

Colliers Engineering & Design
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Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10206578
Colliers Engineering & Design Project #: 23777094

July 13, 2023

Site Information

Site ID: 5000179615-VZW / WEST HARTFORD CENTER CT
Site Name: WEST HARTFORD CENTER CT
Carrier Name: Verizon Wireless
Address: 14-20 Isham Road
West Hartford, Connecticut 06107
Hartford County
Latitude: 41.761556°
Longitude: -72.740375°

Structure Information

Tower Type: 125-Ft Guyed
Mount Type: 12.50-Ft Sector Frame

FUZE ID # 17082761

Analysis Results

Sector Frame: 51.4% Pass*

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

***Contractor PMI Requirements:

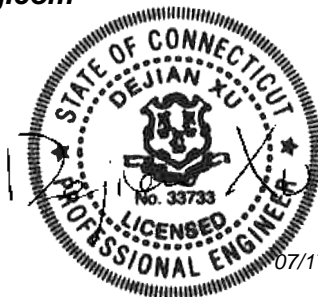
Included at the end of this MA report

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



07/17/2023

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: 325091, dated April 10, 2023</i>
<i>Antenna Mount Post-Modification Inspection Report</i>	<i>Maser Consulting Connecticut, Project #: 21777247A, dated June 21, 2022</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: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.996
Seismic Parameters:	S_s : 0.187 g S_1 : 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
97.00	101.00	3	Samsung	MT6413-77A	Added
	99.20	6	Andrew	SBNHH-1D65B	Retained
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48*	
	3	Samsung	XXDWMM-12.5-65-8T-CBRS		
97.60	3	Samsung	XXDWMM-12.5-65-8T-CBRS		

* Equipment is flush mounted directly to the Guyed Tower. They are not mounted on sector frame mounts and are not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	26.1%	Pass
Standoff Plate	51.4%	Pass
Standoff Horizontal	27.1%	Pass
Standoff Diagonal	7.1%	Pass
Mount Pipe	41.1%	Pass
Standoff Vertical	4.3%	Pass
Tieback	3.4%	Pass
Mount Connection	22.3%	Pass
Structure Rating – (Controlling Utilization of all Components)		51.4%

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	17.1	9.8	26.2	18.9
0.5	26.5	16.6	39.5	29.5
1	35.3	22.8	52.1	39.6

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector.
- Ka factors included in (EPA)a calculations

Requirements:

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

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

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

MDG #: 5000179615

SMART Project #: 10206578

Fuze Project ID: 17082761

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

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

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

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

Issue:

Response:

Special Instruction Confirmation:

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

OR

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

Comments:

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

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

Safety Climb in Good Condition Safety Climb Damaged

Certifying Individual:

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

Sector: A

7/13/2023

Structure Type: Guyed

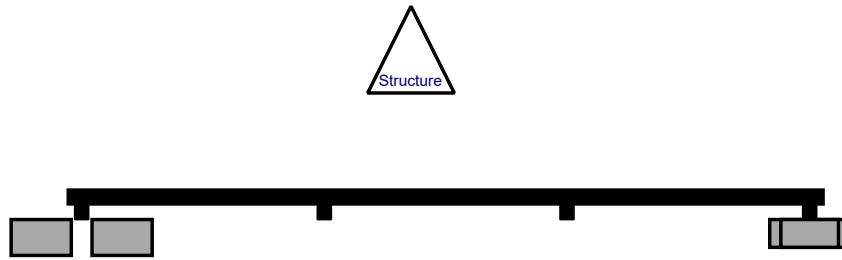
10206578



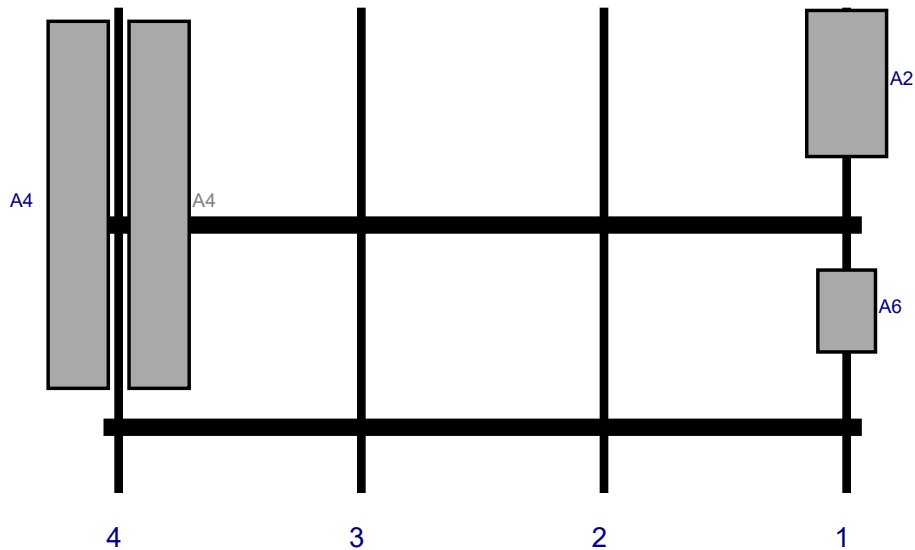
Mount Elev: 97.00

Page: 1

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MT6413-77A	28.9	15.8	147	1	a	Front	15	0	Added	
A6	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	147	1	a	Front	60	0	Retained	06/08/2022
A4	SBNHH-1D65B	72.6	11.9	3	4	a	Front	39	8	Retained	06/08/2022
A4	SBNHH-1D65B	72.6	11.9	3	4	b	Front	39	-8	Retained	06/08/2022
RRU1	B2/B66A RRH-BR049	15	15				Member			Retained	06/08/2022
RRU2	B5/B13 RRH-BR04C	15	15				Member			Retained	06/08/2022

Sector: B

7/13/2023

Structure Type: Guyed

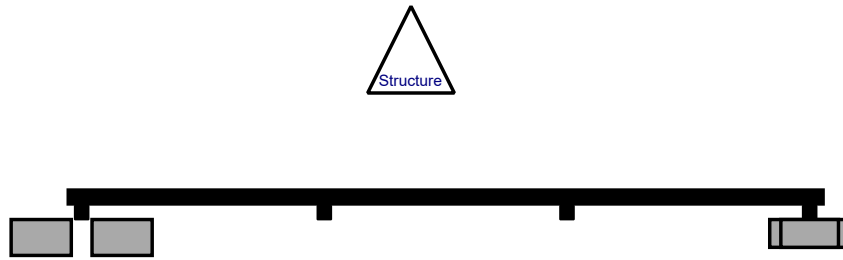
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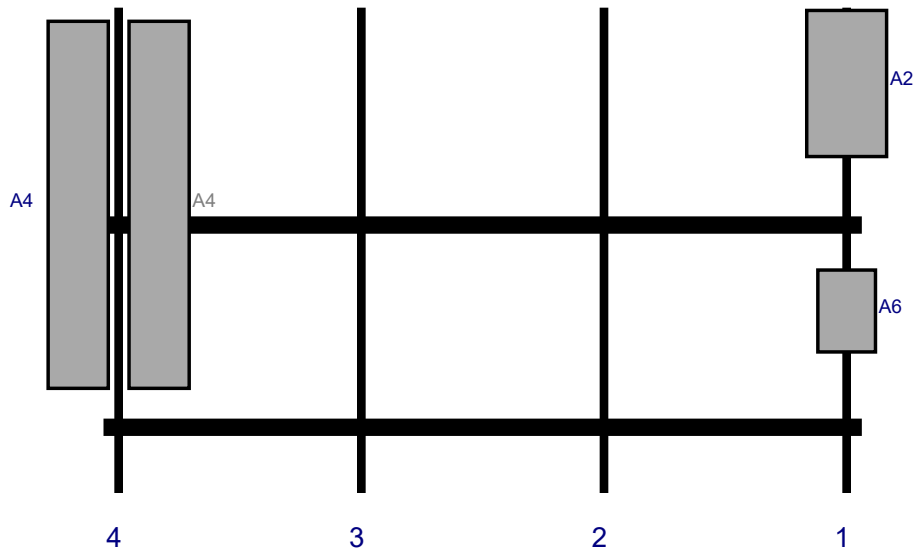
Mount Elev: 97.00

