	46.949	.5
8	MP2B	Z	81.318	.5
9	MP2B	Mx	-.0709	.5
10	MP2B	X	46.949	5.5
11	MP2B	Z	81.318	5.5
12	MP2B	Mx	-.0709	5.5
13	MP2C	X	23.5	.5
14	MP2C	Z	40.703	.5
15	MP2C	Mx	.0235	.5
16	MP2C	X	23.5	5.5
17	MP2C	Z	40.703	5.5
18	MP2C	Mx	.0235	5.5
19	MP2A	X	46.949	.5
20	MP2A	Z	81.318	.5
21	MP2A	Mx	-.0709	.5
22	MP2A	X	46.949	5.5
23	MP2A	Z	81.318	5.5
24	MP2A	Mx	-.0709	5.5
25	MP2B	X	46.949	.5
26	MP2B	Z	81.318	.5
27	MP2B	Mx	.024	.5
28	MP2B	X	46.949	5.5
29	MP2B	Z	81.318	5.5
30	MP2B	Mx	.024	5.5
31	MP2C	X	23.5	.5
32	MP2C	Z	40.703	.5
33	MP2C	Mx	.0235	.5
34	MP2C	X	23.5	5.5
35	MP2C	Z	40.703	5.5
36	MP2C	Mx	.0235	5.5
37	MP5A	X	33.056	2
38	MP5A	Z	57.255	2
39	MP5A	Mx	-.0165	2
40	MP5A	X	33.056	4
41	MP5A	Z	57.255	4
42	MP5A	Mx	-.0165	4
43	MP5B	X	33.056	2
44	MP5B	Z	57.255	2
45	MP5B	Mx	-.0165	2
46	MP5B	X	33.056	4
47	MP5B	Z	57.255	4
48	MP5B	Mx	-.0165	4
49	MP5C	X	33.056	2
50	MP5C	Z	57.255	2
51	MP5C	Mx	-.0165	2
52	MP5C	X	33.056	4
53	MP5C	Z	57.255	4
54	MP5C	Mx	-.0165	4
55	MP1A	X	28.694	3
56	MP1A	Z	49.699	3
57	MP1A	Mx	.0143	3
58	MP1B	X	28.694	3
59	MP1B	Z	49.699	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
60	MP1B	Mx	.0143	3
61	MP1C	X	20.978	3
62	MP1C	Z	36.336	3
63	MP1C	Mx	-.021	3
64	MP2A	X	28.19	3
65	MP2A	Z	48.826	3
66	MP2A	Mx	.0141	3
67	MP2B	X	28.19	3
68	MP2B	Z	48.826	3
69	MP2B	Mx	.0141	3
70	MP2C	X	18.961	3
71	MP2C	Z	32.842	3
72	MP2C	Mx	-.019	3
73	MP4A	X	77.895	.5
74	MP4A	Z	134.918	.5
75	MP4A	Mx	-.0519	.5
76	MP4A	X	77.895	5.5
77	MP4A	Z	134.918	5.5
78	MP4A	Mx	-.0519	5.5
79	MP4B	X	77.895	.5
80	MP4B	Z	134.918	.5
81	MP4B	Mx	-.0519	.5
82	MP4B	X	77.895	5.5
83	MP4B	Z	134.918	5.5
84	MP4B	Mx	-.0519	5.5
85	MP4C	X	52.88	.5
86	MP4C	Z	91.59	.5
87	MP4C	Mx	.0705	.5
88	MP4C	X	52.88	5.5
89	MP4C	Z	91.59	5.5
90	MP4C	Mx	.0705	5.5
91	OVP	X	63.54	1.5
92	OVP	Z	110.054	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	19.257	5.25
95	MP2B	Z	33.353	5.25
96	MP2B	Mx	.0081	5.25
97	MP2B	X	19.257	5.25
98	MP2B	Z	33.353	5.25
99	MP2B	Mx	.0304	5.25

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	109.531	.5
3	MP2A	Mx	.0639	.5
4	MP2A	X	0	5.5
5	MP2A	Z	109.531	5.5
6	MP2A	Mx	.0639	5.5
7	MP2B	X	0	.5
8	MP2B	Z	62.633	.5
9	MP2B	Mx	-.0454	.5
10	MP2B	X	0	5.5
11	MP2B	Z	62.633	5.5
12	MP2B	Mx	-.0454	5.5
13	MP2C	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
14	MP2C	Z	62.633	.5
15	MP2C	Mx	.0089	.5
16	MP2C	X	0	5.5
17	MP2C	Z	62.633	5.5
18	MP2C	Mx	.0089	5.5
19	MP2A	X	0	.5
20	MP2A	Z	109.531	.5
21	MP2A	Mx	-.0639	.5
22	MP2A	X	0	5.5
23	MP2A	Z	109.531	5.5
24	MP2A	Mx	-.0639	5.5
25	MP2B	X	0	.5
26	MP2B	Z	62.633	.5
27	MP2B	Mx	-.0089	.5
28	MP2B	X	0	5.5
29	MP2B	Z	62.633	5.5
30	MP2B	Mx	-.0089	5.5
31	MP2C	X	0	.5
32	MP2C	Z	62.633	.5
33	MP2C	Mx	.0454	.5
34	MP2C	X	0	5.5
35	MP2C	Z	62.633	5.5
36	MP2C	Mx	.0454	5.5
37	MP5A	X	0	2
38	MP5A	Z	79.072	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	79.072	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	40.192	2
45	MP5B	Mx	-.0174	2
46	MP5B	X	0	4
47	MP5B	Z	40.192	4
48	MP5B	Mx	-.0174	4
49	MP5C	X	0	2
50	MP5C	Z	40.192	2
51	MP5C	Mx	-.0174	2
52	MP5C	X	0	4
53	MP5C	Z	40.192	4
54	MP5C	Mx	-.0174	4
55	MP1A	X	0	3
56	MP1A	Z	62.532	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	47.101	3
60	MP1B	Mx	.0204	3
61	MP1C	X	0	3
62	MP1C	Z	47.101	3
63	MP1C	Mx	-.0204	3
64	MP2A	X	0	3
65	MP2A	Z	62.532	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	44.075	3
69	MP2B	Mx	.0191	3
70	MP2C	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
71	MP2C	Z	44.075	3
72	MP2C	Mx	-.0191	3
73	MP4A	X	0	.5
74	MP4A	Z	172.467	.5
75	MP4A	Mx	0	.5
76	MP4A	X	0	5.5
77	MP4A	Z	172.467	5.5
78	MP4A	Mx	0	5.5
79	MP4B	X	0	.5
80	MP4B	Z	122.436	.5
81	MP4B	Mx	-.0707	.5
82	MP4B	X	0	5.5
83	MP4B	Z	122.436	5.5
84	MP4B	Mx	-.0707	5.5
85	MP4C	X	0	.5
86	MP4C	Z	122.436	.5
87	MP4C	Mx	.0707	.5
88	MP4C	X	0	5.5
89	MP4C	Z	122.436	5.5
90	MP4C	Mx	.0707	5.5
91	OVP	X	0	1.5
92	OVP	Z	119.463	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	0	5.25
95	MP2B	Z	38.57	5.25
96	MP2B	Mx	.027	5.25
97	MP2B	X	0	5.25
98	MP2B	Z	38.57	5.25
99	MP2B	Mx	.0398	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-46.949	.5
2	MP2A	Z	81.318	.5
3	MP2A	Mx	.0709	.5
4	MP2A	X	-46.949	5.5
5	MP2A	Z	81.318	5.5
6	MP2A	Mx	.0709	5.5
7	MP2B	X	-23.5	.5
8	MP2B	Z	40.703	.5
9	MP2B	Mx	-.0235	.5
10	MP2B	X	-23.5	5.5
11	MP2B	Z	40.703	5.5
12	MP2B	Mx	-.0235	5.5
13	MP2C	X	-46.949	.5
14	MP2C	Z	81.318	.5
15	MP2C	Mx	-.024	.5
16	MP2C	X	-46.949	5.5
17	MP2C	Z	81.318	5.5
18	MP2C	Mx	-.024	5.5
19	MP2A	X	-46.949	.5
20	MP2A	Z	81.318	.5
21	MP2A	Mx	-.024	.5
22	MP2A	X	-46.949	5.5
23	MP2A	Z	81.318	5.5
24	MP2A	Mx	-.024	5.5



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
25	MP2B	X	-23.5	.5
26	MP2B	Z	40.703	.5
27	MP2B	Mx	-.0235	.5
28	MP2B	X	-23.5	5.5
29	MP2B	Z	40.703	5.5
30	MP2B	Mx	-.0235	5.5
31	MP2C	X	-46.949	.5
32	MP2C	Z	81.318	.5
33	MP2C	Mx	.0709	.5
34	MP2C	X	-46.949	5.5
35	MP2C	Z	81.318	5.5
36	MP2C	Mx	.0709	5.5
37	MP5A	X	-33.056	2
38	MP5A	Z	57.255	2
39	MP5A	Mx	.0165	2
40	MP5A	X	-33.056	4
41	MP5A	Z	57.255	4
42	MP5A	Mx	.0165	4
43	MP5B	X	-13.616	2
44	MP5B	Z	23.583	2
45	MP5B	Mx	-.0136	2
46	MP5B	X	-13.616	4
47	MP5B	Z	23.583	4
48	MP5B	Mx	-.0136	4
49	MP5C	X	-13.616	2
50	MP5C	Z	23.583	2
51	MP5C	Mx	-.0136	2
52	MP5C	X	-13.616	4
53	MP5C	Z	23.583	4
54	MP5C	Mx	-.0136	4
55	MP1A	X	-28.694	3
56	MP1A	Z	49.699	3
57	MP1A	Mx	-.0143	3
58	MP1B	X	-20.978	3
59	MP1B	Z	36.336	3
60	MP1B	Mx	.021	3
61	MP1C	X	-28.694	3
62	MP1C	Z	49.699	3
63	MP1C	Mx	-.0143	3
64	MP2A	X	-28.19	3
65	MP2A	Z	48.826	3
66	MP2A	Mx	-.0141	3
67	MP2B	X	-18.961	3
68	MP2B	Z	32.842	3
69	MP2B	Mx	.019	3
70	MP2C	X	-28.19	3
71	MP2C	Z	48.826	3
72	MP2C	Mx	-.0141	3
73	MP4A	X	-77.895	.5
74	MP4A	Z	134.918	.5
75	MP4A	Mx	.0519	.5
76	MP4A	X	-77.895	5.5
77	MP4A	Z	134.918	5.5
78	MP4A	Mx	.0519	5.5
79	MP4B	X	-52.88	.5
80	MP4B	Z	91.59	.5
81	MP4B	Mx	-.0705	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP4B	X	-52.88	5.5
83	MP4B	Z	91.59	5.5
84	MP4B	Mx	-.0705	5.5
85	MP4C	X	-77.895	.5
86	MP4C	Z	134.918	.5
87	MP4C	Mx	.0519	.5
88	MP4C	X	-77.895	5.5
89	MP4C	Z	134.918	5.5
90	MP4C	Mx	.0519	5.5
91	OVP	X	-52.115	1.5
92	OVP	Z	90.265	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-19.299	5.25
95	MP2B	Z	33.427	5.25
96	MP2B	Mx	.0386	5.25
97	MP2B	X	-19.299	5.25
98	MP2B	Z	33.427	5.25
99	MP2B	Mx	.0386	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-54.241	.5
2	MP2A	Z	31.316	.5
3	MP2A	Mx	.0454	.5
4	MP2A	X	-54.241	5.5
5	MP2A	Z	31.316	5.5
6	MP2A	Mx	.0454	5.5
7	MP2B	X	-54.241	.5
8	MP2B	Z	31.316	.5
9	MP2B	Mx	-.0089	.5
10	MP2B	X	-54.241	5.5
11	MP2B	Z	31.316	5.5
12	MP2B	Mx	-.0089	5.5
13	MP2C	X	-94.857	.5
14	MP2C	Z	54.766	.5
15	MP2C	Mx	-.0639	.5
16	MP2C	X	-94.857	5.5
17	MP2C	Z	54.766	5.5
18	MP2C	Mx	-.0639	5.5
19	MP2A	X	-54.241	.5
20	MP2A	Z	31.316	.5
21	MP2A	Mx	.0089	.5
22	MP2A	X	-54.241	5.5
23	MP2A	Z	31.316	5.5
24	MP2A	Mx	.0089	5.5
25	MP2B	X	-54.241	.5
26	MP2B	Z	31.316	.5
27	MP2B	Mx	-.0454	.5
28	MP2B	X	-54.241	5.5
29	MP2B	Z	31.316	5.5
30	MP2B	Mx	-.0454	5.5
31	MP2C	X	-94.857	.5
32	MP2C	Z	54.766	.5
33	MP2C	Mx	.0639	.5
34	MP2C	X	-94.857	5.5
35	MP2C	Z	54.766	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP2C	Mx	.0639	5.5
37	MP5A	X	-34.807	2
38	MP5A	Z	20.096	2
39	MP5A	Mx	.0174	2
40	MP5A	X	-34.807	4
41	MP5A	Z	20.096	4
42	MP5A	Mx	.0174	4
43	MP5B	X	-34.807	2
44	MP5B	Z	20.096	2
45	MP5B	Mx	-.0174	2
46	MP5B	X	-34.807	4
47	MP5B	Z	20.096	4
48	MP5B	Mx	-.0174	4
49	MP5C	X	-34.807	2
50	MP5C	Z	20.096	2
51	MP5C	Mx	-.0174	2
52	MP5C	X	-34.807	4
53	MP5C	Z	20.096	4
54	MP5C	Mx	-.0174	4
55	MP1A	X	-40.79	3
56	MP1A	Z	23.55	3
57	MP1A	Mx	-.0204	3
58	MP1B	X	-40.79	3
59	MP1B	Z	23.55	3
60	MP1B	Mx	.0204	3
61	MP1C	X	-54.154	3
62	MP1C	Z	31.266	3
63	MP1C	Mx	0	3
64	MP2A	X	-38.17	3
65	MP2A	Z	22.037	3
66	MP2A	Mx	-.0191	3
67	MP2B	X	-38.17	3
68	MP2B	Z	22.037	3
69	MP2B	Mx	.0191	3
70	MP2C	X	-54.154	3
71	MP2C	Z	31.266	3
72	MP2C	Mx	0	3
73	MP4A	X	-106.033	.5
74	MP4A	Z	61.218	.5
75	MP4A	Mx	.0707	.5
76	MP4A	X	-106.033	5.5
77	MP4A	Z	61.218	5.5
78	MP4A	Mx	.0707	5.5
79	MP4B	X	-106.033	.5
80	MP4B	Z	61.218	.5
81	MP4B	Mx	-.0707	.5
82	MP4B	X	-106.033	5.5
83	MP4B	Z	61.218	5.5
84	MP4B	Mx	-.0707	5.5
85	MP4C	X	-149.36	.5
86	MP4C	Z	86.233	.5
87	MP4C	Mx	0	.5
88	MP4C	X	-149.36	5.5
89	MP4C	Z	86.233	5.5
90	MP4C	Mx	0	5.5
91	OVP	X	-83.669	1.5
92	OVP	Z	48.306	1.5



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
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Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
93	OVP	Mx	0	1.5
94	MP2B	X	-33.402	5.25
95	MP2B	Z	19.285	5.25
96	MP2B	Mx	.0398	5.25
97	MP2B	X	-33.402	5.25
98	MP2B	Z	19.285	5.25
99	MP2B	Mx	.027	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-47	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.0235	.5
4	MP2A	X	-47	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.0235	5.5
7	MP2B	X	-93.898	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	-93.898	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.024	5.5
13	MP2C	X	-93.898	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.0709	.5
16	MP2C	X	-93.898	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.0709	5.5
19	MP2A	X	-47	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.0235	.5
22	MP2A	X	-47	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.0235	5.5
25	MP2B	X	-93.898	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.0709	.5
28	MP2B	X	-93.898	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.0709	5.5
31	MP2C	X	-93.898	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.024	.5
34	MP2C	X	-93.898	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.024	5.5
37	MP5A	X	-27.232	2
38	MP5A	Z	0	2
39	MP5A	Mx	.0136	2
40	MP5A	X	-27.232	4
41	MP5A	Z	0	4
42	MP5A	Mx	.0136	4
43	MP5B	X	-66.112	2
44	MP5B	Z	0	2
45	MP5B	Mx	-.0165	2
46	MP5B	X	-66.112	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP5B	Z	0	4
48	MP5B	Mx	-.0165	4
49	MP5C	X	-66.112	2
50	MP5C	Z	0	2
51	MP5C	Mx	-.0165	2
52	MP5C	X	-66.112	4
53	MP5C	Z	0	4
54	MP5C	Mx	-.0165	4
55	MP1A	X	-41.957	3
56	MP1A	Z	0	3
57	MP1A	Mx	-.021	3
58	MP1B	X	-57.388	3
59	MP1B	Z	0	3
60	MP1B	Mx	.0143	3
61	MP1C	X	-57.388	3
62	MP1C	Z	0	3
63	MP1C	Mx	.0143	3
64	MP2A	X	-37.922	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.019	3
67	MP2B	X	-56.379	3
68	MP2B	Z	0	3
69	MP2B	Mx	.0141	3
70	MP2C	X	-56.379	3
71	MP2C	Z	0	3
72	MP2C	Mx	.0141	3
73	MP4A	X	-105.759	.5
74	MP4A	Z	0	.5
75	MP4A	Mx	.0705	.5
76	MP4A	X	-105.759	5.5
77	MP4A	Z	0	5.5
78	MP4A	Mx	.0705	5.5
79	MP4B	X	-155.79	.5
80	MP4B	Z	0	.5
81	MP4B	Mx	-.0519	.5
82	MP4B	X	-155.79	5.5
83	MP4B	Z	0	5.5
84	MP4B	Mx	-.0519	5.5
85	MP4C	X	-155.79	.5
86	MP4C	Z	0	.5
87	MP4C	Mx	-.0519	.5
88	MP4C	X	-155.79	5.5
89	MP4C	Z	0	5.5
90	MP4C	Mx	-.0519	5.5
91	OVP	X	-104.229	1.5
92	OVP	Z	0	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-38.513	5.25
95	MP2B	Z	0	5.25
96	MP2B	Mx	.0304	5.25
97	MP2B	X	-38.513	5.25
98	MP2B	Z	0	5.25
99	MP2B	Mx	.0081	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
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Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-54.241	.5
2	MP2A	Z	-31.316	.5
3	MP2A	Mx	.0089	.5
4	MP2A	X	-54.241	5.5
5	MP2A	Z	-31.316	5.5
6	MP2A	Mx	.0089	5.5
7	MP2B	X	-94.857	.5
8	MP2B	Z	-54.766	.5
9	MP2B	Mx	.0639	.5
10	MP2B	X	-94.857	5.5
11	MP2B	Z	-54.766	5.5
12	MP2B	Mx	.0639	5.5
13	MP2C	X	-54.241	.5
14	MP2C	Z	-31.316	.5
15	MP2C	Mx	-.0454	.5
16	MP2C	X	-54.241	5.5
17	MP2C	Z	-31.316	5.5
18	MP2C	Mx	-.0454	5.5
19	MP2A	X	-54.241	.5
20	MP2A	Z	-31.316	.5
21	MP2A	Mx	.0454	.5
22	MP2A	X	-54.241	5.5
23	MP2A	Z	-31.316	5.5
24	MP2A	Mx	.0454	5.5
25	MP2B	X	-94.857	.5
26	MP2B	Z	-54.766	.5
27	MP2B	Mx	-.0639	.5
28	MP2B	X	-94.857	5.5
29	MP2B	Z	-54.766	5.5
30	MP2B	Mx	-.0639	5.5
31	MP2C	X	-54.241	.5
32	MP2C	Z	-31.316	.5
33	MP2C	Mx	-.0089	.5
34	MP2C	X	-54.241	5.5
35	MP2C	Z	-31.316	5.5
36	MP2C	Mx	-.0089	5.5
37	MP5A	X	-34.807	2
38	MP5A	Z	-20.096	2
39	MP5A	Mx	.0174	2
40	MP5A	X	-34.807	4
41	MP5A	Z	-20.096	4
42	MP5A	Mx	.0174	4
43	MP5B	X	-68.479	2
44	MP5B	Z	-39.536	2
45	MP5B	Mx	0	2
46	MP5B	X	-68.479	4
47	MP5B	Z	-39.536	4
48	MP5B	Mx	0	4
49	MP5C	X	-68.479	2
50	MP5C	Z	-39.536	2
51	MP5C	Mx	0	2
52	MP5C	X	-68.479	4
53	MP5C	Z	-39.536	4
54	MP5C	Mx	0	4
55	MP1A	X	-40.79	3
56	MP1A	Z	-23.55	3
57	MP1A	Mx	-.0204	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1B	X	-54.154	3
59	MP1B	Z	-31.266	3
60	MP1B	Mx	0	3
61	MP1C	X	-40.79	3
62	MP1C	Z	-23.55	3
63	MP1C	Mx	.0204	3
64	MP2A	X	-38.17	3
65	MP2A	Z	-22.037	3
66	MP2A	Mx	-.0191	3
67	MP2B	X	-54.154	3
68	MP2B	Z	-31.266	3
69	MP2B	Mx	0	3
70	MP2C	X	-38.17	3
71	MP2C	Z	-22.037	3
72	MP2C	Mx	.0191	3
73	MP4A	X	-106.033	.5
74	MP4A	Z	-61.218	.5
75	MP4A	Mx	.0707	.5
76	MP4A	X	-106.033	5.5
77	MP4A	Z	-61.218	5.5
78	MP4A	Mx	.0707	5.5
79	MP4B	X	-149.36	.5
80	MP4B	Z	-86.233	.5
81	MP4B	Mx	0	.5
82	MP4B	X	-149.36	5.5
83	MP4B	Z	-86.233	5.5
84	MP4B	Mx	0	5.5
85	MP4C	X	-106.033	.5
86	MP4C	Z	-61.218	.5
87	MP4C	Mx	-.0707	.5
88	MP4C	X	-106.033	5.5
89	MP4C	Z	-61.218	5.5
90	MP4C	Mx	-.0707	5.5
91	OVP	X	-103.458	1.5
92	OVP	Z	-59.731	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-33.329	5.25
95	MP2B	Z	-19.242	5.25
96	MP2B	Mx	.0128	5.25
97	MP2B	X	-33.329	5.25
98	MP2B	Z	-19.242	5.25
99	MP2B	Mx	-.0128	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-46.949	.5
2	MP2A	Z	-81.318	.5
3	MP2A	Mx	-.024	.5
4	MP2A	X	-46.949	5.5
5	MP2A	Z	-81.318	5.5
6	MP2A	Mx	-.024	5.5
7	MP2B	X	-46.949	.5
8	MP2B	Z	-81.318	.5
9	MP2B	Mx	.0709	.5
10	MP2B	X	-46.949	5.5
11	MP2B	Z	-81.318	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP2B	Mx	.0709	5.5
13	MP2C	X	-23.5	.5
14	MP2C	Z	-40.703	.5
15	MP2C	Mx	-.0235	.5
16	MP2C	X	-23.5	5.5
17	MP2C	Z	-40.703	5.5
18	MP2C	Mx	-.0235	5.5
19	MP2A	X	-46.949	.5
20	MP2A	Z	-81.318	.5
21	MP2A	Mx	.0709	.5
22	MP2A	X	-46.949	5.5
23	MP2A	Z	-81.318	5.5
24	MP2A	Mx	.0709	5.5
25	MP2B	X	-46.949	.5
26	MP2B	Z	-81.318	.5
27	MP2B	Mx	-.024	.5
28	MP2B	X	-46.949	5.5
29	MP2B	Z	-81.318	5.5
30	MP2B	Mx	-.024	5.5
31	MP2C	X	-23.5	.5
32	MP2C	Z	-40.703	.5
33	MP2C	Mx	-.0235	.5
34	MP2C	X	-23.5	5.5
35	MP2C	Z	-40.703	5.5
36	MP2C	Mx	-.0235	5.5
37	MP5A	X	-33.056	2
38	MP5A	Z	-57.255	2
39	MP5A	Mx	.0165	2
40	MP5A	X	-33.056	4
41	MP5A	Z	-57.255	4
42	MP5A	Mx	.0165	4
43	MP5B	X	-33.056	2
44	MP5B	Z	-57.255	2
45	MP5B	Mx	.0165	2
46	MP5B	X	-33.056	4
47	MP5B	Z	-57.255	4
48	MP5B	Mx	.0165	4
49	MP5C	X	-33.056	2
50	MP5C	Z	-57.255	2
51	MP5C	Mx	.0165	2
52	MP5C	X	-33.056	4
53	MP5C	Z	-57.255	4
54	MP5C	Mx	.0165	4
55	MP1A	X	-28.694	3
56	MP1A	Z	-49.699	3
57	MP1A	Mx	-.0143	3
58	MP1B	X	-28.694	3
59	MP1B	Z	-49.699	3
60	MP1B	Mx	-.0143	3
61	MP1C	X	-20.978	3
62	MP1C	Z	-36.336	3
63	MP1C	Mx	.021	3
64	MP2A	X	-28.19	3
65	MP2A	Z	-48.826	3
66	MP2A	Mx	-.0141	3
67	MP2B	X	-28.19	3
68	MP2B	Z	-48.826	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP2B	Mx	-.0141	3
70	MP2C	X	-18.961	3
71	MP2C	Z	-32.842	3
72	MP2C	Mx	.019	3
73	MP4A	X	-77.895	.5
74	MP4A	Z	-134.918	.5
75	MP4A	Mx	.0519	.5
76	MP4A	X	-77.895	5.5
77	MP4A	Z	-134.918	5.5
78	MP4A	Mx	.0519	5.5
79	MP4B	X	-77.895	.5
80	MP4B	Z	-134.918	.5
81	MP4B	Mx	.0519	.5
82	MP4B	X	-77.895	5.5
83	MP4B	Z	-134.918	5.5
84	MP4B	Mx	.0519	5.5
85	MP4C	X	-52.88	.5
86	MP4C	Z	-91.59	.5
87	MP4C	Mx	-.0705	.5
88	MP4C	X	-52.88	5.5
89	MP4C	Z	-91.59	5.5
90	MP4C	Mx	-.0705	5.5
91	OVP	X	-63.54	1.5
92	OVP	Z	-110.054	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-19.257	5.25
95	MP2B	Z	-33.353	5.25
96	MP2B	Mx	-.0081	5.25
97	MP2B	X	-19.257	5.25
98	MP2B	Z	-33.353	5.25
99	MP2B	Mx	-.0304	5.25

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	-32.706	.5
3	MP2A	Mx	-.0191	.5
4	MP2A	X	0	5.5
5	MP2A	Z	-32.706	5.5
6	MP2A	Mx	-.0191	5.5
7	MP2B	X	0	.5
8	MP2B	Z	-25.408	.5
9	MP2B	Mx	.0184	.5
10	MP2B	X	0	5.5
11	MP2B	Z	-25.408	5.5
12	MP2B	Mx	.0184	5.5
13	MP2C	X	0	.5
14	MP2C	Z	-25.408	.5
15	MP2C	Mx	-.0036	.5
16	MP2C	X	0	5.5
17	MP2C	Z	-25.408	5.5
18	MP2C	Mx	-.0036	5.5
19	MP2A	X	0	.5
20	MP2A	Z	-32.706	.5
21	MP2A	Mx	.0191	.5
22	MP2A	X	0	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	-32.706	5.5
24	MP2A	Mx	.0191	5.5
25	MP2B	X	0	.5
26	MP2B	Z	-25.408	.5
27	MP2B	Mx	.0036	.5
28	MP2B	X	0	5.5
29	MP2B	Z	-25.408	5.5
30	MP2B	Mx	.0036	5.5
31	MP2C	X	0	.5
32	MP2C	Z	-25.408	.5
33	MP2C	Mx	-.0184	.5
34	MP2C	X	0	5.5
35	MP2C	Z	-25.408	5.5
36	MP2C	Mx	-.0184	5.5
37	MP5A	X	0	2
38	MP5A	Z	-19.66	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	-19.66	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	-11.451	2
45	MP5B	Mx	.005	2
46	MP5B	X	0	4
47	MP5B	Z	-11.451	4
48	MP5B	Mx	.005	4
49	MP5C	X	0	2
50	MP5C	Z	-11.451	2
51	MP5C	Mx	.005	2
52	MP5C	X	0	4
53	MP5C	Z	-11.451	4
54	MP5C	Mx	.005	4
55	MP1A	X	0	3
56	MP1A	Z	-17.009	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-13.29	3
60	MP1B	Mx	-.0058	3
61	MP1C	X	0	3
62	MP1C	Z	-13.29	3
63	MP1C	Mx	.0058	3
64	MP2A	X	0	3
65	MP2A	Z	-17.009	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-12.621	3
69	MP2B	Mx	-.0055	3
70	MP2C	X	0	3
71	MP2C	Z	-12.621	3
72	MP2C	Mx	.0055	3
73	MP4A	X	0	.5
74	MP4A	Z	-34.407	.5
75	MP4A	Mx	0	.5
76	MP4A	X	0	5.5
77	MP4A	Z	-34.407	5.5
78	MP4A	Mx	0	5.5
79	MP4B	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP4B	Z	-25.624	.5
81	MP4B	Mx	.0148	.5
82	MP4B	X	0	5.5
83	MP4B	Z	-25.624	5.5
84	MP4B	Mx	.0148	5.5
85	MP4C	X	0	.5
86	MP4C	Z	-25.624	.5
87	MP4C	Mx	-.0148	.5
88	MP4C	X	0	5.5
89	MP4C	Z	-25.624	5.5
90	MP4C	Mx	-.0148	5.5
91	OVP	X	0	1.5
92	OVP	Z	-32.128	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	0	5.25
95	MP2B	Z	-8.158	5.25
96	MP2B	Mx	-.0057	5.25
97	MP2B	X	0	5.25
98	MP2B	Z	-8.158	5.25
99	MP2B	Mx	-.0084	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	15.137	.5
2	MP2A	Z	-26.217	.5
3	MP2A	Mx	-.0229	.5
4	MP2A	X	15.137	5.5
5	MP2A	Z	-26.217	5.5
6	MP2A	Mx	-.0229	5.5
7	MP2B	X	11.487	.5
8	MP2B	Z	-19.897	.5
9	MP2B	Mx	.0115	.5
10	MP2B	X	11.487	5.5
11	MP2B	Z	-19.897	5.5
12	MP2B	Mx	.0115	5.5
13	MP2C	X	15.137	.5
14	MP2C	Z	-26.217	.5
15	MP2C	Mx	.0077	.5
16	MP2C	X	15.137	5.5
17	MP2C	Z	-26.217	5.5
18	MP2C	Mx	.0077	5.5
19	MP2A	X	15.137	.5
20	MP2A	Z	-26.217	.5
21	MP2A	Mx	.0077	.5
22	MP2A	X	15.137	5.5
23	MP2A	Z	-26.217	5.5
24	MP2A	Mx	.0077	5.5
25	MP2B	X	11.487	.5
26	MP2B	Z	-19.897	.5
27	MP2B	Mx	.0115	.5
28	MP2B	X	11.487	5.5
29	MP2B	Z	-19.897	5.5
30	MP2B	Mx	.0115	5.5
31	MP2C	X	15.137	.5
32	MP2C	Z	-26.217	.5
33	MP2C	Mx	-.0229	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2C	X	15.137	5.5
35	MP2C	Z	-26.217	5.5
36	MP2C	Mx	-.0229	5.5
37	MP5A	X	8.462	2
38	MP5A	Z	-14.656	2
39	MP5A	Mx	-.0042	2
40	MP5A	X	8.462	4
41	MP5A	Z	-14.656	4
42	MP5A	Mx	-.0042	4
43	MP5B	X	4.357	2
44	MP5B	Z	-7.547	2
45	MP5B	Mx	.0044	2
46	MP5B	X	4.357	4
47	MP5B	Z	-7.547	4
48	MP5B	Mx	.0044	4
49	MP5C	X	4.357	2
50	MP5C	Z	-7.547	2
51	MP5C	Mx	.0044	2
52	MP5C	X	4.357	4
53	MP5C	Z	-7.547	4
54	MP5C	Mx	.0044	4
55	MP1A	X	7.885	3
56	MP1A	Z	-13.656	3
57	MP1A	Mx	.0039	3
58	MP1B	X	6.025	3
59	MP1B	Z	-10.436	3
60	MP1B	Mx	-.006	3
61	MP1C	X	7.885	3
62	MP1C	Z	-13.656	3
63	MP1C	Mx	.0039	3
64	MP2A	X	7.773	3
65	MP2A	Z	-13.463	3
66	MP2A	Mx	.0039	3
67	MP2B	X	5.579	3
68	MP2B	Z	-9.664	3
69	MP2B	Mx	-.0056	3
70	MP2C	X	7.773	3
71	MP2C	Z	-13.463	3
72	MP2C	Mx	.0039	3
73	MP4A	X	15.74	.5
74	MP4A	Z	-27.262	.5
75	MP4A	Mx	-.0105	.5
76	MP4A	X	15.74	5.5
77	MP4A	Z	-27.262	5.5
78	MP4A	Mx	-.0105	5.5
79	MP4B	X	11.348	.5
80	MP4B	Z	-19.656	.5
81	MP4B	Mx	.0151	.5
82	MP4B	X	11.348	5.5
83	MP4B	Z	-19.656	5.5
84	MP4B	Mx	.0151	5.5
85	MP4C	X	15.74	.5
86	MP4C	Z	-27.262	.5
87	MP4C	Mx	-.0105	.5
88	MP4C	X	15.74	5.5
89	MP4C	Z	-27.262	5.5
90	MP4C	Mx	-.0105	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
91	OVP	X	14.284	1.5
92	OVP	Z	-24.74	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	4.781	5.25
95	MP2B	Z	-8.282	5.25
96	MP2B	Mx	-.0096	5.25
97	MP2B	X	4.781	5.25
98	MP2B	Z	-8.282	5.25
99	MP2B	Mx	-.0096	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	22.004	.5
2	MP2A	Z	-12.704	.5
3	MP2A	Mx	-.0184	.5
4	MP2A	X	22.004	5.5
5	MP2A	Z	-12.704	5.5
6	MP2A	Mx	-.0184	5.5
7	MP2B	X	22.004	.5
8	MP2B	Z	-12.704	.5
9	MP2B	Mx	.0036	.5
10	MP2B	X	22.004	5.5
11	MP2B	Z	-12.704	5.5
12	MP2B	Mx	.0036	5.5
13	MP2C	X	28.324	.5
14	MP2C	Z	-16.353	.5
15	MP2C	Mx	.0191	.5
16	MP2C	X	28.324	5.5
17	MP2C	Z	-16.353	5.5
18	MP2C	Mx	.0191	5.5
19	MP2A	X	22.004	.5
20	MP2A	Z	-12.704	.5
21	MP2A	Mx	-.0036	.5
22	MP2A	X	22.004	5.5
23	MP2A	Z	-12.704	5.5
24	MP2A	Mx	-.0036	5.5
25	MP2B	X	22.004	.5
26	MP2B	Z	-12.704	.5
27	MP2B	Mx	.0184	.5
28	MP2B	X	22.004	5.5
29	MP2B	Z	-12.704	5.5
30	MP2B	Mx	.0184	5.5
31	MP2C	X	28.324	.5
32	MP2C	Z	-16.353	.5
33	MP2C	Mx	-.0191	.5
34	MP2C	X	28.324	5.5
35	MP2C	Z	-16.353	5.5
36	MP2C	Mx	-.0191	5.5
37	MP5A	X	9.917	2
38	MP5A	Z	-5.726	2
39	MP5A	Mx	-.005	2
40	MP5A	X	9.917	4
41	MP5A	Z	-5.726	4
42	MP5A	Mx	-.005	4
43	MP5B	X	9.917	2
44	MP5B	Z	-5.726	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP5B	Mx	.005	2
46	MP5B	X	9.917	4
47	MP5B	Z	-5.726	4
48	MP5B	Mx	.005	4
49	MP5C	X	9.917	2
50	MP5C	Z	-5.726	2
51	MP5C	Mx	.005	2
52	MP5C	X	9.917	4
53	MP5C	Z	-5.726	4
54	MP5C	Mx	.005	4
55	MP1A	X	11.51	3
56	MP1A	Z	-6.645	3
57	MP1A	Mx	.0058	3
58	MP1B	X	11.51	3
59	MP1B	Z	-6.645	3
60	MP1B	Mx	-.0058	3
61	MP1C	X	14.73	3
62	MP1C	Z	-8.504	3
63	MP1C	Mx	0	3
64	MP2A	X	10.93	3
65	MP2A	Z	-6.311	3
66	MP2A	Mx	.0055	3
67	MP2B	X	10.93	3
68	MP2B	Z	-6.311	3
69	MP2B	Mx	-.0055	3
70	MP2C	X	14.73	3
71	MP2C	Z	-8.504	3
72	MP2C	Mx	0	3
73	MP4A	X	22.191	.5
74	MP4A	Z	-12.812	.5
75	MP4A	Mx	-.0148	.5
76	MP4A	X	22.191	5.5
77	MP4A	Z	-12.812	5.5
78	MP4A	Mx	-.0148	5.5
79	MP4B	X	22.191	.5
80	MP4B	Z	-12.812	.5
81	MP4B	Mx	.0148	.5
82	MP4B	X	22.191	5.5
83	MP4B	Z	-12.812	5.5
84	MP4B	Mx	.0148	5.5
85	MP4C	X	29.797	.5
86	MP4C	Z	-17.204	.5
87	MP4C	Mx	0	.5
88	MP4C	X	29.797	5.5
89	MP4C	Z	-17.204	5.5
90	MP4C	Mx	0	5.5
91	OVP	X	23.199	1.5
92	OVP	Z	-13.394	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	7.065	5.25
95	MP2B	Z	-4.079	5.25
96	MP2B	Mx	-.0084	5.25
97	MP2B	X	7.065	5.25
98	MP2B	Z	-4.079	5.25
99	MP2B	Mx	-.0057	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	22.975	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.0115	.5
4	MP2A	X	22.975	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.0115	5.5
7	MP2B	X	30.273	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.0077	.5
10	MP2B	X	30.273	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.0077	5.5
13	MP2C	X	30.273	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.0229	.5
16	MP2C	X	30.273	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.0229	5.5
19	MP2A	X	22.975	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.0115	.5
22	MP2A	X	22.975	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.0115	5.5
25	MP2B	X	30.273	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.0229	.5
28	MP2B	X	30.273	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.0229	5.5
31	MP2C	X	30.273	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.0077	.5
34	MP2C	X	30.273	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.0077	5.5
37	MP5A	X	8.715	2
38	MP5A	Z	0	2
39	MP5A	Mx	-.0044	2
40	MP5A	X	8.715	4
41	MP5A	Z	0	4
42	MP5A	Mx	-.0044	4
43	MP5B	X	16.923	2
44	MP5B	Z	0	2
45	MP5B	Mx	.0042	2
46	MP5B	X	16.923	4
47	MP5B	Z	0	4
48	MP5B	Mx	.0042	4
49	MP5C	X	16.923	2
50	MP5C	Z	0	2
51	MP5C	Mx	.0042	2
52	MP5C	X	16.923	4
53	MP5C	Z	0	4
54	MP5C	Mx	.0042	4
55	MP1A	X	12.051	3
56	MP1A	Z	0	3
57	MP1A	Mx	.006	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1B	X	15.769	3
59	MP1B	Z	0	3
60	MP1B	Mx	-.0039	3
61	MP1C	X	15.769	3
62	MP1C	Z	0	3
63	MP1C	Mx	-.0039	3
64	MP2A	X	11.159	3
65	MP2A	Z	0	3
66	MP2A	Mx	.0056	3
67	MP2B	X	15.546	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.0039	3
70	MP2C	X	15.546	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.0039	3
73	MP4A	X	22.696	.5
74	MP4A	Z	0	.5
75	MP4A	Mx	-.0151	.5
76	MP4A	X	22.696	5.5
77	MP4A	Z	0	5.5
78	MP4A	Mx	-.0151	5.5
79	MP4B	X	31.479	.5
80	MP4B	Z	0	.5
81	MP4B	Mx	.0105	.5
82	MP4B	X	31.479	5.5
83	MP4B	Z	0	5.5
84	MP4B	Mx	.0105	5.5
85	MP4C	X	31.479	.5
86	MP4C	Z	0	.5
87	MP4C	Mx	.0105	.5
88	MP4C	X	31.479	5.5
89	MP4C	Z	0	5.5
90	MP4C	Mx	.0105	5.5
91	OVP	X	28.568	1.5
92	OVP	Z	0	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	5.349	5.25
95	MP2B	Z	0	5.25
96	MP2B	Mx	-.0042	5.25
97	MP2B	X	5.349	5.25
98	MP2B	Z	0	5.25
99	MP2B	Mx	-.0011	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	22.004	.5
2	MP2A	Z	12.704	.5
3	MP2A	Mx	-.0036	.5
4	MP2A	X	22.004	5.5
5	MP2A	Z	12.704	5.5
6	MP2A	Mx	-.0036	5.5
7	MP2B	X	28.324	.5
8	MP2B	Z	16.353	.5
9	MP2B	Mx	-.0191	.5
10	MP2B	X	28.324	5.5
11	MP2B	Z	16.353	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP2B	Mx	-0.191	5.5
13	MP2C	X	22.004	.5
14	MP2C	Z	12.704	.5
15	MP2C	Mx	.0184	.5
16	MP2C	X	22.004	5.5
17	MP2C	Z	12.704	5.5
18	MP2C	Mx	.0184	5.5
19	MP2A	X	22.004	.5
20	MP2A	Z	12.704	.5
21	MP2A	Mx	-.0184	.5
22	MP2A	X	22.004	5.5
23	MP2A	Z	12.704	5.5
24	MP2A	Mx	-.0184	5.5
25	MP2B	X	28.324	.5
26	MP2B	Z	16.353	.5
27	MP2B	Mx	.0191	.5
28	MP2B	X	28.324	5.5
29	MP2B	Z	16.353	5.5
30	MP2B	Mx	.0191	5.5
31	MP2C	X	22.004	.5
32	MP2C	Z	12.704	.5
33	MP2C	Mx	.0036	.5
34	MP2C	X	22.004	5.5
35	MP2C	Z	12.704	5.5
36	MP2C	Mx	.0036	5.5
37	MP5A	X	9.917	2
38	MP5A	Z	5.726	2
39	MP5A	Mx	-.005	2
40	MP5A	X	9.917	4
41	MP5A	Z	5.726	4
42	MP5A	Mx	-.005	4
43	MP5B	X	17.026	2
44	MP5B	Z	9.83	2
45	MP5B	Mx	0	2
46	MP5B	X	17.026	4
47	MP5B	Z	9.83	4
48	MP5B	Mx	0	4
49	MP5C	X	17.026	2
50	MP5C	Z	9.83	2
51	MP5C	Mx	0	2
52	MP5C	X	17.026	4
53	MP5C	Z	9.83	4
54	MP5C	Mx	0	4
55	MP1A	X	11.51	3
56	MP1A	Z	6.645	3
57	MP1A	Mx	.0058	3
58	MP1B	X	14.73	3
59	MP1B	Z	8.504	3
60	MP1B	Mx	0	3
61	MP1C	X	11.51	3
62	MP1C	Z	6.645	3
63	MP1C	Mx	-.0058	3
64	MP2A	X	10.93	3
65	MP2A	Z	6.311	3
66	MP2A	Mx	.0055	3
67	MP2B	X	14.73	3
68	MP2B	Z	8.504	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP2B	Mx	0	3
70	MP2C	X	10.93	3
71	MP2C	Z	6.311	3
72	MP2C	Mx	-.0055	3
73	MP4A	X	22.191	.5
74	MP4A	Z	12.812	.5
75	MP4A	Mx	-.0148	.5
76	MP4A	X	22.191	5.5
77	MP4A	Z	12.812	5.5
78	MP4A	Mx	-.0148	5.5
79	MP4B	X	29.797	.5
80	MP4B	Z	17.204	.5
81	MP4B	Mx	0	.5
82	MP4B	X	29.797	5.5
83	MP4B	Z	17.204	5.5
84	MP4B	Mx	0	5.5
85	MP4C	X	22.191	.5
86	MP4C	Z	12.812	.5
87	MP4C	Mx	.0148	.5
88	MP4C	X	22.191	5.5
89	MP4C	Z	12.812	5.5
90	MP4C	Mx	.0148	5.5
91	OVP	X	27.824	1.5
92	OVP	Z	16.064	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	3.416	5.25
95	MP2B	Z	1.972	5.25
96	MP2B	Mx	-.0013	5.25
97	MP2B	X	3.416	5.25
98	MP2B	Z	1.972	5.25
99	MP2B	Mx	.0013	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	15.137	.5
2	MP2A	Z	26.217	.5
3	MP2A	Mx	.0077	.5
4	MP2A	X	15.137	5.5
5	MP2A	Z	26.217	5.5
6	MP2A	Mx	.0077	5.5
7	MP2B	X	15.137	.5
8	MP2B	Z	26.217	.5
9	MP2B	Mx	-.0229	.5
10	MP2B	X	15.137	5.5
11	MP2B	Z	26.217	5.5
12	MP2B	Mx	-.0229	5.5
13	MP2C	X	11.487	.5
14	MP2C	Z	19.897	.5
15	MP2C	Mx	.0115	.5
16	MP2C	X	11.487	5.5
17	MP2C	Z	19.897	5.5
18	MP2C	Mx	.0115	5.5
19	MP2A	X	15.137	.5
20	MP2A	Z	26.217	.5
21	MP2A	Mx	-.0229	.5
22	MP2A	X	15.137	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	26.217	5.5
24	MP2A	Mx	-.0229	5.5
25	MP2B	X	15.137	.5
26	MP2B	Z	26.217	.5
27	MP2B	Mx	.0077	.5
28	MP2B	X	15.137	5.5
29	MP2B	Z	26.217	5.5
30	MP2B	Mx	.0077	5.5
31	MP2C	X	11.487	.5
32	MP2C	Z	19.897	.5
33	MP2C	Mx	.0115	.5
34	MP2C	X	11.487	5.5
35	MP2C	Z	19.897	5.5
36	MP2C	Mx	.0115	5.5
37	MP5A	X	8.462	2
38	MP5A	Z	14.656	2
39	MP5A	Mx	-.0042	2
40	MP5A	X	8.462	4
41	MP5A	Z	14.656	4
42	MP5A	Mx	-.0042	4
43	MP5B	X	8.462	2
44	MP5B	Z	14.656	2
45	MP5B	Mx	-.0042	2
46	MP5B	X	8.462	4
47	MP5B	Z	14.656	4
48	MP5B	Mx	-.0042	4
49	MP5C	X	8.462	2
50	MP5C	Z	14.656	2
51	MP5C	Mx	-.0042	2
52	MP5C	X	8.462	4
53	MP5C	Z	14.656	4
54	MP5C	Mx	-.0042	4
55	MP1A	X	7.885	3
56	MP1A	Z	13.656	3
57	MP1A	Mx	.0039	3
58	MP1B	X	7.885	3
59	MP1B	Z	13.656	3
60	MP1B	Mx	.0039	3
61	MP1C	X	6.025	3
62	MP1C	Z	10.436	3
63	MP1C	Mx	-.006	3
64	MP2A	X	7.773	3
65	MP2A	Z	13.463	3
66	MP2A	Mx	.0039	3
67	MP2B	X	7.773	3
68	MP2B	Z	13.463	3
69	MP2B	Mx	.0039	3
70	MP2C	X	5.579	3
71	MP2C	Z	9.664	3
72	MP2C	Mx	-.0056	3
73	MP4A	X	15.74	.5
74	MP4A	Z	27.262	.5
75	MP4A	Mx	-.0105	.5
76	MP4A	X	15.74	5.5
77	MP4A	Z	27.262	5.5
78	MP4A	Mx	-.0105	5.5
79	MP4B	X	15.74	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP4B	Z	27.262	.5
81	MP4B	Mx	-.0105	.5
82	MP4B	X	15.74	5.5
83	MP4B	Z	27.262	5.5
84	MP4B	Mx	-.0105	5.5
85	MP4C	X	11.348	.5
86	MP4C	Z	19.656	.5
87	MP4C	Mx	.0151	.5
88	MP4C	X	11.348	5.5
89	MP4C	Z	19.656	5.5
90	MP4C	Mx	.0151	5.5
91	OVP	X	16.954	1.5
92	OVP	Z	29.365	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	2.674	5.25
95	MP2B	Z	4.632	5.25
96	MP2B	Mx	.0011	5.25
97	MP2B	X	2.674	5.25
98	MP2B	Z	4.632	5.25
99	MP2B	Mx	.0042	5.25