Page: 2

Plan View

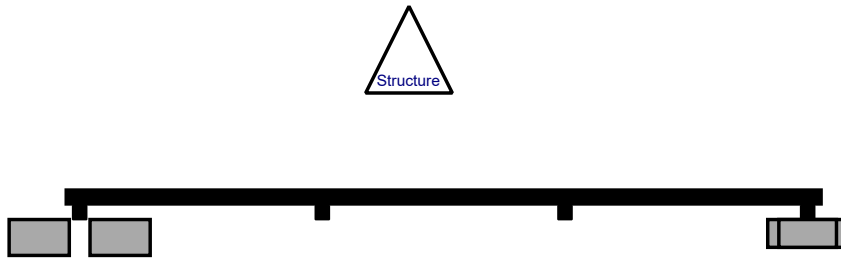


Front View - Looking at Structure

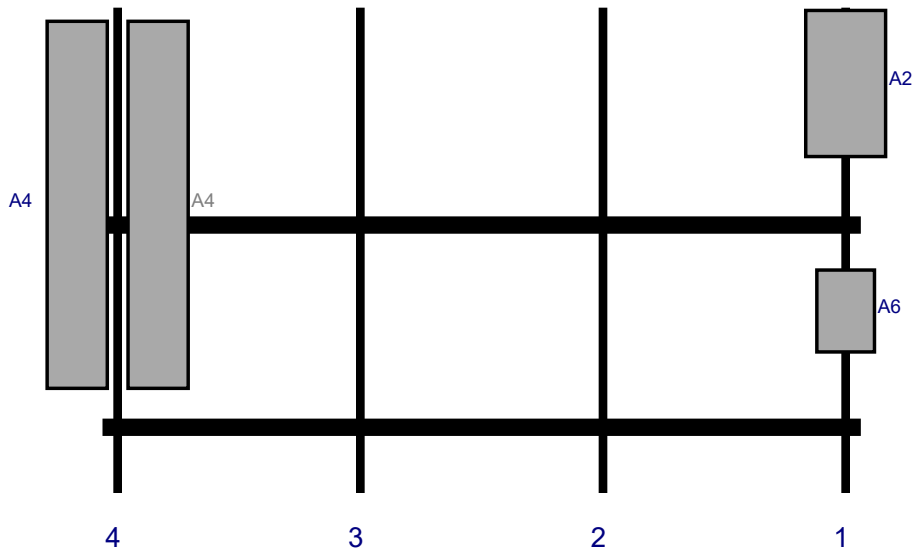


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MT6413-77A	28.9	15.8	147	1	a	Front	15	0	Added	
A6	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	147	1	a	Front	60	0	Retained	06/08/2022
A4	SBNHH-1D65B	72.6	11.9	3	4	a	Front	39	8	Retained	06/08/2022
A4	SBNHH-1D65B	72.6	11.9	3	4	b	Front	39	-8	Retained	06/08/2022
RRU1	B2/B66A RRH-BR049	15	15			Member				Retained	06/08/2022
RRU2	B5/B13 RRH-BR04C	15	15			Member				Retained	06/08/2022

Plan View

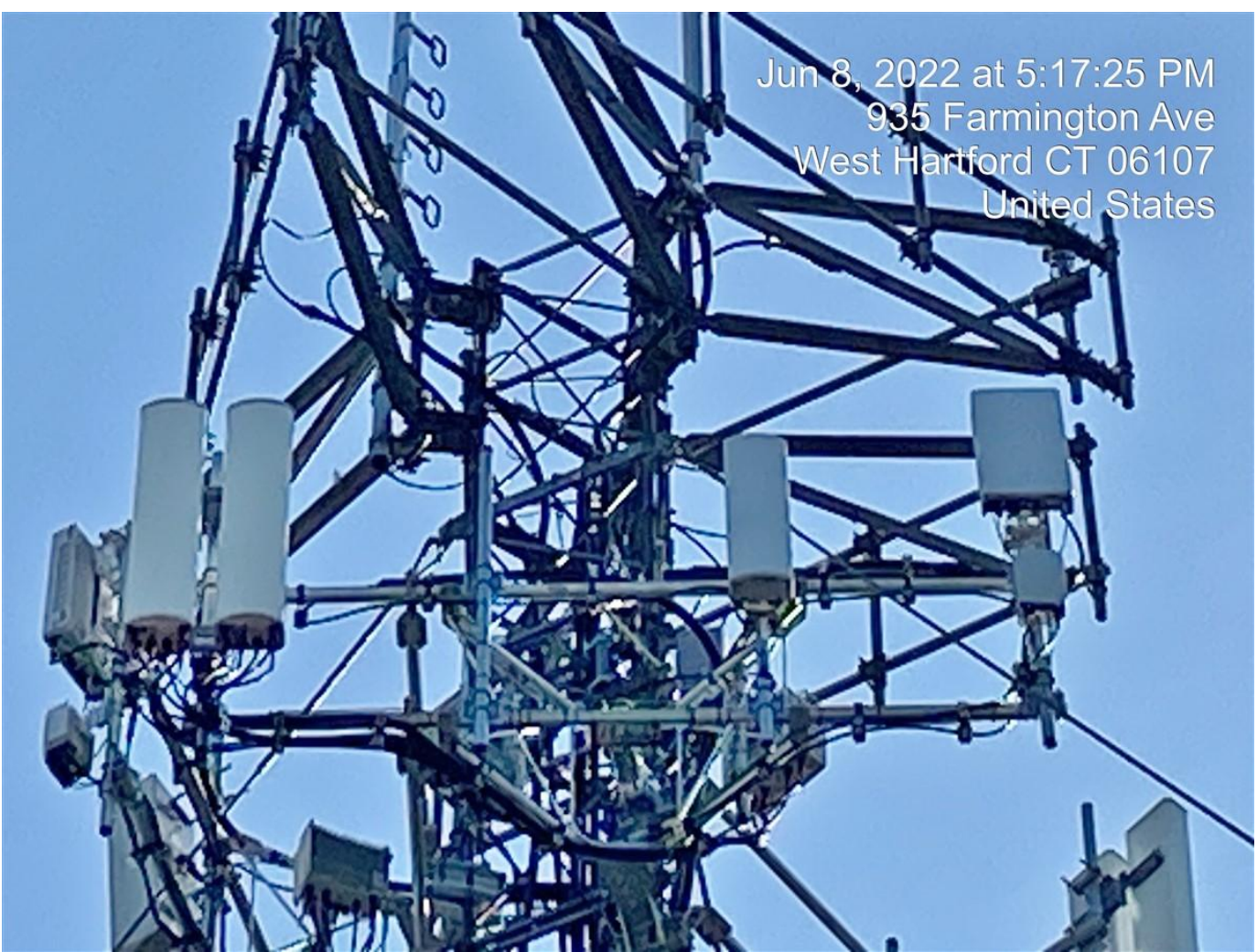


Front View - Looking at Structure



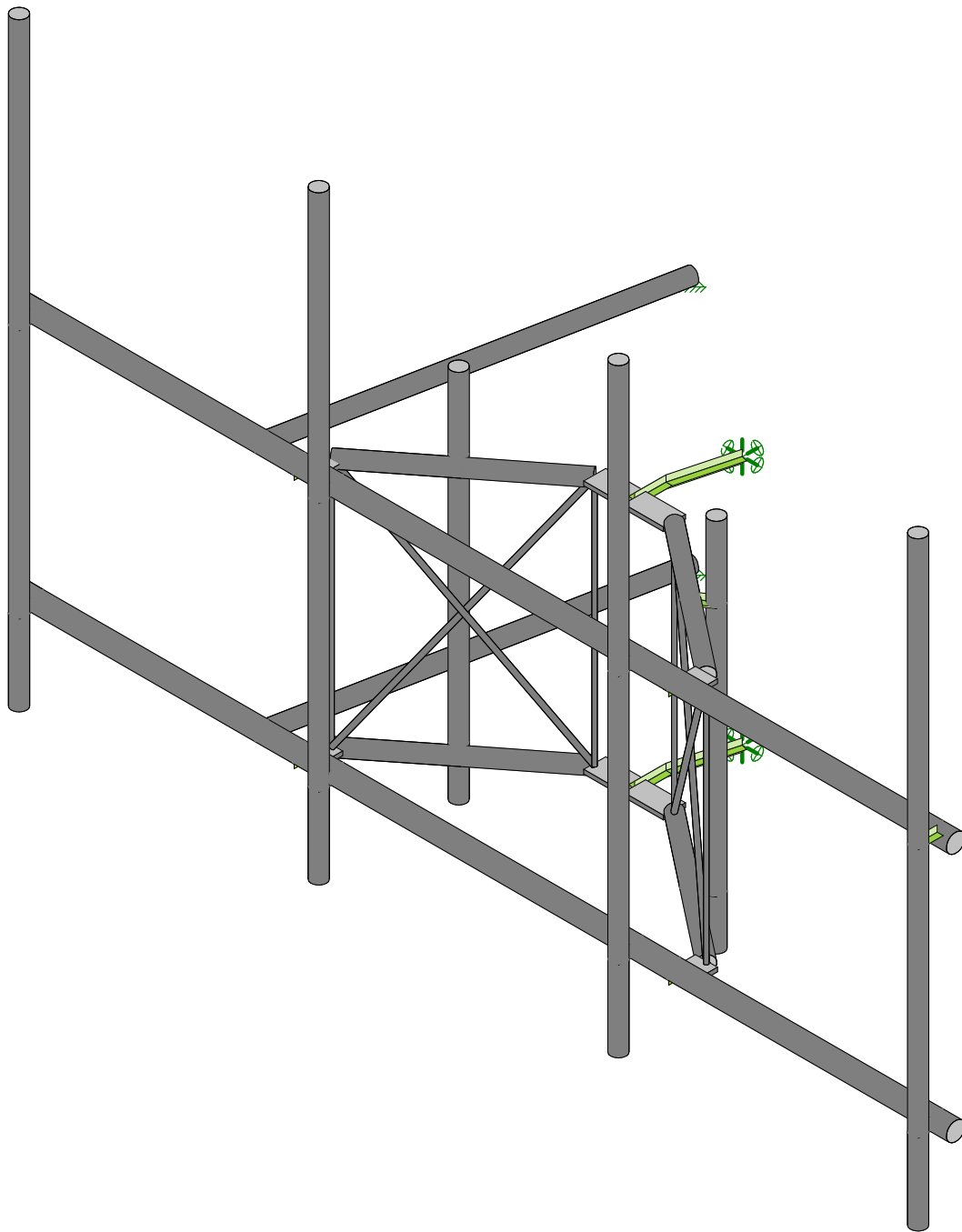
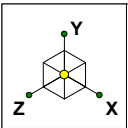
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MT6413-77A	28.9	15.8	147	1	a	Front	15	0	Added	
A6	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	147	1	a	Front	60	0	Retained	06/08/2022
A4	SBNHH-1D65B	72.6	11.9	3	4	a	Front	39	8	Retained	06/08/2022
A4	SBNHH-1D65B	72.6	11.9	3	4	b	Front	39	-8	Retained	06/08/2022
RRU1	B2/B66A RRH-BR049	15	15				Member			Retained	06/08/2022
RRU2	B5/B13 RRH-BR04C	15	15				Member			Retained	06/08/2022

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West Hartford CT 06107
United States



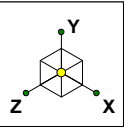
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West Hartford CT 06107
United States





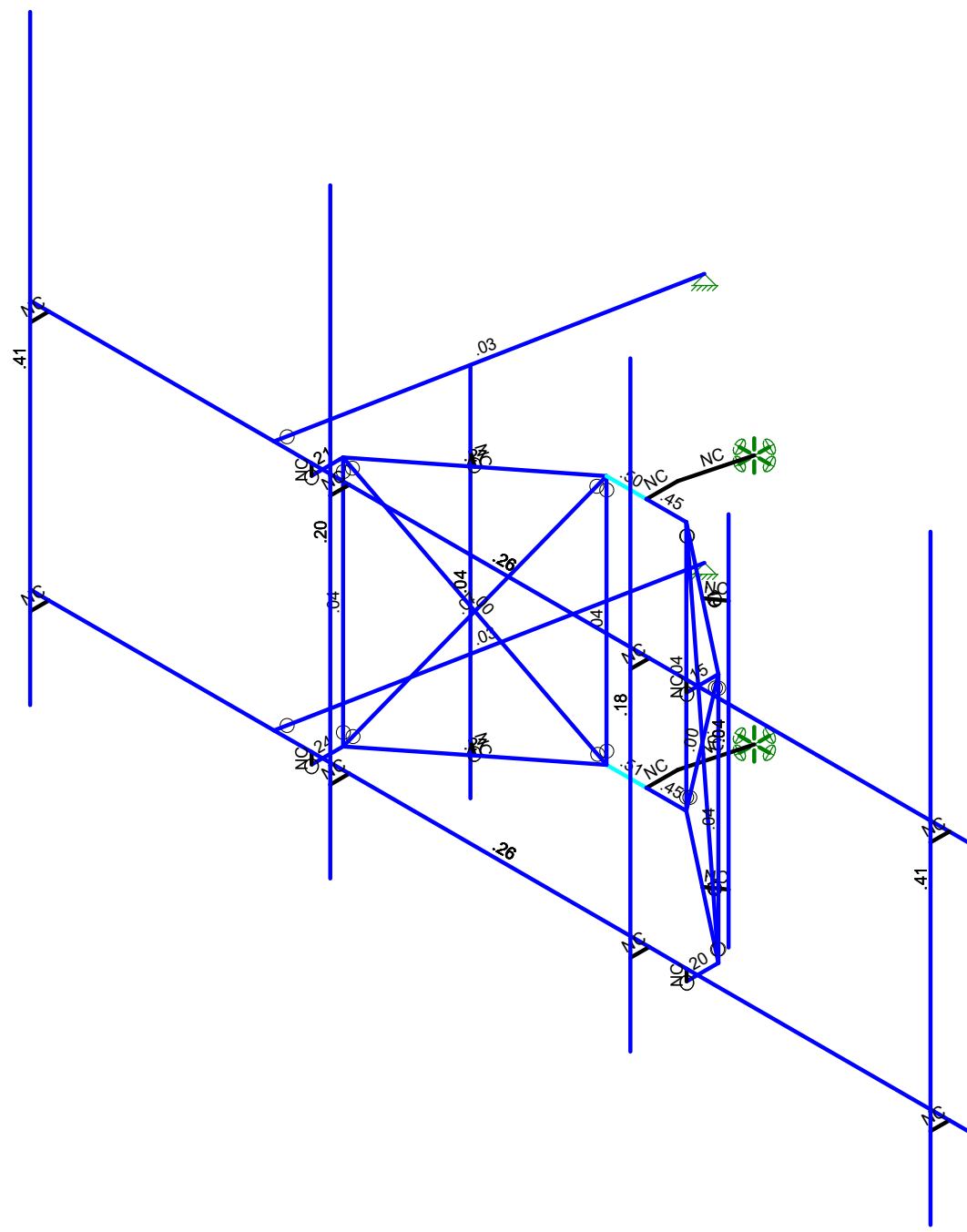
Envelope Only Solution

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		July 13, 2023 at 11:44 AM
Project # 23777094		5000179615-VZW_MT_LOT_A_H....



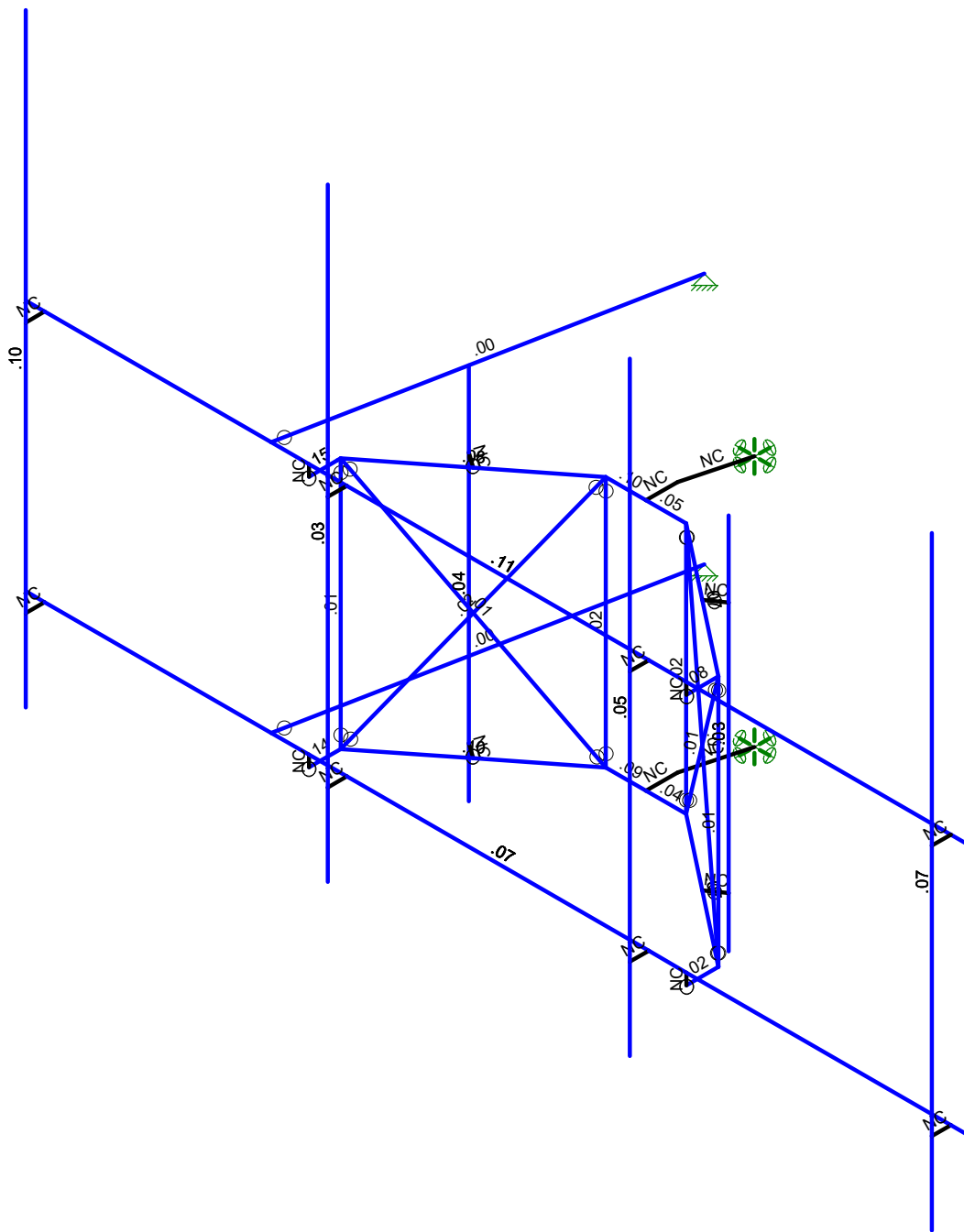
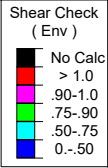
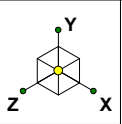
Code Check
(Env)

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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... Project # 23777094	Antenna Mount Analysis	SK - 2
		July 13, 2023 at 11:45 AM
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Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...