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	32.706	.5
3	MP2A	Mx	.0191	.5
4	MP2A	X	0	5.5
5	MP2A	Z	32.706	5.5
6	MP2A	Mx	.0191	5.5
7	MP2B	X	0	.5
8	MP2B	Z	25.408	.5
9	MP2B	Mx	-.0184	.5
10	MP2B	X	0	5.5
11	MP2B	Z	25.408	5.5
12	MP2B	Mx	-.0184	5.5
13	MP2C	X	0	.5
14	MP2C	Z	25.408	.5
15	MP2C	Mx	.0036	.5
16	MP2C	X	0	5.5
17	MP2C	Z	25.408	5.5
18	MP2C	Mx	.0036	5.5
19	MP2A	X	0	.5
20	MP2A	Z	32.706	.5
21	MP2A	Mx	-.0191	.5
22	MP2A	X	0	5.5
23	MP2A	Z	32.706	5.5
24	MP2A	Mx	-.0191	5.5
25	MP2B	X	0	.5
26	MP2B	Z	25.408	.5
27	MP2B	Mx	-.0036	.5
28	MP2B	X	0	5.5
29	MP2B	Z	25.408	5.5
30	MP2B	Mx	-.0036	5.5
31	MP2C	X	0	.5
32	MP2C	Z	25.408	.5
33	MP2C	Mx	.0184	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2C	X	0	5.5
35	MP2C	Z	25.408	5.5
36	MP2C	Mx	.0184	5.5
37	MP5A	X	0	2
38	MP5A	Z	19.66	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	19.66	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	11.451	2
45	MP5B	Mx	-.005	2
46	MP5B	X	0	4
47	MP5B	Z	11.451	4
48	MP5B	Mx	-.005	4
49	MP5C	X	0	2
50	MP5C	Z	11.451	2
51	MP5C	Mx	-.005	2
52	MP5C	X	0	4
53	MP5C	Z	11.451	4
54	MP5C	Mx	-.005	4
55	MP1A	X	0	3
56	MP1A	Z	17.009	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	13.29	3
60	MP1B	Mx	.0058	3
61	MP1C	X	0	3
62	MP1C	Z	13.29	3
63	MP1C	Mx	-.0058	3
64	MP2A	X	0	3
65	MP2A	Z	17.009	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	12.621	3
69	MP2B	Mx	.0055	3
70	MP2C	X	0	3
71	MP2C	Z	12.621	3
72	MP2C	Mx	-.0055	3
73	MP4A	X	0	.5
74	MP4A	Z	34.407	.5
75	MP4A	Mx	0	.5
76	MP4A	X	0	5.5
77	MP4A	Z	34.407	5.5
78	MP4A	Mx	0	5.5
79	MP4B	X	0	.5
80	MP4B	Z	25.624	.5
81	MP4B	Mx	-.0148	.5
82	MP4B	X	0	5.5
83	MP4B	Z	25.624	5.5
84	MP4B	Mx	-.0148	5.5
85	MP4C	X	0	.5
86	MP4C	Z	25.624	.5
87	MP4C	Mx	.0148	.5
88	MP4C	X	0	5.5
89	MP4C	Z	25.624	5.5
90	MP4C	Mx	.0148	5.5



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
91	OVP	X	0	1.5
92	OVP	Z	32.128	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	0	5.25
95	MP2B	Z	8.158	5.25
96	MP2B	Mx	.0057	5.25
97	MP2B	X	0	5.25
98	MP2B	Z	8.158	5.25
99	MP2B	Mx	.0084	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-15.137	.5
2	MP2A	Z	26.217	.5
3	MP2A	Mx	.0229	.5
4	MP2A	X	-15.137	5.5
5	MP2A	Z	26.217	5.5
6	MP2A	Mx	.0229	5.5
7	MP2B	X	-11.487	.5
8	MP2B	Z	19.897	.5
9	MP2B	Mx	-.0115	.5
10	MP2B	X	-11.487	5.5
11	MP2B	Z	19.897	5.5
12	MP2B	Mx	-.0115	5.5
13	MP2C	X	-15.137	.5
14	MP2C	Z	26.217	.5
15	MP2C	Mx	-.0077	.5
16	MP2C	X	-15.137	5.5
17	MP2C	Z	26.217	5.5
18	MP2C	Mx	-.0077	5.5
19	MP2A	X	-15.137	.5
20	MP2A	Z	26.217	.5
21	MP2A	Mx	-.0077	.5
22	MP2A	X	-15.137	5.5
23	MP2A	Z	26.217	5.5
24	MP2A	Mx	-.0077	5.5
25	MP2B	X	-11.487	.5
26	MP2B	Z	19.897	.5
27	MP2B	Mx	-.0115	.5
28	MP2B	X	-11.487	5.5
29	MP2B	Z	19.897	5.5
30	MP2B	Mx	-.0115	5.5
31	MP2C	X	-15.137	.5
32	MP2C	Z	26.217	.5
33	MP2C	Mx	.0229	.5
34	MP2C	X	-15.137	5.5
35	MP2C	Z	26.217	5.5
36	MP2C	Mx	.0229	5.5
37	MP5A	X	-8.462	2
38	MP5A	Z	14.656	2
39	MP5A	Mx	.0042	2
40	MP5A	X	-8.462	4
41	MP5A	Z	14.656	4
42	MP5A	Mx	.0042	4
43	MP5B	X	-4.357	2
44	MP5B	Z	7.547	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP5B	Mx	-.0044	2
46	MP5B	X	-4.357	4
47	MP5B	Z	7.547	4
48	MP5B	Mx	-.0044	4
49	MP5C	X	-4.357	2
50	MP5C	Z	7.547	2
51	MP5C	Mx	-.0044	2
52	MP5C	X	-4.357	4
53	MP5C	Z	7.547	4
54	MP5C	Mx	-.0044	4
55	MP1A	X	-7.885	3
56	MP1A	Z	13.656	3
57	MP1A	Mx	-.0039	3
58	MP1B	X	-6.025	3
59	MP1B	Z	10.436	3
60	MP1B	Mx	.006	3
61	MP1C	X	-7.885	3
62	MP1C	Z	13.656	3
63	MP1C	Mx	-.0039	3
64	MP2A	X	-7.773	3
65	MP2A	Z	13.463	3
66	MP2A	Mx	-.0039	3
67	MP2B	X	-5.579	3
68	MP2B	Z	9.664	3
69	MP2B	Mx	.0056	3
70	MP2C	X	-7.773	3
71	MP2C	Z	13.463	3
72	MP2C	Mx	-.0039	3
73	MP4A	X	-15.74	.5
74	MP4A	Z	27.262	.5
75	MP4A	Mx	.0105	.5
76	MP4A	X	-15.74	5.5
77	MP4A	Z	27.262	5.5
78	MP4A	Mx	.0105	5.5
79	MP4B	X	-11.348	.5
80	MP4B	Z	19.656	.5
81	MP4B	Mx	-.0151	.5
82	MP4B	X	-11.348	5.5
83	MP4B	Z	19.656	5.5
84	MP4B	Mx	-.0151	5.5
85	MP4C	X	-15.74	.5
86	MP4C	Z	27.262	.5
87	MP4C	Mx	.0105	.5
88	MP4C	X	-15.74	5.5
89	MP4C	Z	27.262	5.5
90	MP4C	Mx	.0105	5.5
91	OVP	X	-14.284	1.5
92	OVP	Z	24.74	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-4.781	5.25
95	MP2B	Z	8.282	5.25
96	MP2B	Mx	.0096	5.25
97	MP2B	X	-4.781	5.25
98	MP2B	Z	8.282	5.25
99	MP2B	Mx	.0096	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-22.004	.5
2	MP2A	Z	12.704	.5
3	MP2A	Mx	.0184	.5
4	MP2A	X	-22.004	5.5
5	MP2A	Z	12.704	5.5
6	MP2A	Mx	.0184	5.5
7	MP2B	X	-22.004	.5
8	MP2B	Z	12.704	.5
9	MP2B	Mx	-.0036	.5
10	MP2B	X	-22.004	5.5
11	MP2B	Z	12.704	5.5
12	MP2B	Mx	-.0036	5.5
13	MP2C	X	-28.324	.5
14	MP2C	Z	16.353	.5
15	MP2C	Mx	-.0191	.5
16	MP2C	X	-28.324	5.5
17	MP2C	Z	16.353	5.5
18	MP2C	Mx	-.0191	5.5
19	MP2A	X	-22.004	.5
20	MP2A	Z	12.704	.5
21	MP2A	Mx	.0036	.5
22	MP2A	X	-22.004	5.5
23	MP2A	Z	12.704	5.5
24	MP2A	Mx	.0036	5.5
25	MP2B	X	-22.004	.5
26	MP2B	Z	12.704	.5
27	MP2B	Mx	-.0184	.5
28	MP2B	X	-22.004	5.5
29	MP2B	Z	12.704	5.5
30	MP2B	Mx	-.0184	5.5
31	MP2C	X	-28.324	.5
32	MP2C	Z	16.353	.5
33	MP2C	Mx	.0191	.5
34	MP2C	X	-28.324	5.5
35	MP2C	Z	16.353	5.5
36	MP2C	Mx	.0191	5.5
37	MP5A	X	-9.917	2
38	MP5A	Z	5.726	2
39	MP5A	Mx	.005	2
40	MP5A	X	-9.917	4
41	MP5A	Z	5.726	4
42	MP5A	Mx	.005	4
43	MP5B	X	-9.917	2
44	MP5B	Z	5.726	2
45	MP5B	Mx	-.005	2
46	MP5B	X	-9.917	4
47	MP5B	Z	5.726	4
48	MP5B	Mx	-.005	4
49	MP5C	X	-9.917	2
50	MP5C	Z	5.726	2
51	MP5C	Mx	-.005	2
52	MP5C	X	-9.917	4
53	MP5C	Z	5.726	4
54	MP5C	Mx	-.005	4
55	MP1A	X	-11.51	3
56	MP1A	Z	6.645	3
57	MP1A	Mx	-.0058	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1B	X	-11.51	3
59	MP1B	Z	6.645	3
60	MP1B	Mx	.0058	3
61	MP1C	X	-14.73	3
62	MP1C	Z	8.504	3
63	MP1C	Mx	0	3
64	MP2A	X	-10.93	3
65	MP2A	Z	6.311	3
66	MP2A	Mx	-.0055	3
67	MP2B	X	-10.93	3
68	MP2B	Z	6.311	3
69	MP2B	Mx	.0055	3
70	MP2C	X	-14.73	3
71	MP2C	Z	8.504	3
72	MP2C	Mx	0	3
73	MP4A	X	-22.191	.5
74	MP4A	Z	12.812	.5
75	MP4A	Mx	.0148	.5
76	MP4A	X	-22.191	5.5
77	MP4A	Z	12.812	5.5
78	MP4A	Mx	.0148	5.5
79	MP4B	X	-22.191	.5
80	MP4B	Z	12.812	.5
81	MP4B	Mx	-.0148	.5
82	MP4B	X	-22.191	5.5
83	MP4B	Z	12.812	5.5
84	MP4B	Mx	-.0148	5.5
85	MP4C	X	-29.797	.5
86	MP4C	Z	17.204	.5
87	MP4C	Mx	0	.5
88	MP4C	X	-29.797	5.5
89	MP4C	Z	17.204	5.5
90	MP4C	Mx	0	5.5
91	OVP	X	-23.199	1.5
92	OVP	Z	13.394	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-7.065	5.25
95	MP2B	Z	4.079	5.25
96	MP2B	Mx	.0084	5.25
97	MP2B	X	-7.065	5.25
98	MP2B	Z	4.079	5.25
99	MP2B	Mx	.0057	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-22.975	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.0115	.5
4	MP2A	X	-22.975	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.0115	5.5
7	MP2B	X	-30.273	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.0077	.5
10	MP2B	X	-30.273	5.5
11	MP2B	Z	0	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP2B	Mx	.0077	5.5
13	MP2C	X	-30.273	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.0229	.5
16	MP2C	X	-30.273	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.0229	5.5
19	MP2A	X	-22.975	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.0115	.5
22	MP2A	X	-22.975	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.0115	5.5
25	MP2B	X	-30.273	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.0229	.5
28	MP2B	X	-30.273	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.0229	5.5
31	MP2C	X	-30.273	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.0077	.5
34	MP2C	X	-30.273	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.0077	5.5
37	MP5A	X	-8.715	2
38	MP5A	Z	0	2
39	MP5A	Mx	.0044	2
40	MP5A	X	-8.715	4
41	MP5A	Z	0	4
42	MP5A	Mx	.0044	4
43	MP5B	X	-16.923	2
44	MP5B	Z	0	2
45	MP5B	Mx	-.0042	2
46	MP5B	X	-16.923	4
47	MP5B	Z	0	4
48	MP5B	Mx	-.0042	4
49	MP5C	X	-16.923	2
50	MP5C	Z	0	2
51	MP5C	Mx	-.0042	2
52	MP5C	X	-16.923	4
53	MP5C	Z	0	4
54	MP5C	Mx	-.0042	4
55	MP1A	X	-12.051	3
56	MP1A	Z	0	3
57	MP1A	Mx	-.006	3
58	MP1B	X	-15.769	3
59	MP1B	Z	0	3
60	MP1B	Mx	.0039	3
61	MP1C	X	-15.769	3
62	MP1C	Z	0	3
63	MP1C	Mx	.0039	3
64	MP2A	X	-11.159	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.0056	3
67	MP2B	X	-15.546	3
68	MP2B	Z	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP2B	Mx	.0039	3
70	MP2C	X	-15.546	3
71	MP2C	Z	0	3
72	MP2C	Mx	.0039	3
73	MP4A	X	-22.696	.5
74	MP4A	Z	0	.5
75	MP4A	Mx	.0151	.5
76	MP4A	X	-22.696	5.5
77	MP4A	Z	0	5.5
78	MP4A	Mx	.0151	5.5
79	MP4B	X	-31.479	.5
80	MP4B	Z	0	.5
81	MP4B	Mx	-.0105	.5
82	MP4B	X	-31.479	5.5
83	MP4B	Z	0	5.5
84	MP4B	Mx	-.0105	5.5
85	MP4C	X	-31.479	.5
86	MP4C	Z	0	.5
87	MP4C	Mx	-.0105	.5
88	MP4C	X	-31.479	5.5
89	MP4C	Z	0	5.5
90	MP4C	Mx	-.0105	5.5
91	OVP	X	-28.568	1.5
92	OVP	Z	0	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-5.349	5.25
95	MP2B	Z	0	5.25
96	MP2B	Mx	.0042	5.25
97	MP2B	X	-5.349	5.25
98	MP2B	Z	0	5.25
99	MP2B	Mx	.0011	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-22.004	.5
2	MP2A	Z	-12.704	.5
3	MP2A	Mx	.0036	.5
4	MP2A	X	-22.004	5.5
5	MP2A	Z	-12.704	5.5
6	MP2A	Mx	.0036	5.5
7	MP2B	X	-28.324	.5
8	MP2B	Z	-16.353	.5
9	MP2B	Mx	.0191	.5
10	MP2B	X	-28.324	5.5
11	MP2B	Z	-16.353	5.5
12	MP2B	Mx	.0191	5.5
13	MP2C	X	-22.004	.5
14	MP2C	Z	-12.704	.5
15	MP2C	Mx	-.0184	.5
16	MP2C	X	-22.004	5.5
17	MP2C	Z	-12.704	5.5
18	MP2C	Mx	-.0184	5.5
19	MP2A	X	-22.004	.5
20	MP2A	Z	-12.704	.5
21	MP2A	Mx	.0184	.5
22	MP2A	X	-22.004	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	-12.704	5.5
24	MP2A	Mx	.0184	5.5
25	MP2B	X	-28.324	.5
26	MP2B	Z	-16.353	.5
27	MP2B	Mx	-.0191	.5
28	MP2B	X	-28.324	5.5
29	MP2B	Z	-16.353	5.5
30	MP2B	Mx	-.0191	5.5
31	MP2C	X	-22.004	.5
32	MP2C	Z	-12.704	.5
33	MP2C	Mx	-.0036	.5
34	MP2C	X	-22.004	5.5
35	MP2C	Z	-12.704	5.5
36	MP2C	Mx	-.0036	5.5
37	MP5A	X	-9.917	2
38	MP5A	Z	-5.726	2
39	MP5A	Mx	.005	2
40	MP5A	X	-9.917	4
41	MP5A	Z	-5.726	4
42	MP5A	Mx	.005	4
43	MP5B	X	-17.026	2
44	MP5B	Z	-9.83	2
45	MP5B	Mx	0	2
46	MP5B	X	-17.026	4
47	MP5B	Z	-9.83	4
48	MP5B	Mx	0	4
49	MP5C	X	-17.026	2
50	MP5C	Z	-9.83	2
51	MP5C	Mx	0	2
52	MP5C	X	-17.026	4
53	MP5C	Z	-9.83	4
54	MP5C	Mx	0	4
55	MP1A	X	-11.51	3
56	MP1A	Z	-6.645	3
57	MP1A	Mx	-.0058	3
58	MP1B	X	-14.73	3
59	MP1B	Z	-8.504	3
60	MP1B	Mx	0	3
61	MP1C	X	-11.51	3
62	MP1C	Z	-6.645	3
63	MP1C	Mx	.0058	3
64	MP2A	X	-10.93	3
65	MP2A	Z	-6.311	3
66	MP2A	Mx	-.0055	3
67	MP2B	X	-14.73	3
68	MP2B	Z	-8.504	3
69	MP2B	Mx	0	3
70	MP2C	X	-10.93	3
71	MP2C	Z	-6.311	3
72	MP2C	Mx	.0055	3
73	MP4A	X	-22.191	.5
74	MP4A	Z	-12.812	.5
75	MP4A	Mx	.0148	.5
76	MP4A	X	-22.191	5.5
77	MP4A	Z	-12.812	5.5
78	MP4A	Mx	.0148	5.5
79	MP4B	X	-29.797	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
80	MP4B	Z	-17.204	.5
81	MP4B	Mx	0	.5
82	MP4B	X	-29.797	5.5
83	MP4B	Z	-17.204	5.5
84	MP4B	Mx	0	5.5
85	MP4C	X	-22.191	.5
86	MP4C	Z	-12.812	.5
87	MP4C	Mx	-.0148	.5
88	MP4C	X	-22.191	5.5
89	MP4C	Z	-12.812	5.5
90	MP4C	Mx	-.0148	5.5
91	OVP	X	-27.824	1.5
92	OVP	Z	-16.064	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-3.416	5.25
95	MP2B	Z	-1.972	5.25
96	MP2B	Mx	.0013	5.25
97	MP2B	X	-3.416	5.25
98	MP2B	Z	-1.972	5.25
99	MP2B	Mx	-.0013	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-15.137	.5
2	MP2A	Z	-26.217	.5
3	MP2A	Mx	-.0077	.5
4	MP2A	X	-15.137	5.5
5	MP2A	Z	-26.217	5.5
6	MP2A	Mx	-.0077	5.5
7	MP2B	X	-15.137	.5
8	MP2B	Z	-26.217	.5
9	MP2B	Mx	.0229	.5
10	MP2B	X	-15.137	5.5
11	MP2B	Z	-26.217	5.5
12	MP2B	Mx	.0229	5.5
13	MP2C	X	-11.487	.5
14	MP2C	Z	-19.897	.5
15	MP2C	Mx	-.0115	.5
16	MP2C	X	-11.487	5.5
17	MP2C	Z	-19.897	5.5
18	MP2C	Mx	-.0115	5.5
19	MP2A	X	-15.137	.5
20	MP2A	Z	-26.217	.5
21	MP2A	Mx	.0229	.5
22	MP2A	X	-15.137	5.5
23	MP2A	Z	-26.217	5.5
24	MP2A	Mx	.0229	5.5
25	MP2B	X	-15.137	.5
26	MP2B	Z	-26.217	.5
27	MP2B	Mx	-.0077	.5
28	MP2B	X	-15.137	5.5
29	MP2B	Z	-26.217	5.5
30	MP2B	Mx	-.0077	5.5
31	MP2C	X	-11.487	.5
32	MP2C	Z	-19.897	.5
33	MP2C	Mx	-.0115	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2C	X	-11.487	5.5
35	MP2C	Z	-19.897	5.5
36	MP2C	Mx	-.0115	5.5
37	MP5A	X	-8.462	2
38	MP5A	Z	-14.656	2
39	MP5A	Mx	.0042	2
40	MP5A	X	-8.462	4
41	MP5A	Z	-14.656	4
42	MP5A	Mx	.0042	4
43	MP5B	X	-8.462	2
44	MP5B	Z	-14.656	2
45	MP5B	Mx	.0042	2
46	MP5B	X	-8.462	4
47	MP5B	Z	-14.656	4
48	MP5B	Mx	.0042	4
49	MP5C	X	-8.462	2
50	MP5C	Z	-14.656	2
51	MP5C	Mx	.0042	2
52	MP5C	X	-8.462	4
53	MP5C	Z	-14.656	4
54	MP5C	Mx	.0042	4
55	MP1A	X	-7.885	3
56	MP1A	Z	-13.656	3
57	MP1A	Mx	-.0039	3
58	MP1B	X	-7.885	3
59	MP1B	Z	-13.656	3
60	MP1B	Mx	-.0039	3
61	MP1C	X	-6.025	3
62	MP1C	Z	-10.436	3
63	MP1C	Mx	.006	3
64	MP2A	X	-7.773	3
65	MP2A	Z	-13.463	3
66	MP2A	Mx	-.0039	3
67	MP2B	X	-7.773	3
68	MP2B	Z	-13.463	3
69	MP2B	Mx	-.0039	3
70	MP2C	X	-5.579	3
71	MP2C	Z	-9.664	3
72	MP2C	Mx	.0056	3
73	MP4A	X	-15.74	.5
74	MP4A	Z	-27.262	.5
75	MP4A	Mx	.0105	.5
76	MP4A	X	-15.74	5.5
77	MP4A	Z	-27.262	5.5
78	MP4A	Mx	.0105	5.5
79	MP4B	X	-15.74	.5
80	MP4B	Z	-27.262	.5
81	MP4B	Mx	.0105	.5
82	MP4B	X	-15.74	5.5
83	MP4B	Z	-27.262	5.5
84	MP4B	Mx	.0105	5.5
85	MP4C	X	-11.348	.5
86	MP4C	Z	-19.656	.5
87	MP4C	Mx	-.0151	.5
88	MP4C	X	-11.348	5.5
89	MP4C	Z	-19.656	5.5
90	MP4C	Mx	-.0151	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
91	OVP	X	-16.954	1.5
92	OVP	Z	-29.365	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-2.674	5.25
95	MP2B	Z	-4.632	5.25
96	MP2B	Mx	-.0011	5.25
97	MP2B	X	-2.674	5.25
98	MP2B	Z	-4.632	5.25
99	MP2B	Mx	-.0042	5.25

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	-6.846	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	0	5.5
5	MP2A	Z	-6.846	5.5
6	MP2A	Mx	-.004	5.5
7	MP2B	X	0	.5
8	MP2B	Z	-3.915	.5
9	MP2B	Mx	.0028	.5
10	MP2B	X	0	5.5
11	MP2B	Z	-3.915	5.5
12	MP2B	Mx	.0028	5.5
13	MP2C	X	0	.5
14	MP2C	Z	-3.915	.5
15	MP2C	Mx	-.000553	.5
16	MP2C	X	0	5.5
17	MP2C	Z	-3.915	5.5
18	MP2C	Mx	-.000553	5.5
19	MP2A	X	0	.5
20	MP2A	Z	-6.846	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	0	5.5
23	MP2A	Z	-6.846	5.5
24	MP2A	Mx	.004	5.5
25	MP2B	X	0	.5
26	MP2B	Z	-3.915	.5
27	MP2B	Mx	.000553	.5
28	MP2B	X	0	5.5
29	MP2B	Z	-3.915	5.5
30	MP2B	Mx	.000553	5.5
31	MP2C	X	0	.5
32	MP2C	Z	-3.915	.5
33	MP2C	Mx	-.0028	.5
34	MP2C	X	0	5.5
35	MP2C	Z	-3.915	5.5
36	MP2C	Mx	-.0028	5.5
37	MP5A	X	0	2
38	MP5A	Z	-4.942	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	-4.942	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	-2.512	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP5B	Mx	.0011	2
46	MP5B	X	0	4
47	MP5B	Z	-2.512	4
48	MP5B	Mx	.0011	4
49	MP5C	X	0	2
50	MP5C	Z	-2.512	2
51	MP5C	Mx	.0011	2
52	MP5C	X	0	4
53	MP5C	Z	-2.512	4
54	MP5C	Mx	.0011	4
55	MP1A	X	0	3
56	MP1A	Z	-3.908	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-2.944	3
60	MP1B	Mx	-.0013	3
61	MP1C	X	0	3
62	MP1C	Z	-2.944	3
63	MP1C	Mx	.0013	3
64	MP2A	X	0	3
65	MP2A	Z	-3.908	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-2.755	3
69	MP2B	Mx	-.0012	3
70	MP2C	X	0	3
71	MP2C	Z	-2.755	3
72	MP2C	Mx	.0012	3
73	MP4A	X	0	.5
74	MP4A	Z	-10.779	.5
75	MP4A	Mx	0	.5
76	MP4A	X	0	5.5
77	MP4A	Z	-10.779	5.5
78	MP4A	Mx	0	5.5
79	MP4B	X	0	.5
80	MP4B	Z	-7.652	.5
81	MP4B	Mx	.0044	.5
82	MP4B	X	0	5.5
83	MP4B	Z	-7.652	5.5
84	MP4B	Mx	.0044	5.5
85	MP4C	X	0	.5
86	MP4C	Z	-7.652	.5
87	MP4C	Mx	-.0044	.5
88	MP4C	X	0	5.5
89	MP4C	Z	-7.652	5.5
90	MP4C	Mx	-.0044	5.5
91	OVP	X	0	1.5
92	OVP	Z	-7.466	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	0	5.25
95	MP2B	Z	-2.411	5.25
96	MP2B	Mx	-.0017	5.25
97	MP2B	X	0	5.25
98	MP2B	Z	-2.411	5.25
99	MP2B	Mx	-.0025	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	2.934	.5
2	MP2A	Z	-5.082	.5
3	MP2A	Mx	-.0044	.5
4	MP2A	X	2.934	5.5
5	MP2A	Z	-5.082	5.5
6	MP2A	Mx	-.0044	5.5
7	MP2B	X	1.469	.5
8	MP2B	Z	-2.544	.5
9	MP2B	Mx	.0015	.5
10	MP2B	X	1.469	5.5
11	MP2B	Z	-2.544	5.5
12	MP2B	Mx	.0015	5.5
13	MP2C	X	2.934	.5
14	MP2C	Z	-5.082	.5
15	MP2C	Mx	.0015	.5
16	MP2C	X	2.934	5.5
17	MP2C	Z	-5.082	5.5
18	MP2C	Mx	.0015	5.5
19	MP2A	X	2.934	.5
20	MP2A	Z	-5.082	.5
21	MP2A	Mx	.0015	.5
22	MP2A	X	2.934	5.5
23	MP2A	Z	-5.082	5.5
24	MP2A	Mx	.0015	5.5
25	MP2B	X	1.469	.5
26	MP2B	Z	-2.544	.5
27	MP2B	Mx	.0015	.5
28	MP2B	X	1.469	5.5
29	MP2B	Z	-2.544	5.5
30	MP2B	Mx	.0015	5.5
31	MP2C	X	2.934	.5
32	MP2C	Z	-5.082	.5
33	MP2C	Mx	-.0044	.5
34	MP2C	X	2.934	5.5
35	MP2C	Z	-5.082	5.5
36	MP2C	Mx	-.0044	5.5
37	MP5A	X	2.066	2
38	MP5A	Z	-3.578	2
39	MP5A	Mx	-.001	2
40	MP5A	X	2.066	4
41	MP5A	Z	-3.578	4
42	MP5A	Mx	-.001	4
43	MP5B	X	.851	2
44	MP5B	Z	-1.474	2
45	MP5B	Mx	.000851	2
46	MP5B	X	.851	4
47	MP5B	Z	-1.474	4
48	MP5B	Mx	.000851	4
49	MP5C	X	.851	2
50	MP5C	Z	-1.474	2
51	MP5C	Mx	.000851	2
52	MP5C	X	.851	4
53	MP5C	Z	-1.474	4
54	MP5C	Mx	.000851	4
55	MP1A	X	1.793	3
56	MP1A	Z	-3.106	3
57	MP1A	Mx	.000896	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1B	X	1.311	3
59	MP1B	Z	-2.271	3
60	MP1B	Mx	-.0013	3
61	MP1C	X	1.793	3
62	MP1C	Z	-3.106	3
63	MP1C	Mx	.000897	3
64	MP2A	X	1.762	3
65	MP2A	Z	-3.052	3
66	MP2A	Mx	.000881	3
67	MP2B	X	1.185	3
68	MP2B	Z	-2.053	3
69	MP2B	Mx	-.0012	3
70	MP2C	X	1.762	3
71	MP2C	Z	-3.052	3
72	MP2C	Mx	.000881	3
73	MP4A	X	4.868	.5
74	MP4A	Z	-8.432	.5
75	MP4A	Mx	-.0032	.5
76	MP4A	X	4.868	5.5
77	MP4A	Z	-8.432	5.5
78	MP4A	Mx	-.0032	5.5
79	MP4B	X	3.305	.5
80	MP4B	Z	-5.724	.5
81	MP4B	Mx	.0044	.5
82	MP4B	X	3.305	5.5
83	MP4B	Z	-5.724	5.5
84	MP4B	Mx	.0044	5.5
85	MP4C	X	4.868	.5
86	MP4C	Z	-8.432	.5
87	MP4C	Mx	-.0032	.5
88	MP4C	X	4.868	5.5
89	MP4C	Z	-8.432	5.5
90	MP4C	Mx	-.0032	5.5
91	OVP	X	3.257	1.5
92	OVP	Z	-5.642	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	1.206	5.25
95	MP2B	Z	-2.089	5.25
96	MP2B	Mx	-.0024	5.25
97	MP2B	X	1.206	5.25
98	MP2B	Z	-2.089	5.25
99	MP2B	Mx	-.0024	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	3.39	.5
2	MP2A	Z	-1.957	.5
3	MP2A	Mx	-.0028	.5
4	MP2A	X	3.39	5.5
5	MP2A	Z	-1.957	5.5
6	MP2A	Mx	-.0028	5.5
7	MP2B	X	3.39	.5
8	MP2B	Z	-1.957	.5
9	MP2B	Mx	.000553	.5
10	MP2B	X	3.39	5.5
11	MP2B	Z	-1.957	5.5



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP2B	Mx	.000553	5.5
13	MP2C	X	5.929	.5
14	MP2C	Z	-3.423	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	5.929	5.5
17	MP2C	Z	-3.423	5.5
18	MP2C	Mx	.004	5.5
19	MP2A	X	3.39	.5
20	MP2A	Z	-1.957	.5
21	MP2A	Mx	-.000553	.5
22	MP2A	X	3.39	5.5
23	MP2A	Z	-1.957	5.5
24	MP2A	Mx	-.000553	5.5
25	MP2B	X	3.39	.5
26	MP2B	Z	-1.957	.5
27	MP2B	Mx	.0028	.5
28	MP2B	X	3.39	5.5
29	MP2B	Z	-1.957	5.5
30	MP2B	Mx	.0028	5.5
31	MP2C	X	5.929	.5
32	MP2C	Z	-3.423	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	5.929	5.5
35	MP2C	Z	-3.423	5.5
36	MP2C	Mx	-.004	5.5
37	MP5A	X	2.175	2
38	MP5A	Z	-1.256	2
39	MP5A	Mx	-.0011	2
40	MP5A	X	2.175	4
41	MP5A	Z	-1.256	4
42	MP5A	Mx	-.0011	4
43	MP5B	X	2.175	2
44	MP5B	Z	-1.256	2
45	MP5B	Mx	.0011	2
46	MP5B	X	2.175	4
47	MP5B	Z	-1.256	4
48	MP5B	Mx	.0011	4
49	MP5C	X	2.175	2
50	MP5C	Z	-1.256	2
51	MP5C	Mx	.0011	2
52	MP5C	X	2.175	4
53	MP5C	Z	-1.256	4
54	MP5C	Mx	.0011	4
55	MP1A	X	2.549	3
56	MP1A	Z	-1.472	3
57	MP1A	Mx	.0013	3
58	MP1B	X	2.549	3
59	MP1B	Z	-1.472	3
60	MP1B	Mx	-.0013	3
61	MP1C	X	3.385	3
62	MP1C	Z	-1.954	3
63	MP1C	Mx	0	3
64	MP2A	X	2.386	3
65	MP2A	Z	-1.377	3
66	MP2A	Mx	.0012	3
67	MP2B	X	2.386	3
68	MP2B	Z	-1.377	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP2B	Mx	-0.012	3
70	MP2C	X	3.385	3
71	MP2C	Z	-1.954	3
72	MP2C	Mx	0	3
73	MP4A	X	6.627	.5
74	MP4A	Z	-3.826	.5
75	MP4A	Mx	-0.044	.5
76	MP4A	X	6.627	5.5
77	MP4A	Z	-3.826	5.5
78	MP4A	Mx	-0.044	5.5
79	MP4B	X	6.627	.5
80	MP4B	Z	-3.826	.5
81	MP4B	Mx	.0044	.5
82	MP4B	X	6.627	5.5
83	MP4B	Z	-3.826	5.5
84	MP4B	Mx	.0044	5.5
85	MP4C	X	9.335	.5
86	MP4C	Z	-5.39	.5
87	MP4C	Mx	0	.5
88	MP4C	X	9.335	5.5
89	MP4C	Z	-5.39	5.5
90	MP4C	Mx	0	5.5
91	OVP	X	5.229	1.5
92	OVP	Z	-3.019	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	2.088	5.25
95	MP2B	Z	-1.205	5.25
96	MP2B	Mx	-0.025	5.25
97	MP2B	X	2.088	5.25
98	MP2B	Z	-1.205	5.25
99	MP2B	Mx	-0.017	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.937	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-0.015	.5
4	MP2A	X	2.937	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-0.015	5.5
7	MP2B	X	5.869	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-0.015	.5
10	MP2B	X	5.869	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-0.015	5.5
13	MP2C	X	5.869	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.0044	.5
16	MP2C	X	5.869	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.0044	5.5
19	MP2A	X	2.937	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-0.015	.5
22	MP2A	X	2.937	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.0015	5.5
25	MP2B	X	5.869	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.0044	.5
28	MP2B	X	5.869	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.0044	5.5
31	MP2C	X	5.869	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.0015	.5
34	MP2C	X	5.869	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.0015	5.5
37	MP5A	X	1.702	2
38	MP5A	Z	0	2
39	MP5A	Mx	-.000851	2
40	MP5A	X	1.702	4
41	MP5A	Z	0	4
42	MP5A	Mx	-.000851	4
43	MP5B	X	4.132	2
44	MP5B	Z	0	2
45	MP5B	Mx	.001	2
46	MP5B	X	4.132	4
47	MP5B	Z	0	4
48	MP5B	Mx	.001	4
49	MP5C	X	4.132	2
50	MP5C	Z	0	2
51	MP5C	Mx	.001	2
52	MP5C	X	4.132	4
53	MP5C	Z	0	4
54	MP5C	Mx	.001	4
55	MP1A	X	2.622	3
56	MP1A	Z	0	3
57	MP1A	Mx	.0013	3
58	MP1B	X	3.587	3
59	MP1B	Z	0	3
60	MP1B	Mx	-.000897	3
61	MP1C	X	3.587	3
62	MP1C	Z	0	3
63	MP1C	Mx	-.000897	3
64	MP2A	X	2.37	3
65	MP2A	Z	0	3
66	MP2A	Mx	.0012	3
67	MP2B	X	3.524	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.000881	3
70	MP2C	X	3.524	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.000881	3
73	MP4A	X	6.61	.5
74	MP4A	Z	0	.5
75	MP4A	Mx	-.0044	.5
76	MP4A	X	6.61	5.5
77	MP4A	Z	0	5.5
78	MP4A	Mx	-.0044	5.5
79	MP4B	X	9.737	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP4B	Z	0	.5
81	MP4B	Mx	.0032	.5
82	MP4B	X	9.737	5.5
83	MP4B	Z	0	5.5
84	MP4B	Mx	.0032	5.5
85	MP4C	X	9.737	.5
86	MP4C	Z	0	.5
87	MP4C	Mx	.0032	.5
88	MP4C	X	9.737	5.5
89	MP4C	Z	0	5.5
90	MP4C	Mx	.0032	5.5
91	OVP	X	6.514	1.5
92	OVP	Z	0	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	2.407	5.25
95	MP2B	Z	0	5.25
96	MP2B	Mx	-.0019	5.25
97	MP2B	X	2.407	5.25
98	MP2B	Z	0	5.25
99	MP2B	Mx	-.000509	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	3.39	.5
2	MP2A	Z	1.957	.5
3	MP2A	Mx	-.000553	.5
4	MP2A	X	3.39	5.5
5	MP2A	Z	1.957	5.5
6	MP2A	Mx	-.000553	5.5
7	MP2B	X	5.929	.5
8	MP2B	Z	3.423	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	5.929	5.5
11	MP2B	Z	3.423	5.5
12	MP2B	Mx	-.004	5.5
13	MP2C	X	3.39	.5
14	MP2C	Z	1.957	.5
15	MP2C	Mx	.0028	.5
16	MP2C	X	3.39	5.5
17	MP2C	Z	1.957	5.5
18	MP2C	Mx	.0028	5.5
19	MP2A	X	3.39	.5
20	MP2A	Z	1.957	.5
21	MP2A	Mx	-.0028	.5
22	MP2A	X	3.39	5.5
23	MP2A	Z	1.957	5.5
24	MP2A	Mx	-.0028	5.5
25	MP2B	X	5.929	.5
26	MP2B	Z	3.423	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	5.929	5.5
29	MP2B	Z	3.423	5.5
30	MP2B	Mx	.004	5.5
31	MP2C	X	3.39	.5
32	MP2C	Z	1.957	.5
33	MP2C	Mx	.000553	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2C	X	3.39	5.5
35	MP2C	Z	1.957	5.5
36	MP2C	Mx	.000553	5.5
37	MP5A	X	2.175	2
38	MP5A	Z	1.256	2
39	MP5A	Mx	-.0011	2
40	MP5A	X	2.175	4
41	MP5A	Z	1.256	4
42	MP5A	Mx	-.0011	4
43	MP5B	X	4.28	2
44	MP5B	Z	2.471	2
45	MP5B	Mx	0	2
46	MP5B	X	4.28	4
47	MP5B	Z	2.471	4
48	MP5B	Mx	0	4
49	MP5C	X	4.28	2
50	MP5C	Z	2.471	2
51	MP5C	Mx	0	2
52	MP5C	X	4.28	4
53	MP5C	Z	2.471	4
54	MP5C	Mx	0	4
55	MP1A	X	2.549	3
56	MP1A	Z	1.472	3
57	MP1A	Mx	.0013	3
58	MP1B	X	3.385	3
59	MP1B	Z	1.954	3
60	MP1B	Mx	0	3
61	MP1C	X	2.549	3
62	MP1C	Z	1.472	3
63	MP1C	Mx	-.0013	3
64	MP2A	X	2.386	3
65	MP2A	Z	1.377	3
66	MP2A	Mx	.0012	3
67	MP2B	X	3.385	3
68	MP2B	Z	1.954	3
69	MP2B	Mx	0	3
70	MP2C	X	2.386	3
71	MP2C	Z	1.377	3
72	MP2C	Mx	-.0012	3
73	MP4A	X	6.627	.5
74	MP4A	Z	3.826	.5
75	MP4A	Mx	-.0044	.5
76	MP4A	X	6.627	5.5
77	MP4A	Z	3.826	5.5
78	MP4A	Mx	-.0044	5.5
79	MP4B	X	9.335	.5
80	MP4B	Z	5.39	.5
81	MP4B	Mx	0	.5
82	MP4B	X	9.335	5.5
83	MP4B	Z	5.39	5.5
84	MP4B	Mx	0	5.5
85	MP4C	X	6.627	.5
86	MP4C	Z	3.826	.5
87	MP4C	Mx	.0044	.5
88	MP4C	X	6.627	5.5
89	MP4C	Z	3.826	5.5
90	MP4C	Mx	.0044	5.5



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
91	OVP	X	6.466	1.5
92	OVP	Z	3.733	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	2.083	5.25
95	MP2B	Z	1.203	5.25
96	MP2B	Mx	-.000801	5.25
97	MP2B	X	2.083	5.25
98	MP2B	Z	1.203	5.25
99	MP2B	Mx	.000802	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	2.934	.5
2	MP2A	Z	5.082	.5
3	MP2A	Mx	.0015	.5
4	MP2A	X	2.934	5.5
5	MP2A	Z	5.082	5.5
6	MP2A	Mx	.0015	5.5
7	MP2B	X	2.934	.5
8	MP2B	Z	5.082	.5
9	MP2B	Mx	-.0044	.5
10	MP2B	X	2.934	5.5
11	MP2B	Z	5.082	5.5
12	MP2B	Mx	-.0044	5.5
13	MP2C	X	1.469	.5
14	MP2C	Z	2.544	.5
15	MP2C	Mx	.0015	.5
16	MP2C	X	1.469	5.5
17	MP2C	Z	2.544	5.5
18	MP2C	Mx	.0015	5.5
19	MP2A	X	2.934	.5
20	MP2A	Z	5.082	.5
21	MP2A	Mx	-.0044	.5
22	MP2A	X	2.934	5.5
23	MP2A	Z	5.082	5.5
24	MP2A	Mx	-.0044	5.5
25	MP2B	X	2.934	.5
26	MP2B	Z	5.082	.5
27	MP2B	Mx	.0015	.5
28	MP2B	X	2.934	5.5
29	MP2B	Z	5.082	5.5
30	MP2B	Mx	.0015	5.5
31	MP2C	X	1.469	.5
32	MP2C	Z	2.544	.5
33	MP2C	Mx	.0015	.5
34	MP2C	X	1.469	5.5
35	MP2C	Z	2.544	5.5
36	MP2C	Mx	.0015	5.5
37	MP5A	X	2.066	2
38	MP5A	Z	3.578	2
39	MP5A	Mx	-.001	2
40	MP5A	X	2.066	4
41	MP5A	Z	3.578	4
42	MP5A	Mx	-.001	4
43	MP5B	X	2.066	2
44	MP5B	Z	3.578	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP5B	Mx	-.001	2
46	MP5B	X	2.066	4
47	MP5B	Z	3.578	4
48	MP5B	Mx	-.001	4
49	MP5C	X	2.066	2
50	MP5C	Z	3.578	2
51	MP5C	Mx	-.001	2
52	MP5C	X	2.066	4
53	MP5C	Z	3.578	4
54	MP5C	Mx	-.001	4
55	MP1A	X	1.793	3
56	MP1A	Z	3.106	3
57	MP1A	Mx	.000896	3
58	MP1B	X	1.793	3
59	MP1B	Z	3.106	3
60	MP1B	Mx	.000897	3
61	MP1C	X	1.311	3
62	MP1C	Z	2.271	3
63	MP1C	Mx	-.0013	3
64	MP2A	X	1.762	3
65	MP2A	Z	3.052	3
66	MP2A	Mx	.000881	3
67	MP2B	X	1.762	3
68	MP2B	Z	3.052	3
69	MP2B	Mx	.000881	3
70	MP2C	X	1.185	3
71	MP2C	Z	2.053	3
72	MP2C	Mx	-.0012	3
73	MP4A	X	4.868	.5
74	MP4A	Z	8.432	.5
75	MP4A	Mx	-.0032	.5
76	MP4A	X	4.868	5.5
77	MP4A	Z	8.432	5.5
78	MP4A	Mx	-.0032	5.5
79	MP4B	X	4.868	.5
80	MP4B	Z	8.432	.5
81	MP4B	Mx	-.0032	.5
82	MP4B	X	4.868	5.5
83	MP4B	Z	8.432	5.5
84	MP4B	Mx	-.0032	5.5
85	MP4C	X	3.305	.5
86	MP4C	Z	5.724	.5
87	MP4C	Mx	.0044	.5
88	MP4C	X	3.305	5.5
89	MP4C	Z	5.724	5.5
90	MP4C	Mx	.0044	5.5
91	OVP	X	3.971	1.5
92	OVP	Z	6.878	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	1.204	5.25
95	MP2B	Z	2.085	5.25
96	MP2B	Mx	.000509	5.25
97	MP2B	X	1.204	5.25
98	MP2B	Z	2.085	5.25
99	MP2B	Mx	.0019	5.25



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	6.846	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	0	5.5
5	MP2A	Z	6.846	5.5
6	MP2A	Mx	.004	5.5
7	MP2B	X	0	.5
8	MP2B	Z	3.915	.5
9	MP2B	Mx	-.0028	.5
10	MP2B	X	0	5.5
11	MP2B	Z	3.915	5.5
12	MP2B	Mx	-.0028	5.5
13	MP2C	X	0	.5
14	MP2C	Z	3.915	.5
15	MP2C	Mx	.000553	.5
16	MP2C	X	0	5.5
17	MP2C	Z	3.915	5.5
18	MP2C	Mx	.000553	5.5
19	MP2A	X	0	.5
20	MP2A	Z	6.846	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	0	5.5
23	MP2A	Z	6.846	5.5
24	MP2A	Mx	-.004	5.5
25	MP2B	X	0	.5
26	MP2B	Z	3.915	.5
27	MP2B	Mx	-.000553	.5
28	MP2B	X	0	5.5
29	MP2B	Z	3.915	5.5
30	MP2B	Mx	-.000553	5.5
31	MP2C	X	0	.5
32	MP2C	Z	3.915	.5
33	MP2C	Mx	.0028	.5
34	MP2C	X	0	5.5
35	MP2C	Z	3.915	5.5
36	MP2C	Mx	.0028	5.5
37	MP5A	X	0	2
38	MP5A	Z	4.942	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	4.942	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	2.512	2
45	MP5B	Mx	-.0011	2
46	MP5B	X	0	4
47	MP5B	Z	2.512	4
48	MP5B	Mx	-.0011	4
49	MP5C	X	0	2
50	MP5C	Z	2.512	2
51	MP5C	Mx	-.0011	2
52	MP5C	X	0	4
53	MP5C	Z	2.512	4
54	MP5C	Mx	-.0011	4
55	MP1A	X	0	3
56	MP1A	Z	3.908	3
57	MP1A	Mx	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1B	X	0	3
59	MP1B	Z	2.944	3
60	MP1B	Mx	.0013	3
61	MP1C	X	0	3
62	MP1C	Z	2.944	3
63	MP1C	Mx	-.0013	3
64	MP2A	X	0	3
65	MP2A	Z	3.908	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	2.755	3
69	MP2B	Mx	.0012	3
70	MP2C	X	0	3
71	MP2C	Z	2.755	3
72	MP2C	Mx	-.0012	3
73	MP4A	X	0	.5
74	MP4A	Z	10.779	.5
75	MP4A	Mx	0	.5
76	MP4A	X	0	5.5
77	MP4A	Z	10.779	5.5
78	MP4A	Mx	0	5.5
79	MP4B	X	0	.5
80	MP4B	Z	7.652	.5
81	MP4B	Mx	-.0044	.5
82	MP4B	X	0	5.5
83	MP4B	Z	7.652	5.5
84	MP4B	Mx	-.0044	5.5
85	MP4C	X	0	.5
86	MP4C	Z	7.652	.5
87	MP4C	Mx	.0044	.5
88	MP4C	X	0	5.5
89	MP4C	Z	7.652	5.5
90	MP4C	Mx	.0044	5.5
91	OVP	X	0	1.5
92	OVP	Z	7.466	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	0	5.25
95	MP2B	Z	2.411	5.25
96	MP2B	Mx	.0017	5.25
97	MP2B	X	0	5.25
98	MP2B	Z	2.411	5.25
99	MP2B	Mx	.0025	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.934	.5
2	MP2A	Z	5.082	.5
3	MP2A	Mx	.0044	.5
4	MP2A	X	-2.934	5.5
5	MP2A	Z	5.082	5.5
6	MP2A	Mx	.0044	5.5
7	MP2B	X	-1.469	.5
8	MP2B	Z	2.544	.5
9	MP2B	Mx	-.0015	.5
10	MP2B	X	-1.469	5.5
11	MP2B	Z	2.544	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP2B	Mx	-0.015	5.5
13	MP2C	X	-2.934	.5
14	MP2C	Z	5.082	.5
15	MP2C	Mx	-0.015	.5
16	MP2C	X	-2.934	5.5
17	MP2C	Z	5.082	5.5
18	MP2C	Mx	-0.015	5.5
19	MP2A	X	-2.934	.5
20	MP2A	Z	5.082	.5
21	MP2A	Mx	-0.015	.5
22	MP2A	X	-2.934	5.5
23	MP2A	Z	5.082	5.5
24	MP2A	Mx	-0.015	5.5
25	MP2B	X	-1.469	.5
26	MP2B	Z	2.544	.5
27	MP2B	Mx	-0.015	.5
28	MP2B	X	-1.469	5.5
29	MP2B	Z	2.544	5.5
30	MP2B	Mx	-0.015	5.5
31	MP2C	X	-2.934	.5
32	MP2C	Z	5.082	.5
33	MP2C	Mx	.0044	.5
34	MP2C	X	-2.934	5.5
35	MP2C	Z	5.082	5.5
36	MP2C	Mx	.0044	5.5
37	MP5A	X	-2.066	2
38	MP5A	Z	3.578	2
39	MP5A	Mx	.001	2
40	MP5A	X	-2.066	4
41	MP5A	Z	3.578	4
42	MP5A	Mx	.001	4
43	MP5B	X	-.851	2
44	MP5B	Z	1.474	2
45	MP5B	Mx	-.000851	2
46	MP5B	X	-.851	4
47	MP5B	Z	1.474	4
48	MP5B	Mx	-.000851	4
49	MP5C	X	-.851	2
50	MP5C	Z	1.474	2
51	MP5C	Mx	-.000851	2
52	MP5C	X	-.851	4
53	MP5C	Z	1.474	4
54	MP5C	Mx	-.000851	4
55	MP1A	X	-1.793	3
56	MP1A	Z	3.106	3
57	MP1A	Mx	-.000896	3
58	MP1B	X	-1.311	3
59	MP1B	Z	2.271	3
60	MP1B	Mx	.0013	3
61	MP1C	X	-1.793	3
62	MP1C	Z	3.106	3
63	MP1C	Mx	-.000897	3
64	MP2A	X	-1.762	3
65	MP2A	Z	3.052	3
66	MP2A	Mx	-.000881	3
67	MP2B	X	-1.185	3
68	MP2B	Z	2.053	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP2B	Mx	.0012	3
70	MP2C	X	-1.762	3
71	MP2C	Z	3.052	3
72	MP2C	Mx	-.000881	3
73	MP4A	X	-4.868	.5
74	MP4A	Z	8.432	.5
75	MP4A	Mx	.0032	.5
76	MP4A	X	-4.868	5.5
77	MP4A	Z	8.432	5.5
78	MP4A	Mx	.0032	5.5
79	MP4B	X	-3.305	.5
80	MP4B	Z	5.724	.5
81	MP4B	Mx	-.0044	.5
82	MP4B	X	-3.305	5.5
83	MP4B	Z	5.724	5.5
84	MP4B	Mx	-.0044	5.5
85	MP4C	X	-4.868	.5
86	MP4C	Z	8.432	.5
87	MP4C	Mx	.0032	.5
88	MP4C	X	-4.868	5.5
89	MP4C	Z	8.432	5.5
90	MP4C	Mx	.0032	5.5
91	OVP	X	-3.257	1.5
92	OVP	Z	5.642	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-1.206	5.25
95	MP2B	Z	2.089	5.25
96	MP2B	Mx	.0024	5.25
97	MP2B	X	-1.206	5.25
98	MP2B	Z	2.089	5.25
99	MP2B	Mx	.0024	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-3.39	.5
2	MP2A	Z	1.957	.5
3	MP2A	Mx	.0028	.5
4	MP2A	X	-3.39	5.5
5	MP2A	Z	1.957	5.5
6	MP2A	Mx	.0028	5.5
7	MP2B	X	-3.39	.5
8	MP2B	Z	1.957	.5
9	MP2B	Mx	-.000553	.5
10	MP2B	X	-3.39	5.5
11	MP2B	Z	1.957	5.5
12	MP2B	Mx	-.000553	5.5
13	MP2C	X	-5.929	.5
14	MP2C	Z	3.423	.5
15	MP2C	Mx	-.004	.5
16	MP2C	X	-5.929	5.5
17	MP2C	Z	3.423	5.5
18	MP2C	Mx	-.004	5.5
19	MP2A	X	-3.39	.5
20	MP2A	Z	1.957	.5
21	MP2A	Mx	.000553	.5
22	MP2A	X	-3.39	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	1.957	5.5
24	MP2A	Mx	.000553	5.5
25	MP2B	X	-3.39	.5
26	MP2B	Z	1.957	.5
27	MP2B	Mx	-.0028	.5
28	MP2B	X	-3.39	5.5
29	MP2B	Z	1.957	5.5
30	MP2B	Mx	-.0028	5.5
31	MP2C	X	-5.929	.5
32	MP2C	Z	3.423	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	-5.929	5.5
35	MP2C	Z	3.423	5.5
36	MP2C	Mx	.004	5.5
37	MP5A	X	-2.175	2
38	MP5A	Z	1.256	2
39	MP5A	Mx	.0011	2
40	MP5A	X	-2.175	4
41	MP5A	Z	1.256	4
42	MP5A	Mx	.0011	4
43	MP5B	X	-2.175	2
44	MP5B	Z	1.256	2
45	MP5B	Mx	-.0011	2
46	MP5B	X	-2.175	4
47	MP5B	Z	1.256	4
48	MP5B	Mx	-.0011	4
49	MP5C	X	-2.175	2
50	MP5C	Z	1.256	2
51	MP5C	Mx	-.0011	2
52	MP5C	X	-2.175	4
53	MP5C	Z	1.256	4
54	MP5C	Mx	-.0011	4
55	MP1A	X	-2.549	3
56	MP1A	Z	1.472	3
57	MP1A	Mx	-.0013	3
58	MP1B	X	-2.549	3
59	MP1B	Z	1.472	3
60	MP1B	Mx	.0013	3
61	MP1C	X	-3.385	3
62	MP1C	Z	1.954	3
63	MP1C	Mx	0	3
64	MP2A	X	-2.386	3
65	MP2A	Z	1.377	3
66	MP2A	Mx	-.0012	3
67	MP2B	X	-2.386	3
68	MP2B	Z	1.377	3
69	MP2B	Mx	.0012	3
70	MP2C	X	-3.385	3
71	MP2C	Z	1.954	3
72	MP2C	Mx	0	3
73	MP4A	X	-6.627	.5
74	MP4A	Z	3.826	.5
75	MP4A	Mx	.0044	.5
76	MP4A	X	-6.627	5.5
77	MP4A	Z	3.826	5.5
78	MP4A	Mx	.0044	5.5
79	MP4B	X	-6.627	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP4B	Z	3.826	.5
81	MP4B	Mx	-.0044	.5
82	MP4B	X	-6.627	5.5
83	MP4B	Z	3.826	5.5
84	MP4B	Mx	-.0044	5.5
85	MP4C	X	-9.335	.5
86	MP4C	Z	5.39	.5
87	MP4C	Mx	0	.5
88	MP4C	X	-9.335	5.5
89	MP4C	Z	5.39	5.5
90	MP4C	Mx	0	5.5
91	OVP	X	-5.229	1.5
92	OVP	Z	3.019	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-2.088	5.25
95	MP2B	Z	1.205	5.25
96	MP2B	Mx	.0025	5.25
97	MP2B	X	-2.088	5.25
98	MP2B	Z	1.205	5.25
99	MP2B	Mx	.0017	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.937	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.0015	.5
4	MP2A	X	-2.937	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.0015	5.5
7	MP2B	X	-5.869	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.0015	.5
10	MP2B	X	-5.869	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.0015	5.5
13	MP2C	X	-5.869	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.0044	.5
16	MP2C	X	-5.869	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.0044	5.5
19	MP2A	X	-2.937	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.0015	.5
22	MP2A	X	-2.937	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.0015	5.5
25	MP2B	X	-5.869	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.0044	.5
28	MP2B	X	-5.869	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.0044	5.5
31	MP2C	X	-5.869	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.0015	.5



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
34	MP2C	X	-5.869	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.0015	5.5
37	MP5A	X	-1.702	2
38	MP5A	Z	0	2
39	MP5A	Mx	.000851	2
40	MP5A	X	-1.702	4
41	MP5A	Z	0	4
42	MP5A	Mx	.000851	4
43	MP5B	X	-4.132	2
44	MP5B	Z	0	2
45	MP5B	Mx	-.001	2
46	MP5B	X	-4.132	4
47	MP5B	Z	0	4
48	MP5B	Mx	-.001	4
49	MP5C	X	-4.132	2
50	MP5C	Z	0	2
51	MP5C	Mx	-.001	2
52	MP5C	X	-4.132	4
53	MP5C	Z	0	4
54	MP5C	Mx	-.001	4
55	MP1A	X	-2.622	3
56	MP1A	Z	0	3
57	MP1A	Mx	-.0013	3
58	MP1B	X	-3.587	3
59	MP1B	Z	0	3
60	MP1B	Mx	.000897	3
61	MP1C	X	-3.587	3
62	MP1C	Z	0	3
63	MP1C	Mx	.000897	3
64	MP2A	X	-2.37	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.0012	3
67	MP2B	X	-3.524	3
68	MP2B	Z	0	3
69	MP2B	Mx	.000881	3
70	MP2C	X	-3.524	3
71	MP2C	Z	0	3
72	MP2C	Mx	.000881	3
73	MP4A	X	-6.61	.5
74	MP4A	Z	0	.5
75	MP4A	Mx	.0044	.5
76	MP4A	X	-6.61	5.5
77	MP4A	Z	0	5.5
78	MP4A	Mx	.0044	5.5
79	MP4B	X	-9.737	.5
80	MP4B	Z	0	.5
81	MP4B	Mx	-.0032	.5
82	MP4B	X	-9.737	5.5
83	MP4B	Z	0	5.5
84	MP4B	Mx	-.0032	5.5
85	MP4C	X	-9.737	.5
86	MP4C	Z	0	.5
87	MP4C	Mx	-.0032	.5
88	MP4C	X	-9.737	5.5
89	MP4C	Z	0	5.5
90	MP4C	Mx	-.0032	5.5



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
91	OVP	X	-6.514	1.5
92	OVP	Z	0	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-2.407	5.25
95	MP2B	Z	0	5.25
96	MP2B	Mx	.0019	5.25
97	MP2B	X	-2.407	5.25
98	MP2B	Z	0	5.25
99	MP2B	Mx	.000509	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-3.39	.5
2	MP2A	Z	-1.957	.5
3	MP2A	Mx	.000553	.5
4	MP2A	X	-3.39	5.5
5	MP2A	Z	-1.957	5.5
6	MP2A	Mx	.000553	5.5
7	MP2B	X	-5.929	.5
8	MP2B	Z	-3.423	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	-5.929	5.5
11	MP2B	Z	-3.423	5.5
12	MP2B	Mx	.004	5.5
13	MP2C	X	-3.39	.5
14	MP2C	Z	-1.957	.5
15	MP2C	Mx	-.0028	.5
16	MP2C	X	-3.39	5.5
17	MP2C	Z	-1.957	5.5
18	MP2C	Mx	-.0028	5.5
19	MP2A	X	-3.39	.5
20	MP2A	Z	-1.957	.5
21	MP2A	Mx	.0028	.5
22	MP2A	X	-3.39	5.5
23	MP2A	Z	-1.957	5.5
24	MP2A	Mx	.0028	5.5
25	MP2B	X	-5.929	.5
26	MP2B	Z	-3.423	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	-5.929	5.5
29	MP2B	Z	-3.423	5.5
30	MP2B	Mx	-.004	5.5
31	MP2C	X	-3.39	.5
32	MP2C	Z	-1.957	.5
33	MP2C	Mx	-.000553	.5
34	MP2C	X	-3.39	5.5
35	MP2C	Z	-1.957	5.5
36	MP2C	Mx	-.000553	5.5
37	MP5A	X	-2.175	2
38	MP5A	Z	-1.256	2
39	MP5A	Mx	.0011	2
40	MP5A	X	-2.175	4
41	MP5A	Z	-1.256	4
42	MP5A	Mx	.0011	4
43	MP5B	X	-4.28	2
44	MP5B	Z	-2.471	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP5B	Mx	0	2
46	MP5B	X	-4.28	4
47	MP5B	Z	-2.471	4
48	MP5B	Mx	0	4
49	MP5C	X	-4.28	2
50	MP5C	Z	-2.471	2
51	MP5C	Mx	0	2
52	MP5C	X	-4.28	4
53	MP5C	Z	-2.471	4
54	MP5C	Mx	0	4
55	MP1A	X	-2.549	3
56	MP1A	Z	-1.472	3
57	MP1A	Mx	-.0013	3
58	MP1B	X	-3.385	3
59	MP1B	Z	-1.954	3
60	MP1B	Mx	0	3
61	MP1C	X	-2.549	3
62	MP1C	Z	-1.472	3
63	MP1C	Mx	.0013	3
64	MP2A	X	-2.386	3
65	MP2A	Z	-1.377	3
66	MP2A	Mx	-.0012	3
67	MP2B	X	-3.385	3
68	MP2B	Z	-1.954	3
69	MP2B	Mx	0	3
70	MP2C	X	-2.386	3
71	MP2C	Z	-1.377	3
72	MP2C	Mx	.0012	3
73	MP4A	X	-6.627	.5
74	MP4A	Z	-3.826	.5
75	MP4A	Mx	.0044	.5
76	MP4A	X	-6.627	5.5
77	MP4A	Z	-3.826	5.5
78	MP4A	Mx	.0044	5.5
79	MP4B	X	-9.335	.5
80	MP4B	Z	-5.39	.5
81	MP4B	Mx	0	.5
82	MP4B	X	-9.335	5.5
83	MP4B	Z	-5.39	5.5
84	MP4B	Mx	0	5.5
85	MP4C	X	-6.627	.5
86	MP4C	Z	-3.826	.5
87	MP4C	Mx	-.0044	.5
88	MP4C	X	-6.627	5.5
89	MP4C	Z	-3.826	5.5
90	MP4C	Mx	-.0044	5.5
91	OVP	X	-6.466	1.5
92	OVP	Z	-3.733	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-2.083	5.25
95	MP2B	Z	-1.203	5.25
96	MP2B	Mx	.000801	5.25
97	MP2B	X	-2.083	5.25
98	MP2B	Z	-1.203	5.25
99	MP2B	Mx	-.000802	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-2.934	.5
2	MP2A	Z	-5.082	.5
3	MP2A	Mx	-.0015	.5
4	MP2A	X	-2.934	5.5
5	MP2A	Z	-5.082	5.5
6	MP2A	Mx	-.0015	5.5
7	MP2B	X	-2.934	.5
8	MP2B	Z	-5.082	.5
9	MP2B	Mx	.0044	.5
10	MP2B	X	-2.934	5.5
11	MP2B	Z	-5.082	5.5
12	MP2B	Mx	.0044	5.5
13	MP2C	X	-1.469	.5
14	MP2C	Z	-2.544	.5
15	MP2C	Mx	-.0015	.5
16	MP2C	X	-1.469	5.5
17	MP2C	Z	-2.544	5.5
18	MP2C	Mx	-.0015	5.5
19	MP2A	X	-2.934	.5
20	MP2A	Z	-5.082	.5
21	MP2A	Mx	.0044	.5
22	MP2A	X	-2.934	5.5
23	MP2A	Z	-5.082	5.5
24	MP2A	Mx	.0044	5.5
25	MP2B	X	-2.934	.5
26	MP2B	Z	-5.082	.5
27	MP2B	Mx	-.0015	.5
28	MP2B	X	-2.934	5.5
29	MP2B	Z	-5.082	5.5
30	MP2B	Mx	-.0015	5.5
31	MP2C	X	-1.469	.5
32	MP2C	Z	-2.544	.5
33	MP2C	Mx	-.0015	.5
34	MP2C	X	-1.469	5.5
35	MP2C	Z	-2.544	5.5
36	MP2C	Mx	-.0015	5.5
37	MP5A	X	-2.066	2
38	MP5A	Z	-3.578	2
39	MP5A	Mx	.001	2
40	MP5A	X	-2.066	4
41	MP5A	Z	-3.578	4
42	MP5A	Mx	.001	4
43	MP5B	X	-2.066	2
44	MP5B	Z	-3.578	2
45	MP5B	Mx	.001	2
46	MP5B	X	-2.066	4
47	MP5B	Z	-3.578	4
48	MP5B	Mx	.001	4
49	MP5C	X	-2.066	2
50	MP5C	Z	-3.578	2
51	MP5C	Mx	.001	2
52	MP5C	X	-2.066	4
53	MP5C	Z	-3.578	4
54	MP5C	Mx	.001	4
55	MP1A	X	-1.793	3
56	MP1A	Z	-3.106	3
57	MP1A	Mx	-.000896	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP1B	X	-1.793	3
59	MP1B	Z	-3.106	3
60	MP1B	Mx	-.000897	3
61	MP1C	X	-1.311	3
62	MP1C	Z	-2.271	3
63	MP1C	Mx	.0013	3
64	MP2A	X	-1.762	3
65	MP2A	Z	-3.052	3
66	MP2A	Mx	-.000881	3
67	MP2B	X	-1.762	3
68	MP2B	Z	-3.052	3
69	MP2B	Mx	-.000881	3
70	MP2C	X	-1.185	3
71	MP2C	Z	-2.053	3
72	MP2C	Mx	.0012	3
73	MP4A	X	-4.868	.5
74	MP4A	Z	-8.432	.5
75	MP4A	Mx	.0032	.5
76	MP4A	X	-4.868	5.5
77	MP4A	Z	-8.432	5.5
78	MP4A	Mx	.0032	5.5
79	MP4B	X	-4.868	.5
80	MP4B	Z	-8.432	.5
81	MP4B	Mx	.0032	.5
82	MP4B	X	-4.868	5.5
83	MP4B	Z	-8.432	5.5
84	MP4B	Mx	.0032	5.5
85	MP4C	X	-3.305	.5
86	MP4C	Z	-5.724	.5
87	MP4C	Mx	-.0044	.5
88	MP4C	X	-3.305	5.5
89	MP4C	Z	-5.724	5.5
90	MP4C	Mx	-.0044	5.5
91	OVP	X	-3.971	1.5
92	OVP	Z	-6.878	1.5
93	OVP	Mx	0	1.5
94	MP2B	X	-1.204	5.25
95	MP2B	Z	-2.085	5.25
96	MP2B	Mx	-.000509	5.25
97	MP2B	X	-1.204	5.25
98	MP2B	Z	-2.085	5.25
99	MP2B	Mx	-.0019	5.25

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M38A	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M44A	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M33	Y	-250	0



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M34	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-8064	.5
2	MP2A	My	-.000403	.5
3	MP2A	Mz	.00047	.5
4	MP2A	Y	-8064	5.5
5	MP2A	My	-.000403	5.5
6	MP2A	Mz	.00047	5.5
7	MP2B	Y	-8064	.5
8	MP2B	My	-.000206	.5
9	MP2B	Mz	-.000584	.5
10	MP2B	Y	-8064	5.5
11	MP2B	My	-.000206	5.5
12	MP2B	Mz	-.000584	5.5
13	MP2C	Y	-8064	.5
14	MP2C	My	.000609	.5
15	MP2C	Mz	.000114	.5
16	MP2C	Y	-8064	5.5
17	MP2C	My	.000609	5.5
18	MP2C	Mz	.000114	5.5
19	MP2A	Y	-8064	.5
20	MP2A	My	-.000403	.5
21	MP2A	Mz	-.00047	.5
22	MP2A	Y	-8064	5.5
23	MP2A	My	-.000403	5.5
24	MP2A	Mz	-.00047	5.5
25	MP2B	Y	-8064	.5
26	MP2B	My	.000609	.5
27	MP2B	Mz	-.000114	.5
28	MP2B	Y	-8064	5.5
29	MP2B	My	.000609	5.5
30	MP2B	Mz	-.000114	5.5
31	MP2C	Y	-8064	.5
32	MP2C	My	-.000206	.5
33	MP2C	Mz	.000584	.5
34	MP2C	Y	-8064	5.5
35	MP2C	My	-.000206	5.5
36	MP2C	Mz	.000584	5.5
37	MP5A	Y	-1.6073	2
38	MP5A	My	-.000804	2
39	MP5A	Mz	0	2
40	MP5A	Y	-1.6073	4
41	MP5A	My	-.000804	4
42	MP5A	Mz	0	4
43	MP5B	Y	-1.6073	2
44	MP5B	My	.000402	2
45	MP5B	Mz	-.000696	2
46	MP5B	Y	-1.6073	4
47	MP5B	My	.000402	4
48	MP5B	Mz	-.000696	4
49	MP5C	Y	-1.6073	2
50	MP5C	My	.000402	2
51	MP5C	Mz	-.000696	2
52	MP5C	Y	-1.6073	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
53	MP5C	My	.000402	4
54	MP5C	Mz	-.000696	4
55	MP1A	Y	-2.7569	3
56	MP1A	My	.0014	3
57	MP1A	Mz	0	3
58	MP1B	Y	-2.7569	3
59	MP1B	My	-.000689	3
60	MP1B	Mz	.0012	3
61	MP1C	Y	-2.7569	3
62	MP1C	My	-.000689	3
63	MP1C	Mz	-.0012	3
64	MP2A	Y	-2.5945	3
65	MP2A	My	.0013	3
66	MP2A	Mz	0	3
67	MP2B	Y	-2.5945	3
68	MP2B	My	-.000649	3
69	MP2B	Mz	.0011	3
70	MP2C	Y	-2.5945	3
71	MP2C	My	-.000649	3
72	MP2C	Mz	-.0011	3
73	MP4A	Y	-.7529	.5
74	MP4A	My	-.000502	.5
75	MP4A	Mz	0	.5
76	MP4A	Y	-.7529	5.5
77	MP4A	My	-.000502	5.5
78	MP4A	Mz	0	5.5
79	MP4B	Y	-.7529	.5
80	MP4B	My	.000251	.5
81	MP4B	Mz	-.000435	.5
82	MP4B	Y	-.7529	5.5
83	MP4B	My	.000251	5.5
84	MP4B	Mz	-.000435	5.5
85	MP4C	Y	-.7529	.5
86	MP4C	My	.000251	.5
87	MP4C	Mz	.000435	.5
88	MP4C	Y	-.7529	5.5
89	MP4C	My	.000251	5.5
90	MP4C	Mz	.000435	5.5
91	OVP	Y	-1.181	1.5
92	OVP	My	0	1.5
93	OVP	Mz	0	1.5
94	MP2B	Y	-.6496	5.25
95	MP2B	My	-.000512	5.25
96	MP2B	Mz	.000454	5.25
97	MP2B	Y	-.6496	5.25
98	MP2B	My	-.000137	5.25
99	MP2B	Mz	.000671	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	Z	-2.016	.5
2	MP2A	Mx	-.0012	.5
3	MP2A	Z	-2.016	5.5
4	MP2A	Mx	-.0012	5.5
5	MP2B	Z	-2.016	.5
6	MP2B	Mx	.0015	.5