Antenna Mount Analysis

SK - 3

July 13, 2023 at 11:45 AM

Project # 23777094

5000179615-VZW_MT_LOT_A_H....



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

July 13, 2023
 11:46 AM
 Checked By: _____

Basic Load Cases

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



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						60		
58 Structure Wi (150 Deg)	None						60		
59 Structure Wi (180 Deg)	None						60		
60 Structure Wi (210 Deg)	None						60		
61 Structure Wi (240 Deg)	None						60		
62 Structure Wi (270 Deg)	None						60		
63 Structure Wi (300 Deg)	None						60		
64 Structure Wi (330 Deg)	None						60		
65 Structure Wm (0 Deg)	None						60		
66 Structure Wm (30 Deg)	None						60		
67 Structure Wm (60 Deg)	None						60		
68 Structure Wm (90 Deg)	None						60		
69 Structure Wm (120 Deg)	None						60		
70 Structure Wm (150 Deg)	None						60		
71 Structure Wm (180 Deg)	None						60		
72 Structure Wm (210 Deg)	None						60		
73 Structure Wm (240 Deg)	None						60		
74 Structure Wm (270 Deg)	None						60		
75 Structure Wm (300 Deg)	None						60		
76 Structure Wm (330 Deg)	None						60		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			
81 Antenna Ev	None					27			
82 Antenna Eh (0 Deg)	None					18			
83 Antenna Eh (90 Deg)	None					18			
84 Structure Ev	ELY		-0.0399						
85 Structure Eh (0 Deg)	ELZ			-0.0997					
86 Structure Eh (90 Deg)	ELX	.0997							

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
18 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1
19 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1
20 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1
21 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1
22 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	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...
23	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83		ELZ	1	E...					
53	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	ELZ	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	ELZ	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	ELZ		E...	1				
56	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	ELZ	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	.5	ELZ	-.8...	E...	.5				
58	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		ELZ	-1	E...					
59	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	-.5	ELZ	-.8...	E...	-.5				
60	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8...	ELZ	-.5	E...	-.8...				
61	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	ELZ		E...	-1				
62	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8...	ELZ	.5	E...	-.8...				
63	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	ELZ	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		ELZ	1	E...					
65	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	ELZ	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	ELZ	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	ELZ		E...	1				
68	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	ELZ	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	.5	ELZ	-.8...	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		ELZ	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	-.5	ELZ	-.8...	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.8...	ELZ	-.5	E...	-.8...				
73	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	ELZ		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.8...	ELZ	.5	E...	-.8...				
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	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.833333	0.145833	8.083333	0	
6	N6	-8.833333	3.479167	8.083333	0	
7	N7	-4.833333	0.145833	8.083333	0	
8	N8	-4.833333	3.479167	8.083333	0	
9	N9	-0.833333	0.145833	8.083333	0	
10	N10	-0.833333	3.479167	8.083333	0	
11	N11	3.166667	0.145833	8.083333	0	
12	N12	3.166667	3.479167	8.083333	0	
13	N13	-8.833333	0.145833	8.333333	0	
14	N14	-8.833333	3.479167	8.333333	0	
15	N15	-4.833333	0.145833	8.333333	0	
16	N16	-4.833333	3.479167	8.333333	0	
17	N17	-0.833333	0.145833	8.333333	0	
18	N18	-0.833333	3.479167	8.333333	0	
19	N19	3.166667	0.145833	8.333333	0	
20	N20	3.166667	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-2.617651	0	4.898187	0	
36	N36	-2.617651	3.333333	4.898187	0	
37	N39	-8.833333	7.0625	8.333333	0	
38	N40	-4.833333	7.0625	8.333333	0	
39	N41	-0.833333	7.0625	8.333333	0	
40	N42	3.166667	7.0625	8.333333	0	
41	N43	-8.833333	-9375	8.333333	0	
42	N44	-4.833333	-9375	8.333333	0	
43	N45	-0.833333	-9375	8.333333	0	
44	N46	3.166667	-9375	8.333333	0	
45	N58	-5.333333	3.333333	7.708333	0	
46	N59	-5.333333	0.145833	8.083333	0	
47	N60	-5.333333	3.479167	8.083333	0	
48	N61	-0.333333	0.145833	8.083333	0	
49	N62	-0.333333	3.479167	8.083333	0	
50	N59A	-5.833333	3.479167	8.083333	0	
51	N66	-4.348958	3.333333	6.890625	0	
52	N67	-4.348958	0	6.890625	0	
53	N68	-1.317708	0	6.890625	0	
54	N69	-1.317708	3.333333	6.890625	0	
55	N70	-1.11292	0	6.747231	0	
56	N71	-1.11292	3.333333	6.747231	0	



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N72	-4.553746	3.333333	6.747231	0	
58	N73	-4.553746	0	6.747231	0	
59	N74	-1.11292	4.333333	6.747231	0	
60	N75	-4.553746	4.333333	6.747231	0	
61	N76A	-1.11292	-0.666667	6.747231	0	
62	N77A	-4.553746	-0.666667	6.747231	0	
63	N78A	-5.833333	0.145834	8.083333	0	
64	N66A	-2.833333	3.333333	5.703125	0	
65	N67A	-2.833333	0	5.703125	0	
66	N68A	-5.0447	0	3.134831	0	
67	N69A	-5.0447	3.333333	3.134831	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design... A [in2]	Iyy [i... lzz [i... J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical 1.02	.627 .627 1.25
2	Face Horizontal	PIPE 2.5	Beam	Pipe	Q235	Typical 1.61	1.45 1.45 2.89
3	Standoff Horizontal	PIPE 2.0	Beam	Pipe	Q235	Typical 1.02	.627 .627 1.25
4	Standoff Diagonal	SR 0.75	Column	BAR	Q235	Typical .4418	.0155 .0155 .0311
5	Tieback	PIPE 2.0	Beam	Pipe	Q235	Typical 1.02	.627 .627 1.25
6	Standoff Vertical	SR 0.625	Column	BAR	Q235	Typical .3068	.0075 .0075 .015
7	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical 2.1875	.0712 2.2331 .2528

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
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
1	M1	N2	N1			Face Horizontal	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	Q235	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M6	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	M10	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	M12	N11	N19			RIGID	None	None	RIGID	Typical
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
15	M17	N26	N32			Standoff Horizontal	Beam	Pipe	Q235	Typical
16	M18	N25	N31			Standoff Horizontal	Beam	Pipe	Q235	Typical
17	M19	N27	N33			Standoff Horizontal	Beam	Pipe	Q235	Typical
18	M20	N28	N34			Standoff Horizontal	Beam	Pipe	Q235	Typical



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
19	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
23	M25	N31	N26			Standoff Diagonal	Column	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diagonal	Column	BAR	Q235	Typical
25	M27	N33	N28			Standoff Diagonal	Column	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diagonal	Column	BAR	Q235	Typical
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP4A	N39	N43			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Column	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Column	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Column	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Column	BAR	Q235	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M51A	N30	N66A			RIGID	None	None	RIGID	Typical
42	M52A	N29	N67A			RIGID	None	None	RIGID	Typical
43	M43	N59A	N69A			Tieback	Beam	Pipe	Q235	Typical
44	RRU1	N75	N77A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
45	RRU2	N74	N76A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
46	M47A	N69	N71			RIGID	None	None	RIGID	Typical
47	M48	N68	N70			RIGID	None	None	RIGID	Typical
48	M49	N66	N72			RIGID	None	None	RIGID	Typical
49	M50	N67	N73			RIGID	None	None	RIGID	Typical
50	M51	N78A	N68A			Tieback	Beam	Pipe	Q235	Typical
51	M51B	N66A	N36			RIGID	None	None	RIGID	Typical
52	M52	N67A	N35			RIGID	None	None	RIGID	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	M1						Yes			None
2	M2						Yes			None
3	M3						Yes	** NA **		None
4	M4						Yes	** NA **		None
5	M5						Yes	** NA **		None
6	M6						Yes	** NA **		None
7	M9						Yes	** NA **		None
8	M10						Yes	** NA **		None
9	M11						Yes	** NA **		None
10	M12						Yes	** NA **		None
11	M13						Yes	Default		None
12	M14						Yes	Default		None
13	M15						Yes			None
14	M16						Yes			None
15	M17						Yes	Default		None
16	M18						Yes			None
17	M19						Yes			None
18	M20						Yes	Default		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...
19	M21						Yes	Default				None
20	M22						Yes					None
21	M23						Yes					None
22	M24						Yes					None
23	M25	BenPIN	BenPIN			Euler Bu...	Yes	** NA **				None
24	M26	BenPIN	BenPIN			Euler Bu...	Yes	** NA **				None
25	M27	BenPIN	BenPIN			Euler Bu...	Yes	** NA **				None
26	M28	BenPIN	BenPIN			Euler Bu...	Yes	** NA **				None
27	M29						Yes	** NA **			Inactive	None
28	M30						Yes	** NA **			Inactive	None
29	MP4A						Yes	** NA **				None
30	MP3A						Yes	** NA **				None
31	MP2A						Yes	** NA **				None
32	MP1A						Yes	** NA **				None
33	M44	BenPIN	BenPIN				Yes	** NA **				None
34	M45	BenPIN	BenPIN				Yes	** NA **				None
35	M46	BenPIN	BenPIN				Yes	** NA **				None
36	M47	BenPIN	BenPIN				Yes	** NA **				None
37	M47B		OOOXOO				Yes	** NA **				None
38	M48A		OOOXOO				Yes	** NA **				None
39	M49A		OOOXOO				Yes	** NA **				None
40	M50A		OOOXOO				Yes	** NA **				None
41	M51A						Yes	** NA **				None
42	M52A						Yes	** NA **				None
43	M43	BenPIN					Yes	Default				None
44	RRU1						Yes	** NA **				None
45	RRU2						Yes	** NA **				None
46	M47A		OOOXOO				Yes	** NA **				None
47	M48		OOOXOO				Yes	** NA **				None
48	M49		OOOXOO				Yes	** NA **				None
49	M50		OOOXOO				Yes	** NA **				None
50	M51	BenPIN					Yes	Default				None
51	M51B						Yes	** NA **				None
52	M52						Yes	** NA **				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-20	1.25
2	MP4A	My	-.0133	1.25
3	MP4A	Mz	.0133	1.25
4	MP4A	Y	-20	5.25
5	MP4A	My	-.0133	5.25
6	MP4A	Mz	.0133	5.25
7	MP4A	Y	-20	1.25
8	MP4A	My	-.0133	1.25
9	MP4A	Mz	-.0133	1.25
10	MP4A	Y	-20	5.25
11	MP4A	My	-.0133	5.25
12	MP4A	Mz	-.0133	5.25
13	MP1A	Y	-23.2	5
14	MP1A	My	-.0116	5
15	MP1A	Mz	0	5
16	RRU1	Y	-84.4	2
17	RRU1	My	.0422	2
18	RRU1	Mz	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
19	RRU2	Y	-70.3	2
20	RRU2	My	.0352	2
21	RRU2	Mz	0	2
22	MP1A	Y	-28.65	.25
23	MP1A	My	-.0143	.25
24	MP1A	Mz	0	.25
25	MP1A	Y	-28.65	2.25
26	MP1A	My	-.0143	2.25
27	MP1A	Mz	0	2.25