Company : Colliers Engineering & Design
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 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
7	MP2B	Z	-2.016	5.5
8	MP2B	Mx	.0015	5.5
9	MP2C	Z	-2.016	.5
10	MP2C	Mx	-.000285	.5
11	MP2C	Z	-2.016	5.5
12	MP2C	Mx	-.000285	5.5
13	MP2A	Z	-2.016	.5
14	MP2A	Mx	.0012	.5
15	MP2A	Z	-2.016	5.5
16	MP2A	Mx	.0012	5.5
17	MP2B	Z	-2.016	.5
18	MP2B	Mx	.000285	.5
19	MP2B	Z	-2.016	5.5
20	MP2B	Mx	.000285	5.5
21	MP2C	Z	-2.016	.5
22	MP2C	Mx	-.0015	.5
23	MP2C	Z	-2.016	5.5
24	MP2C	Mx	-.0015	5.5
25	MP5A	Z	-4.0182	2
26	MP5A	Mx	0	2
27	MP5A	Z	-4.0182	4
28	MP5A	Mx	0	4
29	MP5B	Z	-4.0182	2
30	MP5B	Mx	.0017	2
31	MP5B	Z	-4.0182	4
32	MP5B	Mx	.0017	4
33	MP5C	Z	-4.0182	2
34	MP5C	Mx	.0017	2
35	MP5C	Z	-4.0182	4
36	MP5C	Mx	.0017	4
37	MP1A	Z	-6.8923	3
38	MP1A	Mx	0	3
39	MP1B	Z	-6.8923	3
40	MP1B	Mx	-.003	3
41	MP1C	Z	-6.8923	3
42	MP1C	Mx	.003	3
43	MP2A	Z	-6.4863	3
44	MP2A	Mx	0	3
45	MP2B	Z	-6.4863	3
46	MP2B	Mx	-.0028	3
47	MP2C	Z	-6.4863	3
48	MP2C	Mx	.0028	3
49	MP4A	Z	-1.8822	.5
50	MP4A	Mx	0	.5
51	MP4A	Z	-1.8822	5.5
52	MP4A	Mx	0	5.5
53	MP4B	Z	-1.8822	.5
54	MP4B	Mx	.0011	.5
55	MP4B	Z	-1.8822	5.5
56	MP4B	Mx	.0011	5.5
57	MP4C	Z	-1.8822	.5
58	MP4C	Mx	-.0011	.5
59	MP4C	Z	-1.8822	5.5
60	MP4C	Mx	-.0011	5.5
61	OVP	Z	-2.9525	1.5
62	OVP	Mx	0	1.5
63	MP2B	Z	-1.6239	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
64	MP2B	Mx	-.0011	5.25
65	MP2B	Z	-1.6239	5.25
66	MP2B	Mx	-.0017	5.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.016	.5
2	MP2A	Mx	-.001	.5
3	MP2A	X	2.016	5.5
4	MP2A	Mx	-.001	5.5
5	MP2B	X	2.016	.5
6	MP2B	Mx	-.000514	.5
7	MP2B	X	2.016	5.5
8	MP2B	Mx	-.000514	5.5
9	MP2C	X	2.016	.5
10	MP2C	Mx	.0015	.5
11	MP2C	X	2.016	5.5
12	MP2C	Mx	.0015	5.5
13	MP2A	X	2.016	.5
14	MP2A	Mx	-.001	.5
15	MP2A	X	2.016	5.5
16	MP2A	Mx	-.001	5.5
17	MP2B	X	2.016	.5
18	MP2B	Mx	.0015	.5
19	MP2B	X	2.016	5.5
20	MP2B	Mx	.0015	5.5
21	MP2C	X	2.016	.5
22	MP2C	Mx	-.000514	.5
23	MP2C	X	2.016	5.5
24	MP2C	Mx	-.000514	5.5
25	MP5A	X	4.0182	2
26	MP5A	Mx	-.002	2
27	MP5A	X	4.0182	4
28	MP5A	Mx	-.002	4
29	MP5B	X	4.0182	2
30	MP5B	Mx	.001	2
31	MP5B	X	4.0182	4
32	MP5B	Mx	.001	4
33	MP5C	X	4.0182	2
34	MP5C	Mx	.001	2
35	MP5C	X	4.0182	4
36	MP5C	Mx	.001	4
37	MP1A	X	6.8923	3
38	MP1A	Mx	.0034	3
39	MP1B	X	6.8923	3
40	MP1B	Mx	-.0017	3
41	MP1C	X	6.8923	3
42	MP1C	Mx	-.0017	3
43	MP2A	X	6.4863	3
44	MP2A	Mx	.0032	3
45	MP2B	X	6.4863	3
46	MP2B	Mx	-.0016	3
47	MP2C	X	6.4863	3
48	MP2C	Mx	-.0016	3
49	MP4A	X	1.8822	.5
50	MP4A	Mx	-.0013	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP4A	X	1.8822	5.5
52	MP4A	Mx	-.0013	5.5
53	MP4B	X	1.8822	.5
54	MP4B	Mx	.000627	.5
55	MP4B	X	1.8822	5.5
56	MP4B	Mx	.000627	5.5
57	MP4C	X	1.8822	.5
58	MP4C	Mx	.000627	.5
59	MP4C	X	1.8822	5.5
60	MP4C	Mx	.000627	5.5
61	OVP	X	2.9525	1.5
62	OVP	Mx	0	1.5
63	MP2B	X	1.6239	5.25
64	MP2B	Mx	-.0013	5.25
65	MP2B	X	1.6239	5.25
66	MP2B	Mx	-.000343	5.25