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	Y	-92.5959	1.25
2	MP4A	My	-.0617	1.25
3	MP4A	Mz	.0617	1.25
4	MP4A	Y	-92.5959	5.25
5	MP4A	My	-.0617	5.25
6	MP4A	Mz	.0617	5.25
7	MP4A	Y	-92.5959	1.25
8	MP4A	My	-.0617	1.25
9	MP4A	Mz	-.0617	1.25
10	MP4A	Y	-92.5959	5.25
11	MP4A	My	-.0617	5.25
12	MP4A	Mz	-.0617	5.25
13	MP1A	Y	-46.4779	5
14	MP1A	My	-.0232	5
15	MP1A	Mz	0	5
16	RRU1	Y	-68.8539	2
17	RRU1	My	.0344	2
18	RRU1	Mz	0	2
19	RRU2	Y	-62.1413	2
20	RRU2	My	.0311	2
21	RRU2	Mz	0	2
22	MP1A	Y	-45.4855	.25
23	MP1A	My	-.0227	.25
24	MP1A	Mz	0	.25
25	MP1A	Y	-45.4855	2.25
26	MP1A	My	-.0227	2.25
27	MP1A	Mz	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	1.25
2	MP4A	Z	-84.742	1.25
3	MP4A	Mx	-.0565	1.25
4	MP4A	X	0	5.25
5	MP4A	Z	-84.742	5.25
6	MP4A	Mx	-.0565	5.25
7	MP4A	X	0	1.25
8	MP4A	Z	-84.742	1.25
9	MP4A	Mx	.0565	1.25
10	MP4A	X	0	5.25
11	MP4A	Z	-84.742	5.25
12	MP4A	Mx	.0565	5.25
13	MP1A	X	0	5
14	MP1A	Z	-47.062	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1A	Mx	0	5
16	RRU1	X	0	2
17	RRU1	Z	-47.677	2
18	RRU1	Mx	0	2
19	RRU2	X	0	2
20	RRU2	Z	-47.677	2
21	RRU2	Mx	0	2
22	MP1A	X	0	.25
23	MP1A	Z	-58.289	.25
24	MP1A	Mx	0	.25
25	MP1A	X	0	2.25
26	MP1A	Z	-58.289	2.25
27	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	36.335	1.25
2	MP4A	Z	-62.933	1.25
3	MP4A	Mx	-.0662	1.25
4	MP4A	X	36.335	5.25
5	MP4A	Z	-62.933	5.25
6	MP4A	Mx	-.0662	5.25
7	MP4A	X	36.335	1.25
8	MP4A	Z	-62.933	1.25
9	MP4A	Mx	.0177	1.25
10	MP4A	X	36.335	5.25
11	MP4A	Z	-62.933	5.25
12	MP4A	Mx	.0177	5.25
13	MP1A	X	20.55	5
14	MP1A	Z	-35.594	5
15	MP1A	Mx	-.0103	5
16	RRU1	X	21.878	2
17	RRU1	Z	-37.893	2
18	RRU1	Mx	.0109	2
19	RRU2	X	21.147	2
20	RRU2	Z	-36.628	2
21	RRU2	Mx	.0106	2
22	MP1A	X	24.665	.25
23	MP1A	Z	-42.721	.25
24	MP1A	Mx	-.0123	.25
25	MP1A	X	24.665	2.25
26	MP1A	Z	-42.721	2.25
27	MP1A	Mx	-.0123	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	42.022	1.25
2	MP4A	Z	-24.262	1.25
3	MP4A	Mx	-.0442	1.25
4	MP4A	X	42.022	5.25
5	MP4A	Z	-24.262	5.25
6	MP4A	Mx	-.0442	5.25
7	MP4A	X	42.022	1.25
8	MP4A	Z	-24.262	1.25
9	MP4A	Mx	-.0118	1.25
10	MP4A	X	42.022	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP4A	Z	-24.262	5.25
12	MP4A	Mx	-0.118	5.25
13	MP1A	X	25.268	5
14	MP1A	Z	-14.589	5
15	MP1A	Mx	-0.126	5
16	RRU1	X	31.1	2
17	RRU1	Z	-17.956	2
18	RRU1	Mx	.0155	2
19	RRU2	X	27.304	2
20	RRU2	Z	-15.764	2
21	RRU2	Mx	.0137	2
22	MP1A	X	27.202	.25
23	MP1A	Z	-15.705	.25
24	MP1A	Mx	-.0136	.25
25	MP1A	X	27.202	2.25
26	MP1A	Z	-15.705	2.25
27	MP1A	Mx	-.0136	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	36.45	1.25
2	MP4A	Z	0	1.25
3	MP4A	Mx	-.0243	1.25
4	MP4A	X	36.45	5.25
5	MP4A	Z	0	5.25
6	MP4A	Mx	-.0243	5.25
7	MP4A	X	36.45	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	-.0243	1.25
10	MP4A	X	36.45	5.25
11	MP4A	Z	0	5.25
12	MP4A	Mx	-.0243	5.25
13	MP1A	X	23.216	5
14	MP1A	Z	0	5
15	MP1A	Mx	-.0116	5
16	RRU1	X	31.99	2
17	RRU1	Z	0	2
18	RRU1	Mx	.016	2
19	RRU2	X	26.146	2
20	RRU2	Z	0	2
21	RRU2	Mx	.0131	2
22	MP1A	X	22.45	.25
23	MP1A	Z	0	.25
24	MP1A	Mx	-.0112	.25
25	MP1A	X	22.45	2.25
26	MP1A	Z	0	2.25
27	MP1A	Mx	-.0112	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	42.022	1.25
2	MP4A	Z	24.262	1.25
3	MP4A	Mx	-.0118	1.25
4	MP4A	X	42.022	5.25
5	MP4A	Z	24.262	5.25
6	MP4A	Mx	-.0118	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
7	MP4A	X	42.022	1.25
8	MP4A	Z	24.262	1.25
9	MP4A	Mx	-.0442	1.25
10	MP4A	X	42.022	5.25
11	MP4A	Z	24.262	5.25
12	MP4A	Mx	-.0442	5.25
13	MP1A	X	25.268	5
14	MP1A	Z	14.589	5
15	MP1A	Mx	-.0126	5
16	RRU1	X	31.1	2
17	RRU1	Z	17.956	2
18	RRU1	Mx	.0155	2
19	RRU2	X	27.304	2
20	RRU2	Z	15.764	2
21	RRU2	Mx	.0137	2
22	MP1A	X	27.202	.25
23	MP1A	Z	15.705	.25
24	MP1A	Mx	-.0136	.25
25	MP1A	X	27.202	2.25
26	MP1A	Z	15.705	2.25
27	MP1A	Mx	-.0136	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	36.335	1.25
2	MP4A	Z	62.933	1.25
3	MP4A	Mx	.0177	1.25
4	MP4A	X	36.335	5.25
5	MP4A	Z	62.933	5.25
6	MP4A	Mx	.0177	5.25
7	MP4A	X	36.335	1.25
8	MP4A	Z	62.933	1.25
9	MP4A	Mx	-.0662	1.25
10	MP4A	X	36.335	5.25
11	MP4A	Z	62.933	5.25
12	MP4A	Mx	-.0662	5.25
13	MP1A	X	20.55	5
14	MP1A	Z	35.594	5
15	MP1A	Mx	-.0103	5
16	RRU1	X	21.878	2
17	RRU1	Z	37.893	2
18	RRU1	Mx	.0109	2
19	RRU2	X	21.147	2
20	RRU2	Z	36.628	2
21	RRU2	Mx	.0106	2
22	MP1A	X	24.665	.25
23	MP1A	Z	42.721	.25
24	MP1A	Mx	-.0123	.25
25	MP1A	X	24.665	2.25
26	MP1A	Z	42.721	2.25
27	MP1A	Mx	-.0123	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1.25
2	MP4A	Z	84.742	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP4A	Mx	.0565	1.25
4	MP4A	X	0	5.25
5	MP4A	Z	84.742	5.25
6	MP4A	Mx	.0565	5.25
7	MP4A	X	0	1.25
8	MP4A	Z	84.742	1.25
9	MP4A	Mx	-.0565	1.25
10	MP4A	X	0	5.25
11	MP4A	Z	84.742	5.25
12	MP4A	Mx	-.0565	5.25
13	MP1A	X	0	5
14	MP1A	Z	47.062	5
15	MP1A	Mx	0	5
16	RRU1	X	0	2
17	RRU1	Z	47.677	2
18	RRU1	Mx	0	2
19	RRU2	X	0	2
20	RRU2	Z	47.677	2
21	RRU2	Mx	0	2
22	MP1A	X	0	.25
23	MP1A	Z	58.289	.25
24	MP1A	Mx	0	.25
25	MP1A	X	0	2.25
26	MP1A	Z	58.289	2.25
27	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-36.335	1.25
2	MP4A	Z	62.933	1.25
3	MP4A	Mx	.0662	1.25
4	MP4A	X	-36.335	5.25
5	MP4A	Z	62.933	5.25
6	MP4A	Mx	.0662	5.25
7	MP4A	X	-36.335	1.25
8	MP4A	Z	62.933	1.25
9	MP4A	Mx	-.0177	1.25
10	MP4A	X	-36.335	5.25
11	MP4A	Z	62.933	5.25
12	MP4A	Mx	-.0177	5.25
13	MP1A	X	-20.55	5
14	MP1A	Z	35.594	5
15	MP1A	Mx	.0103	5
16	RRU1	X	-21.878	2
17	RRU1	Z	37.893	2
18	RRU1	Mx	-.0109	2
19	RRU2	X	-21.147	2
20	RRU2	Z	36.628	2
21	RRU2	Mx	-.0106	2
22	MP1A	X	-24.665	.25
23	MP1A	Z	42.721	.25
24	MP1A	Mx	.0123	.25
25	MP1A	X	-24.665	2.25
26	MP1A	Z	42.721	2.25
27	MP1A	Mx	.0123	2.25