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft.]	End Location[ft.]
1	M39	Y	-16.0451	-16.0451	0	%100
2	M40	Y	-12.3305	-12.3305	0	%100
3	M43	Y	-12.3305	-12.3305	0	%100
4	MP1A	Y	-8.4545	-8.4545	0	%100
5	M112A	Y	-9.5762	-9.5762	0	%100
6	M113A	Y	-9.5762	-9.5762	0	%100
7	M32	Y	-10.7893	-10.7893	0	%100
8	M33	Y	-10.7893	-10.7893	0	%100
9	M34	Y	-10.7893	-10.7893	0	%100
10	M16	Y	-16.0451	-16.0451	0	%100
11	M17	Y	-12.3305	-12.3305	0	%100
12	M18	Y	-12.3305	-12.3305	0	%100
13	M22	Y	-9.5762	-9.5762	0	%100
14	M23	Y	-9.5762	-9.5762	0	%100
15	M26	Y	-16.0451	-16.0451	0	%100
16	M27	Y	-12.3305	-12.3305	0	%100
17	M28	Y	-12.3305	-12.3305	0	%100
18	M32A	Y	-9.5762	-9.5762	0	%100
19	M33A	Y	-9.5762	-9.5762	0	%100
20	M36	Y	-10.7893	-10.7893	0	%100
21	M37	Y	-10.7893	-10.7893	0	%100
22	M38	Y	-10.7893	-10.7893	0	%100
23	M39A	Y	-10.7893	-10.7893	0	%100
24	M40A	Y	-10.7893	-10.7893	0	%100
25	M41	Y	-10.7893	-10.7893	0	%100
26	MP2A	Y	-9.4922	-9.4922	0	%100
27	MP3A	Y	-8.4545	-8.4545	0	%100
28	MP4A	Y	-8.4545	-8.4545	0	%100
29	MP5A	Y	-8.4545	-8.4545	0	%100
30	MP1C	Y	-8.4545	-8.4545	0	%100
31	MP1B	Y	-8.4545	-8.4545	0	%100
32	MP2B	Y	-9.4922	-9.4922	0	%100
33	MP3B	Y	-8.4545	-8.4545	0	%100
34	MP4B	Y	-8.4545	-8.4545	0	%100
35	MP5B	Y	-8.4545	-8.4545	0	%100
36	MP2C	Y	-9.4922	-9.4922	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
37	MP3C	Y	-8.4545	-8.4545	0	%100
38	MP4C	Y	-8.4545	-8.4545	0	%100
39	MP5C	Y	-8.4545	-8.4545	0	%100
40	OVP	Y	-8.4545	-8.4545	0	%100
41	M71	Y	-9.4922	-9.4922	0	%100
42	M74	Y	-9.4922	-9.4922	0	%100
43	M77	Y	-12.3305	-12.3305	0	%100
44	M89	Y	-9.4922	-9.4922	0	%100
45	M90	Y	-12.3305	-12.3305	0	%100
46	M91	Y	-12.3305	-12.3305	0	%100
47	M93A	Y	-17.5342	-17.5342	0	%100
48	M94	Y	-17.5342	-17.5342	0	%100
49	M95	Y	-17.5342	-17.5342	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	-24.0529	-24.0529	0	%100
3	M40	X	0	0	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-9.5209	-9.5209	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	-6.11	-6.11	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	-6.11	-6.11	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	-11.5501	-11.5501	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	-11.5501	-11.5501	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	-11.3694	-11.3694	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-6.0132	-6.0132	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	-8.7867	-8.7867	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-8.0072	-8.0072	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	-6.11	-6.11	0	%100
27	M23	X	0	0	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-6.0132	-6.0132	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-8.7867	-8.7867	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-8.0072	-8.0072	0	%100
35	M32A	X	0	0	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	-6.11	-6.11	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-2.8875	-2.8875	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
41	M37	X	0	0	0	%100
42	M37	Z	-2.8875	-2.8875	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	-2.8423	-2.8423	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	-2.8875	-2.8875	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	-2.8875	-2.8875	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	-2.8423	-2.8423	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-11.5253	-11.5253	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-9.5209	-9.5209	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-9.5209	-9.5209	0	%100
57	MP5A	X	0	0	0	%100
58	MP5A	Z	-9.5209	-9.5209	0	%100
59	MP1C	X	0	0	0	%100
60	MP1C	Z	-9.5209	-9.5209	0	%100
61	MP1B	X	0	0	0	%100
62	MP1B	Z	-9.5209	-9.5209	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-11.5253	-11.5253	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	-9.5209	-9.5209	0	%100
67	MP4B	X	0	0	0	%100
68	MP4B	Z	-9.5209	-9.5209	0	%100
69	MP5B	X	0	0	0	%100
70	MP5B	Z	-9.5209	-9.5209	0	%100
71	MP2C	X	0	0	0	%100
72	MP2C	Z	-11.5253	-11.5253	0	%100
73	MP3C	X	0	0	0	%100
74	MP3C	Z	-9.5209	-9.5209	0	%100
75	MP4C	X	0	0	0	%100
76	MP4C	Z	-9.5209	-9.5209	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	-9.5209	-9.5209	0	%100
79	OVP	X	0	0	0	%100
80	OVP	Z	-8.2311	-8.2311	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	-11.5253	-11.5253	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	-2.8813	-2.8813	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	-3.7796	-3.7796	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	-2.8813	-2.8813	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	-3.7796	-3.7796	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	-15.1185	-15.1185	0	%100
93	M93A	X	0	0	0	%100
94	M93A	Z	-9.3837	-9.3837	0	%100
95	M94	X	0	0	0	%100
96	M94	Z	-17.3745	-17.3745	0	%100
97	M95	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
98	M95	Z	-17.3745	-17.3745	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M39	X	9.0198	9.0198	0	%100
2	M39	Z	-15.6228	-15.6228	0	%100
3	M40	X	1.4644	1.4644	0	%100
4	M40	Z	-2.5365	-2.5365	0	%100
5	M43	X	1.3345	1.3345	0	%100
6	M43	Z	-2.3115	-2.3115	0	%100
7	MP1A	X	4.7605	4.7605	0	%100
8	MP1A	Z	-8.2454	-8.2454	0	%100
9	M112A	X	1.0183	1.0183	0	%100
10	M112A	Z	-1.7638	-1.7638	0	%100
11	M113A	X	4.0733	4.0733	0	%100
12	M113A	Z	-7.0552	-7.0552	0	%100
13	M32	X	4.3313	4.3313	0	%100
14	M32	Z	-7.502	-7.502	0	%100
15	M33	X	4.3313	4.3313	0	%100
16	M33	Z	-7.502	-7.502	0	%100
17	M34	X	4.2635	4.2635	0	%100
18	M34	Z	-7.3846	-7.3846	0	%100
19	M16	X	9.0198	9.0198	0	%100
20	M16	Z	-15.6228	-15.6228	0	%100
21	M17	X	1.4644	1.4644	0	%100
22	M17	Z	-2.5365	-2.5365	0	%100
23	M18	X	1.3345	1.3345	0	%100
24	M18	Z	-2.3115	-2.3115	0	%100
25	M22	X	4.0733	4.0733	0	%100
26	M22	Z	-7.0552	-7.0552	0	%100
27	M23	X	1.0183	1.0183	0	%100
28	M23	Z	-1.7638	-1.7638	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	5.8578	5.8578	0	%100
32	M27	Z	-10.146	-10.146	0	%100
33	M28	X	5.3381	5.3381	0	%100
34	M28	Z	-9.2459	-9.2459	0	%100
35	M32A	X	1.0183	1.0183	0	%100
36	M32A	Z	-1.7638	-1.7638	0	%100
37	M33A	X	1.0183	1.0183	0	%100
38	M33A	Z	-1.7638	-1.7638	0	%100
39	M36	X	4.3313	4.3313	0	%100
40	M36	Z	-7.502	-7.502	0	%100
41	M37	X	4.3313	4.3313	0	%100
42	M37	Z	-7.502	-7.502	0	%100
43	M38	X	4.2635	4.2635	0	%100
44	M38	Z	-7.3846	-7.3846	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	5.7627	5.7627	0	%100
52	MP2A	Z	-9.9812	-9.9812	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
53	MP3A	X	4.7605	4.7605	0	%100
54	MP3A	Z	-8.2454	-8.2454	0	%100
55	MP4A	X	4.7605	4.7605	0	%100
56	MP4A	Z	-8.2454	-8.2454	0	%100
57	MP5A	X	4.7605	4.7605	0	%100
58	MP5A	Z	-8.2454	-8.2454	0	%100
59	MP1C	X	4.7605	4.7605	0	%100
60	MP1C	Z	-8.2454	-8.2454	0	%100
61	MP1B	X	4.7605	4.7605	0	%100
62	MP1B	Z	-8.2454	-8.2454	0	%100
63	MP2B	X	5.7627	5.7627	0	%100
64	MP2B	Z	-9.9812	-9.9812	0	%100
65	MP3B	X	4.7605	4.7605	0	%100
66	MP3B	Z	-8.2454	-8.2454	0	%100
67	MP4B	X	4.7605	4.7605	0	%100
68	MP4B	Z	-8.2454	-8.2454	0	%100
69	MP5B	X	4.7605	4.7605	0	%100
70	MP5B	Z	-8.2454	-8.2454	0	%100
71	MP2C	X	5.7627	5.7627	0	%100
72	MP2C	Z	-9.9812	-9.9812	0	%100
73	MP3C	X	4.7605	4.7605	0	%100
74	MP3C	Z	-8.2454	-8.2454	0	%100
75	MP4C	X	4.7605	4.7605	0	%100
76	MP4C	Z	-8.2454	-8.2454	0	%100
77	MP5C	X	4.7605	4.7605	0	%100
78	MP5C	Z	-8.2454	-8.2454	0	%100
79	OVP	X	4.1155	4.1155	0	%100
80	OVP	Z	-7.1283	-7.1283	0	%100
81	M71	X	4.322	4.322	0	%100
82	M71	Z	-7.4859	-7.4859	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	5.6694	5.6694	0	%100
86	M77	Z	-9.8198	-9.8198	0	%100
87	M89	X	4.322	4.322	0	%100
88	M89	Z	-7.4859	-7.4859	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	5.6694	5.6694	0	%100
92	M91	Z	-9.8198	-9.8198	0	%100
93	M93A	X	6.0236	6.0236	0	%100
94	M93A	Z	-10.4333	-10.4333	0	%100
95	M94	X	6.0236	6.0236	0	%100
96	M94	Z	-10.4333	-10.4333	0	%100
97	M95	X	10.0191	10.0191	0	%100
98	M95	Z	-17.3535	-17.3535	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	5.2076	5.2076	0	%100
2	M39	Z	-3.0066	-3.0066	0	%100
3	M40	X	7.6095	7.6095	0	%100
4	M40	Z	-4.3933	-4.3933	0	%100
5	M43	X	6.9344	6.9344	0	%100
6	M43	Z	-4.0036	-4.0036	0	%100
7	MP1A	X	8.2454	8.2454	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
8	MP1A	Z	-4.7605	-4.7605	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	5.2914	5.2914	0	%100
12	M113A	Z	-3.055	-3.055	0	%100
13	M32	X	2.5007	2.5007	0	%100
14	M32	Z	-1.4438	-1.4438	0	%100
15	M33	X	2.5007	2.5007	0	%100
16	M33	Z	-1.4438	-1.4438	0	%100
17	M34	X	2.4615	2.4615	0	%100
18	M34	Z	-1.4212	-1.4212	0	%100
19	M16	X	20.8304	20.8304	0	%100
20	M16	Z	-12.0264	-12.0264	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	5.2914	5.2914	0	%100
26	M22	Z	-3.055	-3.055	0	%100
27	M23	X	5.2914	5.2914	0	%100
28	M23	Z	-3.055	-3.055	0	%100
29	M26	X	5.2076	5.2076	0	%100
30	M26	Z	-3.0066	-3.0066	0	%100
31	M27	X	7.6095	7.6095	0	%100
32	M27	Z	-4.3933	-4.3933	0	%100
33	M28	X	6.9344	6.9344	0	%100
34	M28	Z	-4.0036	-4.0036	0	%100
35	M32A	X	5.2914	5.2914	0	%100
36	M32A	Z	-3.055	-3.055	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	10.0026	10.0026	0	%100
40	M36	Z	-5.775	-5.775	0	%100
41	M37	X	10.0026	10.0026	0	%100
42	M37	Z	-5.775	-5.775	0	%100
43	M38	X	9.8462	9.8462	0	%100
44	M38	Z	-5.6847	-5.6847	0	%100
45	M39A	X	2.5007	2.5007	0	%100
46	M39A	Z	-1.4438	-1.4438	0	%100
47	M40A	X	2.5007	2.5007	0	%100
48	M40A	Z	-1.4438	-1.4438	0	%100
49	M41	X	2.4615	2.4615	0	%100
50	M41	Z	-1.4212	-1.4212	0	%100
51	MP2A	X	9.9812	9.9812	0	%100
52	MP2A	Z	-5.7627	-5.7627	0	%100
53	MP3A	X	8.2454	8.2454	0	%100
54	MP3A	Z	-4.7605	-4.7605	0	%100
55	MP4A	X	8.2454	8.2454	0	%100
56	MP4A	Z	-4.7605	-4.7605	0	%100
57	MP5A	X	8.2454	8.2454	0	%100
58	MP5A	Z	-4.7605	-4.7605	0	%100
59	MP1C	X	8.2454	8.2454	0	%100
60	MP1C	Z	-4.7605	-4.7605	0	%100
61	MP1B	X	8.2454	8.2454	0	%100
62	MP1B	Z	-4.7605	-4.7605	0	%100
63	MP2B	X	9.9812	9.9812	0	%100
64	MP2B	Z	-5.7627	-5.7627	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
65	MP3B	X	8.2454	8.2454	0	%100
66	MP3B	Z	-4.7605	-4.7605	0	%100
67	MP4B	X	8.2454	8.2454	0	%100
68	MP4B	Z	-4.7605	-4.7605	0	%100
69	MP5B	X	8.2454	8.2454	0	%100
70	MP5B	Z	-4.7605	-4.7605	0	%100
71	MP2C	X	9.9812	9.9812	0	%100
72	MP2C	Z	-5.7627	-5.7627	0	%100
73	MP3C	X	8.2454	8.2454	0	%100
74	MP3C	Z	-4.7605	-4.7605	0	%100
75	MP4C	X	8.2454	8.2454	0	%100
76	MP4C	Z	-4.7605	-4.7605	0	%100
77	MP5C	X	8.2454	8.2454	0	%100
78	MP5C	Z	-4.7605	-4.7605	0	%100
79	OVP	X	7.1283	7.1283	0	%100
80	OVP	Z	-4.1155	-4.1155	0	%100
81	M71	X	2.4953	2.4953	0	%100
82	M71	Z	-1.4407	-1.4407	0	%100
83	M74	X	2.4953	2.4953	0	%100
84	M74	Z	-1.4407	-1.4407	0	%100
85	M77	X	13.093	13.093	0	%100
86	M77	Z	-7.5593	-7.5593	0	%100
87	M89	X	9.9812	9.9812	0	%100
88	M89	Z	-5.7627	-5.7627	0	%100
89	M90	X	3.2733	3.2733	0	%100
90	M90	Z	-1.8898	-1.8898	0	%100
91	M91	X	3.2733	3.2733	0	%100
92	M91	Z	-1.8898	-1.8898	0	%100
93	M93A	X	15.0468	15.0468	0	%100
94	M93A	Z	-8.6873	-8.6873	0	%100
95	M94	X	8.1265	8.1265	0	%100
96	M94	Z	-4.6918	-4.6918	0	%100
97	M95	X	15.0468	15.0468	0	%100
98	M95	Z	-8.6873	-8.6873	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	0	0	0	%100
3	M40	X	11.7156	11.7156	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	10.6762	10.6762	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	9.5209	9.5209	0	%100
8	MP1A	Z	0	0	0	%100
9	M112A	X	2.0367	2.0367	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	2.0367	2.0367	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	0	0	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	0	0	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	0	0	0	%100
19	M16	X	18.0397	18.0397	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
20	M16	Z	0	0	0	%100
21	M17	X	2.9289	2.9289	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	2.6691	2.6691	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	2.0367	2.0367	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	8.1466	8.1466	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	18.0397	18.0397	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	2.9289	2.9289	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	2.6691	2.6691	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	8.1466	8.1466	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	2.0367	2.0367	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	8.6625	8.6625	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	8.6625	8.6625	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	8.527	8.527	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	8.6625	8.6625	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	8.6625	8.6625	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	8.527	8.527	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	11.5253	11.5253	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	9.5209	9.5209	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	9.5209	9.5209	0	%100
56	MP4A	Z	0	0	0	%100
57	MP5A	X	9.5209	9.5209	0	%100
58	MP5A	Z	0	0	0	%100
59	MP1C	X	9.5209	9.5209	0	%100
60	MP1C	Z	0	0	0	%100
61	MP1B	X	9.5209	9.5209	0	%100
62	MP1B	Z	0	0	0	%100
63	MP2B	X	11.5253	11.5253	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	9.5209	9.5209	0	%100
66	MP3B	Z	0	0	0	%100
67	MP4B	X	9.5209	9.5209	0	%100
68	MP4B	Z	0	0	0	%100
69	MP5B	X	9.5209	9.5209	0	%100
70	MP5B	Z	0	0	0	%100
71	MP2C	X	11.5253	11.5253	0	%100
72	MP2C	Z	0	0	0	%100
73	MP3C	X	9.5209	9.5209	0	%100
74	MP3C	Z	0	0	0	%100
75	MP4C	X	9.5209	9.5209	0	%100
76	MP4C	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
77	MP5C	X	9.5209	9.5209	0	%100
78	MP5C	Z	0	0	0	%100
79	OVP	X	8.2311	8.2311	0	%100
80	OVP	Z	0	0	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	0	0	0	%100
83	M74	X	8.644	8.644	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	11.3389	11.3389	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	8.644	8.644	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	11.3389	11.3389	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	0	0	0	%100
93	M93A	X	20.0381	20.0381	0	%100
94	M93A	Z	0	0	0	%100
95	M94	X	12.0473	12.0473	0	%100
96	M94	Z	0	0	0	%100
97	M95	X	12.0473	12.0473	0	%100
98	M95	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	5.2076	5.2076	0	%100
2	M39	Z	3.0066	3.0066	0	%100
3	M40	X	7.6095	7.6095	0	%100
4	M40	Z	4.3933	4.3933	0	%100
5	M43	X	6.9344	6.9344	0	%100
6	M43	Z	4.0036	4.0036	0	%100
7	MP1A	X	8.2454	8.2454	0	%100
8	MP1A	Z	4.7605	4.7605	0	%100
9	M112A	X	5.2914	5.2914	0	%100
10	M112A	Z	3.055	3.055	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	2.5007	2.5007	0	%100
14	M32	Z	1.4438	1.4438	0	%100
15	M33	X	2.5007	2.5007	0	%100
16	M33	Z	1.4438	1.4438	0	%100
17	M34	X	2.4615	2.4615	0	%100
18	M34	Z	1.4212	1.4212	0	%100
19	M16	X	5.2076	5.2076	0	%100
20	M16	Z	3.0066	3.0066	0	%100
21	M17	X	7.6095	7.6095	0	%100
22	M17	Z	4.3933	4.3933	0	%100
23	M18	X	6.9344	6.9344	0	%100
24	M18	Z	4.0036	4.0036	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	5.2914	5.2914	0	%100
28	M23	Z	3.055	3.055	0	%100
29	M26	X	20.8304	20.8304	0	%100
30	M26	Z	12.0264	12.0264	0	%100
31	M27	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	5.2914	5.2914	0	%100
36	M32A	Z	3.055	3.055	0	%100
37	M33A	X	5.2914	5.2914	0	%100
38	M33A	Z	3.055	3.055	0	%100
39	M36	X	2.5007	2.5007	0	%100
40	M36	Z	1.4438	1.4438	0	%100
41	M37	X	2.5007	2.5007	0	%100
42	M37	Z	1.4438	1.4438	0	%100
43	M38	X	2.4615	2.4615	0	%100
44	M38	Z	1.4212	1.4212	0	%100
45	M39A	X	10.0026	10.0026	0	%100
46	M39A	Z	5.775	5.775	0	%100
47	M40A	X	10.0026	10.0026	0	%100
48	M40A	Z	5.775	5.775	0	%100
49	M41	X	9.8462	9.8462	0	%100
50	M41	Z	5.6847	5.6847	0	%100
51	MP2A	X	9.9812	9.9812	0	%100
52	MP2A	Z	5.7627	5.7627	0	%100
53	MP3A	X	8.2454	8.2454	0	%100
54	MP3A	Z	4.7605	4.7605	0	%100
55	MP4A	X	8.2454	8.2454	0	%100
56	MP4A	Z	4.7605	4.7605	0	%100
57	MP5A	X	8.2454	8.2454	0	%100
58	MP5A	Z	4.7605	4.7605	0	%100
59	MP1C	X	8.2454	8.2454	0	%100
60	MP1C	Z	4.7605	4.7605	0	%100
61	MP1B	X	8.2454	8.2454	0	%100
62	MP1B	Z	4.7605	4.7605	0	%100
63	MP2B	X	9.9812	9.9812	0	%100
64	MP2B	Z	5.7627	5.7627	0	%100
65	MP3B	X	8.2454	8.2454	0	%100
66	MP3B	Z	4.7605	4.7605	0	%100
67	MP4B	X	8.2454	8.2454	0	%100
68	MP4B	Z	4.7605	4.7605	0	%100
69	MP5B	X	8.2454	8.2454	0	%100
70	MP5B	Z	4.7605	4.7605	0	%100
71	MP2C	X	9.9812	9.9812	0	%100
72	MP2C	Z	5.7627	5.7627	0	%100
73	MP3C	X	8.2454	8.2454	0	%100
74	MP3C	Z	4.7605	4.7605	0	%100
75	MP4C	X	8.2454	8.2454	0	%100
76	MP4C	Z	4.7605	4.7605	0	%100
77	MP5C	X	8.2454	8.2454	0	%100
78	MP5C	Z	4.7605	4.7605	0	%100
79	OVP	X	7.1283	7.1283	0	%100
80	OVP	Z	4.1155	4.1155	0	%100
81	M71	X	2.4953	2.4953	0	%100
82	M71	Z	1.4407	1.4407	0	%100
83	M74	X	9.9812	9.9812	0	%100
84	M74	Z	5.7627	5.7627	0	%100
85	M77	X	3.2733	3.2733	0	%100
86	M77	Z	1.8898	1.8898	0	%100
87	M89	X	2.4953	2.4953	0	%100
88	M89	Z	1.4407	1.4407	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
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Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
89	M90	X	13.093	13.093	0	%100
90	M90	Z	7.5593	7.5593	0	%100
91	M91	X	3.2733	3.2733	0	%100
92	M91	Z	1.8898	1.8898	0	%100
93	M93A	X	15.0468	15.0468	0	%100
94	M93A	Z	8.6873	8.6873	0	%100
95	M94	X	15.0468	15.0468	0	%100
96	M94	Z	8.6873	8.6873	0	%100
97	M95	X	8.1265	8.1265	0	%100
98	M95	Z	4.6918	4.6918	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	9.0198	9.0198	0	%100
2	M39	Z	15.6228	15.6228	0	%100
3	M40	X	1.4644	1.4644	0	%100
4	M40	Z	2.5365	2.5365	0	%100
5	M43	X	1.3345	1.3345	0	%100
6	M43	Z	2.3115	2.3115	0	%100
7	MP1A	X	4.7605	4.7605	0	%100
8	MP1A	Z	8.2454	8.2454	0	%100
9	M112A	X	4.0733	4.0733	0	%100
10	M112A	Z	7.0552	7.0552	0	%100
11	M113A	X	1.0183	1.0183	0	%100
12	M113A	Z	1.7638	1.7638	0	%100
13	M32	X	4.3313	4.3313	0	%100
14	M32	Z	7.502	7.502	0	%100
15	M33	X	4.3313	4.3313	0	%100
16	M33	Z	7.502	7.502	0	%100
17	M34	X	4.2635	4.2635	0	%100
18	M34	Z	7.3846	7.3846	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	5.8578	5.8578	0	%100
22	M17	Z	10.146	10.146	0	%100
23	M18	X	5.3381	5.3381	0	%100
24	M18	Z	9.2459	9.2459	0	%100
25	M22	X	1.0183	1.0183	0	%100
26	M22	Z	1.7638	1.7638	0	%100
27	M23	X	1.0183	1.0183	0	%100
28	M23	Z	1.7638	1.7638	0	%100
29	M26	X	9.0198	9.0198	0	%100
30	M26	Z	15.6228	15.6228	0	%100
31	M27	X	1.4644	1.4644	0	%100
32	M27	Z	2.5365	2.5365	0	%100
33	M28	X	1.3345	1.3345	0	%100
34	M28	Z	2.3115	2.3115	0	%100
35	M32A	X	1.0183	1.0183	0	%100
36	M32A	Z	1.7638	1.7638	0	%100
37	M33A	X	4.0733	4.0733	0	%100
38	M33A	Z	7.0552	7.0552	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
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Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
44	M38	Z	0	0	0	%100
45	M39A	X	4.3313	4.3313	0	%100
46	M39A	Z	7.502	7.502	0	%100
47	M40A	X	4.3313	4.3313	0	%100
48	M40A	Z	7.502	7.502	0	%100
49	M41	X	4.2635	4.2635	0	%100
50	M41	Z	7.3846	7.3846	0	%100
51	MP2A	X	5.7627	5.7627	0	%100
52	MP2A	Z	9.9812	9.9812	0	%100
53	MP3A	X	4.7605	4.7605	0	%100
54	MP3A	Z	8.2454	8.2454	0	%100
55	MP4A	X	4.7605	4.7605	0	%100
56	MP4A	Z	8.2454	8.2454	0	%100
57	MP5A	X	4.7605	4.7605	0	%100
58	MP5A	Z	8.2454	8.2454	0	%100
59	MP1C	X	4.7605	4.7605	0	%100
60	MP1C	Z	8.2454	8.2454	0	%100
61	MP1B	X	4.7605	4.7605	0	%100
62	MP1B	Z	8.2454	8.2454	0	%100
63	MP2B	X	5.7627	5.7627	0	%100
64	MP2B	Z	9.9812	9.9812	0	%100
65	MP3B	X	4.7605	4.7605	0	%100
66	MP3B	Z	8.2454	8.2454	0	%100
67	MP4B	X	4.7605	4.7605	0	%100
68	MP4B	Z	8.2454	8.2454	0	%100
69	MP5B	X	4.7605	4.7605	0	%100
70	MP5B	Z	8.2454	8.2454	0	%100
71	MP2C	X	5.7627	5.7627	0	%100
72	MP2C	Z	9.9812	9.9812	0	%100
73	MP3C	X	4.7605	4.7605	0	%100
74	MP3C	Z	8.2454	8.2454	0	%100
75	MP4C	X	4.7605	4.7605	0	%100
76	MP4C	Z	8.2454	8.2454	0	%100
77	MP5C	X	4.7605	4.7605	0	%100
78	MP5C	Z	8.2454	8.2454	0	%100
79	OVP	X	4.1155	4.1155	0	%100
80	OVP	Z	7.1283	7.1283	0	%100
81	M71	X	4.322	4.322	0	%100
82	M71	Z	7.4859	7.4859	0	%100
83	M74	X	4.322	4.322	0	%100
84	M74	Z	7.4859	7.4859	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	5.6694	5.6694	0	%100
90	M90	Z	9.8198	9.8198	0	%100
91	M91	X	5.6694	5.6694	0	%100
92	M91	Z	9.8198	9.8198	0	%100
93	M93A	X	6.0236	6.0236	0	%100
94	M93A	Z	10.4333	10.4333	0	%100
95	M94	X	10.0191	10.0191	0	%100
96	M94	Z	17.3535	17.3535	0	%100
97	M95	X	6.0236	6.0236	0	%100
98	M95	Z	10.4333	10.4333	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	24.0529	24.0529	0	%100
3	M40	X	0	0	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	9.5209	9.5209	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	6.11	6.11	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	6.11	6.11	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	11.5501	11.5501	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	11.5501	11.5501	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	11.3694	11.3694	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	6.0132	6.0132	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	8.7867	8.7867	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	8.0072	8.0072	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	6.11	6.11	0	%100
27	M23	X	0	0	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	6.0132	6.0132	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	8.7867	8.7867	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	8.0072	8.0072	0	%100
35	M32A	X	0	0	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	6.11	6.11	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	2.8875	2.8875	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	2.8875	2.8875	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	2.8423	2.8423	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	2.8875	2.8875	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	2.8875	2.8875	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	2.8423	2.8423	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	11.5253	11.5253	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	9.5209	9.5209	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	9.5209	9.5209	0	%100
57	MP5A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
58	MP5A	Z	9.5209	9.5209	0	%100
59	MP1C	X	0	0	0	%100
60	MP1C	Z	9.5209	9.5209	0	%100
61	MP1B	X	0	0	0	%100
62	MP1B	Z	9.5209	9.5209	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	11.5253	11.5253	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	9.5209	9.5209	0	%100
67	MP4B	X	0	0	0	%100
68	MP4B	Z	9.5209	9.5209	0	%100
69	MP5B	X	0	0	0	%100
70	MP5B	Z	9.5209	9.5209	0	%100
71	MP2C	X	0	0	0	%100
72	MP2C	Z	11.5253	11.5253	0	%100
73	MP3C	X	0	0	0	%100
74	MP3C	Z	9.5209	9.5209	0	%100
75	MP4C	X	0	0	0	%100
76	MP4C	Z	9.5209	9.5209	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	9.5209	9.5209	0	%100
79	OVP	X	0	0	0	%100
80	OVP	Z	8.2311	8.2311	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	11.5253	11.5253	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	2.8813	2.8813	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	3.7796	3.7796	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	2.8813	2.8813	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	3.7796	3.7796	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	15.1185	15.1185	0	%100
93	M93A	X	0	0	0	%100
94	M93A	Z	9.3837	9.3837	0	%100
95	M94	X	0	0	0	%100
96	M94	Z	17.3745	17.3745	0	%100
97	M95	X	0	0	0	%100
98	M95	Z	17.3745	17.3745	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-9.0198	-9.0198	0	%100
2	M39	Z	15.6228	15.6228	0	%100
3	M40	X	-1.4644	-1.4644	0	%100
4	M40	Z	2.5365	2.5365	0	%100
5	M43	X	-1.3345	-1.3345	0	%100
6	M43	Z	2.3115	2.3115	0	%100
7	MP1A	X	-4.7605	-4.7605	0	%100
8	MP1A	Z	8.2454	8.2454	0	%100
9	M112A	X	-1.0183	-1.0183	0	%100
10	M112A	Z	1.7638	1.7638	0	%100
11	M113A	X	-4.0733	-4.0733	0	%100
12	M113A	Z	7.0552	7.0552	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
13	M32	X	-4.3313	-4.3313	0	%100
14	M32	Z	7.502	7.502	0	%100
15	M33	X	-4.3313	-4.3313	0	%100
16	M33	Z	7.502	7.502	0	%100
17	M34	X	-4.2635	-4.2635	0	%100
18	M34	Z	7.3846	7.3846	0	%100
19	M16	X	-9.0198	-9.0198	0	%100
20	M16	Z	15.6228	15.6228	0	%100
21	M17	X	-1.4644	-1.4644	0	%100
22	M17	Z	2.5365	2.5365	0	%100
23	M18	X	-1.3345	-1.3345	0	%100
24	M18	Z	2.3115	2.3115	0	%100
25	M22	X	-4.0733	-4.0733	0	%100
26	M22	Z	7.0552	7.0552	0	%100
27	M23	X	-1.0183	-1.0183	0	%100
28	M23	Z	1.7638	1.7638	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-5.8578	-5.8578	0	%100
32	M27	Z	10.146	10.146	0	%100
33	M28	X	-5.3381	-5.3381	0	%100
34	M28	Z	9.2459	9.2459	0	%100
35	M32A	X	-1.0183	-1.0183	0	%100
36	M32A	Z	1.7638	1.7638	0	%100
37	M33A	X	-1.0183	-1.0183	0	%100
38	M33A	Z	1.7638	1.7638	0	%100
39	M36	X	-4.3313	-4.3313	0	%100
40	M36	Z	7.502	7.502	0	%100
41	M37	X	-4.3313	-4.3313	0	%100
42	M37	Z	7.502	7.502	0	%100
43	M38	X	-4.2635	-4.2635	0	%100
44	M38	Z	7.3846	7.3846	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	-5.7627	-5.7627	0	%100
52	MP2A	Z	9.9812	9.9812	0	%100
53	MP3A	X	-4.7605	-4.7605	0	%100
54	MP3A	Z	8.2454	8.2454	0	%100
55	MP4A	X	-4.7605	-4.7605	0	%100
56	MP4A	Z	8.2454	8.2454	0	%100
57	MP5A	X	-4.7605	-4.7605	0	%100
58	MP5A	Z	8.2454	8.2454	0	%100
59	MP1C	X	-4.7605	-4.7605	0	%100
60	MP1C	Z	8.2454	8.2454	0	%100
61	MP1B	X	-4.7605	-4.7605	0	%100
62	MP1B	Z	8.2454	8.2454	0	%100
63	MP2B	X	-5.7627	-5.7627	0	%100
64	MP2B	Z	9.9812	9.9812	0	%100
65	MP3B	X	-4.7605	-4.7605	0	%100
66	MP3B	Z	8.2454	8.2454	0	%100
67	MP4B	X	-4.7605	-4.7605	0	%100
68	MP4B	Z	8.2454	8.2454	0	%100
69	MP5B	X	-4.7605	-4.7605	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
70	MP5B	Z	8.2454	8.2454	0	%100
71	MP2C	X	-5.7627	-5.7627	0	%100
72	MP2C	Z	9.9812	9.9812	0	%100
73	MP3C	X	-4.7605	-4.7605	0	%100
74	MP3C	Z	8.2454	8.2454	0	%100
75	MP4C	X	-4.7605	-4.7605	0	%100
76	MP4C	Z	8.2454	8.2454	0	%100
77	MP5C	X	-4.7605	-4.7605	0	%100
78	MP5C	Z	8.2454	8.2454	0	%100
79	OVP	X	-4.1155	-4.1155	0	%100
80	OVP	Z	7.1283	7.1283	0	%100
81	M71	X	-4.322	-4.322	0	%100
82	M71	Z	7.4859	7.4859	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	-5.6694	-5.6694	0	%100
86	M77	Z	9.8198	9.8198	0	%100
87	M89	X	-4.322	-4.322	0	%100
88	M89	Z	7.4859	7.4859	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	-5.6694	-5.6694	0	%100
92	M91	Z	9.8198	9.8198	0	%100
93	M93A	X	-6.0236	-6.0236	0	%100
94	M93A	Z	10.4333	10.4333	0	%100
95	M94	X	-6.0236	-6.0236	0	%100
96	M94	Z	10.4333	10.4333	0	%100
97	M95	X	-10.0191	-10.0191	0	%100
98	M95	Z	17.3535	17.3535	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-5.2076	-5.2076	0	%100
2	M39	Z	3.0066	3.0066	0	%100
3	M40	X	-7.6095	-7.6095	0	%100
4	M40	Z	4.3933	4.3933	0	%100
5	M43	X	-6.9344	-6.9344	0	%100
6	M43	Z	4.0036	4.0036	0	%100
7	MP1A	X	-8.2454	-8.2454	0	%100
8	MP1A	Z	4.7605	4.7605	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	-5.2914	-5.2914	0	%100
12	M113A	Z	3.055	3.055	0	%100
13	M32	X	-2.5007	-2.5007	0	%100
14	M32	Z	1.4438	1.4438	0	%100
15	M33	X	-2.5007	-2.5007	0	%100
16	M33	Z	1.4438	1.4438	0	%100
17	M34	X	-2.4615	-2.4615	0	%100
18	M34	Z	1.4212	1.4212	0	%100
19	M16	X	-20.8304	-20.8304	0	%100
20	M16	Z	12.0264	12.0264	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
25	M22	X	-5.2914	-5.2914	0	%100
26	M22	Z	3.055	3.055	0	%100
27	M23	X	-5.2914	-5.2914	0	%100
28	M23	Z	3.055	3.055	0	%100
29	M26	X	-5.2076	-5.2076	0	%100
30	M26	Z	3.0066	3.0066	0	%100
31	M27	X	-7.6095	-7.6095	0	%100
32	M27	Z	4.3933	4.3933	0	%100
33	M28	X	-6.9344	-6.9344	0	%100
34	M28	Z	4.0036	4.0036	0	%100
35	M32A	X	-5.2914	-5.2914	0	%100
36	M32A	Z	3.055	3.055	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	-10.0026	-10.0026	0	%100
40	M36	Z	5.775	5.775	0	%100
41	M37	X	-10.0026	-10.0026	0	%100
42	M37	Z	5.775	5.775	0	%100
43	M38	X	-9.8462	-9.8462	0	%100
44	M38	Z	5.6847	5.6847	0	%100
45	M39A	X	-2.5007	-2.5007	0	%100
46	M39A	Z	1.4438	1.4438	0	%100
47	M40A	X	-2.5007	-2.5007	0	%100
48	M40A	Z	1.4438	1.4438	0	%100
49	M41	X	-2.4615	-2.4615	0	%100
50	M41	Z	1.4212	1.4212	0	%100
51	MP2A	X	-9.9812	-9.9812	0	%100
52	MP2A	Z	5.7627	5.7627	0	%100
53	MP3A	X	-8.2454	-8.2454	0	%100
54	MP3A	Z	4.7605	4.7605	0	%100
55	MP4A	X	-8.2454	-8.2454	0	%100
56	MP4A	Z	4.7605	4.7605	0	%100
57	MP5A	X	-8.2454	-8.2454	0	%100
58	MP5A	Z	4.7605	4.7605	0	%100
59	MP1C	X	-8.2454	-8.2454	0	%100
60	MP1C	Z	4.7605	4.7605	0	%100
61	MP1B	X	-8.2454	-8.2454	0	%100
62	MP1B	Z	4.7605	4.7605	0	%100
63	MP2B	X	-9.9812	-9.9812	0	%100
64	MP2B	Z	5.7627	5.7627	0	%100
65	MP3B	X	-8.2454	-8.2454	0	%100
66	MP3B	Z	4.7605	4.7605	0	%100
67	MP4B	X	-8.2454	-8.2454	0	%100
68	MP4B	Z	4.7605	4.7605	0	%100
69	MP5B	X	-8.2454	-8.2454	0	%100
70	MP5B	Z	4.7605	4.7605	0	%100
71	MP2C	X	-9.9812	-9.9812	0	%100
72	MP2C	Z	5.7627	5.7627	0	%100
73	MP3C	X	-8.2454	-8.2454	0	%100
74	MP3C	Z	4.7605	4.7605	0	%100
75	MP4C	X	-8.2454	-8.2454	0	%100
76	MP4C	Z	4.7605	4.7605	0	%100
77	MP5C	X	-8.2454	-8.2454	0	%100
78	MP5C	Z	4.7605	4.7605	0	%100
79	OVP	X	-7.1283	-7.1283	0	%100
80	OVP	Z	4.1155	4.1155	0	%100
81	M71	X	-2.4953	-2.4953	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
82	M71	Z	1.4407	1.4407	0	%100
83	M74	X	-2.4953	-2.4953	0	%100
84	M74	Z	1.4407	1.4407	0	%100
85	M77	X	-13.093	-13.093	0	%100
86	M77	Z	7.5593	7.5593	0	%100
87	M89	X	-9.9812	-9.9812	0	%100
88	M89	Z	5.7627	5.7627	0	%100
89	M90	X	-3.2733	-3.2733	0	%100
90	M90	Z	1.8898	1.8898	0	%100
91	M91	X	-3.2733	-3.2733	0	%100
92	M91	Z	1.8898	1.8898	0	%100
93	M93A	X	-15.0468	-15.0468	0	%100
94	M93A	Z	8.6873	8.6873	0	%100
95	M94	X	-8.1265	-8.1265	0	%100
96	M94	Z	4.6918	4.6918	0	%100
97	M95	X	-15.0468	-15.0468	0	%100
98	M95	Z	8.6873	8.6873	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	0	0	0	%100
3	M40	X	-11.7156	-11.7156	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	-10.6762	-10.6762	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	-9.5209	-9.5209	0	%100
8	MP1A	Z	0	0	0	%100
9	M112A	X	-2.0367	-2.0367	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	-2.0367	-2.0367	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	0	0	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	0	0	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	0	0	0	%100
19	M16	X	-18.0397	-18.0397	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	-2.9289	-2.9289	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	-2.6691	-2.6691	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	-2.0367	-2.0367	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	-8.1466	-8.1466	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	-18.0397	-18.0397	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-2.9289	-2.9289	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-2.6691	-2.6691	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	-8.1466	-8.1466	0	%100
36	M32A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
37	M33A	X	-2.0367	-2.0367	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	-8.6625	-8.6625	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	-8.6625	-8.6625	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	-8.527	-8.527	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	-8.6625	-8.6625	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	-8.6625	-8.6625	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	-8.527	-8.527	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	-11.5253	-11.5253	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-9.5209	-9.5209	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-9.5209	-9.5209	0	%100
56	MP4A	Z	0	0	0	%100
57	MP5A	X	-9.5209	-9.5209	0	%100
58	MP5A	Z	0	0	0	%100
59	MP1C	X	-9.5209	-9.5209	0	%100
60	MP1C	Z	0	0	0	%100
61	MP1B	X	-9.5209	-9.5209	0	%100
62	MP1B	Z	0	0	0	%100
63	MP2B	X	-11.5253	-11.5253	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	-9.5209	-9.5209	0	%100
66	MP3B	Z	0	0	0	%100
67	MP4B	X	-9.5209	-9.5209	0	%100
68	MP4B	Z	0	0	0	%100
69	MP5B	X	-9.5209	-9.5209	0	%100
70	MP5B	Z	0	0	0	%100
71	MP2C	X	-11.5253	-11.5253	0	%100
72	MP2C	Z	0	0	0	%100
73	MP3C	X	-9.5209	-9.5209	0	%100
74	MP3C	Z	0	0	0	%100
75	MP4C	X	-9.5209	-9.5209	0	%100
76	MP4C	Z	0	0	0	%100
77	MP5C	X	-9.5209	-9.5209	0	%100
78	MP5C	Z	0	0	0	%100
79	OVP	X	-8.2311	-8.2311	0	%100
80	OVP	Z	0	0	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	0	0	0	%100
83	M74	X	-8.644	-8.644	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	-11.3389	-11.3389	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	-8.644	-8.644	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	-11.3389	-11.3389	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	0	0	0	%100
93	M93A	X	-20.0381	-20.0381	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
94	M93A	Z	0	0	0	%100
95	M94	X	-12.0473	-12.0473	0	%100
96	M94	Z	0	0	0	%100
97	M95	X	-12.0473	-12.0473	0	%100
98	M95	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M39	X	-5.2076	-5.2076	0	%100
2	M39	Z	-3.0066	-3.0066	0	%100
3	M40	X	-7.6095	-7.6095	0	%100
4	M40	Z	-4.3933	-4.3933	0	%100
5	M43	X	-6.9344	-6.9344	0	%100
6	M43	Z	-4.0036	-4.0036	0	%100
7	MP1A	X	-8.2454	-8.2454	0	%100
8	MP1A	Z	-4.7605	-4.7605	0	%100
9	M112A	X	-5.2914	-5.2914	0	%100
10	M112A	Z	-3.055	-3.055	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	-2.5007	-2.5007	0	%100
14	M32	Z	-1.4438	-1.4438	0	%100
15	M33	X	-2.5007	-2.5007	0	%100
16	M33	Z	-1.4438	-1.4438	0	%100
17	M34	X	-2.4615	-2.4615	0	%100
18	M34	Z	-1.4212	-1.4212	0	%100
19	M16	X	-5.2076	-5.2076	0	%100
20	M16	Z	-3.0066	-3.0066	0	%100
21	M17	X	-7.6095	-7.6095	0	%100
22	M17	Z	-4.3933	-4.3933	0	%100
23	M18	X	-6.9344	-6.9344	0	%100
24	M18	Z	-4.0036	-4.0036	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	-5.2914	-5.2914	0	%100
28	M23	Z	-3.055	-3.055	0	%100
29	M26	X	-20.8304	-20.8304	0	%100
30	M26	Z	-12.0264	-12.0264	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	-5.2914	-5.2914	0	%100
36	M32A	Z	-3.055	-3.055	0	%100
37	M33A	X	-5.2914	-5.2914	0	%100
38	M33A	Z	-3.055	-3.055	0	%100
39	M36	X	-2.5007	-2.5007	0	%100
40	M36	Z	-1.4438	-1.4438	0	%100
41	M37	X	-2.5007	-2.5007	0	%100
42	M37	Z	-1.4438	-1.4438	0	%100
43	M38	X	-2.4615	-2.4615	0	%100
44	M38	Z	-1.4212	-1.4212	0	%100
45	M39A	X	-10.0026	-10.0026	0	%100
46	M39A	Z	-5.775	-5.775	0	%100
47	M40A	X	-10.0026	-10.0026	0	%100
48	M40A	Z	-5.775	-5.775	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
49	M41	X	-9.8462	-9.8462	0	%100
50	M41	Z	-5.6847	-5.6847	0	%100
51	MP2A	X	-9.9812	-9.9812	0	%100
52	MP2A	Z	-5.7627	-5.7627	0	%100
53	MP3A	X	-8.2454	-8.2454	0	%100
54	MP3A	Z	-4.7605	-4.7605	0	%100
55	MP4A	X	-8.2454	-8.2454	0	%100
56	MP4A	Z	-4.7605	-4.7605	0	%100
57	MP5A	X	-8.2454	-8.2454	0	%100
58	MP5A	Z	-4.7605	-4.7605	0	%100
59	MP1C	X	-8.2454	-8.2454	0	%100
60	MP1C	Z	-4.7605	-4.7605	0	%100
61	MP1B	X	-8.2454	-8.2454	0	%100
62	MP1B	Z	-4.7605	-4.7605	0	%100
63	MP2B	X	-9.9812	-9.9812	0	%100
64	MP2B	Z	-5.7627	-5.7627	0	%100
65	MP3B	X	-8.2454	-8.2454	0	%100
66	MP3B	Z	-4.7605	-4.7605	0	%100
67	MP4B	X	-8.2454	-8.2454	0	%100
68	MP4B	Z	-4.7605	-4.7605	0	%100
69	MP5B	X	-8.2454	-8.2454	0	%100
70	MP5B	Z	-4.7605	-4.7605	0	%100
71	MP2C	X	-9.9812	-9.9812	0	%100
72	MP2C	Z	-5.7627	-5.7627	0	%100
73	MP3C	X	-8.2454	-8.2454	0	%100
74	MP3C	Z	-4.7605	-4.7605	0	%100
75	MP4C	X	-8.2454	-8.2454	0	%100
76	MP4C	Z	-4.7605	-4.7605	0	%100
77	MP5C	X	-8.2454	-8.2454	0	%100
78	MP5C	Z	-4.7605	-4.7605	0	%100
79	OVP	X	-7.1283	-7.1283	0	%100
80	OVP	Z	-4.1155	-4.1155	0	%100
81	M71	X	-2.4953	-2.4953	0	%100
82	M71	Z	-1.4407	-1.4407	0	%100
83	M74	X	-9.9812	-9.9812	0	%100
84	M74	Z	-5.7627	-5.7627	0	%100
85	M77	X	-3.2733	-3.2733	0	%100
86	M77	Z	-1.8898	-1.8898	0	%100
87	M89	X	-2.4953	-2.4953	0	%100
88	M89	Z	-1.4407	-1.4407	0	%100
89	M90	X	-13.093	-13.093	0	%100
90	M90	Z	-7.5593	-7.5593	0	%100
91	M91	X	-3.2733	-3.2733	0	%100
92	M91	Z	-1.8898	-1.8898	0	%100
93	M93A	X	-15.0468	-15.0468	0	%100
94	M93A	Z	-8.6873	-8.6873	0	%100
95	M94	X	-15.0468	-15.0468	0	%100
96	M94	Z	-8.6873	-8.6873	0	%100
97	M95	X	-8.1265	-8.1265	0	%100
98	M95	Z	-4.6918	-4.6918	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-9.0198	-9.0198	0	%100
2	M39	Z	-15.6228	-15.6228	0	%100
3	M40	X	-1.4644	-1.4644	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
4	M40	Z	-2.5365	-2.5365	0	%100
5	M43	X	-1.3345	-1.3345	0	%100
6	M43	Z	-2.3115	-2.3115	0	%100
7	MP1A	X	-4.7605	-4.7605	0	%100
8	MP1A	Z	-8.2454	-8.2454	0	%100
9	M112A	X	-4.0733	-4.0733	0	%100
10	M112A	Z	-7.0552	-7.0552	0	%100
11	M113A	X	-1.0183	-1.0183	0	%100
12	M113A	Z	-1.7638	-1.7638	0	%100
13	M32	X	-4.3313	-4.3313	0	%100
14	M32	Z	-7.502	-7.502	0	%100
15	M33	X	-4.3313	-4.3313	0	%100
16	M33	Z	-7.502	-7.502	0	%100
17	M34	X	-4.2635	-4.2635	0	%100
18	M34	Z	-7.3846	-7.3846	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	-5.8578	-5.8578	0	%100
22	M17	Z	-10.146	-10.146	0	%100
23	M18	X	-5.3381	-5.3381	0	%100
24	M18	Z	-9.2459	-9.2459	0	%100
25	M22	X	-1.0183	-1.0183	0	%100
26	M22	Z	-1.7638	-1.7638	0	%100
27	M23	X	-1.0183	-1.0183	0	%100
28	M23	Z	-1.7638	-1.7638	0	%100
29	M26	X	-9.0198	-9.0198	0	%100
30	M26	Z	-15.6228	-15.6228	0	%100
31	M27	X	-1.4644	-1.4644	0	%100
32	M27	Z	-2.5365	-2.5365	0	%100
33	M28	X	-1.3345	-1.3345	0	%100
34	M28	Z	-2.3115	-2.3115	0	%100
35	M32A	X	-1.0183	-1.0183	0	%100
36	M32A	Z	-1.7638	-1.7638	0	%100
37	M33A	X	-4.0733	-4.0733	0	%100
38	M33A	Z	-7.0552	-7.0552	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	-4.3313	-4.3313	0	%100
46	M39A	Z	-7.502	-7.502	0	%100
47	M40A	X	-4.3313	-4.3313	0	%100
48	M40A	Z	-7.502	-7.502	0	%100
49	M41	X	-4.2635	-4.2635	0	%100
50	M41	Z	-7.3846	-7.3846	0	%100
51	MP2A	X	-5.7627	-5.7627	0	%100
52	MP2A	Z	-9.9812	-9.9812	0	%100
53	MP3A	X	-4.7605	-4.7605	0	%100
54	MP3A	Z	-8.2454	-8.2454	0	%100
55	MP4A	X	-4.7605	-4.7605	0	%100
56	MP4A	Z	-8.2454	-8.2454	0	%100
57	MP5A	X	-4.7605	-4.7605	0	%100
58	MP5A	Z	-8.2454	-8.2454	0	%100
59	MP1C	X	-4.7605	-4.7605	0	%100
60	MP1C	Z	-8.2454	-8.2454	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
61	MP1B	X	-4.7605	-4.7605	0	%100
62	MP1B	Z	-8.2454	-8.2454	0	%100
63	MP2B	X	-5.7627	-5.7627	0	%100
64	MP2B	Z	-9.9812	-9.9812	0	%100
65	MP3B	X	-4.7605	-4.7605	0	%100
66	MP3B	Z	-8.2454	-8.2454	0	%100
67	MP4B	X	-4.7605	-4.7605	0	%100
68	MP4B	Z	-8.2454	-8.2454	0	%100
69	MP5B	X	-4.7605	-4.7605	0	%100
70	MP5B	Z	-8.2454	-8.2454	0	%100
71	MP2C	X	-5.7627	-5.7627	0	%100
72	MP2C	Z	-9.9812	-9.9812	0	%100
73	MP3C	X	-4.7605	-4.7605	0	%100
74	MP3C	Z	-8.2454	-8.2454	0	%100
75	MP4C	X	-4.7605	-4.7605	0	%100
76	MP4C	Z	-8.2454	-8.2454	0	%100
77	MP5C	X	-4.7605	-4.7605	0	%100
78	MP5C	Z	-8.2454	-8.2454	0	%100
79	OVP	X	-4.1155	-4.1155	0	%100
80	OVP	Z	-7.1283	-7.1283	0	%100
81	M71	X	-4.322	-4.322	0	%100
82	M71	Z	-7.4859	-7.4859	0	%100
83	M74	X	-4.322	-4.322	0	%100
84	M74	Z	-7.4859	-7.4859	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	-5.6694	-5.6694	0	%100
90	M90	Z	-9.8198	-9.8198	0	%100
91	M91	X	-5.6694	-5.6694	0	%100
92	M91	Z	-9.8198	-9.8198	0	%100
93	M93A	X	-6.0236	-6.0236	0	%100
94	M93A	Z	-10.4333	-10.4333	0	%100
95	M94	X	-10.0191	-10.0191	0	%100
96	M94	Z	-17.3535	-17.3535	0	%100
97	M95	X	-6.0236	-6.0236	0	%100
98	M95	Z	-10.4333	-10.4333	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	-5.5776	-5.5776	0	%100
3	M40	X	0	0	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-4.0054	-4.0054	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	-2.346	-2.346	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	-2.346	-2.346	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	-4.0086	-4.0086	0	%100
15	M33	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
16	M33	Z	-4.0086	-4.0086	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	-3.9442	-3.9442	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-1.3944	-1.3944	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	-3.082	-3.082	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-2.792	-2.792	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	-2.3459	-2.3459	0	%100
27	M23	X	0	0	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-1.3944	-1.3944	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-3.082	-3.082	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-2.792	-2.792	0	%100
35	M32A	X	0	0	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	-2.3459	-2.3459	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-1.0022	-1.0022	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	-1.0022	-1.0022	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	-986	-986	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	-1.0022	-1.0022	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	-1.0022	-1.0022	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	-986	-986	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-4.3534	-4.3534	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-4.0054	-4.0054	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-4.0054	-4.0054	0	%100
57	MP5A	X	0	0	0	%100
58	MP5A	Z	-4.0054	-4.0054	0	%100
59	MP1C	X	0	0	0	%100
60	MP1C	Z	-4.0054	-4.0054	0	%100
61	MP1B	X	0	0	0	%100
62	MP1B	Z	-4.0054	-4.0054	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-4.3534	-4.3534	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	-4.0054	-4.0054	0	%100
67	MP4B	X	0	0	0	%100
68	MP4B	Z	-4.0054	-4.0054	0	%100
69	MP5B	X	0	0	0	%100
70	MP5B	Z	-4.0054	-4.0054	0	%100
71	MP2C	X	0	0	0	%100
72	MP2C	Z	-4.3534	-4.3534	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
73	MP3C	X	0	0	0	%100
74	MP3C	Z	-4.0054	-4.0054	0	%100
75	MP4C	X	0	0	0	%100
76	MP4C	Z	-4.0054	-4.0054	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	-4.0054	-4.0054	0	%100
79	OVP	X	0	0	0	%100
80	OVP	Z	-3.2402	-3.2402	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	-4.3655	-4.3655	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	-1.0914	-1.0914	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	-1.0728	-1.0728	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	-1.0914	-1.0914	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	-1.0728	-1.0728	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	-4.2911	-4.2911	0	%100
93	M93A	X	0	0	0	%100
94	M93A	Z	-2.2345	-2.2345	0	%100
95	M94	X	0	0	0	%100
96	M94	Z	-4.8446	-4.8446	0	%100
97	M95	X	0	0	0	%100
98	M95	Z	-4.8446	-4.8446	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	2.0916	2.0916	0	%100
2	M39	Z	-3.6227	-3.6227	0	%100
3	M40	X	.5137	.5137	0	%100
4	M40	Z	-.8897	-.8897	0	%100
5	M43	X	.4653	.4653	0	%100
6	M43	Z	-.806	-.806	0	%100
7	MP1A	X	2.0027	2.0027	0	%100
8	MP1A	Z	-3.4688	-3.4688	0	%100
9	M112A	X	.391	.391	0	%100
10	M112A	Z	-.6772	-.6772	0	%100
11	M113A	X	1.564	1.564	0	%100
12	M113A	Z	-2.7089	-2.7089	0	%100
13	M32	X	1.5032	1.5032	0	%100
14	M32	Z	-2.6037	-2.6037	0	%100
15	M33	X	1.5032	1.5032	0	%100
16	M33	Z	-2.6037	-2.6037	0	%100
17	M34	X	1.4791	1.4791	0	%100
18	M34	Z	-2.5618	-2.5618	0	%100
19	M16	X	2.0916	2.0916	0	%100
20	M16	Z	-3.6227	-3.6227	0	%100
21	M17	X	.5137	.5137	0	%100
22	M17	Z	-.8897	-.8897	0	%100
23	M18	X	.4653	.4653	0	%100
24	M18	Z	-.806	-.806	0	%100
25	M22	X	1.564	1.564	0	%100
26	M22	Z	-2.7089	-2.7089	0	%100
27	M23	X	.391	.391	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
28	M23	Z	-6772	-6772	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	2.0547	2.0547	0	%100
32	M27	Z	-3.5588	-3.5588	0	%100
33	M28	X	1.8613	1.8613	0	%100
34	M28	Z	-3.2239	-3.2239	0	%100
35	M32A	X	.391	.391	0	%100
36	M32A	Z	-6772	-6772	0	%100
37	M33A	X	.391	.391	0	%100
38	M33A	Z	-6772	-6772	0	%100
39	M36	X	1.5032	1.5032	0	%100
40	M36	Z	-2.6037	-2.6037	0	%100
41	M37	X	1.5032	1.5032	0	%100
42	M37	Z	-2.6037	-2.6037	0	%100
43	M38	X	1.4791	1.4791	0	%100
44	M38	Z	-2.5618	-2.5618	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	2.1767	2.1767	0	%100
52	MP2A	Z	-3.7701	-3.7701	0	%100
53	MP3A	X	2.0027	2.0027	0	%100
54	MP3A	Z	-3.4688	-3.4688	0	%100
55	MP4A	X	2.0027	2.0027	0	%100
56	MP4A	Z	-3.4688	-3.4688	0	%100
57	MP5A	X	2.0027	2.0027	0	%100
58	MP5A	Z	-3.4688	-3.4688	0	%100
59	MP1C	X	2.0027	2.0027	0	%100
60	MP1C	Z	-3.4688	-3.4688	0	%100
61	MP1B	X	2.0027	2.0027	0	%100
62	MP1B	Z	-3.4688	-3.4688	0	%100
63	MP2B	X	2.1767	2.1767	0	%100
64	MP2B	Z	-3.7701	-3.7701	0	%100
65	MP3B	X	2.0027	2.0027	0	%100
66	MP3B	Z	-3.4688	-3.4688	0	%100
67	MP4B	X	2.0027	2.0027	0	%100
68	MP4B	Z	-3.4688	-3.4688	0	%100
69	MP5B	X	2.0027	2.0027	0	%100
70	MP5B	Z	-3.4688	-3.4688	0	%100
71	MP2C	X	2.1767	2.1767	0	%100
72	MP2C	Z	-3.7701	-3.7701	0	%100
73	MP3C	X	2.0027	2.0027	0	%100
74	MP3C	Z	-3.4688	-3.4688	0	%100
75	MP4C	X	2.0027	2.0027	0	%100
76	MP4C	Z	-3.4688	-3.4688	0	%100
77	MP5C	X	2.0027	2.0027	0	%100
78	MP5C	Z	-3.4688	-3.4688	0	%100
79	OVP	X	1.6201	1.6201	0	%100
80	OVP	Z	-2.8061	-2.8061	0	%100
81	M71	X	1.637	1.637	0	%100
82	M71	Z	-2.8354	-2.8354	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
85	M77	X	1.6092	1.6092	0	%100
86	M77	Z	-2.7872	-2.7872	0	%100
87	M89	X	1.637	1.637	0	%100
88	M89	Z	-2.8354	-2.8354	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	1.6092	1.6092	0	%100
92	M91	Z	-2.7872	-2.7872	0	%100
93	M93A	X	1.5523	1.5523	0	%100
94	M93A	Z	-2.6886	-2.6886	0	%100
95	M94	X	1.5523	1.5523	0	%100
96	M94	Z	-2.6886	-2.6886	0	%100
97	M95	X	2.8573	2.8573	0	%100
98	M95	Z	-4.949	-4.949	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	1.2076	1.2076	0	%100
2	M39	Z	-.6972	-.6972	0	%100
3	M40	X	2.6691	2.6691	0	%100
4	M40	Z	-1.541	-1.541	0	%100
5	M43	X	2.4179	2.4179	0	%100
6	M43	Z	-1.396	-1.396	0	%100
7	MP1A	X	3.4688	3.4688	0	%100
8	MP1A	Z	-2.0027	-2.0027	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	2.0317	2.0317	0	%100
12	M113A	Z	-1.173	-1.173	0	%100
13	M32	X	.8679	.8679	0	%100
14	M32	Z	-.5011	-.5011	0	%100
15	M33	X	.8679	.8679	0	%100
16	M33	Z	-.5011	-.5011	0	%100
17	M34	X	.8539	.8539	0	%100
18	M34	Z	-.493	-.493	0	%100
19	M16	X	4.8303	4.8303	0	%100
20	M16	Z	-2.7888	-2.7888	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	2.0317	2.0317	0	%100
26	M22	Z	-1.173	-1.173	0	%100
27	M23	X	2.0317	2.0317	0	%100
28	M23	Z	-1.173	-1.173	0	%100
29	M26	X	1.2076	1.2076	0	%100
30	M26	Z	-.6972	-.6972	0	%100
31	M27	X	2.6691	2.6691	0	%100
32	M27	Z	-1.541	-1.541	0	%100
33	M28	X	2.4179	2.4179	0	%100
34	M28	Z	-1.396	-1.396	0	%100
35	M32A	X	2.0317	2.0317	0	%100
36	M32A	Z	-1.173	-1.173	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	3.4716	3.4716	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
40	M36	Z	-2.0043	-2.0043	0	%100
41	M37	X	3.4716	3.4716	0	%100
42	M37	Z	-2.0043	-2.0043	0	%100
43	M38	X	3.4158	3.4158	0	%100
44	M38	Z	-1.9721	-1.9721	0	%100
45	M39A	X	.8679	.8679	0	%100
46	M39A	Z	-.5011	-.5011	0	%100
47	M40A	X	.8679	.8679	0	%100
48	M40A	Z	-.5011	-.5011	0	%100
49	M41	X	.8539	.8539	0	%100
50	M41	Z	-.493	-.493	0	%100
51	MP2A	X	3.7701	3.7701	0	%100
52	MP2A	Z	-2.1767	-2.1767	0	%100
53	MP3A	X	3.4688	3.4688	0	%100
54	MP3A	Z	-2.0027	-2.0027	0	%100
55	MP4A	X	3.4688	3.4688	0	%100
56	MP4A	Z	-2.0027	-2.0027	0	%100
57	MP5A	X	3.4688	3.4688	0	%100
58	MP5A	Z	-2.0027	-2.0027	0	%100
59	MP1C	X	3.4688	3.4688	0	%100
60	MP1C	Z	-2.0027	-2.0027	0	%100
61	MP1B	X	3.4688	3.4688	0	%100
62	MP1B	Z	-2.0027	-2.0027	0	%100
63	MP2B	X	3.7701	3.7701	0	%100
64	MP2B	Z	-2.1767	-2.1767	0	%100
65	MP3B	X	3.4688	3.4688	0	%100
66	MP3B	Z	-2.0027	-2.0027	0	%100
67	MP4B	X	3.4688	3.4688	0	%100
68	MP4B	Z	-2.0027	-2.0027	0	%100
69	MP5B	X	3.4688	3.4688	0	%100
70	MP5B	Z	-2.0027	-2.0027	0	%100
71	MP2C	X	3.7701	3.7701	0	%100
72	MP2C	Z	-2.1767	-2.1767	0	%100
73	MP3C	X	3.4688	3.4688	0	%100
74	MP3C	Z	-2.0027	-2.0027	0	%100
75	MP4C	X	3.4688	3.4688	0	%100
76	MP4C	Z	-2.0027	-2.0027	0	%100
77	MP5C	X	3.4688	3.4688	0	%100
78	MP5C	Z	-2.0027	-2.0027	0	%100
79	OVP	X	2.8061	2.8061	0	%100
80	OVP	Z	-1.6201	-1.6201	0	%100
81	M71	X	.9451	.9451	0	%100
82	M71	Z	-.5457	-.5457	0	%100
83	M74	X	.9451	.9451	0	%100
84	M74	Z	-.5457	-.5457	0	%100
85	M77	X	3.7162	3.7162	0	%100
86	M77	Z	-2.1456	-2.1456	0	%100
87	M89	X	3.7806	3.7806	0	%100
88	M89	Z	-2.1827	-2.1827	0	%100
89	M90	X	.9291	.9291	0	%100
90	M90	Z	-.5364	-.5364	0	%100
91	M91	X	.9291	.9291	0	%100
92	M91	Z	-.5364	-.5364	0	%100
93	M93A	X	4.1955	4.1955	0	%100
94	M93A	Z	-2.4223	-2.4223	0	%100
95	M94	X	1.9352	1.9352	0	%100
96	M94	Z	-1.1173	-1.1173	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
97	M95	X	4.1955	4.1955	0	%100
98	M95	Z	-2.4223	-2.4223	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	0	0	0	%100
3	M40	X	4.1093	4.1093	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	3.7227	3.7227	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	4.0054	4.0054	0	%100
8	MP1A	Z	0	0	0	%100
9	M112A	X	.782	.782	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	.782	.782	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	0	0	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	0	0	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	0	0	0	%100
19	M16	X	4.1832	4.1832	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	1.0273	1.0273	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	.9307	.9307	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	.782	.782	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	3.1279	3.1279	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	4.1832	4.1832	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	1.0273	1.0273	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.9307	.9307	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	3.1279	3.1279	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	.782	.782	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	3.0065	3.0065	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	3.0065	3.0065	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	2.9581	2.9581	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	3.0065	3.0065	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	3.0065	3.0065	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	2.9581	2.9581	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	4.3534	4.3534	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
52	MP2A	Z	0	0	0	%100
53	MP3A	X	4.0054	4.0054	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	4.0054	4.0054	0	%100
56	MP4A	Z	0	0	0	%100
57	MP5A	X	4.0054	4.0054	0	%100
58	MP5A	Z	0	0	0	%100
59	MP1C	X	4.0054	4.0054	0	%100
60	MP1C	Z	0	0	0	%100
61	MP1B	X	4.0054	4.0054	0	%100
62	MP1B	Z	0	0	0	%100
63	MP2B	X	4.3534	4.3534	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	4.0054	4.0054	0	%100
66	MP3B	Z	0	0	0	%100
67	MP4B	X	4.0054	4.0054	0	%100
68	MP4B	Z	0	0	0	%100
69	MP5B	X	4.0054	4.0054	0	%100
70	MP5B	Z	0	0	0	%100
71	MP2C	X	4.3534	4.3534	0	%100
72	MP2C	Z	0	0	0	%100
73	MP3C	X	4.0054	4.0054	0	%100
74	MP3C	Z	0	0	0	%100
75	MP4C	X	4.0054	4.0054	0	%100
76	MP4C	Z	0	0	0	%100
77	MP5C	X	4.0054	4.0054	0	%100
78	MP5C	Z	0	0	0	%100
79	OVP	X	3.2402	3.2402	0	%100
80	OVP	Z	0	0	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	0	0	0	%100
83	M74	X	3.2741	3.2741	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	3.2183	3.2183	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	3.2741	3.2741	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	3.2183	3.2183	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	0	0	0	%100
93	M93A	X	5.7146	5.7146	0	%100
94	M93A	Z	0	0	0	%100
95	M94	X	3.1046	3.1046	0	%100
96	M94	Z	0	0	0	%100
97	M95	X	3.1046	3.1046	0	%100
98	M95	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	1.2076	1.2076	0	%100
2	M39	Z	.6972	.6972	0	%100
3	M40	X	2.6691	2.6691	0	%100
4	M40	Z	1.541	1.541	0	%100
5	M43	X	2.4179	2.4179	0	%100
6	M43	Z	1.396	1.396	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
7	MP1A	X	3.4688	3.4688	0	%100
8	MP1A	Z	2.0027	2.0027	0	%100
9	M112A	X	2.0317	2.0317	0	%100
10	M112A	Z	1.173	1.173	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	.8679	.8679	0	%100
14	M32	Z	.5011	.5011	0	%100
15	M33	X	.8679	.8679	0	%100
16	M33	Z	.5011	.5011	0	%100
17	M34	X	.8539	.8539	0	%100
18	M34	Z	.493	.493	0	%100
19	M16	X	1.2076	1.2076	0	%100
20	M16	Z	.6972	.6972	0	%100
21	M17	X	2.6691	2.6691	0	%100
22	M17	Z	1.541	1.541	0	%100
23	M18	X	2.4179	2.4179	0	%100
24	M18	Z	1.396	1.396	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	2.0317	2.0317	0	%100
28	M23	Z	1.173	1.173	0	%100
29	M26	X	4.8303	4.8303	0	%100
30	M26	Z	2.7888	2.7888	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	2.0317	2.0317	0	%100
36	M32A	Z	1.173	1.173	0	%100
37	M33A	X	2.0317	2.0317	0	%100
38	M33A	Z	1.173	1.173	0	%100
39	M36	X	.8679	.8679	0	%100
40	M36	Z	.5011	.5011	0	%100
41	M37	X	.8679	.8679	0	%100
42	M37	Z	.5011	.5011	0	%100
43	M38	X	.8539	.8539	0	%100
44	M38	Z	.493	.493	0	%100
45	M39A	X	3.4716	3.4716	0	%100
46	M39A	Z	2.0043	2.0043	0	%100
47	M40A	X	3.4716	3.4716	0	%100
48	M40A	Z	2.0043	2.0043	0	%100
49	M41	X	3.4158	3.4158	0	%100
50	M41	Z	1.9721	1.9721	0	%100
51	MP2A	X	3.7701	3.7701	0	%100
52	MP2A	Z	2.1767	2.1767	0	%100
53	MP3A	X	3.4688	3.4688	0	%100
54	MP3A	Z	2.0027	2.0027	0	%100
55	MP4A	X	3.4688	3.4688	0	%100
56	MP4A	Z	2.0027	2.0027	0	%100
57	MP5A	X	3.4688	3.4688	0	%100
58	MP5A	Z	2.0027	2.0027	0	%100
59	MP1C	X	3.4688	3.4688	0	%100
60	MP1C	Z	2.0027	2.0027	0	%100
61	MP1B	X	3.4688	3.4688	0	%100
62	MP1B	Z	2.0027	2.0027	0	%100
63	MP2B	X	3.7701	3.7701	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
64	MP2B	Z	2.1767	2.1767	0	%100
65	MP3B	X	3.4688	3.4688	0	%100
66	MP3B	Z	2.0027	2.0027	0	%100
67	MP4B	X	3.4688	3.4688	0	%100
68	MP4B	Z	2.0027	2.0027	0	%100
69	MP5B	X	3.4688	3.4688	0	%100
70	MP5B	Z	2.0027	2.0027	0	%100
71	MP2C	X	3.7701	3.7701	0	%100
72	MP2C	Z	2.1767	2.1767	0	%100
73	MP3C	X	3.4688	3.4688	0	%100
74	MP3C	Z	2.0027	2.0027	0	%100
75	MP4C	X	3.4688	3.4688	0	%100
76	MP4C	Z	2.0027	2.0027	0	%100
77	MP5C	X	3.4688	3.4688	0	%100
78	MP5C	Z	2.0027	2.0027	0	%100
79	OVP	X	2.8061	2.8061	0	%100
80	OVP	Z	1.6201	1.6201	0	%100
81	M71	X	.9451	.9451	0	%100
82	M71	Z	.5457	.5457	0	%100
83	M74	X	3.7806	3.7806	0	%100
84	M74	Z	2.1827	2.1827	0	%100
85	M77	X	.9291	.9291	0	%100
86	M77	Z	.5364	.5364	0	%100
87	M89	X	.9451	.9451	0	%100
88	M89	Z	.5457	.5457	0	%100
89	M90	X	3.7162	3.7162	0	%100
90	M90	Z	2.1456	2.1456	0	%100
91	M91	X	.9291	.9291	0	%100
92	M91	Z	.5364	.5364	0	%100
93	M93A	X	4.1955	4.1955	0	%100
94	M93A	Z	2.4223	2.4223	0	%100
95	M94	X	4.1955	4.1955	0	%100
96	M94	Z	2.4223	2.4223	0	%100
97	M95	X	1.9352	1.9352	0	%100
98	M95	Z	1.1173	1.1173	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M39	X	2.0916	2.0916	0	%100
2	M39	Z	3.6227	3.6227	0	%100
3	M40	X	.5137	.5137	0	%100
4	M40	Z	.8897	.8897	0	%100
5	M43	X	.4653	.4653	0	%100
6	M43	Z	.806	.806	0	%100
7	MP1A	X	2.0027	2.0027	0	%100
8	MP1A	Z	3.4688	3.4688	0	%100
9	M112A	X	1.564	1.564	0	%100
10	M112A	Z	2.7089	2.7089	0	%100
11	M113A	X	.391	.391	0	%100
12	M113A	Z	.6772	.6772	0	%100
13	M32	X	1.5032	1.5032	0	%100
14	M32	Z	2.6037	2.6037	0	%100
15	M33	X	1.5032	1.5032	0	%100
16	M33	Z	2.6037	2.6037	0	%100
17	M34	X	1.4791	1.4791	0	%100
18	M34	Z	2.5618	2.5618	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	2.0547	2.0547	0	%100
22	M17	Z	3.5588	3.5588	0	%100
23	M18	X	1.8613	1.8613	0	%100
24	M18	Z	3.2239	3.2239	0	%100
25	M22	X	.391	.391	0	%100
26	M22	Z	.6772	.6772	0	%100
27	M23	X	.391	.391	0	%100
28	M23	Z	.6772	.6772	0	%100
29	M26	X	2.0916	2.0916	0	%100
30	M26	Z	3.6227	3.6227	0	%100
31	M27	X	.5137	.5137	0	%100
32	M27	Z	.8897	.8897	0	%100
33	M28	X	.4653	.4653	0	%100
34	M28	Z	.806	.806	0	%100
35	M32A	X	.391	.391	0	%100
36	M32A	Z	.6772	.6772	0	%100
37	M33A	X	1.564	1.564	0	%100
38	M33A	Z	2.7089	2.7089	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	1.5032	1.5032	0	%100
46	M39A	Z	2.6037	2.6037	0	%100
47	M40A	X	1.5032	1.5032	0	%100
48	M40A	Z	2.6037	2.6037	0	%100
49	M41	X	1.4791	1.4791	0	%100
50	M41	Z	2.5618	2.5618	0	%100
51	MP2A	X	2.1767	2.1767	0	%100
52	MP2A	Z	3.7701	3.7701	0	%100
53	MP3A	X	2.0027	2.0027	0	%100
54	MP3A	Z	3.4688	3.4688	0	%100
55	MP4A	X	2.0027	2.0027	0	%100
56	MP4A	Z	3.4688	3.4688	0	%100
57	MP5A	X	2.0027	2.0027	0	%100
58	MP5A	Z	3.4688	3.4688	0	%100
59	MP1C	X	2.0027	2.0027	0	%100
60	MP1C	Z	3.4688	3.4688	0	%100
61	MP1B	X	2.0027	2.0027	0	%100
62	MP1B	Z	3.4688	3.4688	0	%100
63	MP2B	X	2.1767	2.1767	0	%100
64	MP2B	Z	3.7701	3.7701	0	%100
65	MP3B	X	2.0027	2.0027	0	%100
66	MP3B	Z	3.4688	3.4688	0	%100
67	MP4B	X	2.0027	2.0027	0	%100
68	MP4B	Z	3.4688	3.4688	0	%100
69	MP5B	X	2.0027	2.0027	0	%100
70	MP5B	Z	3.4688	3.4688	0	%100
71	MP2C	X	2.1767	2.1767	0	%100
72	MP2C	Z	3.7701	3.7701	0	%100
73	MP3C	X	2.0027	2.0027	0	%100
74	MP3C	Z	3.4688	3.4688	0	%100
75	MP4C	X	2.0027	2.0027	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
76	MP4C	Z	3.4688	3.4688	0	%100
77	MP5C	X	2.0027	2.0027	0	%100
78	MP5C	Z	3.4688	3.4688	0	%100
79	OVP	X	1.6201	1.6201	0	%100
80	OVP	Z	2.8061	2.8061	0	%100
81	M71	X	1.637	1.637	0	%100
82	M71	Z	2.8354	2.8354	0	%100
83	M74	X	1.637	1.637	0	%100
84	M74	Z	2.8354	2.8354	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	1.6092	1.6092	0	%100
90	M90	Z	2.7872	2.7872	0	%100
91	M91	X	1.6092	1.6092	0	%100
92	M91	Z	2.7872	2.7872	0	%100
93	M93A	X	1.5523	1.5523	0	%100
94	M93A	Z	2.6886	2.6886	0	%100
95	M94	X	2.8573	2.8573	0	%100
96	M94	Z	4.949	4.949	0	%100
97	M95	X	1.5523	1.5523	0	%100
98	M95	Z	2.6886	2.6886	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	5.5776	5.5776	0	%100
3	M40	X	0	0	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	4.0054	4.0054	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	2.346	2.346	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	2.346	2.346	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	4.0086	4.0086	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	4.0086	4.0086	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	3.9442	3.9442	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	1.3944	1.3944	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	3.082	3.082	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	2.792	2.792	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	2.3459	2.3459	0	%100
27	M23	X	0	0	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	1.3944	1.3944	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
31	M27	X	0	0	0	%100
32	M27	Z	3.082	3.082	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	2.792	2.792	0	%100
35	M32A	X	0	0	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	2.3459	2.3459	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	1.0022	1.0022	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	1.0022	1.0022	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	.986	.986	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	1.0022	1.0022	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	1.0022	1.0022	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	.986	.986	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	4.3534	4.3534	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	4.0054	4.0054	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	4.0054	4.0054	0	%100
57	MP5A	X	0	0	0	%100
58	MP5A	Z	4.0054	4.0054	0	%100
59	MP1C	X	0	0	0	%100
60	MP1C	Z	4.0054	4.0054	0	%100
61	MP1B	X	0	0	0	%100
62	MP1B	Z	4.0054	4.0054	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	4.3534	4.3534	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	4.0054	4.0054	0	%100
67	MP4B	X	0	0	0	%100
68	MP4B	Z	4.0054	4.0054	0	%100
69	MP5B	X	0	0	0	%100
70	MP5B	Z	4.0054	4.0054	0	%100
71	MP2C	X	0	0	0	%100
72	MP2C	Z	4.3534	4.3534	0	%100
73	MP3C	X	0	0	0	%100
74	MP3C	Z	4.0054	4.0054	0	%100
75	MP4C	X	0	0	0	%100
76	MP4C	Z	4.0054	4.0054	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	4.0054	4.0054	0	%100
79	OVP	X	0	0	0	%100
80	OVP	Z	3.2402	3.2402	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	4.3655	4.3655	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	1.0914	1.0914	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	1.0728	1.0728	0	%100
87	M89	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
88	M89	Z	1.0914	1.0914	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	1.0728	1.0728	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	4.2911	4.2911	0	%100
93	M93A	X	0	0	0	%100
94	M93A	Z	2.2345	2.2345	0	%100
95	M94	X	0	0	0	%100
96	M94	Z	4.8446	4.8446	0	%100
97	M95	X	0	0	0	%100
98	M95	Z	4.8446	4.8446	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-2.0916	-2.0916	0	%100
2	M39	Z	3.6227	3.6227	0	%100
3	M40	X	-.5137	-.5137	0	%100
4	M40	Z	.8897	.8897	0	%100
5	M43	X	-.4653	-.4653	0	%100
6	M43	Z	.806	.806	0	%100
7	MP1A	X	-2.0027	-2.0027	0	%100
8	MP1A	Z	3.4688	3.4688	0	%100
9	M112A	X	-.391	-.391	0	%100
10	M112A	Z	.6772	.6772	0	%100
11	M113A	X	-1.564	-1.564	0	%100
12	M113A	Z	2.7089	2.7089	0	%100
13	M32	X	-1.5032	-1.5032	0	%100
14	M32	Z	2.6037	2.6037	0	%100
15	M33	X	-1.5032	-1.5032	0	%100
16	M33	Z	2.6037	2.6037	0	%100
17	M34	X	-1.4791	-1.4791	0	%100
18	M34	Z	2.5618	2.5618	0	%100
19	M16	X	-2.0916	-2.0916	0	%100
20	M16	Z	3.6227	3.6227	0	%100
21	M17	X	-.5137	-.5137	0	%100
22	M17	Z	.8897	.8897	0	%100
23	M18	X	-.4653	-.4653	0	%100
24	M18	Z	.806	.806	0	%100
25	M22	X	-1.564	-1.564	0	%100
26	M22	Z	2.7089	2.7089	0	%100
27	M23	X	-.391	-.391	0	%100
28	M23	Z	.6772	.6772	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-2.0547	-2.0547	0	%100
32	M27	Z	3.5588	3.5588	0	%100
33	M28	X	-1.8613	-1.8613	0	%100
34	M28	Z	3.2239	3.2239	0	%100
35	M32A	X	-.391	-.391	0	%100
36	M32A	Z	.6772	.6772	0	%100
37	M33A	X	-.391	-.391	0	%100
38	M33A	Z	.6772	.6772	0	%100
39	M36	X	-1.5032	-1.5032	0	%100
40	M36	Z	2.6037	2.6037	0	%100
41	M37	X	-1.5032	-1.5032	0	%100
42	M37	Z	2.6037	2.6037	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
43	M38	X	-1.4791	-1.4791	0	%100
44	M38	Z	2.5618	2.5618	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	-2.1767	-2.1767	0	%100
52	MP2A	Z	3.7701	3.7701	0	%100
53	MP3A	X	-2.0027	-2.0027	0	%100
54	MP3A	Z	3.4688	3.4688	0	%100
55	MP4A	X	-2.0027	-2.0027	0	%100
56	MP4A	Z	3.4688	3.4688	0	%100
57	MP5A	X	-2.0027	-2.0027	0	%100
58	MP5A	Z	3.4688	3.4688	0	%100
59	MP1C	X	-2.0027	-2.0027	0	%100
60	MP1C	Z	3.4688	3.4688	0	%100
61	MP1B	X	-2.0027	-2.0027	0	%100
62	MP1B	Z	3.4688	3.4688	0	%100
63	MP2B	X	-2.1767	-2.1767	0	%100
64	MP2B	Z	3.7701	3.7701	0	%100
65	MP3B	X	-2.0027	-2.0027	0	%100
66	MP3B	Z	3.4688	3.4688	0	%100
67	MP4B	X	-2.0027	-2.0027	0	%100
68	MP4B	Z	3.4688	3.4688	0	%100
69	MP5B	X	-2.0027	-2.0027	0	%100
70	MP5B	Z	3.4688	3.4688	0	%100
71	MP2C	X	-2.1767	-2.1767	0	%100
72	MP2C	Z	3.7701	3.7701	0	%100
73	MP3C	X	-2.0027	-2.0027	0	%100
74	MP3C	Z	3.4688	3.4688	0	%100
75	MP4C	X	-2.0027	-2.0027	0	%100
76	MP4C	Z	3.4688	3.4688	0	%100
77	MP5C	X	-2.0027	-2.0027	0	%100
78	MP5C	Z	3.4688	3.4688	0	%100
79	OVP	X	-1.6201	-1.6201	0	%100
80	OVP	Z	2.8061	2.8061	0	%100
81	M71	X	-1.637	-1.637	0	%100
82	M71	Z	2.8354	2.8354	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	-1.6092	-1.6092	0	%100
86	M77	Z	2.7872	2.7872	0	%100
87	M89	X	-1.637	-1.637	0	%100
88	M89	Z	2.8354	2.8354	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	-1.6092	-1.6092	0	%100
92	M91	Z	2.7872	2.7872	0	%100
93	M93A	X	-1.5523	-1.5523	0	%100
94	M93A	Z	2.6886	2.6886	0	%100
95	M94	X	-1.5523	-1.5523	0	%100
96	M94	Z	2.6886	2.6886	0	%100
97	M95	X	-2.8573	-2.8573	0	%100
98	M95	Z	4.949	4.949	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-1.2076	-1.2076	0	%100
2	M39	Z	.6972	.6972	0	%100
3	M40	X	-2.6691	-2.6691	0	%100
4	M40	Z	1.541	1.541	0	%100
5	M43	X	-2.4179	-2.4179	0	%100
6	M43	Z	1.396	1.396	0	%100
7	MP1A	X	-3.4688	-3.4688	0	%100
8	MP1A	Z	2.0027	2.0027	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	-2.0317	-2.0317	0	%100
12	M113A	Z	1.173	1.173	0	%100
13	M32	X	-.8679	-.8679	0	%100
14	M32	Z	.5011	.5011	0	%100
15	M33	X	-.8679	-.8679	0	%100
16	M33	Z	.5011	.5011	0	%100
17	M34	X	-.8539	-.8539	0	%100
18	M34	Z	.493	.493	0	%100
19	M16	X	-4.8303	-4.8303	0	%100
20	M16	Z	2.7888	2.7888	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	-2.0317	-2.0317	0	%100
26	M22	Z	1.173	1.173	0	%100
27	M23	X	-2.0317	-2.0317	0	%100
28	M23	Z	1.173	1.173	0	%100
29	M26	X	-1.2076	-1.2076	0	%100
30	M26	Z	.6972	.6972	0	%100
31	M27	X	-2.6691	-2.6691	0	%100
32	M27	Z	1.541	1.541	0	%100
33	M28	X	-2.4179	-2.4179	0	%100
34	M28	Z	1.396	1.396	0	%100
35	M32A	X	-2.0317	-2.0317	0	%100
36	M32A	Z	1.173	1.173	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	-3.4716	-3.4716	0	%100
40	M36	Z	2.0043	2.0043	0	%100
41	M37	X	-3.4716	-3.4716	0	%100
42	M37	Z	2.0043	2.0043	0	%100
43	M38	X	-3.4158	-3.4158	0	%100
44	M38	Z	1.9721	1.9721	0	%100
45	M39A	X	-.8679	-.8679	0	%100
46	M39A	Z	.5011	.5011	0	%100
47	M40A	X	-.8679	-.8679	0	%100
48	M40A	Z	.5011	.5011	0	%100
49	M41	X	-.8539	-.8539	0	%100
50	M41	Z	.493	.493	0	%100
51	MP2A	X	-3.7701	-3.7701	0	%100
52	MP2A	Z	2.1767	2.1767	0	%100
53	MP3A	X	-3.4688	-3.4688	0	%100
54	MP3A	Z	2.0027	2.0027	0	%100
55	MP4A	X	-3.4688	-3.4688	0	%100
56	MP4A	Z	2.0027	2.0027	0	%100
57	MP5A	X	-3.4688	-3.4688	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
58	MP5A	Z	2.0027	2.0027	0	%100
59	MP1C	X	-3.4688	-3.4688	0	%100
60	MP1C	Z	2.0027	2.0027	0	%100
61	MP1B	X	-3.4688	-3.4688	0	%100
62	MP1B	Z	2.0027	2.0027	0	%100
63	MP2B	X	-3.7701	-3.7701	0	%100
64	MP2B	Z	2.1767	2.1767	0	%100
65	MP3B	X	-3.4688	-3.4688	0	%100
66	MP3B	Z	2.0027	2.0027	0	%100
67	MP4B	X	-3.4688	-3.4688	0	%100
68	MP4B	Z	2.0027	2.0027	0	%100
69	MP5B	X	-3.4688	-3.4688	0	%100
70	MP5B	Z	2.0027	2.0027	0	%100
71	MP2C	X	-3.7701	-3.7701	0	%100
72	MP2C	Z	2.1767	2.1767	0	%100
73	MP3C	X	-3.4688	-3.4688	0	%100
74	MP3C	Z	2.0027	2.0027	0	%100
75	MP4C	X	-3.4688	-3.4688	0	%100
76	MP4C	Z	2.0027	2.0027	0	%100
77	MP5C	X	-3.4688	-3.4688	0	%100
78	MP5C	Z	2.0027	2.0027	0	%100
79	OVP	X	-2.8061	-2.8061	0	%100
80	OVP	Z	1.6201	1.6201	0	%100
81	M71	X	-.9451	-.9451	0	%100
82	M71	Z	.5457	.5457	0	%100
83	M74	X	-.9451	-.9451	0	%100
84	M74	Z	.5457	.5457	0	%100
85	M77	X	-3.7162	-3.7162	0	%100
86	M77	Z	2.1456	2.1456	0	%100
87	M89	X	-3.7806	-3.7806	0	%100
88	M89	Z	2.1827	2.1827	0	%100
89	M90	X	-.9291	-.9291	0	%100
90	M90	Z	.5364	.5364	0	%100
91	M91	X	-.9291	-.9291	0	%100
92	M91	Z	.5364	.5364	0	%100
93	M93A	X	-4.1955	-4.1955	0	%100
94	M93A	Z	2.4223	2.4223	0	%100
95	M94	X	-1.9352	-1.9352	0	%100
96	M94	Z	1.1173	1.1173	0	%100
97	M95	X	-4.1955	-4.1955	0	%100
98	M95	Z	2.4223	2.4223	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	0	0	0	%100
3	M40	X	-4.1093	-4.1093	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	-3.7227	-3.7227	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	-4.0054	-4.0054	0	%100
8	MP1A	Z	0	0	0	%100
9	M112A	X	-.782	-.782	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	-.782	-.782	0	%100
12	M113A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]	
13	M32	X	0	0	0	0	%100
14	M32	Z	0	0	0	0	%100
15	M33	X	0	0	0	0	%100
16	M33	Z	0	0	0	0	%100
17	M34	X	0	0	0	0	%100
18	M34	Z	0	0	0	0	%100
19	M16	X	-4.1832	-4.1832	0	0	%100
20	M16	Z	0	0	0	0	%100
21	M17	X	-1.0273	-1.0273	0	0	%100
22	M17	Z	0	0	0	0	%100
23	M18	X	-0.9307	-0.9307	0	0	%100
24	M18	Z	0	0	0	0	%100
25	M22	X	-0.782	-0.782	0	0	%100
26	M22	Z	0	0	0	0	%100
27	M23	X	-3.1279	-3.1279	0	0	%100
28	M23	Z	0	0	0	0	%100
29	M26	X	-4.1832	-4.1832	0	0	%100
30	M26	Z	0	0	0	0	%100
31	M27	X	-1.0273	-1.0273	0	0	%100
32	M27	Z	0	0	0	0	%100
33	M28	X	-0.9307	-0.9307	0	0	%100
34	M28	Z	0	0	0	0	%100
35	M32A	X	-3.1279	-3.1279	0	0	%100
36	M32A	Z	0	0	0	0	%100
37	M33A	X	-0.782	-0.782	0	0	%100
38	M33A	Z	0	0	0	0	%100
39	M36	X	-3.0065	-3.0065	0	0	%100
40	M36	Z	0	0	0	0	%100
41	M37	X	-3.0065	-3.0065	0	0	%100
42	M37	Z	0	0	0	0	%100
43	M38	X	-2.9581	-2.9581	0	0	%100
44	M38	Z	0	0	0	0	%100
45	M39A	X	-3.0065	-3.0065	0	0	%100
46	M39A	Z	0	0	0	0	%100
47	M40A	X	-3.0065	-3.0065	0	0	%100
48	M40A	Z	0	0	0	0	%100
49	M41	X	-2.9581	-2.9581	0	0	%100
50	M41	Z	0	0	0	0	%100
51	MP2A	X	-4.3534	-4.3534	0	0	%100
52	MP2A	Z	0	0	0	0	%100
53	MP3A	X	-4.0054	-4.0054	0	0	%100
54	MP3A	Z	0	0	0	0	%100
55	MP4A	X	-4.0054	-4.0054	0	0	%100
56	MP4A	Z	0	0	0	0	%100
57	MP5A	X	-4.0054	-4.0054	0	0	%100
58	MP5A	Z	0	0	0	0	%100
59	MP1C	X	-4.0054	-4.0054	0	0	%100
60	MP1C	Z	0	0	0	0	%100
61	MP1B	X	-4.0054	-4.0054	0	0	%100
62	MP1B	Z	0	0	0	0	%100
63	MP2B	X	-4.3534	-4.3534	0	0	%100
64	MP2B	Z	0	0	0	0	%100
65	MP3B	X	-4.0054	-4.0054	0	0	%100
66	MP3B	Z	0	0	0	0	%100
67	MP4B	X	-4.0054	-4.0054	0	0	%100
68	MP4B	Z	0	0	0	0	%100
69	MP5B	X	-4.0054	-4.0054	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
70	MP5B	Z	0	0	0	%100
71	MP2C	X	-4.3534	-4.3534	0	%100
72	MP2C	Z	0	0	0	%100
73	MP3C	X	-4.0054	-4.0054	0	%100
74	MP3C	Z	0	0	0	%100
75	MP4C	X	-4.0054	-4.0054	0	%100
76	MP4C	Z	0	0	0	%100
77	MP5C	X	-4.0054	-4.0054	0	%100
78	MP5C	Z	0	0	0	%100
79	OVP	X	-3.2402	-3.2402	0	%100
80	OVP	Z	0	0	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	0	0	0	%100
83	M74	X	-3.2741	-3.2741	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	-3.2183	-3.2183	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	-3.2741	-3.2741	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	-3.2183	-3.2183	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	0	0	0	%100
93	M93A	X	-5.7146	-5.7146	0	%100
94	M93A	Z	0	0	0	%100
95	M94	X	-3.1046	-3.1046	0	%100
96	M94	Z	0	0	0	%100
97	M95	X	-3.1046	-3.1046	0	%100
98	M95	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M39	X	-1.2076	-1.2076	0	%100
2	M39	Z	-0.6972	-0.6972	0	%100
3	M40	X	-2.6691	-2.6691	0	%100
4	M40	Z	-1.541	-1.541	0	%100
5	M43	X	-2.4179	-2.4179	0	%100
6	M43	Z	-1.396	-1.396	0	%100
7	MP1A	X	-3.4688	-3.4688	0	%100
8	MP1A	Z	-2.0027	-2.0027	0	%100
9	M112A	X	-2.0317	-2.0317	0	%100
10	M112A	Z	-1.173	-1.173	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	-0.8679	-0.8679	0	%100
14	M32	Z	-0.5011	-0.5011	0	%100
15	M33	X	-0.8679	-0.8679	0	%100
16	M33	Z	-0.5011	-0.5011	0	%100
17	M34	X	-0.8539	-0.8539	0	%100
18	M34	Z	-0.493	-0.493	0	%100
19	M16	X	-1.2076	-1.2076	0	%100
20	M16	Z	-0.6972	-0.6972	0	%100
21	M17	X	-2.6691	-2.6691	0	%100
22	M17	Z	-1.541	-1.541	0	%100
23	M18	X	-2.4179	-2.4179	0	%100
24	M18	Z	-1.396	-1.396	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
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Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
25	M22	X	0	0	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	-2.0317	-2.0317	0	%100
28	M23	Z	-1.173	-1.173	0	%100
29	M26	X	-4.8303	-4.8303	0	%100
30	M26	Z	-2.7888	-2.7888	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	-2.0317	-2.0317	0	%100
36	M32A	Z	-1.173	-1.173	0	%100
37	M33A	X	-2.0317	-2.0317	0	%100
38	M33A	Z	-1.173	-1.173	0	%100
39	M36	X	-8679	-8679	0	%100
40	M36	Z	-5011	-5011	0	%100
41	M37	X	-8679	-8679	0	%100
42	M37	Z	-5011	-5011	0	%100
43	M38	X	-8539	-8539	0	%100
44	M38	Z	-493	-493	0	%100
45	M39A	X	-3.4716	-3.4716	0	%100
46	M39A	Z	-2.0043	-2.0043	0	%100
47	M40A	X	-3.4716	-3.4716	0	%100
48	M40A	Z	-2.0043	-2.0043	0	%100
49	M41	X	-3.4158	-3.4158	0	%100
50	M41	Z	-1.9721	-1.9721	0	%100
51	MP2A	X	-3.7701	-3.7701	0	%100
52	MP2A	Z	-2.1767	-2.1767	0	%100
53	MP3A	X	-3.4688	-3.4688	0	%100
54	MP3A	Z	-2.0027	-2.0027	0	%100
55	MP4A	X	-3.4688	-3.4688	0	%100
56	MP4A	Z	-2.0027	-2.0027	0	%100
57	MP5A	X	-3.4688	-3.4688	0	%100
58	MP5A	Z	-2.0027	-2.0027	0	%100
59	MP1C	X	-3.4688	-3.4688	0	%100
60	MP1C	Z	-2.0027	-2.0027	0	%100
61	MP1B	X	-3.4688	-3.4688	0	%100
62	MP1B	Z	-2.0027	-2.0027	0	%100
63	MP2B	X	-3.7701	-3.7701	0	%100
64	MP2B	Z	-2.1767	-2.1767	0	%100
65	MP3B	X	-3.4688	-3.4688	0	%100
66	MP3B	Z	-2.0027	-2.0027	0	%100
67	MP4B	X	-3.4688	-3.4688	0	%100
68	MP4B	Z	-2.0027	-2.0027	0	%100
69	MP5B	X	-3.4688	-3.4688	0	%100
70	MP5B	Z	-2.0027	-2.0027	0	%100
71	MP2C	X	-3.7701	-3.7701	0	%100
72	MP2C	Z	-2.1767	-2.1767	0	%100
73	MP3C	X	-3.4688	-3.4688	0	%100
74	MP3C	Z	-2.0027	-2.0027	0	%100
75	MP4C	X	-3.4688	-3.4688	0	%100
76	MP4C	Z	-2.0027	-2.0027	0	%100
77	MP5C	X	-3.4688	-3.4688	0	%100
78	MP5C	Z	-2.0027	-2.0027	0	%100
79	OVP	X	-2.8061	-2.8061	0	%100
80	OVP	Z	-1.6201	-1.6201	0	%100
81	M71	X	-9451	-9451	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
82	M71	Z	-5457	-5457	0	%100
83	M74	X	-3.7806	-3.7806	0	%100
84	M74	Z	-2.1827	-2.1827	0	%100
85	M77	X	-9291	-9291	0	%100
86	M77	Z	-5364	-5364	0	%100
87	M89	X	-9451	-9451	0	%100
88	M89	Z	-5457	-5457	0	%100
89	M90	X	-3.7162	-3.7162	0	%100
90	M90	Z	-2.1456	-2.1456	0	%100
91	M91	X	-9291	-9291	0	%100
92	M91	Z	-5364	-5364	0	%100
93	M93A	X	-4.1955	-4.1955	0	%100
94	M93A	Z	-2.4223	-2.4223	0	%100
95	M94	X	-4.1955	-4.1955	0	%100
96	M94	Z	-2.4223	-2.4223	0	%100
97	M95	X	-1.9352	-1.9352	0	%100
98	M95	Z	-1.1173	-1.1173	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-2.0916	-2.0916	0	%100
2	M39	Z	-3.6227	-3.6227	0	%100
3	M40	X	-5137	-5137	0	%100
4	M40	Z	-8897	-8897	0	%100
5	M43	X	-4653	-4653	0	%100
6	M43	Z	-806	-806	0	%100
7	MP1A	X	-2.0027	-2.0027	0	%100
8	MP1A	Z	-3.4688	-3.4688	0	%100
9	M112A	X	-1.564	-1.564	0	%100
10	M112A	Z	-2.7089	-2.7089	0	%100
11	M113A	X	-391	-391	0	%100
12	M113A	Z	-6772	-6772	0	%100
13	M32	X	-1.5032	-1.5032	0	%100
14	M32	Z	-2.6037	-2.6037	0	%100
15	M33	X	-1.5032	-1.5032	0	%100
16	M33	Z	-2.6037	-2.6037	0	%100
17	M34	X	-1.4791	-1.4791	0	%100
18	M34	Z	-2.5618	-2.5618	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	-2.0547	-2.0547	0	%100
22	M17	Z	-3.5588	-3.5588	0	%100
23	M18	X	-1.8613	-1.8613	0	%100
24	M18	Z	-3.2239	-3.2239	0	%100
25	M22	X	-391	-391	0	%100
26	M22	Z	-6772	-6772	0	%100
27	M23	X	-391	-391	0	%100
28	M23	Z	-6772	-6772	0	%100
29	M26	X	-2.0916	-2.0916	0	%100
30	M26	Z	-3.6227	-3.6227	0	%100
31	M27	X	-5137	-5137	0	%100
32	M27	Z	-8897	-8897	0	%100
33	M28	X	-4653	-4653	0	%100
34	M28	Z	-806	-806	0	%100
35	M32A	X	-391	-391	0	%100
36	M32A	Z	-6772	-6772	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
37	M33A	X	-1.564	-1.564	0	%100
38	M33A	Z	-2.7089	-2.7089	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	-1.5032	-1.5032	0	%100
46	M39A	Z	-2.6037	-2.6037	0	%100
47	M40A	X	-1.5032	-1.5032	0	%100
48	M40A	Z	-2.6037	-2.6037	0	%100
49	M41	X	-1.4791	-1.4791	0	%100
50	M41	Z	-2.5618	-2.5618	0	%100
51	MP2A	X	-2.1767	-2.1767	0	%100
52	MP2A	Z	-3.7701	-3.7701	0	%100
53	MP3A	X	-2.0027	-2.0027	0	%100
54	MP3A	Z	-3.4688	-3.4688	0	%100
55	MP4A	X	-2.0027	-2.0027	0	%100
56	MP4A	Z	-3.4688	-3.4688	0	%100
57	MP5A	X	-2.0027	-2.0027	0	%100
58	MP5A	Z	-3.4688	-3.4688	0	%100
59	MP1C	X	-2.0027	-2.0027	0	%100
60	MP1C	Z	-3.4688	-3.4688	0	%100
61	MP1B	X	-2.0027	-2.0027	0	%100
62	MP1B	Z	-3.4688	-3.4688	0	%100
63	MP2B	X	-2.1767	-2.1767	0	%100
64	MP2B	Z	-3.7701	-3.7701	0	%100
65	MP3B	X	-2.0027	-2.0027	0	%100
66	MP3B	Z	-3.4688	-3.4688	0	%100
67	MP4B	X	-2.0027	-2.0027	0	%100
68	MP4B	Z	-3.4688	-3.4688	0	%100
69	MP5B	X	-2.0027	-2.0027	0	%100
70	MP5B	Z	-3.4688	-3.4688	0	%100
71	MP2C	X	-2.1767	-2.1767	0	%100
72	MP2C	Z	-3.7701	-3.7701	0	%100
73	MP3C	X	-2.0027	-2.0027	0	%100
74	MP3C	Z	-3.4688	-3.4688	0	%100
75	MP4C	X	-2.0027	-2.0027	0	%100
76	MP4C	Z	-3.4688	-3.4688	0	%100
77	MP5C	X	-2.0027	-2.0027	0	%100
78	MP5C	Z	-3.4688	-3.4688	0	%100
79	OVP	X	-1.6201	-1.6201	0	%100
80	OVP	Z	-2.8061	-2.8061	0	%100
81	M71	X	-1.637	-1.637	0	%100
82	M71	Z	-2.8354	-2.8354	0	%100
83	M74	X	-1.637	-1.637	0	%100
84	M74	Z	-2.8354	-2.8354	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	-1.6092	-1.6092	0	%100
90	M90	Z	-2.7872	-2.7872	0	%100
91	M91	X	-1.6092	-1.6092	0	%100
92	M91	Z	-2.7872	-2.7872	0	%100
93	M93A	X	-1.5523	-1.5523	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
94	M93A	Z	-2.6886	-2.6886	0	%100
95	M94	X	-2.8573	-2.8573	0	%100
96	M94	Z	-4.949	-4.949	0	%100
97	M95	X	-1.5523	-1.5523	0	%100
98	M95	Z	-2.6886	-2.6886	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	-1.5033	-1.5033	0	%100
3	M40	X	0	0	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-0.5951	-0.5951	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	-0.3819	-0.3819	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	-0.3819	-0.3819	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	-0.7219	-0.7219	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	-0.7219	-0.7219	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	-0.7106	-0.7106	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-0.3758	-0.3758	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	-0.5492	-0.5492	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-0.5004	-0.5004	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	-0.3819	-0.3819	0	%100
27	M23	X	0	0	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-0.3758	-0.3758	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-0.5492	-0.5492	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-0.5004	-0.5004	0	%100
35	M32A	X	0	0	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	-0.3819	-0.3819	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-0.1805	-0.1805	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	-0.1805	-0.1805	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	-0.1776	-0.1776	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	-0.1805	-0.1805	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	-0.1805	-0.1805	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
49	M41	X	0	0	0	%100
50	M41	Z	-1.1776	-1.1776	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-0.7203	-0.7203	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-0.5951	-0.5951	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-0.5951	-0.5951	0	%100
57	MP5A	X	0	0	0	%100
58	MP5A	Z	-0.5951	-0.5951	0	%100
59	MP1C	X	0	0	0	%100
60	MP1C	Z	-0.5951	-0.5951	0	%100
61	MP1B	X	0	0	0	%100
62	MP1B	Z	-0.5951	-0.5951	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-0.7203	-0.7203	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	-0.5951	-0.5951	0	%100
67	MP4B	X	0	0	0	%100
68	MP4B	Z	-0.5951	-0.5951	0	%100
69	MP5B	X	0	0	0	%100
70	MP5B	Z	-0.5951	-0.5951	0	%100
71	MP2C	X	0	0	0	%100
72	MP2C	Z	-0.7203	-0.7203	0	%100
73	MP3C	X	0	0	0	%100
74	MP3C	Z	-0.5951	-0.5951	0	%100
75	MP4C	X	0	0	0	%100
76	MP4C	Z	-0.5951	-0.5951	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	-0.5951	-0.5951	0	%100
79	OVP	X	0	0	0	%100
80	OVP	Z	-0.5144	-0.5144	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	-0.7203	-0.7203	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	-0.1801	-0.1801	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	-0.2362	-0.2362	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	-0.1801	-0.1801	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	-0.2362	-0.2362	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	-0.9449	-0.9449	0	%100
93	M93A	X	0	0	0	%100
94	M93A	Z	-0.5865	-0.5865	0	%100
95	M94	X	0	0	0	%100
96	M94	Z	-1.0859	-1.0859	0	%100
97	M95	X	0	0	0	%100
98	M95	Z	-1.0859	-1.0859	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	.5637	.5637	0	%100
2	M39	Z	-0.9764	-0.9764	0	%100
3	M40	X	.0915	.0915	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
4	M40	Z	-.1585	-.1585	0	%100
5	M43	X	.0834	.0834	0	%100
6	M43	Z	-.1445	-.1445	0	%100
7	MP1A	X	.2975	.2975	0	%100
8	MP1A	Z	-.5153	-.5153	0	%100
9	M112A	X	.0636	.0636	0	%100
10	M112A	Z	-.1102	-.1102	0	%100
11	M113A	X	.2546	.2546	0	%100
12	M113A	Z	-.4409	-.4409	0	%100
13	M32	X	.2707	.2707	0	%100
14	M32	Z	-.4689	-.4689	0	%100
15	M33	X	.2707	.2707	0	%100
16	M33	Z	-.4689	-.4689	0	%100
17	M34	X	.2665	.2665	0	%100
18	M34	Z	-.4615	-.4615	0	%100
19	M16	X	.5637	.5637	0	%100
20	M16	Z	-.9764	-.9764	0	%100
21	M17	X	.0915	.0915	0	%100
22	M17	Z	-.1585	-.1585	0	%100
23	M18	X	.0834	.0834	0	%100
24	M18	Z	-.1445	-.1445	0	%100
25	M22	X	.2546	.2546	0	%100
26	M22	Z	-.4409	-.4409	0	%100
27	M23	X	.0636	.0636	0	%100
28	M23	Z	-.1102	-.1102	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	.3661	.3661	0	%100
32	M27	Z	-.6341	-.6341	0	%100
33	M28	X	.3336	.3336	0	%100
34	M28	Z	-.5779	-.5779	0	%100
35	M32A	X	.0636	.0636	0	%100
36	M32A	Z	-.1102	-.1102	0	%100
37	M33A	X	.0636	.0636	0	%100
38	M33A	Z	-.1102	-.1102	0	%100
39	M36	X	.2707	.2707	0	%100
40	M36	Z	-.4689	-.4689	0	%100
41	M37	X	.2707	.2707	0	%100
42	M37	Z	-.4689	-.4689	0	%100
43	M38	X	.2665	.2665	0	%100
44	M38	Z	-.4615	-.4615	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	.3602	.3602	0	%100
52	MP2A	Z	-.6238	-.6238	0	%100
53	MP3A	X	.2975	.2975	0	%100
54	MP3A	Z	-.5153	-.5153	0	%100
55	MP4A	X	.2975	.2975	0	%100
56	MP4A	Z	-.5153	-.5153	0	%100
57	MP5A	X	.2975	.2975	0	%100
58	MP5A	Z	-.5153	-.5153	0	%100
59	MP1C	X	.2975	.2975	0	%100
60	MP1C	Z	-.5153	-.5153	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
61	MP1B	X	.2975	.2975	0	%100
62	MP1B	Z	-.5153	-.5153	0	%100
63	MP2B	X	.3602	.3602	0	%100
64	MP2B	Z	-.6238	-.6238	0	%100
65	MP3B	X	.2975	.2975	0	%100
66	MP3B	Z	-.5153	-.5153	0	%100
67	MP4B	X	.2975	.2975	0	%100
68	MP4B	Z	-.5153	-.5153	0	%100
69	MP5B	X	.2975	.2975	0	%100
70	MP5B	Z	-.5153	-.5153	0	%100
71	MP2C	X	.3602	.3602	0	%100
72	MP2C	Z	-.6238	-.6238	0	%100
73	MP3C	X	.2975	.2975	0	%100
74	MP3C	Z	-.5153	-.5153	0	%100
75	MP4C	X	.2975	.2975	0	%100
76	MP4C	Z	-.5153	-.5153	0	%100
77	MP5C	X	.2975	.2975	0	%100
78	MP5C	Z	-.5153	-.5153	0	%100
79	OVP	X	.2572	.2572	0	%100
80	OVP	Z	-.4455	-.4455	0	%100
81	M71	X	.2701	.2701	0	%100
82	M71	Z	-.4679	-.4679	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	.3543	.3543	0	%100
86	M77	Z	-.6137	-.6137	0	%100
87	M89	X	.2701	.2701	0	%100
88	M89	Z	-.4679	-.4679	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	.3543	.3543	0	%100
92	M91	Z	-.6137	-.6137	0	%100
93	M93A	X	.3765	.3765	0	%100
94	M93A	Z	-.6521	-.6521	0	%100
95	M94	X	.3765	.3765	0	%100
96	M94	Z	-.6521	-.6521	0	%100
97	M95	X	.6262	.6262	0	%100
98	M95	Z	-1.0846	-1.0846	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	.3255	.3255	0	%100
2	M39	Z	-.1879	-.1879	0	%100
3	M40	X	.4756	.4756	0	%100
4	M40	Z	-.2746	-.2746	0	%100
5	M43	X	.4334	.4334	0	%100
6	M43	Z	-.2502	-.2502	0	%100
7	MP1A	X	.5153	.5153	0	%100
8	MP1A	Z	-.2975	-.2975	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	.3307	.3307	0	%100
12	M113A	Z	-.1909	-.1909	0	%100
13	M32	X	.1563	.1563	0	%100
14	M32	Z	-.0902	-.0902	0	%100
15	M33	X	.1563	.1563	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
16	M33	Z	-.0902	-.0902	0	%100
17	M34	X	.1538	.1538	0	%100
18	M34	Z	-.0888	-.0888	0	%100
19	M16	X	1.3019	1.3019	0	%100
20	M16	Z	-.7517	-.7517	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	.3307	.3307	0	%100
26	M22	Z	-.1909	-.1909	0	%100
27	M23	X	.3307	.3307	0	%100
28	M23	Z	-.1909	-.1909	0	%100
29	M26	X	.3255	.3255	0	%100
30	M26	Z	-.1879	-.1879	0	%100
31	M27	X	.4756	.4756	0	%100
32	M27	Z	-.2746	-.2746	0	%100
33	M28	X	.4334	.4334	0	%100
34	M28	Z	-.2502	-.2502	0	%100
35	M32A	X	.3307	.3307	0	%100
36	M32A	Z	-.1909	-.1909	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	.6252	.6252	0	%100
40	M36	Z	-.3609	-.3609	0	%100
41	M37	X	.6252	.6252	0	%100
42	M37	Z	-.3609	-.3609	0	%100
43	M38	X	.6154	.6154	0	%100
44	M38	Z	-.3553	-.3553	0	%100
45	M39A	X	.1563	.1563	0	%100
46	M39A	Z	-.0902	-.0902	0	%100
47	M40A	X	.1563	.1563	0	%100
48	M40A	Z	-.0902	-.0902	0	%100
49	M41	X	.1538	.1538	0	%100
50	M41	Z	-.0888	-.0888	0	%100
51	MP2A	X	.6238	.6238	0	%100
52	MP2A	Z	-.3602	-.3602	0	%100
53	MP3A	X	.5153	.5153	0	%100
54	MP3A	Z	-.2975	-.2975	0	%100
55	MP4A	X	.5153	.5153	0	%100
56	MP4A	Z	-.2975	-.2975	0	%100
57	MP5A	X	.5153	.5153	0	%100
58	MP5A	Z	-.2975	-.2975	0	%100
59	MP1C	X	.5153	.5153	0	%100
60	MP1C	Z	-.2975	-.2975	0	%100
61	MP1B	X	.5153	.5153	0	%100
62	MP1B	Z	-.2975	-.2975	0	%100
63	MP2B	X	.6238	.6238	0	%100
64	MP2B	Z	-.3602	-.3602	0	%100
65	MP3B	X	.5153	.5153	0	%100
66	MP3B	Z	-.2975	-.2975	0	%100
67	MP4B	X	.5153	.5153	0	%100
68	MP4B	Z	-.2975	-.2975	0	%100
69	MP5B	X	.5153	.5153	0	%100
70	MP5B	Z	-.2975	-.2975	0	%100
71	MP2C	X	.6238	.6238	0	%100
72	MP2C	Z	-.3602	-.3602	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
73	MP3C	X	.5153	.5153	0	%100
74	MP3C	Z	-.2975	-.2975	0	%100
75	MP4C	X	.5153	.5153	0	%100
76	MP4C	Z	-.2975	-.2975	0	%100
77	MP5C	X	.5153	.5153	0	%100
78	MP5C	Z	-.2975	-.2975	0	%100
79	OVP	X	.4455	.4455	0	%100
80	OVP	Z	-.2572	-.2572	0	%100
81	M71	X	.156	.156	0	%100
82	M71	Z	-.09	-.09	0	%100
83	M74	X	.156	.156	0	%100
84	M74	Z	-.09	-.09	0	%100
85	M77	X	.8183	.8183	0	%100
86	M77	Z	-.4725	-.4725	0	%100
87	M89	X	.6238	.6238	0	%100
88	M89	Z	-.3602	-.3602	0	%100
89	M90	X	.2046	.2046	0	%100
90	M90	Z	-.1181	-.1181	0	%100
91	M91	X	.2046	.2046	0	%100
92	M91	Z	-.1181	-.1181	0	%100
93	M93A	X	.9404	.9404	0	%100
94	M93A	Z	-.543	-.543	0	%100
95	M94	X	.5079	.5079	0	%100
96	M94	Z	-.2932	-.2932	0	%100
97	M95	X	.9404	.9404	0	%100
98	M95	Z	-.543	-.543	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	0	0	0	%100
3	M40	X	.7322	.7322	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	.6673	.6673	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	.5951	.5951	0	%100
8	MP1A	Z	0	0	0	%100
9	M112A	X	.1273	.1273	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	.1273	.1273	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	0	0	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	0	0	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	0	0	0	%100
19	M16	X	1.1275	1.1275	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	.1831	.1831	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	.1668	.1668	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	.1273	.1273	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	.5092	.5092	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
28	M23	Z	0	0	0	%100
29	M26	X	1.1275	1.1275	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	.1831	.1831	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.1668	.1668	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	.5092	.5092	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	.1273	.1273	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	.5414	.5414	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	.5414	.5414	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	.5329	.5329	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	.5414	.5414	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	.5414	.5414	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	.5329	.5329	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	.7203	.7203	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	.5951	.5951	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	.5951	.5951	0	%100
56	MP4A	Z	0	0	0	%100
57	MP5A	X	.5951	.5951	0	%100
58	MP5A	Z	0	0	0	%100
59	MP1C	X	.5951	.5951	0	%100
60	MP1C	Z	0	0	0	%100
61	MP1B	X	.5951	.5951	0	%100
62	MP1B	Z	0	0	0	%100
63	MP2B	X	.7203	.7203	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	.5951	.5951	0	%100
66	MP3B	Z	0	0	0	%100
67	MP4B	X	.5951	.5951	0	%100
68	MP4B	Z	0	0	0	%100
69	MP5B	X	.5951	.5951	0	%100
70	MP5B	Z	0	0	0	%100
71	MP2C	X	.7203	.7203	0	%100
72	MP2C	Z	0	0	0	%100
73	MP3C	X	.5951	.5951	0	%100
74	MP3C	Z	0	0	0	%100
75	MP4C	X	.5951	.5951	0	%100
76	MP4C	Z	0	0	0	%100
77	MP5C	X	.5951	.5951	0	%100
78	MP5C	Z	0	0	0	%100
79	OVP	X	.5144	.5144	0	%100
80	OVP	Z	0	0	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	0	0	0	%100
83	M74	X	.5403	.5403	0	%100
84	M74	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
85	M77	X	.7087	.7087	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	.5403	.5403	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	.7087	.7087	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	0	0	0	%100
93	M93A	X	1.2524	1.2524	0	%100
94	M93A	Z	0	0	0	%100
95	M94	X	.753	.753	0	%100
96	M94	Z	0	0	0	%100
97	M95	X	.753	.753	0	%100
98	M95	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	.3255	.3255	0	%100
2	M39	Z	.1879	.1879	0	%100
3	M40	X	.4756	.4756	0	%100
4	M40	Z	.2746	.2746	0	%100
5	M43	X	.4334	.4334	0	%100
6	M43	Z	.2502	.2502	0	%100
7	MP1A	X	.5153	.5153	0	%100
8	MP1A	Z	.2975	.2975	0	%100
9	M112A	X	.3307	.3307	0	%100
10	M112A	Z	.1909	.1909	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	.1563	.1563	0	%100
14	M32	Z	.0902	.0902	0	%100
15	M33	X	.1563	.1563	0	%100
16	M33	Z	.0902	.0902	0	%100
17	M34	X	.1538	.1538	0	%100
18	M34	Z	.0888	.0888	0	%100
19	M16	X	.3255	.3255	0	%100
20	M16	Z	.1879	.1879	0	%100
21	M17	X	.4756	.4756	0	%100
22	M17	Z	.2746	.2746	0	%100
23	M18	X	.4334	.4334	0	%100
24	M18	Z	.2502	.2502	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	.3307	.3307	0	%100
28	M23	Z	.1909	.1909	0	%100
29	M26	X	1.3019	1.3019	0	%100
30	M26	Z	.7517	.7517	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	.3307	.3307	0	%100
36	M32A	Z	.1909	.1909	0	%100
37	M33A	X	.3307	.3307	0	%100
38	M33A	Z	.1909	.1909	0	%100
39	M36	X	.1563	.1563	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
40	M36	Z	.0902	.0902	0	%100
41	M37	X	.1563	.1563	0	%100
42	M37	Z	.0902	.0902	0	%100
43	M38	X	.1538	.1538	0	%100
44	M38	Z	.0888	.0888	0	%100
45	M39A	X	.6252	.6252	0	%100
46	M39A	Z	.3609	.3609	0	%100
47	M40A	X	.6252	.6252	0	%100
48	M40A	Z	.3609	.3609	0	%100
49	M41	X	.6154	.6154	0	%100
50	M41	Z	.3553	.3553	0	%100
51	MP2A	X	.6238	.6238	0	%100
52	MP2A	Z	.3602	.3602	0	%100
53	MP3A	X	.5153	.5153	0	%100
54	MP3A	Z	.2975	.2975	0	%100
55	MP4A	X	.5153	.5153	0	%100
56	MP4A	Z	.2975	.2975	0	%100
57	MP5A	X	.5153	.5153	0	%100
58	MP5A	Z	.2975	.2975	0	%100
59	MP1C	X	.5153	.5153	0	%100
60	MP1C	Z	.2975	.2975	0	%100
61	MP1B	X	.5153	.5153	0	%100
62	MP1B	Z	.2975	.2975	0	%100
63	MP2B	X	.6238	.6238	0	%100
64	MP2B	Z	.3602	.3602	0	%100
65	MP3B	X	.5153	.5153	0	%100
66	MP3B	Z	.2975	.2975	0	%100
67	MP4B	X	.5153	.5153	0	%100
68	MP4B	Z	.2975	.2975	0	%100
69	MP5B	X	.5153	.5153	0	%100
70	MP5B	Z	.2975	.2975	0	%100
71	MP2C	X	.6238	.6238	0	%100
72	MP2C	Z	.3602	.3602	0	%100
73	MP3C	X	.5153	.5153	0	%100
74	MP3C	Z	.2975	.2975	0	%100
75	MP4C	X	.5153	.5153	0	%100
76	MP4C	Z	.2975	.2975	0	%100
77	MP5C	X	.5153	.5153	0	%100
78	MP5C	Z	.2975	.2975	0	%100
79	OVP	X	.4455	.4455	0	%100
80	OVP	Z	.2572	.2572	0	%100
81	M71	X	.156	.156	0	%100
82	M71	Z	.09	.09	0	%100
83	M74	X	.6238	.6238	0	%100
84	M74	Z	.3602	.3602	0	%100
85	M77	X	.2046	.2046	0	%100
86	M77	Z	.1181	.1181	0	%100
87	M89	X	.156	.156	0	%100
88	M89	Z	.09	.09	0	%100
89	M90	X	.8183	.8183	0	%100
90	M90	Z	.4725	.4725	0	%100
91	M91	X	.2046	.2046	0	%100
92	M91	Z	.1181	.1181	0	%100
93	M93A	X	.9404	.9404	0	%100
94	M93A	Z	.543	.543	0	%100
95	M94	X	.9404	.9404	0	%100
96	M94	Z	.543	.543	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
97	M95	X	.5079	.5079	0	%100
98	M95	Z	.2932	.2932	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	.5637	.5637	0	%100
2	M39	Z	.9764	.9764	0	%100
3	M40	X	.0915	.0915	0	%100
4	M40	Z	.1585	.1585	0	%100
5	M43	X	.0834	.0834	0	%100
6	M43	Z	.1445	.1445	0	%100
7	MP1A	X	.2975	.2975	0	%100
8	MP1A	Z	.5153	.5153	0	%100
9	M112A	X	.2546	.2546	0	%100
10	M112A	Z	.4409	.4409	0	%100
11	M113A	X	.0636	.0636	0	%100
12	M113A	Z	.1102	.1102	0	%100
13	M32	X	.2707	.2707	0	%100
14	M32	Z	.4689	.4689	0	%100
15	M33	X	.2707	.2707	0	%100
16	M33	Z	.4689	.4689	0	%100
17	M34	X	.2665	.2665	0	%100
18	M34	Z	.4615	.4615	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	.3661	.3661	0	%100
22	M17	Z	.6341	.6341	0	%100
23	M18	X	.3336	.3336	0	%100
24	M18	Z	.5779	.5779	0	%100
25	M22	X	.0636	.0636	0	%100
26	M22	Z	.1102	.1102	0	%100
27	M23	X	.0636	.0636	0	%100
28	M23	Z	.1102	.1102	0	%100
29	M26	X	.5637	.5637	0	%100
30	M26	Z	.9764	.9764	0	%100
31	M27	X	.0915	.0915	0	%100
32	M27	Z	.1585	.1585	0	%100
33	M28	X	.0834	.0834	0	%100
34	M28	Z	.1445	.1445	0	%100
35	M32A	X	.0636	.0636	0	%100
36	M32A	Z	.1102	.1102	0	%100
37	M33A	X	.2546	.2546	0	%100
38	M33A	Z	.4409	.4409	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	.2707	.2707	0	%100
46	M39A	Z	.4689	.4689	0	%100
47	M40A	X	.2707	.2707	0	%100
48	M40A	Z	.4689	.4689	0	%100
49	M41	X	.2665	.2665	0	%100
50	M41	Z	.4615	.4615	0	%100
51	MP2A	X	.3602	.3602	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
52	MP2A	Z	.6238	.6238	0	%100
53	MP3A	X	.2975	.2975	0	%100
54	MP3A	Z	.5153	.5153	0	%100
55	MP4A	X	.2975	.2975	0	%100
56	MP4A	Z	.5153	.5153	0	%100
57	MP5A	X	.2975	.2975	0	%100
58	MP5A	Z	.5153	.5153	0	%100
59	MP1C	X	.2975	.2975	0	%100
60	MP1C	Z	.5153	.5153	0	%100
61	MP1B	X	.2975	.2975	0	%100
62	MP1B	Z	.5153	.5153	0	%100
63	MP2B	X	.3602	.3602	0	%100
64	MP2B	Z	.6238	.6238	0	%100
65	MP3B	X	.2975	.2975	0	%100
66	MP3B	Z	.5153	.5153	0	%100
67	MP4B	X	.2975	.2975	0	%100
68	MP4B	Z	.5153	.5153	0	%100
69	MP5B	X	.2975	.2975	0	%100
70	MP5B	Z	.5153	.5153	0	%100
71	MP2C	X	.3602	.3602	0	%100
72	MP2C	Z	.6238	.6238	0	%100
73	MP3C	X	.2975	.2975	0	%100
74	MP3C	Z	.5153	.5153	0	%100
75	MP4C	X	.2975	.2975	0	%100
76	MP4C	Z	.5153	.5153	0	%100
77	MP5C	X	.2975	.2975	0	%100
78	MP5C	Z	.5153	.5153	0	%100
79	OVP	X	.2572	.2572	0	%100
80	OVP	Z	.4455	.4455	0	%100
81	M71	X	.2701	.2701	0	%100
82	M71	Z	.4679	.4679	0	%100
83	M74	X	.2701	.2701	0	%100
84	M74	Z	.4679	.4679	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	.3543	.3543	0	%100
90	M90	Z	.6137	.6137	0	%100
91	M91	X	.3543	.3543	0	%100
92	M91	Z	.6137	.6137	0	%100
93	M93A	X	.3765	.3765	0	%100
94	M93A	Z	.6521	.6521	0	%100
95	M94	X	.6262	.6262	0	%100
96	M94	Z	1.0846	1.0846	0	%100
97	M95	X	.3765	.3765	0	%100
98	M95	Z	.6521	.6521	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	1.5033	1.5033	0	%100
3	M40	X	0	0	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
7	MP1A	X	0	0	0	%100
8	MP1A	Z	.5951	.5951	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	.3819	.3819	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	.3819	.3819	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	.7219	.7219	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	.7219	.7219	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	.7106	.7106	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	.3758	.3758	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	.5492	.5492	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	.5004	.5004	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	.3819	.3819	0	%100
27	M23	X	0	0	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.3758	.3758	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.5492	.5492	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.5004	.5004	0	%100
35	M32A	X	0	0	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	.3819	.3819	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	.1805	.1805	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	.1805	.1805	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	.1776	.1776	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	.1805	.1805	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	.1805	.1805	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	.1776	.1776	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	.7203	.7203	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	.5951	.5951	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	.5951	.5951	0	%100
57	MP5A	X	0	0	0	%100
58	MP5A	Z	.5951	.5951	0	%100
59	MP1C	X	0	0	0	%100
60	MP1C	Z	.5951	.5951	0	%100
61	MP1B	X	0	0	0	%100
62	MP1B	Z	.5951	.5951	0	%100
63	MP2B	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
64	MP2B	Z	.7203	.7203	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	.5951	.5951	0	%100
67	MP4B	X	0	0	0	%100
68	MP4B	Z	.5951	.5951	0	%100
69	MP5B	X	0	0	0	%100
70	MP5B	Z	.5951	.5951	0	%100
71	MP2C	X	0	0	0	%100
72	MP2C	Z	.7203	.7203	0	%100
73	MP3C	X	0	0	0	%100
74	MP3C	Z	.5951	.5951	0	%100
75	MP4C	X	0	0	0	%100
76	MP4C	Z	.5951	.5951	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	.5951	.5951	0	%100
79	OVP	X	0	0	0	%100
80	OVP	Z	.5144	.5144	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	.7203	.7203	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	.1801	.1801	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	.2362	.2362	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	.1801	.1801	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	.2362	.2362	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	.9449	.9449	0	%100
93	M93A	X	0	0	0	%100
94	M93A	Z	.5865	.5865	0	%100
95	M94	X	0	0	0	%100
96	M94	Z	1.0859	1.0859	0	%100
97	M95	X	0	0	0	%100
98	M95	Z	1.0859	1.0859	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
1	M39	X	-.5637	-.5637	0	%100
2	M39	Z	.9764	.9764	0	%100
3	M40	X	-.0915	-.0915	0	%100
4	M40	Z	.1585	.1585	0	%100
5	M43	X	-.0834	-.0834	0	%100
6	M43	Z	.1445	.1445	0	%100
7	MP1A	X	-.2975	-.2975	0	%100
8	MP1A	Z	.5153	.5153	0	%100
9	M112A	X	-.0636	-.0636	0	%100
10	M112A	Z	.1102	.1102	0	%100
11	M113A	X	-.2546	-.2546	0	%100
12	M113A	Z	.4409	.4409	0	%100
13	M32	X	-.2707	-.2707	0	%100
14	M32	Z	.4689	.4689	0	%100
15	M33	X	-.2707	-.2707	0	%100
16	M33	Z	.4689	.4689	0	%100
17	M34	X	-.2665	-.2665	0	%100
18	M34	Z	.4615	.4615	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
19	M16	X	-.5637	-.5637	0	%100
20	M16	Z	.9764	.9764	0	%100
21	M17	X	-.0915	-.0915	0	%100
22	M17	Z	.1585	.1585	0	%100
23	M18	X	-.0834	-.0834	0	%100
24	M18	Z	.1445	.1445	0	%100
25	M22	X	-.2546	-.2546	0	%100
26	M22	Z	.4409	.4409	0	%100
27	M23	X	-.0636	-.0636	0	%100
28	M23	Z	.1102	.1102	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-.3661	-.3661	0	%100
32	M27	Z	.6341	.6341	0	%100
33	M28	X	-.3336	-.3336	0	%100
34	M28	Z	.5779	.5779	0	%100
35	M32A	X	-.0636	-.0636	0	%100
36	M32A	Z	.1102	.1102	0	%100
37	M33A	X	-.0636	-.0636	0	%100
38	M33A	Z	.1102	.1102	0	%100
39	M36	X	-.2707	-.2707	0	%100
40	M36	Z	.4689	.4689	0	%100
41	M37	X	-.2707	-.2707	0	%100
42	M37	Z	.4689	.4689	0	%100
43	M38	X	-.2665	-.2665	0	%100
44	M38	Z	.4615	.4615	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	0	0	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	-.3602	-.3602	0	%100
52	MP2A	Z	.6238	.6238	0	%100
53	MP3A	X	-.2975	-.2975	0	%100
54	MP3A	Z	.5153	.5153	0	%100
55	MP4A	X	-.2975	-.2975	0	%100
56	MP4A	Z	.5153	.5153	0	%100
57	MP5A	X	-.2975	-.2975	0	%100
58	MP5A	Z	.5153	.5153	0	%100
59	MP1C	X	-.2975	-.2975	0	%100
60	MP1C	Z	.5153	.5153	0	%100
61	MP1B	X	-.2975	-.2975	0	%100
62	MP1B	Z	.5153	.5153	0	%100
63	MP2B	X	-.3602	-.3602	0	%100
64	MP2B	Z	.6238	.6238	0	%100
65	MP3B	X	-.2975	-.2975	0	%100
66	MP3B	Z	.5153	.5153	0	%100
67	MP4B	X	-.2975	-.2975	0	%100
68	MP4B	Z	.5153	.5153	0	%100
69	MP5B	X	-.2975	-.2975	0	%100
70	MP5B	Z	.5153	.5153	0	%100
71	MP2C	X	-.3602	-.3602	0	%100
72	MP2C	Z	.6238	.6238	0	%100
73	MP3C	X	-.2975	-.2975	0	%100
74	MP3C	Z	.5153	.5153	0	%100
75	MP4C	X	-.2975	-.2975	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
76	MP4C	Z	.5153	.5153	0	%100
77	MP5C	X	-.2975	-.2975	0	%100
78	MP5C	Z	.5153	.5153	0	%100
79	OVP	X	-.2572	-.2572	0	%100
80	OVP	Z	.4455	.4455	0	%100
81	M71	X	-.2701	-.2701	0	%100
82	M71	Z	.4679	.4679	0	%100
83	M74	X	0	0	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	-.3543	-.3543	0	%100
86	M77	Z	.6137	.6137	0	%100
87	M89	X	-.2701	-.2701	0	%100
88	M89	Z	.4679	.4679	0	%100
89	M90	X	0	0	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	-.3543	-.3543	0	%100
92	M91	Z	.6137	.6137	0	%100
93	M93A	X	-.3765	-.3765	0	%100
94	M93A	Z	.6521	.6521	0	%100
95	M94	X	-.3765	-.3765	0	%100
96	M94	Z	.6521	.6521	0	%100
97	M95	X	-.6262	-.6262	0	%100
98	M95	Z	1.0846	1.0846	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-.3255	-.3255	0	%100
2	M39	Z	.1879	.1879	0	%100
3	M40	X	-.4756	-.4756	0	%100
4	M40	Z	.2746	.2746	0	%100
5	M43	X	-.4334	-.4334	0	%100
6	M43	Z	.2502	.2502	0	%100
7	MP1A	X	-.5153	-.5153	0	%100
8	MP1A	Z	.2975	.2975	0	%100
9	M112A	X	0	0	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	-.3307	-.3307	0	%100
12	M113A	Z	.1909	.1909	0	%100
13	M32	X	-.1563	-.1563	0	%100
14	M32	Z	.0902	.0902	0	%100
15	M33	X	-.1563	-.1563	0	%100
16	M33	Z	.0902	.0902	0	%100
17	M34	X	-.1538	-.1538	0	%100
18	M34	Z	.0888	.0888	0	%100
19	M16	X	-1.3019	-1.3019	0	%100
20	M16	Z	.7517	.7517	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	-.3307	-.3307	0	%100
26	M22	Z	.1909	.1909	0	%100
27	M23	X	-.3307	-.3307	0	%100
28	M23	Z	.1909	.1909	0	%100
29	M26	X	-.3255	-.3255	0	%100
30	M26	Z	.1879	.1879	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
31	M27	X	-.4756	-.4756	0	%100
32	M27	Z	.2746	.2746	0	%100
33	M28	X	-.4334	-.4334	0	%100
34	M28	Z	.2502	.2502	0	%100
35	M32A	X	-.3307	-.3307	0	%100
36	M32A	Z	.1909	.1909	0	%100
37	M33A	X	0	0	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	-.6252	-.6252	0	%100
40	M36	Z	.3609	.3609	0	%100
41	M37	X	-.6252	-.6252	0	%100
42	M37	Z	.3609	.3609	0	%100
43	M38	X	-.6154	-.6154	0	%100
44	M38	Z	.3553	.3553	0	%100
45	M39A	X	-.1563	-.1563	0	%100
46	M39A	Z	.0902	.0902	0	%100
47	M40A	X	-.1563	-.1563	0	%100
48	M40A	Z	.0902	.0902	0	%100
49	M41	X	-.1538	-.1538	0	%100
50	M41	Z	.0888	.0888	0	%100
51	MP2A	X	-.6238	-.6238	0	%100
52	MP2A	Z	.3602	.3602	0	%100
53	MP3A	X	-.5153	-.5153	0	%100
54	MP3A	Z	.2975	.2975	0	%100
55	MP4A	X	-.5153	-.5153	0	%100
56	MP4A	Z	.2975	.2975	0	%100
57	MP5A	X	-.5153	-.5153	0	%100
58	MP5A	Z	.2975	.2975	0	%100
59	MP1C	X	-.5153	-.5153	0	%100
60	MP1C	Z	.2975	.2975	0	%100
61	MP1B	X	-.5153	-.5153	0	%100
62	MP1B	Z	.2975	.2975	0	%100
63	MP2B	X	-.6238	-.6238	0	%100
64	MP2B	Z	.3602	.3602	0	%100
65	MP3B	X	-.5153	-.5153	0	%100
66	MP3B	Z	.2975	.2975	0	%100
67	MP4B	X	-.5153	-.5153	0	%100
68	MP4B	Z	.2975	.2975	0	%100
69	MP5B	X	-.5153	-.5153	0	%100
70	MP5B	Z	.2975	.2975	0	%100
71	MP2C	X	-.6238	-.6238	0	%100
72	MP2C	Z	.3602	.3602	0	%100
73	MP3C	X	-.5153	-.5153	0	%100
74	MP3C	Z	.2975	.2975	0	%100
75	MP4C	X	-.5153	-.5153	0	%100
76	MP4C	Z	.2975	.2975	0	%100
77	MP5C	X	-.5153	-.5153	0	%100
78	MP5C	Z	.2975	.2975	0	%100
79	OVP	X	-.4455	-.4455	0	%100
80	OVP	Z	.2572	.2572	0	%100
81	M71	X	-.156	-.156	0	%100
82	M71	Z	.09	.09	0	%100
83	M74	X	-.156	-.156	0	%100
84	M74	Z	.09	.09	0	%100
85	M77	X	-.8183	-.8183	0	%100
86	M77	Z	.4725	.4725	0	%100
87	M89	X	-.6238	-.6238	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
88	M89	Z	.3602	.3602	0	%100
89	M90	X	-.2046	-.2046	0	%100
90	M90	Z	.1181	.1181	0	%100
91	M91	X	-.2046	-.2046	0	%100
92	M91	Z	.1181	.1181	0	%100
93	M93A	X	-.9404	-.9404	0	%100
94	M93A	Z	.543	.543	0	%100
95	M94	X	-.5079	-.5079	0	%100
96	M94	Z	.2932	.2932	0	%100
97	M95	X	-.9404	-.9404	0	%100
98	M95	Z	.543	.543	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	0	0	0	%100
2	M39	Z	0	0	0	%100
3	M40	X	-.7322	-.7322	0	%100
4	M40	Z	0	0	0	%100
5	M43	X	-.6673	-.6673	0	%100
6	M43	Z	0	0	0	%100
7	MP1A	X	-.5951	-.5951	0	%100
8	MP1A	Z	0	0	0	%100
9	M112A	X	-.1273	-.1273	0	%100
10	M112A	Z	0	0	0	%100
11	M113A	X	-.1273	-.1273	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	0	0	0	%100
15	M33	X	0	0	0	%100
16	M33	Z	0	0	0	%100
17	M34	X	0	0	0	%100
18	M34	Z	0	0	0	%100
19	M16	X	-1.1275	-1.1275	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	-.1831	-.1831	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	-.1668	-.1668	0	%100
24	M18	Z	0	0	0	%100
25	M22	X	-.1273	-.1273	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	-.5092	-.5092	0	%100
28	M23	Z	0	0	0	%100
29	M26	X	-1.1275	-1.1275	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-.1831	-.1831	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-.1668	-.1668	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	-.5092	-.5092	0	%100
36	M32A	Z	0	0	0	%100
37	M33A	X	-.1273	-.1273	0	%100
38	M33A	Z	0	0	0	%100
39	M36	X	-.5414	-.5414	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	-.5414	-.5414	0	%100
42	M37	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
43	M38	X	-5329	-5329	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	-5414	-5414	0	%100
46	M39A	Z	0	0	0	%100
47	M40A	X	-5414	-5414	0	%100
48	M40A	Z	0	0	0	%100
49	M41	X	-5329	-5329	0	%100
50	M41	Z	0	0	0	%100
51	MP2A	X	-7203	-7203	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-5951	-5951	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-5951	-5951	0	%100
56	MP4A	Z	0	0	0	%100
57	MP5A	X	-5951	-5951	0	%100
58	MP5A	Z	0	0	0	%100
59	MP1C	X	-5951	-5951	0	%100
60	MP1C	Z	0	0	0	%100
61	MP1B	X	-5951	-5951	0	%100
62	MP1B	Z	0	0	0	%100
63	MP2B	X	-7203	-7203	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	-5951	-5951	0	%100
66	MP3B	Z	0	0	0	%100
67	MP4B	X	-5951	-5951	0	%100
68	MP4B	Z	0	0	0	%100
69	MP5B	X	-5951	-5951	0	%100
70	MP5B	Z	0	0	0	%100
71	MP2C	X	-7203	-7203	0	%100
72	MP2C	Z	0	0	0	%100
73	MP3C	X	-5951	-5951	0	%100
74	MP3C	Z	0	0	0	%100
75	MP4C	X	-5951	-5951	0	%100
76	MP4C	Z	0	0	0	%100
77	MP5C	X	-5951	-5951	0	%100
78	MP5C	Z	0	0	0	%100
79	OVP	X	-5144	-5144	0	%100
80	OVP	Z	0	0	0	%100
81	M71	X	0	0	0	%100
82	M71	Z	0	0	0	%100
83	M74	X	-5403	-5403	0	%100
84	M74	Z	0	0	0	%100
85	M77	X	-7087	-7087	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	-5403	-5403	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	-7087	-7087	0	%100
90	M90	Z	0	0	0	%100
91	M91	X	0	0	0	%100
92	M91	Z	0	0	0	%100
93	M93A	X	-1.2524	-1.2524	0	%100
94	M93A	Z	0	0	0	%100
95	M94	X	-.753	-.753	0	%100
96	M94	Z	0	0	0	%100
97	M95	X	-.753	-.753	0	%100
98	M95	Z	0	0	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-0.3255	-0.3255	0	%100
2	M39	Z	-0.1879	-0.1879	0	%100
3	M40	X	-0.4756	-0.4756	0	%100
4	M40	Z	-0.2746	-0.2746	0	%100
5	M43	X	-0.4334	-0.4334	0	%100
6	M43	Z	-0.2502	-0.2502	0	%100
7	MP1A	X	-0.5153	-0.5153	0	%100
8	MP1A	Z	-0.2975	-0.2975	0	%100
9	M112A	X	-0.3307	-0.3307	0	%100
10	M112A	Z	-0.1909	-0.1909	0	%100
11	M113A	X	0	0	0	%100
12	M113A	Z	0	0	0	%100
13	M32	X	-0.1563	-0.1563	0	%100
14	M32	Z	-0.0902	-0.0902	0	%100
15	M33	X	-0.1563	-0.1563	0	%100
16	M33	Z	-0.0902	-0.0902	0	%100
17	M34	X	-0.1538	-0.1538	0	%100
18	M34	Z	-0.0888	-0.0888	0	%100
19	M16	X	-0.3255	-0.3255	0	%100
20	M16	Z	-0.1879	-0.1879	0	%100
21	M17	X	-0.4756	-0.4756	0	%100
22	M17	Z	-0.2746	-0.2746	0	%100
23	M18	X	-0.4334	-0.4334	0	%100
24	M18	Z	-0.2502	-0.2502	0	%100
25	M22	X	0	0	0	%100
26	M22	Z	0	0	0	%100
27	M23	X	-0.3307	-0.3307	0	%100
28	M23	Z	-0.1909	-0.1909	0	%100
29	M26	X	-1.3019	-1.3019	0	%100
30	M26	Z	-0.7517	-0.7517	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M32A	X	-0.3307	-0.3307	0	%100
36	M32A	Z	-0.1909	-0.1909	0	%100
37	M33A	X	-0.3307	-0.3307	0	%100
38	M33A	Z	-0.1909	-0.1909	0	%100
39	M36	X	-0.1563	-0.1563	0	%100
40	M36	Z	-0.0902	-0.0902	0	%100
41	M37	X	-0.1563	-0.1563	0	%100
42	M37	Z	-0.0902	-0.0902	0	%100
43	M38	X	-0.1538	-0.1538	0	%100
44	M38	Z	-0.0888	-0.0888	0	%100
45	M39A	X	-0.6252	-0.6252	0	%100
46	M39A	Z	-0.3609	-0.3609	0	%100
47	M40A	X	-0.6252	-0.6252	0	%100
48	M40A	Z	-0.3609	-0.3609	0	%100
49	M41	X	-0.6154	-0.6154	0	%100
50	M41	Z	-0.3553	-0.3553	0	%100
51	MP2A	X	-0.6238	-0.6238	0	%100
52	MP2A	Z	-0.3602	-0.3602	0	%100
53	MP3A	X	-0.5153	-0.5153	0	%100
54	MP3A	Z	-0.2975	-0.2975	0	%100
55	MP4A	X	-0.5153	-0.5153	0	%100
56	MP4A	Z	-0.2975	-0.2975	0	%100
57	MP5A	X	-0.5153	-0.5153	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
58	MP5A	Z	-0.2975	-0.2975	0	%100
59	MP1C	X	-0.5153	-0.5153	0	%100
60	MP1C	Z	-0.2975	-0.2975	0	%100
61	MP1B	X	-0.5153	-0.5153	0	%100
62	MP1B	Z	-0.2975	-0.2975	0	%100
63	MP2B	X	-0.6238	-0.6238	0	%100
64	MP2B	Z	-0.3602	-0.3602	0	%100
65	MP3B	X	-0.5153	-0.5153	0	%100
66	MP3B	Z	-0.2975	-0.2975	0	%100
67	MP4B	X	-0.5153	-0.5153	0	%100
68	MP4B	Z	-0.2975	-0.2975	0	%100
69	MP5B	X	-0.5153	-0.5153	0	%100
70	MP5B	Z	-0.2975	-0.2975	0	%100
71	MP2C	X	-0.6238	-0.6238	0	%100
72	MP2C	Z	-0.3602	-0.3602	0	%100
73	MP3C	X	-0.5153	-0.5153	0	%100
74	MP3C	Z	-0.2975	-0.2975	0	%100
75	MP4C	X	-0.5153	-0.5153	0	%100
76	MP4C	Z	-0.2975	-0.2975	0	%100
77	MP5C	X	-0.5153	-0.5153	0	%100
78	MP5C	Z	-0.2975	-0.2975	0	%100
79	OVP	X	-0.4455	-0.4455	0	%100
80	OVP	Z	-0.2572	-0.2572	0	%100
81	M71	X	-0.156	-0.156	0	%100
82	M71	Z	-0.09	-0.09	0	%100
83	M74	X	-0.6238	-0.6238	0	%100
84	M74	Z	-0.3602	-0.3602	0	%100
85	M77	X	-0.2046	-0.2046	0	%100
86	M77	Z	-0.1181	-0.1181	0	%100
87	M89	X	-0.156	-0.156	0	%100
88	M89	Z	-0.09	-0.09	0	%100
89	M90	X	-0.8183	-0.8183	0	%100
90	M90	Z	-0.4725	-0.4725	0	%100
91	M91	X	-0.2046	-0.2046	0	%100
92	M91	Z	-0.1181	-0.1181	0	%100
93	M93A	X	-0.9404	-0.9404	0	%100
94	M93A	Z	-0.543	-0.543	0	%100
95	M94	X	-0.9404	-0.9404	0	%100
96	M94	Z	-0.543	-0.543	0	%100
97	M95	X	-0.5079	-0.5079	0	%100
98	M95	Z	-0.2932	-0.2932	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M39	X	-0.5637	-0.5637	0	%100
2	M39	Z	-0.9764	-0.9764	0	%100
3	M40	X	-0.0915	-0.0915	0	%100
4	M40	Z	-0.1585	-0.1585	0	%100
5	M43	X	-0.0834	-0.0834	0	%100
6	M43	Z	-0.1445	-0.1445	0	%100
7	MP1A	X	-0.2975	-0.2975	0	%100
8	MP1A	Z	-0.5153	-0.5153	0	%100
9	M112A	X	-0.2546	-0.2546	0	%100
10	M112A	Z	-0.4409	-0.4409	0	%100
11	M113A	X	-0.0636	-0.0636	0	%100
12	M113A	Z	-0.1102	-0.1102	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
13	M32	X	-2707	-2707	0	%100
14	M32	Z	-4689	-4689	0	%100
15	M33	X	-2707	-2707	0	%100
16	M33	Z	-4689	-4689	0	%100
17	M34	X	-2665	-2665	0	%100
18	M34	Z	-4615	-4615	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	-3661	-3661	0	%100
22	M17	Z	-6341	-6341	0	%100
23	M18	X	-3336	-3336	0	%100
24	M18	Z	-5779	-5779	0	%100
25	M22	X	-0636	-0636	0	%100
26	M22	Z	-1102	-1102	0	%100
27	M23	X	-0636	-0636	0	%100
28	M23	Z	-1102	-1102	0	%100
29	M26	X	-5637	-5637	0	%100
30	M26	Z	-9764	-9764	0	%100
31	M27	X	-0915	-0915	0	%100
32	M27	Z	-1585	-1585	0	%100
33	M28	X	-0834	-0834	0	%100
34	M28	Z	-1445	-1445	0	%100
35	M32A	X	-0636	-0636	0	%100
36	M32A	Z	-1102	-1102	0	%100
37	M33A	X	-2546	-2546	0	%100
38	M33A	Z	-4409	-4409	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39A	X	-2707	-2707	0	%100
46	M39A	Z	-4689	-4689	0	%100
47	M40A	X	-2707	-2707	0	%100
48	M40A	Z	-4689	-4689	0	%100
49	M41	X	-2665	-2665	0	%100
50	M41	Z	-4615	-4615	0	%100
51	MP2A	X	-3602	-3602	0	%100
52	MP2A	Z	-6238	-6238	0	%100
53	MP3A	X	-2975	-2975	0	%100
54	MP3A	Z	-5153	-5153	0	%100
55	MP4A	X	-2975	-2975	0	%100
56	MP4A	Z	-5153	-5153	0	%100
57	MP5A	X	-2975	-2975	0	%100
58	MP5A	Z	-5153	-5153	0	%100
59	MP1C	X	-2975	-2975	0	%100
60	MP1C	Z	-5153	-5153	0	%100
61	MP1B	X	-2975	-2975	0	%100
62	MP1B	Z	-5153	-5153	0	%100
63	MP2B	X	-3602	-3602	0	%100
64	MP2B	Z	-6238	-6238	0	%100
65	MP3B	X	-2975	-2975	0	%100
66	MP3B	Z	-5153	-5153	0	%100
67	MP4B	X	-2975	-2975	0	%100
68	MP4B	Z	-5153	-5153	0	%100
69	MP5B	X	-2975	-2975	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
70	MP5B	Z	-5153	-5153	0	%100
71	MP2C	X	-3602	-3602	0	%100
72	MP2C	Z	-6238	-6238	0	%100
73	MP3C	X	-2975	-2975	0	%100
74	MP3C	Z	-5153	-5153	0	%100
75	MP4C	X	-2975	-2975	0	%100
76	MP4C	Z	-5153	-5153	0	%100
77	MP5C	X	-2975	-2975	0	%100
78	MP5C	Z	-5153	-5153	0	%100
79	OVP	X	-2572	-2572	0	%100
80	OVP	Z	-4455	-4455	0	%100
81	M71	X	-2701	-2701	0	%100
82	M71	Z	-4679	-4679	0	%100
83	M74	X	-2701	-2701	0	%100
84	M74	Z	-4679	-4679	0	%100
85	M77	X	0	0	0	%100
86	M77	Z	0	0	0	%100
87	M89	X	0	0	0	%100
88	M89	Z	0	0	0	%100
89	M90	X	-3543	-3543	0	%100
90	M90	Z	-6137	-6137	0	%100
91	M91	X	-3543	-3543	0	%100
92	M91	Z	-6137	-6137	0	%100
93	M93A	X	-3765	-3765	0	%100
94	M93A	Z	-6521	-6521	0	%100
95	M94	X	-6262	-6262	0	%100
96	M94	Z	-1.0846	-1.0846	0	%100
97	M95	X	-3765	-3765	0	%100
98	M95	Z	-6521	-6521	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M33	Y	-5.9407	-9.3824	0	.7708
2	M33	Y	-9.3824	-10.0874	.7708	1.5417
3	M33	Y	-10.0874	-8.0556	1.5417	2.3125
4	M26	Y	-40.9683	-12.4612	0	.2842
5	M26	Y	-12.4612	-12.4612	.2842	.5684
6	M26	Y	-12.4612	-40.9683	.5684	.8526
7	M32A	Y	-18.9324	-10.9789	0	1.2911
8	M32A	Y	-10.9789	-3.0254	1.2911	2.5823
9	M33A	Y	-3.0254	-10.9789	.2869	1.5781
10	M33A	Y	-10.9789	-18.9324	1.5781	2.8692
11	M36	Y	-5.9407	-9.3824	0	.7708
12	M36	Y	-9.3824	-10.0874	.7708	1.5417
13	M36	Y	-10.0874	-8.0556	1.5417	2.3125
14	M32	Y	-5.9407	-9.3824	0	.7708
15	M32	Y	-9.3824	-10.0874	.7708	1.5417
16	M32	Y	-10.0874	-8.0556	1.5417	2.3125
17	M16	Y	-40.9683	-12.4612	0	.2842
18	M16	Y	-12.4612	-12.4612	.2842	.5684
19	M16	Y	-12.4612	-40.9683	.5684	.8526
20	M23	Y	-3.0254	-10.9789	.2869	1.5781
21	M23	Y	-10.9789	-18.9324	1.5781	2.8692
22	M22	Y	-18.9324	-10.9789	0	1.2911
23	M22	Y	-10.9789	-3.0254	1.2911	2.5823
24	M40A	Y	-5.9407	-9.3824	0	.7708



Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
25	M40A	Y	-9.3824	-10.0874	.7708	1.5417
26	M40A	Y	-10.0874	-8.0556	1.5417	2.3125
27	M39	Y	-40.9683	-12.4612	0	.2842
28	M39	Y	-12.4612	-12.4612	.2842	.5684
29	M39	Y	-12.4612	-40.9683	.5684	.8526
30	M113A	Y	-3.0254	-10.9789	.2869	1.5781
31	M113A	Y	-10.9789	-18.9324	1.5781	2.8692
32	M39A	Y	-5.9407	-9.3824	0	.7708
33	M39A	Y	-9.3824	-10.0874	.7708	1.5417
34	M39A	Y	-10.0874	-8.0556	1.5417	2.3125
35	M112A	Y	-18.9324	-10.9789	0	1.2911
36	M112A	Y	-10.9789	-3.0254	1.2911	2.5823
37	M37	Y	-5.9407	-9.3824	0	.7708
38	M37	Y	-9.3824	-10.0874	.7708	1.5417
39	M37	Y	-10.0874	-8.0556	1.5417	2.3125
40	M23	Y	-24.4473	-24.4473	.25	1.75
41	M32A	Y	-24.4473	-24.4473	1.1192	2.6192
42	M113A	Y	-24.4473	-24.4473	.25	1.75
43	M22	Y	-24.4473	-24.4473	1.1192	2.6192
44	M112A	Y	-24.4473	-24.4473	1.1192	2.6192
45	M33A	Y	-24.4473	-24.4473	.25	1.75