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

July 13, 2023
 11:46 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-42.022	1.25
2	MP4A	Z	24.262	1.25
3	MP4A	Mx	.0442	1.25
4	MP4A	X	-42.022	5.25
5	MP4A	Z	24.262	5.25
6	MP4A	Mx	.0442	5.25
7	MP4A	X	-42.022	1.25
8	MP4A	Z	24.262	1.25
9	MP4A	Mx	.0118	1.25
10	MP4A	X	-42.022	5.25
11	MP4A	Z	24.262	5.25
12	MP4A	Mx	.0118	5.25
13	MP1A	X	-25.268	5
14	MP1A	Z	14.589	5
15	MP1A	Mx	.0126	5
16	RRU1	X	-31.1	2
17	RRU1	Z	17.956	2
18	RRU1	Mx	-.0155	2
19	RRU2	X	-27.304	2
20	RRU2	Z	15.764	2
21	RRU2	Mx	-.0137	2
22	MP1A	X	-27.202	.25
23	MP1A	Z	15.705	.25
24	MP1A	Mx	.0136	.25
25	MP1A	X	-27.202	2.25
26	MP1A	Z	15.705	2.25
27	MP1A	Mx	.0136	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-36.45	1.25
2	MP4A	Z	0	1.25
3	MP4A	Mx	.0243	1.25
4	MP4A	X	-36.45	5.25
5	MP4A	Z	0	5.25
6	MP4A	Mx	.0243	5.25
7	MP4A	X	-36.45	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	.0243	1.25
10	MP4A	X	-36.45	5.25
11	MP4A	Z	0	5.25
12	MP4A	Mx	.0243	5.25
13	MP1A	X	-23.216	5
14	MP1A	Z	0	5
15	MP1A	Mx	.0116	5
16	RRU1	X	-31.99	2
17	RRU1	Z	0	2
18	RRU1	Mx	-.016	2
19	RRU2	X	-26.146	2
20	RRU2	Z	0	2
21	RRU2	Mx	-.0131	2
22	MP1A	X	-22.45	.25
23	MP1A	Z	0	.25
24	MP1A	Mx	.0112	.25
25	MP1A	X	-22.45	2.25
26	MP1A	Z	0	2.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
27	MP1A	Mx	.0112	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-42.022	1.25
2	MP4A	Z	-24.262	1.25
3	MP4A	Mx	.0118	1.25
4	MP4A	X	-42.022	5.25
5	MP4A	Z	-24.262	5.25
6	MP4A	Mx	.0118	5.25
7	MP4A	X	-42.022	1.25
8	MP4A	Z	-24.262	1.25
9	MP4A	Mx	.0442	1.25
10	MP4A	X	-42.022	5.25
11	MP4A	Z	-24.262	5.25
12	MP4A	Mx	.0442	5.25
13	MP1A	X	-25.268	5
14	MP1A	Z	-14.589	5
15	MP1A	Mx	.0126	5
16	RRU1	X	-31.1	2
17	RRU1	Z	-17.956	2
18	RRU1	Mx	-.0155	2
19	RRU2	X	-27.304	2
20	RRU2	Z	-15.764	2
21	RRU2	Mx	-.0137	2
22	MP1A	X	-27.202	.25
23	MP1A	Z	-15.705	.25
24	MP1A	Mx	.0136	.25
25	MP1A	X	-27.202	2.25
26	MP1A	Z	-15.705	2.25
27	MP1A	Mx	.0136	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-36.335	1.25
2	MP4A	Z	-62.933	1.25
3	MP4A	Mx	-.0177	1.25
4	MP4A	X	-36.335	5.25
5	MP4A	Z	-62.933	5.25
6	MP4A	Mx	-.0177	5.25
7	MP4A	X	-36.335	1.25
8	MP4A	Z	-62.933	1.25
9	MP4A	Mx	.0662	1.25
10	MP4A	X	-36.335	5.25
11	MP4A	Z	-62.933	5.25
12	MP4A	Mx	.0662	5.25
13	MP1A	X	-20.55	5
14	MP1A	Z	-35.594	5
15	MP1A	Mx	.0103	5
16	RRU1	X	-21.878	2
17	RRU1	Z	-37.893	2
18	RRU1	Mx	-.0109	2
19	RRU2	X	-21.147	2
20	RRU2	Z	-36.628	2
21	RRU2	Mx	-.0106	2
22	MP1A	X	-24.665	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
23	MP1A	Z	-42.721	.25
24	MP1A	Mx	.0123	.25
25	MP1A	X	-24.665	2.25
26	MP1A	Z	-42.721	2.25
27	MP1A	Mx	.0123	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1.25
2	MP4A	Z	-25.101	1.25
3	MP4A	Mx	-.0167	1.25
4	MP4A	X	0	5.25
5	MP4A	Z	-25.101	5.25
6	MP4A	Mx	-.0167	5.25
7	MP4A	X	0	1.25
8	MP4A	Z	-25.101	1.25
9	MP4A	Mx	.0167	1.25
10	MP4A	X	0	5.25
11	MP4A	Z	-25.101	5.25
12	MP4A	Mx	.0167	5.25
13	MP1A	X	0	5
14	MP1A	Z	-10.903	5
15	MP1A	Mx	0	5
16	RRU1	X	0	2
17	RRU1	Z	-12.905	2
18	RRU1	Mx	0	2
19	RRU2	X	0	2
20	RRU2	Z	-12.905	2
21	RRU2	Mx	0	2
22	MP1A	X	0	.25
23	MP1A	Z	-12.244	.25
24	MP1A	Mx	0	.25
25	MP1A	X	0	2.25
26	MP1A	Z	-12.244	2.25
27	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	11.615	1.25
2	MP4A	Z	-20.117	1.25
3	MP4A	Mx	-.0212	1.25
4	MP4A	X	11.615	5.25
5	MP4A	Z	-20.117	5.25
6	MP4A	Mx	-.0212	5.25
7	MP4A	X	11.615	1.25
8	MP4A	Z	-20.117	1.25
9	MP4A	Mx	.0057	1.25
10	MP4A	X	11.615	5.25
11	MP4A	Z	-20.117	5.25
12	MP4A	Mx	.0057	5.25
13	MP1A	X	4.856	5
14	MP1A	Z	-8.41	5
15	MP1A	Mx	-.0024	5
16	RRU1	X	5.981	2
17	RRU1	Z	-10.36	2
18	RRU1	Mx	.003	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
19	RRU2	X	5.802	2
20	RRU2	Z	-10.049	2
21	RRU2	Mx	.0029	2
22	MP1A	X	5.264	.25
23	MP1A	Z	-9.118	.25
24	MP1A	Mx	-.0026	.25
25	MP1A	X	5.264	2.25
26	MP1A	Z	-9.118	2.25
27	MP1A	Mx	-.0026	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	16.876	1.25
2	MP4A	Z	-9.743	1.25
3	MP4A	Mx	-.0177	1.25
4	MP4A	X	16.876	5.25
5	MP4A	Z	-9.743	5.25
6	MP4A	Mx	-.0177	5.25
7	MP4A	X	16.876	1.25
8	MP4A	Z	-9.743	1.25
9	MP4A	Mx	-.0048	1.25
10	MP4A	X	16.876	5.25
11	MP4A	Z	-9.743	5.25
12	MP4A	Mx	-.0048	5.25
13	MP1A	X	6.347	5
14	MP1A	Z	-3.664	5
15	MP1A	Mx	-.0032	5
16	RRU1	X	8.727	2
17	RRU1	Z	-5.038	2
18	RRU1	Mx	.0044	2
19	RRU2	X	7.796	2
20	RRU2	Z	-4.501	2
21	RRU2	Mx	.0039	2
22	MP1A	X	6.148	.25
23	MP1A	Z	-3.549	.25
24	MP1A	Mx	-.0031	.25
25	MP1A	X	6.148	2.25
26	MP1A	Z	-3.549	2.25
27	MP1A	Mx	-.0031	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	17.615	1.25
2	MP4A	Z	0	1.25
3	MP4A	Mx	-.0117	1.25
4	MP4A	X	17.615	5.25
5	MP4A	Z	0	5.25
6	MP4A	Mx	-.0117	5.25
7	MP4A	X	17.615	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	-.0117	1.25
10	MP4A	X	17.615	5.25
11	MP4A	Z	0	5.25
12	MP4A	Mx	-.0117	5.25
13	MP1A	X	6.137	5
14	MP1A	Z	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1A	Mx	-.0031	5
16	RRU1	X	9.134	2
17	RRU1	Z	0	2
18	RRU1	Mx	.0046	2
19	RRU2	X	7.701	2
20	RRU2	Z	0	2
21	RRU2	Mx	.0039	2
22	MP1A	X	5.383	.25
23	MP1A	Z	0	.25
24	MP1A	Mx	-.0027	.25
25	MP1A	X	5.383	2.25
26	MP1A	Z	0	2.25
27	MP1A	Mx	-.0027	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	16.876	1.25
2	MP4A	Z	9.743	1.25
3	MP4A	Mx	-.0048	1.25
4	MP4A	X	16.876	5.25
5	MP4A	Z	9.743	5.25
6	MP4A	Mx	-.0048	5.25
7	MP4A	X	16.876	1.25
8	MP4A	Z	9.743	1.25
9	MP4A	Mx	-.0177	1.25
10	MP4A	X	16.876	5.25
11	MP4A	Z	9.743	5.25
12	MP4A	Mx	-.0177	5.25
13	MP1A	X	6.347	5
14	MP1A	Z	3.664	5
15	MP1A	Mx	-.0032	5
16	RRU1	X	8.727	2
17	RRU1	Z	5.038	2
18	RRU1	Mx	.0044	2
19	RRU2	X	7.796	2
20	RRU2	Z	4.501	2
21	RRU2	Mx	.0039	2
22	MP1A	X	6.148	.25
23	MP1A	Z	3.549	.25
24	MP1A	Mx	-.0031	.25
25	MP1A	X	6.148	2.25
26	MP1A	Z	3.549	2.25
27	MP1A	Mx	-.0031	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	11.615	1.25
2	MP4A	Z	20.117	1.25
3	MP4A	Mx	.0057	1.25
4	MP4A	X	11.615	5.25
5	MP4A	Z	20.117	5.25
6	MP4A	Mx	.0057	5.25
7	MP4A	X	11.615	1.25
8	MP4A	Z	20.117	1.25
9	MP4A	Mx	-.0212	1.25
10	MP4A	X	11.615	5.25