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M33	Y	-11.2212	-17.7224	0	.7708
2	M33	Y	-17.7224	-19.054	.7708	1.5417
3	M33	Y	-19.054	-15.2161	1.5417	2.3125
4	M26	Y	-77.3846	-23.5377	0	.2842
5	M26	Y	-23.5377	-23.5377	.2842	.5684
6	M26	Y	-23.5377	-77.3846	.5684	.8526
7	M32A	Y	-35.7612	-20.7379	0	1.2911
8	M32A	Y	-20.7379	-5.7147	1.2911	2.5823
9	M33A	Y	-5.7147	-20.7379	.2869	1.5781
10	M33A	Y	-20.7379	-35.7612	1.5781	2.8692
11	M36	Y	-11.2212	-17.7224	0	.7708
12	M36	Y	-17.7224	-19.054	.7708	1.5417
13	M36	Y	-19.054	-15.2161	1.5417	2.3125
14	M32	Y	-11.2212	-17.7224	0	.7708
15	M32	Y	-17.7224	-19.054	.7708	1.5417
16	M32	Y	-19.054	-15.2161	1.5417	2.3125
17	M16	Y	-77.3846	-23.5377	0	.2842
18	M16	Y	-23.5377	-23.5377	.2842	.5684
19	M16	Y	-23.5377	-77.3846	.5684	.8526
20	M23	Y	-5.7147	-20.7379	.2869	1.5781
21	M23	Y	-20.7379	-35.7612	1.5781	2.8692
22	M22	Y	-35.7612	-20.7379	0	1.2911
23	M22	Y	-20.7379	-5.7147	1.2911	2.5823
24	M40A	Y	-11.2212	-17.7224	0	.7708
25	M40A	Y	-17.7224	-19.054	.7708	1.5417
26	M40A	Y	-19.054	-15.2161	1.5417	2.3125
27	M39	Y	-77.3846	-23.5377	0	.2842
28	M39	Y	-23.5377	-23.5377	.2842	.5684
29	M39	Y	-23.5377	-77.3846	.5684	.8526
30	M113A	Y	-5.7147	-20.7379	.2869	1.5781
31	M113A	Y	-20.7379	-35.7612	1.5781	2.8692
32	M39A	Y	-11.2212	-17.7224	0	.7708



Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
33	M39A	Y	-17.7224	-19.054	.7708	1.5417
34	M39A	Y	-19.054	-15.2161	1.5417	2.3125
35	M112A	Y	-35.7612	-20.7379	0	1.2911
36	M112A	Y	-20.7379	-5.7147	1.2911	2.5823
37	M37	Y	-11.2212	-17.7224	0	.7708
38	M37	Y	-17.7224	-19.054	.7708	1.5417
39	M37	Y	-19.054	-15.2161	1.5417	2.3125
40	M23	Y	-46.1782	-46.1782	.25	1.75
41	M32A	Y	-46.1782	-46.1782	1.1192	2.6192
42	M113A	Y	-46.1782	-46.1782	.25	1.75
43	M22	Y	-46.1782	-46.1782	1.1192	2.6192
44	M112A	Y	-46.1782	-46.1782	1.1192	2.6192
45	M33A	Y	-46.1782	-46.1782	.25	1.75

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M33	Y	-.0271	-.0954	0	.925
2	M33	Y	-.0954	-.1226	.925	1.85
3	M33	Y	-.1226	-.1086	1.85	2.775
4	M26	Y	-.0134	-.0134	.0482	.8526
5	M27	Y	-.1032	-.1577	0	1.0417
6	M27	Y	-.1577	-.2427	1.0417	2.0833
7	M27	Y	-.2427	-.2819	2.0833	3.125
8	M27	Y	-.2819	-.245	3.125	4.1667
9	M32A	Y	-.156	-.156	.2302	2.6467
10	M38A	Y	-.5667	-.5667	0	.25
11	M26	Y	-.0134	-.0134	0	.8044
12	M33A	Y	-.156	-.156	.2225	2.639
13	M36	Y	-.0457	-.1152	0	1.2333
14	M36	Y	-.1152	-.1365	1.2333	2.4667
15	M36	Y	-.1365	-.1094	2.4667	3.7
16	M32	Y	-.0457	-.1152	0	1.2333
17	M32	Y	-.1152	-.1365	1.2333	2.4667
18	M32	Y	-.1365	-.1094	2.4667	3.7
19	M16	Y	-.0134	-.0134	0	.8044
20	M17	Y	-.1032	-.1577	0	1.0417
21	M17	Y	-.1577	-.2427	1.0417	2.0833
22	M17	Y	-.2427	-.2819	2.0833	3.125
23	M17	Y	-.2819	-.245	3.125	4.1667
24	M23	Y	-.156	-.156	.2225	2.639
25	M16	Y	-.0134	-.0134	.0482	.8526
26	M22	Y	-.156	-.156	.2302	2.6467
27	M40A	Y	.0022	-.0791	0	1.3875
28	M40A	Y	-.0791	-.169	1.3875	2.775
29	M48	Y	-.156	-.156	0	.25
30	M50	Y	-.5667	-.5667	0	.25
31	M39	Y	-.0134	-.0134	0	.8044
32	M40	Y	-.1032	-.1577	0	1.0417
33	M40	Y	-.1577	-.2427	1.0417	2.0833
34	M40	Y	-.2427	-.2819	2.0833	3.125
35	M40	Y	-.2819	-.245	3.125	4.1667
36	M113A	Y	-.156	-.156	.2225	2.639
37	M39A	Y	-.0271	-.0954	0	.925
38	M39A	Y	-.0954	-.1226	.925	1.85
39	M39A	Y	-.1226	-.1086	1.85	2.775
40	M54	Y	-.5667	-.5667	0	.25



Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
41	M39	Y	-0.134	-0.134	.0482	.8526
42	M112A	Y	-.156	-.156	.2302	2.6467
43	M37	Y	-.0091	-.1004	0	1.2333
44	M37	Y	-.1004	-.1375	1.2333	2.4667
45	M37	Y	-.1375	-.1104	2.4667	3.7
46	M46A	Y	-.156	-.156	0	.25
47	M34	Y	-.084	-.228	.1711	.8501
48	M34	Y	-.228	-.3	.8501	1.5292
49	M34	Y	-.3	-.3	1.5292	2.2083
50	M34	Y	-.3	-.3	2.2083	2.8874
51	M34	Y	-.3	-.228	2.8874	3.5665
52	M34	Y	-.228	-.084	3.5665	4.2456
53	M23	Y	-.1956	-.1956	.25	1.75
54	M32A	Y	-.1956	-.1956	1.1192	2.6192
55	M113A	Y	-.1956	-.1956	.25	1.75
56	M22	Y	-.1956	-.1956	1.1192	2.6192
57	M41	Y	-.084	-.228	.1711	.8501
58	M41	Y	-.228	-.3	.8501	1.5292
59	M41	Y	-.3	-.3	1.5292	2.2083
60	M41	Y	-.3	-.3	2.2083	2.8874
61	M41	Y	-.3	-.228	2.8874	3.5665
62	M41	Y	-.228	-.084	3.5665	4.2456
63	M112A	Y	-.1956	-.1956	1.1192	2.6192
64	M33A	Y	-.1956	-.1956	.25	1.75
65	M38	Y	-.084	-.228	.1711	.8501
66	M38	Y	-.228	-.3	.8501	1.5292
67	M38	Y	-.3	-.3	1.5292	2.2083
68	M38	Y	-.3	-.3	2.2083	2.8874
69	M38	Y	-.3	-.228	2.8874	3.5665
70	M38	Y	-.228	-.084	3.5665	4.2456

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M33	Z	-.0678	-.2385	0	.925
2	M33	Z	-.2385	-.3064	.925	1.85
3	M33	Z	-.3064	-.2716	1.85	2.775
4	M26	Z	-.0335	-.0335	.0482	.8526
5	M27	Z	-.2579	-.3943	0	1.0417
6	M27	Z	-.3943	-.6068	1.0417	2.0833
7	M27	Z	-.6068	-.7049	2.0833	3.125
8	M27	Z	-.7049	-.6124	3.125	4.1667
9	M32A	Z	-.3899	-.3899	.2302	2.6467
10	M38A	Z	-1.4167	-1.4167	0	.25
11	M26	Z	-.0335	-.0335	0	.8044
12	M33A	Z	-.3899	-.3899	.2225	2.639
13	M36	Z	-.1143	-.2881	0	1.2333
14	M36	Z	-.2881	-.3412	1.2333	2.4667
15	M36	Z	-.3412	-.2734	2.4667	3.7
16	M32	Z	-.1143	-.2881	0	1.2333
17	M32	Z	-.2881	-.3412	1.2333	2.4667
18	M32	Z	-.3412	-.2734	2.4667	3.7
19	M16	Z	-.0335	-.0335	0	.8044
20	M17	Z	-.2579	-.3943	0	1.0417
21	M17	Z	-.3943	-.6068	1.0417	2.0833
22	M17	Z	-.6068	-.7049	2.0833	3.125
23	M17	Z	-.7049	-.6124	3.125	4.1667



Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
24	M23	Z	-.3899	-.3899	.2225	2.639
25	M16	Z	-.0335	-.0335	.0482	.8526
26	M22	Z	-.3899	-.3899	.2302	2.6467
27	M40A	Z	.0054	-.1977	0	1.3875
28	M40A	Z	-.1977	-.4224	1.3875	2.775
29	M48	Z	-.39	-.39	0	.25
30	M50	Z	-1.4167	-1.4167	0	.25
31	M39	Z	-.0335	-.0335	0	.8044
32	M40	Z	-.2579	-.3943	0	1.0417
33	M40	Z	-.3943	-.6068	1.0417	2.0833
34	M40	Z	-.6068	-.7049	2.0833	3.125
35	M40	Z	-.7049	-.6124	3.125	4.1667
36	M113A	Z	-.3899	-.3899	.2225	2.639
37	M39A	Z	-.0678	-.2385	0	.925
38	M39A	Z	-.2385	-.3064	.925	1.85
39	M39A	Z	-.3064	-.2716	1.85	2.775
40	M54	Z	-1.4167	-1.4167	0	.25
41	M39	Z	-.0335	-.0335	.0482	.8526
42	M112A	Z	-.3899	-.3899	.2302	2.6467
43	M37	Z	-.0226	-.2511	0	1.2333
44	M37	Z	-.2511	-.3437	1.2333	2.4667
45	M37	Z	-.3437	-.276	2.4667	3.7
46	M46A	Z	-.39	-.39	0	.25
47	M34	Z	-.21	-.57	.1711	.8501
48	M34	Z	-.57	-.75	.8501	1.5292
49	M34	Z	-.75	-.75	1.5292	2.2083
50	M34	Z	-.75	-.75	2.2083	2.8874
51	M34	Z	-.75	-.57	2.8874	3.5665
52	M34	Z	-.57	-.21	3.5665	4.2456
53	M23	Z	-.4889	-.4889	.25	1.75
54	M32A	Z	-.4889	-.4889	1.1192	2.6192
55	M113A	Z	-.4889	-.4889	.25	1.75
56	M22	Z	-.4889	-.4889	1.1192	2.6192
57	M41	Z	-.21	-.57	.1711	.8501
58	M41	Z	-.57	-.75	.8501	1.5292
59	M41	Z	-.75	-.75	1.5292	2.2083
60	M41	Z	-.75	-.75	2.2083	2.8874
61	M41	Z	-.75	-.57	2.8874	3.5665
62	M41	Z	-.57	-.21	3.5665	4.2456
63	M112A	Z	-.4889	-.4889	1.1192	2.6192
64	M33A	Z	-.4889	-.4889	.25	1.75
65	M38	Z	-.21	-.57	.1711	.8501
66	M38	Z	-.57	-.75	.8501	1.5292
67	M38	Z	-.75	-.75	1.5292	2.2083
68	M38	Z	-.75	-.75	2.2083	2.8874
69	M38	Z	-.75	-.57	2.8874	3.5665
70	M38	Z	-.57	-.21	3.5665	4.2456

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M33	X	.0678	.2385	0	.925
2	M33	X	.2385	.3064	.925	1.85
3	M33	X	.3064	.2716	1.85	2.775
4	M26	X	.0335	.0335	.0482	.8526
5	M27	X	.2579	.3943	0	1.0417
6	M27	X	.3943	.6068	1.0417	2.0833



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777286
 Model Name : Antenna Mount Analysis

Sept 18, 2023
 9:05 AM
 Checked By: _____

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
7	M27	X	.6068	.7049	2.0833	3.125
8	M27	X	.7049	.6124	3.125	4.1667
9	M32A	X	.3899	.3899	.2302	2.6467
10	M38A	X	1.4167	1.4167	0	.25
11	M26	X	.0335	.0335	0	.8044
12	M33A	X	.3899	.3899	.2225	2.639
13	M36	X	.1143	.2881	0	1.2333
14	M36	X	.2881	.3412	1.2333	2.4667
15	M36	X	.3412	.2734	2.4667	3.7
16	M32	X	.1143	.2881	0	1.2333
17	M32	X	.2881	.3412	1.2333	2.4667
18	M32	X	.3412	.2734	2.4667	3.7
19	M16	X	.0335	.0335	0	.8044
20	M17	X	.2579	.3943	0	1.0417
21	M17	X	.3943	.6068	1.0417	2.0833
22	M17	X	.6068	.7049	2.0833	3.125
23	M17	X	.7049	.6124	3.125	4.1667
24	M23	X	.3899	.3899	.2225	2.639
25	M16	X	.0335	.0335	.0482	.8526
26	M22	X	.3899	.3899	.2302	2.6467
27	M40A	X	-.0054	.1977	0	1.3875
28	M40A	X	.1977	.4224	1.3875	2.775
29	M48	X	.39	.39	0	.25
30	M50	X	1.4167	1.4167	0	.25
31	M39	X	.0335	.0335	0	.8044
32	M40	X	.2579	.3943	0	1.0417
33	M40	X	.3943	.6068	1.0417	2.0833
34	M40	X	.6068	.7049	2.0833	3.125
35	M40	X	.7049	.6124	3.125	4.1667
36	M113A	X	.3899	.3899	.2225	2.639
37	M39A	X	.0678	.2385	0	.925
38	M39A	X	.2385	.3064	.925	1.85
39	M39A	X	.3064	.2716	1.85	2.775
40	M54	X	1.4167	1.4167	0	.25
41	M39	X	.0335	.0335	.0482	.8526
42	M112A	X	.3899	.3899	.2302	2.6467
43	M37	X	.0226	.2511	0	1.2333
44	M37	X	.2511	.3437	1.2333	2.4667
45	M37	X	.3437	.276	2.4667	3.7
46	M46A	X	.39	.39	0	.25
47	M34	X	.21	.57	.1711	.8501
48	M34	X	.57	.75	.8501	1.5292
49	M34	X	.75	.75	1.5292	2.2083
50	M34	X	.75	.75	2.2083	2.8874
51	M34	X	.75	.57	2.8874	3.5665
52	M34	X	.57	.21	3.5665	4.2456
53	M23	X	.4889	.4889	.25	1.75
54	M32A	X	.4889	.4889	1.1192	2.6192
55	M113A	X	.4889	.4889	.25	1.75
56	M22	X	.4889	.4889	1.1192	2.6192
57	M41	X	.21	.57	.1711	.8501
58	M41	X	.57	.75	.8501	1.5292
59	M41	X	.75	.75	1.5292	2.2083
60	M41	X	.75	.75	2.2083	2.8874
61	M41	X	.75	.57	2.8874	3.5665
62	M41	X	.57	.21	3.5665	4.2456
63	M112A	X	.4889	.4889	1.1192	2.6192

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
			ft	ft	ft	ft
64	M33A	X	.4889	.4889	.25	1.75
65	M38	X	.21	.57	.1711	.8501
66	M38	X	.57	.75	.8501	1.5292
67	M38	X	.75	.75	1.5292	2.2083
68	M38	X	.75	.75	2.2083	2.8874
69	M38	X	.75	.57	2.8874	3.5665
70	M38	X	.57	.21	3.5665	4.2456

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N74	N64	N78	N178	Y	A-B	-.009
2	N74	N64	N63	N181A	Y	A-B	-.009
3	N48A	N38A	N79	N177A	Y	A-B	-.009
4	N48A	N38A	N36	N186	Y	A-B	-.009
5	N69	N38	N27	N185C	Y	A-B	-.009
6	N69	N38	N14	N182A	Y	A-B	-.009
7	N179	N180	N178	N177A	Y	A-B	-.009
8	N188A	N187A	N185C	N186	Y	A-B	-.009
9	N184B	N183A	N181A	N182A	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N74	N64	N78	N178	Y	A-B	-.017
2	N74	N64	N63	N181A	Y	A-B	-.017
3	N48A	N38A	N79	N177A	Y	A-B	-.017
4	N48A	N38A	N36	N186	Y	A-B	-.017
5	N69	N38	N27	N185C	Y	A-B	-.017
6	N69	N38	N14	N182A	Y	A-B	-.017
7	N179	N180	N178	N177A	Y	A-B	-.017
8	N188A	N187A	N185C	N186	Y	A-B	-.017
9	N184B	N183A	N181A	N182A	Y	A-B	-.017

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N74	N64	N78	N178	Y	Two Way	-.000192
2	N74	N64	N63	N181A	Y	Two Way	-.000192
3	N48A	N38A	N79	N177A	Y	Two Way	-.000192
4	N48A	N38A	N36	N186	Y	Two Way	-.000192
5	N69	N38	N27	N185C	Y	Two Way	-.000192
6	N69	N38	N14	N182A	Y	Two Way	-.000192
7	N179	N180	N178	N177A	Y	Two Way	-.000192
8	N188A	N187A	N185C	N186	Y	Two Way	-.000192
9	N184B	N183A	N181A	N182A	Y	Two Way	-.000192

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N74	N64	N78	N178	Z	Two Way	-.00048
2	N74	N64	N63	N181A	Z	Two Way	-.00048
3	N48A	N38A	N79	N177A	Z	Two Way	-.00048
4	N48A	N38A	N36	N186	Z	Two Way	-.00048
5	N69	N38	N27	N185C	Z	Two Way	-.00048
6	N69	N38	N14	N182A	Z	Two Way	-.00048
7	N179	N180	N178	N177A	Z	Two Way	-.00048
8	N188A	N187A	N185C	N186	Z	Two Way	-.00048



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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
9	N184B	N183A	N181A	N182A	Z	Two Way	-.00048

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N74	N64	N78	N178	X	Two Way	.00048
2	N74	N64	N63	N181A	X	Two Way	.00048
3	N48A	N38A	N79	N177A	X	Two Way	.00048
4	N48A	N38A	N36	N186	X	Two Way	.00048
5	N69	N38	N27	N185C	X	Two Way	.00048
6	N69	N38	N14	N182A	X	Two Way	.00048
7	N179	N180	N178	N177A	X	Two Way	.00048
8	N188A	N187A	N185C	N186	X	Two Way	.00048
9	N184B	N183A	N181A	N182A	X	Two Way	.00048

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	N45	10	532.27	7	6472.21	1	.393	7	1.308	4	.219	4
2		4	-484.812	1	-3095.728	7	-.198	1	-1.31	10	-.218	10
3	N41	9	521.371	3	1474.414	3	.158	11	1.369	12	.175	9
4		3	-487.258	9	-3232.15	9	-.25	5	-1.37	6	-.338	3
5	N67	11	610.593	11	1689.087	11	.263	2	1.221	8	.345	13
6		5	-463.268	5	-3364.921	5	-.356	8	-1.231	2	-.105	7
7	N184A	10	3804.697	13	495.152	7	0	75	0	10	.001	4
8		4	-291.851	7	-6106.523	13	0	1	0	4	-.001	10
9	N187	3	3851.588	21	3091.93	21	.001	12	0	6	0	6
10		21	-221.623	3	-189.928	3	-.001	6	0	12	0	12
11	N190	17	3821.506	17	3067.033	17	.001	2	0	2	0	2
12		11	-347.52	11	-293.242	11	-.001	8	0	8	0	8
13	Totals:	10	10249.477	17	4727.562	1						
14		4	2795.022	74	-4727.561	7						

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

Member	Shape	Code Check	Lo...	LC	Shear Check	Lo.....	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn...	Cb	Eqn		
1	M39	PL5/8x6	.201	.426	7	.492	.426	y	23	102576...	121500	1.582	15.188	1.1	H1...
2	M40	HSS3X3X6	.180	1....	13	.085	.977	y	14	110880...	140346	11.213	11.213	1.836	H1...
3	M43	HSS3X3X6	.133	3....	4	.052	1....	y	13	123182...	140346	11.213	11.213	2.722	H1...
4	MP1A	PIPE_2.0	.324	6.49	5	.089	2....		1	17855.0...	32130	1.872	1.872	2.274	H1...
5	M112A	L2.5x1.5x4	.740	0	21	.049	0	z	21	16744.0...	30682.8	.461	1.597	2.226	H2-1
6	M113A	L2.5x1.5x4	.784	2....	16	.058	2....	z	16	16744.0...	30682.8	.461	1.597	2.351	H2-1
7	M32	PIPE_3.0	.144	0	22	.170	0		20	58150.23	65205	5.749	5.749	2.451	H1...
8	M33	PIPE_3.0	.171	2....	11	.165	0		18	58150.23	65205	5.749	5.749	2.126	H1...
9	M34	PIPE_3.0	.112	2....	10	.071	2....		11	58739.5...	65205	5.749	5.749	1.505	H1...
10	M16	PL5/8x6	.201	.426	15	.500	.426	y	19	102576...	121500	1.582	15.188	1.115	H1...
11	M17	HSS3X3X6	.183	1....	21	.086	.977	y	22	110880...	140346	11.213	11.213	1.836	H1...
12	M18	HSS3X3X6	.138	3....	12	.053	1....	y	21	123182...	140346	11.213	11.213	2.726	H1...
13	M22	L2.5x1.5x4	.742	0	17	.049	0	z	17	16744.0...	30682.8	.461	1.597	2.222	H2-1
14	M23	L2.5x1.5x4	.786	2....	24	.058	2....	z	24	16744.0...	30682.8	.461	1.597	2.356	H2-1
15	M26	PL5/8x6	.202	.426	11	.479	.426	y	14	102576...	121500	1.582	15.188	1.097	H1...
16	M27	HSS3X3X6	.182	1....	17	.086	.977	y	18	110880...	140346	11.213	11.213	1.836	H1...
17	M28	HSS3X3X6	.126	3....	8	.065	3....	z	2	123182...	140346	11.213	11.213	2.801	H1...
18	M32A	L2.5x1.5x4	.729	0	13	.049	0	z	13	16744.0...	30682.8	.461	1.597	2.244	H2-1
19	M33A	L2.5x1.5x4	.777	2....	20	.057	2....	z	20	16744.0...	30682.8	.461	1.597	2.341	H2-1
20	M36	PIPE_3.0	.142	0	18	.169	0		16	58150.23	65205	5.749	5.749	2.436	H1...



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

Member	Shape	Code Check	Lo...	LC	Shear Check	Lo.....	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn...	Cb	Eqn	
21	M37	PIPE_3.0	.171	3...	6	.163	0	14	58150.23	65205	5.749	5.749	2.059	H1-...
22	M38	PIPE_3.0	.113	2.3	6	.072	4...	5	58739.5...	65205	5.749	5.749	2.163	H1-...
23	M39A	PIPE_3.0	.142	0	14	.169	0	24	58150.23	65205	5.749	5.749	2.447	H1-...
24	M40A	PIPE_3.0	.169	2...	3	.164	0	22	58150.23	65205	5.749	5.749	2.118	H1-...
25	M41	PIPE_3.0	.122	1...	2	.074	4...	1	58739.5...	65205	5.749	5.749	1.636	H1-...
26	MP2A	PIPE_2.5	.333	6.49	4	.119	6.49	6	33961.6...	50715	3.596	3.596	2.232	H1-...
27	MP3A	PIPE_2.0	.456	6.49	10	.090	6.49	11	17855.0...	32130	1.872	1.872	2.243	H1-...
28	MP4A	PIPE_2.0	.455	6.49	10	.129	6.49	8	17855.0...	32130	1.872	1.872	2.191	H1-...
29	MP5A	PIPE_2.0	.323	6.49	10	.069	2...	12	17855.0...	32130	1.872	1.872	2.242	H1-...
30	MP1C	PIPE_2.0	.340	6.49	12	.096	6.49	10	17855.0...	32130	1.872	1.872	2.505	H1-...
31	MP1B	PIPE_2.0	.333	6.49	20	.098	6.49	6	17855.0...	32130	1.872	1.872	2.124	H1-...
32	MP2B	PIPE_2.5	.341	6.49	8	.113	6.49	10	33961.6...	50715	3.596	3.596	2.126	H1-...
33	MP3B	PIPE_2.0	.447	6.49	2	.087	6.49	2	17855.0...	32130	1.872	1.872	2.281	H1-...
34	MP4B	PIPE_2.0	.462	6.49	2	.133	6.49	12	17855.0...	32130	1.872	1.872	2.239	H1-...
35	MP5B	PIPE_2.0	.333	6.49	1	.071	2...	4	17855.0...	32130	1.872	1.872	2.348	H1-...
36	MP2C	PIPE_2.5	.346	6.49	12	.117	6.49	2	33961.6...	50715	3.596	3.596	2.315	H1-...
37	MP3C	PIPE_2.0	.464	6.49	6	.089	6.49	6	17855.0...	32130	1.872	1.872	2.194	H1-...
38	MP4C	PIPE_2.0	.457	6.49	6	.131	6.49	4	17855.0...	32130	1.872	1.872	2.1	H1-...
39	MP5C	PIPE_2.0	.338	6.49	5	.077	6.49	8	17855.0...	32130	1.872	1.872	2.585	H1-...
40	OVP	PIPE_2.0	.095	2...	6	.015	2...	6	27741.09	32130	1.872	1.872	1.933	H1-...
41	M71	PIPE_2.5	.238	10...	10	.124	11...	6	12179.2...	50715	3.596	3.596	1.229	H1-...
42	M74	PIPE_2.5	.238	10...	1	.127	11...	10	12179.2...	50715	3.596	3.596	1.199	H1-...
43	M77	L3X3X4	.522	0	5	.050	0	y 12	40333.37	46656	1.688	3.756	2.2	H2-1
44	M89	PIPE_2.5	.234	10...	5	.123	11...	2	12179.2...	50715	3.596	3.596	1.418	H1-...
45	M90	L3X3X4	.495	0	7	.047	.027	y 8	40333.37	46656	1.688	3.756	2.221	H2-1
46	M91	L3X3X4	.505	0	9	.049	1...	y 4	40333.37	46656	1.688	3.756	2.198	H2-1
47	M93A	LL3x3x3x6	.156	6...	13	.009	6...	z 4	46030.1...	70632	6.362	3.751	1	H1-...
48	M94	LL3x3x3x6	.158	6...	21	.009	6...	z 12	46030.1...	70632	6.362	3.751	1	H1-...
49	M95	LL3x3x3x6	.157	6...	17	.009	0	z 8	46030.1...	70632	6.362	3.751	1	H1-...

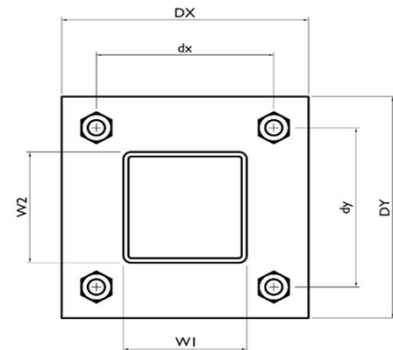
I. Mount-to-Tower Connection Check

Custom Orientation Required

Tower Connection Bolt Checks

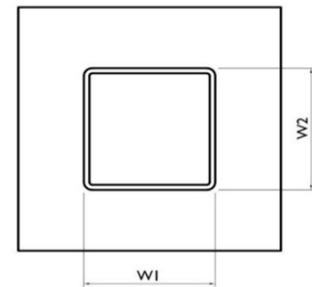
Bolt Orientation

Bolt Quantity per Reaction:	4
d_x (in) (Delta X of typ. bolt config. sketch):	4
d_y (in) (Delta Y of typ. bolt config. sketch):	4
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	2.7
Required Shear Strength / bolt (kips):	0.5
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	12.9%



Tower Connection Baseplate Checks

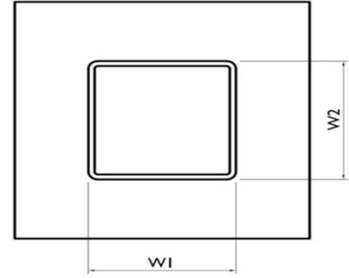
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	6
Plate Height, D_y (in):	6
W1 (in):	3
W2 (in):	3
Member Thickness (in):	0.375
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.75
Length of Yield Line, L_y (in):	4.19
Bolt Eccentricity, e (in):	1.06
M_u (kip-in):	2.81
$\Phi * M_n$ (kip-in):	19.09
Plate Bending Utilization:	14.7%



Tower Connection Weld Checks

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

Yes
Rectangle
None
5
3
3
12.00
12.00
12.00
36.00
1.875
1.875
1.12
6.96
16.1%



ATTACHMENT 4



54 Floydville Rd

Granby, CT 06035



Directions



Save



Nearby



Send to your phone



Share



Confirm or fix this location
The location shown is not precise



Suggest an edit on 54 Floydville Rd



Add a missing place

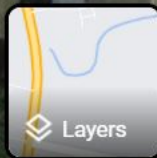
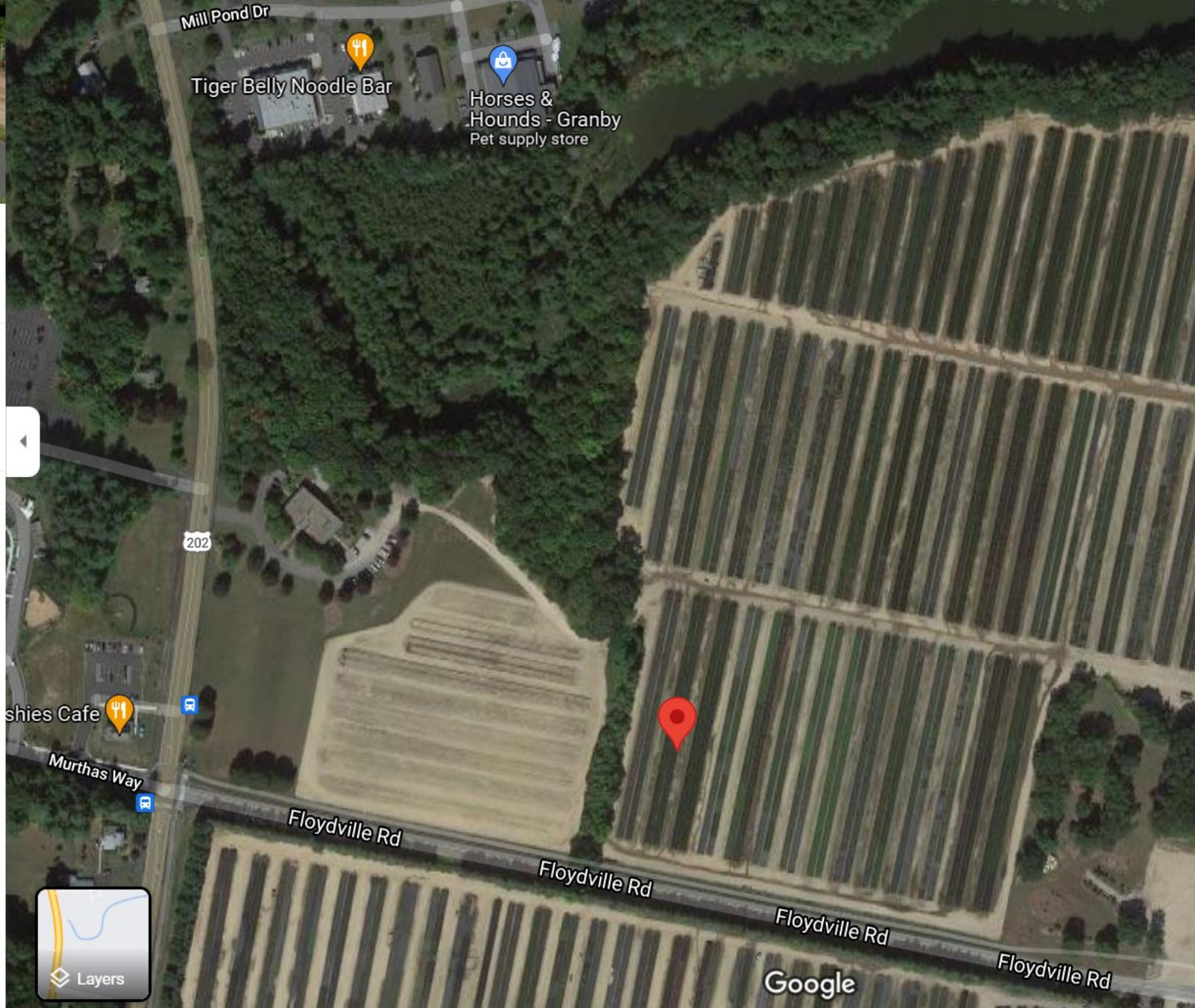


Add your business



Add a label

Photos



Google

54 FLOYDVILLE ROAD

Location 54 FLOYDVILLE ROAD

Mblu 15/ 10/ / /

Acct# 100469

Owner D I PAINE & SONS LLC

Assessment \$1,222,600

Appraisal \$1,746,400

PID 649

Building Count 2

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$1,230,400	\$516,000	\$1,746,400

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$861,400	\$361,200	\$1,222,600

Owner of Record

Owner D I PAINE & SONS LLC

Sale Price \$0

Co-Owner

Certificate

Address 54 FLOYDVILLE ROAD
EAST GRANBY, CT 06026

Book & Page 0160/0707

Sale Date 01/03/2006

Instrument CN

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
D I PAINE & SONS LLC	\$0		0160/0707	CN	01/03/2006
D I PAINE & SONS	\$0		0129/0622		08/01/2001
TYLER RUSSELL	\$0		0129/0616		08/01/2001
D I PAINE & SONS	\$0		0108/0546		12/05/1995

Building Information

Building 1 : Section 1

Year Built: 1986

Living Area: 24,900

Replacement Cost: \$1,292,584

Building Percent 73

Good:

Replacement Cost
Less Depreciation: \$943,600

Building Attributes	
Field	Description
STYLE	Light Indust
MODEL	Industrial
Grade	Average +10
Stories:	1
Occupancy	2
Exterior Wall A	Concr/Cinder
Exterior Wall B	Pre-finish Metl
Roof Structure	Gable/Hip
Roof Cover	Metal/Tin
Interior Wall A	Unfin/Minimum
Interior Wall B	Drywall
Interior Floor A	Concr-Finished
Interior Floor B	Vinyl/Asphalt
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	Partial
Bldg Use	Industrial C
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	3-1
Heat/AC	HEAT/AC SPLIT
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	-DESCRIPTION-
Rooms/Prtns	AVERAGE
Wall Height	16
% Comn Wall	0

Building 2 : Section 1

Year Built: 2017
Living Area: 10,200
Replacement Cost: \$210,146
Building Percent 74
Good:
Replacement Cost
Less Depreciation: \$155,500

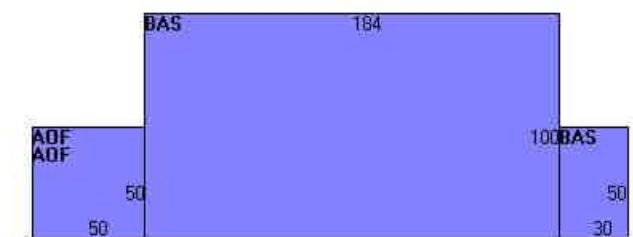
Building Attributes : Bldg 2 of 2	
Field	Description

Building Photo



(<http://images.vgsi.com/photos/EastGranbyCTPhotos//\00\01\17>)

Building Layout



(<http://images.vgsi.com/photos/EastGranbyCTPhotos//Sketches/>)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	19,900	19,900
AOF	Office, (Average)	5,000	5,000
		24,900	24,900

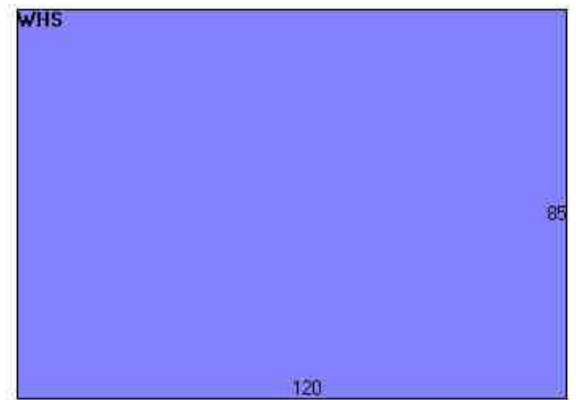
STYLE	Warehouse
MODEL	Industrial
Grade	Minimum
Stories:	1
Occupancy	1
Exterior Wall A	VinylPolyester
Exterior Wall B	
Roof Structure	Irregular
Roof Cover	Rubber Mem
Interior Wall A	Unfin/Minimum
Interior Wall B	
Interior Floor A	Concr Abv Grad
Interior Floor B	
Heating Fuel	None
Heating Type	None
AC Type	None
Bldg Use	Industrial C
Total Rooms	
Total Bedrms	
Total Baths	0
1st Floor Use:	
Heat/AC	NONE
Frame Type	NONE
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	
% Comn Wall	

Building Photo



(<http://images.vgsi.com/photos/EastGranbyCTPhotos//00\01\17>)

Building Layout



(<http://images.vgsi.com/photos/EastGranbyCTPhotos//Sketches/>)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
WHS	Warehouse	10,200	10,200
		10,200	10,200

Extra Features

Extra Features				<u>Legend</u>
Code	Description	Size	Value	Bldg #
MEZ	Mezzanine	2000 S.F.	\$21,900	1
A/C	Air Condition	5000 S.F.	\$9,100	1

Land

Land Use

Use Code	3-1
Description	Industrial C

Land Line Valuation

Size (Acres)	17.3
Frontage	0

Zone CP
Neighborhood
Alt Land Appr No
Category

Depth 0
Assessed Value \$361,200
Appraised Value \$516,000

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHED	Shed	A	Average	280 S.F.	\$3,500	2
FNC	Chain Link Fence	08	8 Ft. Height	420 L.F.	\$4,100	2
SHED	Shed	A	Average	96 S.F.	\$900	1
PAV	Paving	A	Asphalt	73445 S.F.	\$91,800	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$939,700	\$685,800	\$1,625,500
2012	\$750,900	\$502,100	\$1,253,000
2007	\$547,900	\$506,100	\$1,054,000

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$657,800	\$480,000	\$1,137,800
2012	\$525,700	\$351,500	\$877,200
2007	\$383,500	\$354,400	\$737,900

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ATTACHMENT 5

Certificate of Mailing — Firm



Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date of Receipt.
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	
Postmaster, per (name of receiving employee)			
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee
1.	Eden Wimpfheimer, First Selectwoman Town of East Granby 9 Center Street East Granby, CT 06026	Economic Development	
2.	Robin Newton, AICP, Director of Planning and Economic Development Town of East Granby 9 Center Street East Granby, CT 06026		
3.	D.I. Paine and Sons 54 Floydville Road East Granby, CT 06026		
4.			
5.			
6.			