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP4A	Z	20.117	5.25
12	MP4A	Mx	-.0212	5.25
13	MP1A	X	4.856	5
14	MP1A	Z	8.41	5
15	MP1A	Mx	-.0024	5
16	RRU1	X	5.981	2
17	RRU1	Z	10.36	2
18	RRU1	Mx	.003	2
19	RRU2	X	5.802	2
20	RRU2	Z	10.049	2
21	RRU2	Mx	.0029	2
22	MP1A	X	5.264	.25
23	MP1A	Z	9.118	.25
24	MP1A	Mx	-.0026	.25
25	MP1A	X	5.264	2.25
26	MP1A	Z	9.118	2.25
27	MP1A	Mx	-.0026	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	1.25
2	MP4A	Z	25.101	1.25
3	MP4A	Mx	.0167	1.25
4	MP4A	X	0	5.25
5	MP4A	Z	25.101	5.25
6	MP4A	Mx	.0167	5.25
7	MP4A	X	0	1.25
8	MP4A	Z	25.101	1.25
9	MP4A	Mx	-.0167	1.25
10	MP4A	X	0	5.25
11	MP4A	Z	25.101	5.25
12	MP4A	Mx	-.0167	5.25
13	MP1A	X	0	5
14	MP1A	Z	10.903	5
15	MP1A	Mx	0	5
16	RRU1	X	0	2
17	RRU1	Z	12.905	2
18	RRU1	Mx	0	2
19	RRU2	X	0	2
20	RRU2	Z	12.905	2
21	RRU2	Mx	0	2
22	MP1A	X	0	.25
23	MP1A	Z	12.244	.25
24	MP1A	Mx	0	.25
25	MP1A	X	0	2.25
26	MP1A	Z	12.244	2.25
27	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-11.615	1.25
2	MP4A	Z	20.117	1.25
3	MP4A	Mx	.0212	1.25
4	MP4A	X	-11.615	5.25
5	MP4A	Z	20.117	5.25
6	MP4A	Mx	.0212	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
7	MP4A	X	-11.615	1.25
8	MP4A	Z	20.117	1.25
9	MP4A	Mx	-.0057	1.25
10	MP4A	X	-11.615	5.25
11	MP4A	Z	20.117	5.25
12	MP4A	Mx	-.0057	5.25
13	MP1A	X	-4.856	5
14	MP1A	Z	8.41	5
15	MP1A	Mx	.0024	5
16	RRU1	X	-5.981	2
17	RRU1	Z	10.36	2
18	RRU1	Mx	-.003	2
19	RRU2	X	-5.802	2
20	RRU2	Z	10.049	2
21	RRU2	Mx	-.0029	2
22	MP1A	X	-5.264	.25
23	MP1A	Z	9.118	.25
24	MP1A	Mx	.0026	.25
25	MP1A	X	-5.264	2.25
26	MP1A	Z	9.118	2.25
27	MP1A	Mx	.0026	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-16.876	1.25
2	MP4A	Z	9.743	1.25
3	MP4A	Mx	.0177	1.25
4	MP4A	X	-16.876	5.25
5	MP4A	Z	9.743	5.25
6	MP4A	Mx	.0177	5.25
7	MP4A	X	-16.876	1.25
8	MP4A	Z	9.743	1.25
9	MP4A	Mx	.0048	1.25
10	MP4A	X	-16.876	5.25
11	MP4A	Z	9.743	5.25
12	MP4A	Mx	.0048	5.25
13	MP1A	X	-6.347	5
14	MP1A	Z	3.664	5
15	MP1A	Mx	.0032	5
16	RRU1	X	-8.727	2
17	RRU1	Z	5.038	2
18	RRU1	Mx	-.0044	2
19	RRU2	X	-7.796	2
20	RRU2	Z	4.501	2
21	RRU2	Mx	-.0039	2
22	MP1A	X	-6.148	.25
23	MP1A	Z	3.549	.25
24	MP1A	Mx	.0031	.25
25	MP1A	X	-6.148	2.25
26	MP1A	Z	3.549	2.25
27	MP1A	Mx	.0031	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-17.615	1.25
2	MP4A	Z	0	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP4A	Mx	.0117	1.25
4	MP4A	X	-17.615	5.25
5	MP4A	Z	0	5.25
6	MP4A	Mx	.0117	5.25
7	MP4A	X	-17.615	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	.0117	1.25
10	MP4A	X	-17.615	5.25
11	MP4A	Z	0	5.25
12	MP4A	Mx	.0117	5.25
13	MP1A	X	-6.137	5
14	MP1A	Z	0	5
15	MP1A	Mx	.0031	5
16	RRU1	X	-9.134	2
17	RRU1	Z	0	2
18	RRU1	Mx	-.0046	2
19	RRU2	X	-7.701	2
20	RRU2	Z	0	2
21	RRU2	Mx	-.0039	2
22	MP1A	X	-5.383	.25
23	MP1A	Z	0	.25
24	MP1A	Mx	.0027	.25
25	MP1A	X	-5.383	2.25
26	MP1A	Z	0	2.25
27	MP1A	Mx	.0027	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-16.876	1.25
2	MP4A	Z	-9.743	1.25
3	MP4A	Mx	.0048	1.25
4	MP4A	X	-16.876	5.25
5	MP4A	Z	-9.743	5.25
6	MP4A	Mx	.0048	5.25
7	MP4A	X	-16.876	1.25
8	MP4A	Z	-9.743	1.25
9	MP4A	Mx	.0177	1.25
10	MP4A	X	-16.876	5.25
11	MP4A	Z	-9.743	5.25
12	MP4A	Mx	.0177	5.25
13	MP1A	X	-6.347	5
14	MP1A	Z	-3.664	5
15	MP1A	Mx	.0032	5
16	RRU1	X	-8.727	2
17	RRU1	Z	-5.038	2
18	RRU1	Mx	-.0044	2
19	RRU2	X	-7.796	2
20	RRU2	Z	-4.501	2
21	RRU2	Mx	-.0039	2
22	MP1A	X	-6.148	.25
23	MP1A	Z	-3.549	.25
24	MP1A	Mx	.0031	.25
25	MP1A	X	-6.148	2.25
26	MP1A	Z	-3.549	2.25
27	MP1A	Mx	.0031	2.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-11.615	1.25
2	MP4A	Z	-20.117	1.25
3	MP4A	Mx	-.0057	1.25
4	MP4A	X	-11.615	5.25
5	MP4A	Z	-20.117	5.25
6	MP4A	Mx	-.0057	5.25
7	MP4A	X	-11.615	1.25
8	MP4A	Z	-20.117	1.25
9	MP4A	Mx	.0212	1.25
10	MP4A	X	-11.615	5.25
11	MP4A	Z	-20.117	5.25
12	MP4A	Mx	.0212	5.25
13	MP1A	X	-4.856	5
14	MP1A	Z	-8.41	5
15	MP1A	Mx	.0024	5
16	RRU1	X	-5.981	2
17	RRU1	Z	-10.36	2
18	RRU1	Mx	-.003	2
19	RRU2	X	-5.802	2
20	RRU2	Z	-10.049	2
21	RRU2	Mx	-.0029	2
22	MP1A	X	-5.264	.25
23	MP1A	Z	-9.118	.25
24	MP1A	Mx	.0026	.25
25	MP1A	X	-5.264	2.25
26	MP1A	Z	-9.118	2.25
27	MP1A	Mx	.0026	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	1.25
2	MP4A	Z	-5.296	1.25
3	MP4A	Mx	-.0035	1.25
4	MP4A	X	0	5.25
5	MP4A	Z	-5.296	5.25
6	MP4A	Mx	-.0035	5.25
7	MP4A	X	0	1.25
8	MP4A	Z	-5.296	1.25
9	MP4A	Mx	.0035	1.25
10	MP4A	X	0	5.25
11	MP4A	Z	-5.296	5.25
12	MP4A	Mx	.0035	5.25
13	MP1A	X	0	5
14	MP1A	Z	-2.941	5
15	MP1A	Mx	0	5
16	RRU1	X	0	2
17	RRU1	Z	-2.98	2
18	RRU1	Mx	0	2
19	RRU2	X	0	2
20	RRU2	Z	-2.98	2
21	RRU2	Mx	0	2
22	MP1A	X	0	.25
23	MP1A	Z	-3.643	.25
24	MP1A	Mx	0	.25
25	MP1A	X	0	2.25
26	MP1A	Z	-3.643	2.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
27	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	2.271	1.25
2	MP4A	Z	-3.933	1.25
3	MP4A	Mx	-.0041	1.25
4	MP4A	X	2.271	5.25
5	MP4A	Z	-3.933	5.25
6	MP4A	Mx	-.0041	5.25
7	MP4A	X	2.271	1.25
8	MP4A	Z	-3.933	1.25
9	MP4A	Mx	.0011	1.25
10	MP4A	X	2.271	5.25
11	MP4A	Z	-3.933	5.25
12	MP4A	Mx	.0011	5.25
13	MP1A	X	1.284	5
14	MP1A	Z	-2.225	5
15	MP1A	Mx	-.000642	5
16	RRU1	X	1.367	2
17	RRU1	Z	-2.368	2
18	RRU1	Mx	.000684	2
19	RRU2	X	1.322	2
20	RRU2	Z	-2.289	2
21	RRU2	Mx	.000661	2
22	MP1A	X	1.542	.25
23	MP1A	Z	-2.67	.25
24	MP1A	Mx	-.000771	.25
25	MP1A	X	1.542	2.25
26	MP1A	Z	-2.67	2.25
27	MP1A	Mx	-.000771	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	2.626	1.25
2	MP4A	Z	-1.516	1.25
3	MP4A	Mx	-.0028	1.25
4	MP4A	X	2.626	5.25
5	MP4A	Z	-1.516	5.25
6	MP4A	Mx	-.0028	5.25
7	MP4A	X	2.626	1.25
8	MP4A	Z	-1.516	1.25
9	MP4A	Mx	-.00074	1.25
10	MP4A	X	2.626	5.25
11	MP4A	Z	-1.516	5.25
12	MP4A	Mx	-.00074	5.25
13	MP1A	X	1.579	5
14	MP1A	Z	-.912	5
15	MP1A	Mx	-.00079	5
16	RRU1	X	1.944	2
17	RRU1	Z	-1.122	2
18	RRU1	Mx	.000972	2
19	RRU2	X	1.707	2
20	RRU2	Z	-.985	2
21	RRU2	Mx	.000854	2
22	MP1A	X	1.7	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
23	MP1A	Z	- .982	.25
24	MP1A	Mx	- .00085	.25
25	MP1A	X	1.7	2.25
26	MP1A	Z	- .982	2.25
27	MP1A	Mx	- .00085	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.278	1.25
2	MP4A	Z	0	1.25
3	MP4A	Mx	- .0015	1.25
4	MP4A	X	2.278	5.25
5	MP4A	Z	0	5.25
6	MP4A	Mx	- .0015	5.25
7	MP4A	X	2.278	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	- .0015	1.25
10	MP4A	X	2.278	5.25
11	MP4A	Z	0	5.25
12	MP4A	Mx	- .0015	5.25
13	MP1A	X	1.451	5
14	MP1A	Z	0	5
15	MP1A	Mx	- .000725	5
16	RRU1	X	1.999	2
17	RRU1	Z	0	2
18	RRU1	Mx	.001	2
19	RRU2	X	1.634	2
20	RRU2	Z	0	2
21	RRU2	Mx	.000817	2
22	MP1A	X	1.403	.25
23	MP1A	Z	0	.25
24	MP1A	Mx	- .000702	.25
25	MP1A	X	1.403	2.25
26	MP1A	Z	0	2.25
27	MP1A	Mx	- .000702	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.626	1.25
2	MP4A	Z	1.516	1.25
3	MP4A	Mx	- .00074	1.25
4	MP4A	X	2.626	5.25
5	MP4A	Z	1.516	5.25
6	MP4A	Mx	- .00074	5.25
7	MP4A	X	2.626	1.25
8	MP4A	Z	1.516	1.25
9	MP4A	Mx	- .0028	1.25
10	MP4A	X	2.626	5.25
11	MP4A	Z	1.516	5.25
12	MP4A	Mx	- .0028	5.25
13	MP1A	X	1.579	5
14	MP1A	Z	.912	5
15	MP1A	Mx	- .00079	5
16	RRU1	X	1.944	2
17	RRU1	Z	1.122	2
18	RRU1	Mx	.000972	2



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

July 13, 2023
 11:46 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
19	RRU2	X	1.707	2
20	RRU2	Z	.985	2
21	RRU2	Mx	.000854	2
22	MP1A	X	1.7	.25
23	MP1A	Z	.982	.25
24	MP1A	Mx	-.00085	.25
25	MP1A	X	1.7	2.25
26	MP1A	Z	.982	2.25
27	MP1A	Mx	-.00085	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.271	1.25
2	MP4A	Z	3.933	1.25
3	MP4A	Mx	.0011	1.25
4	MP4A	X	2.271	5.25
5	MP4A	Z	3.933	5.25
6	MP4A	Mx	.0011	5.25
7	MP4A	X	2.271	1.25
8	MP4A	Z	3.933	1.25
9	MP4A	Mx	-.0041	1.25
10	MP4A	X	2.271	5.25
11	MP4A	Z	3.933	5.25
12	MP4A	Mx	-.0041	5.25
13	MP1A	X	1.284	5
14	MP1A	Z	2.225	5
15	MP1A	Mx	-.000642	5
16	RRU1	X	1.367	2
17	RRU1	Z	2.368	2
18	RRU1	Mx	.000684	2
19	RRU2	X	1.322	2
20	RRU2	Z	2.289	2
21	RRU2	Mx	.000661	2
22	MP1A	X	1.542	.25
23	MP1A	Z	2.67	.25
24	MP1A	Mx	-.000771	.25
25	MP1A	X	1.542	2.25
26	MP1A	Z	2.67	2.25
27	MP1A	Mx	-.000771	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	1.25
2	MP4A	Z	5.296	1.25
3	MP4A	Mx	.0035	1.25
4	MP4A	X	0	5.25
5	MP4A	Z	5.296	5.25
6	MP4A	Mx	.0035	5.25
7	MP4A	X	0	1.25
8	MP4A	Z	5.296	1.25
9	MP4A	Mx	-.0035	1.25
10	MP4A	X	0	5.25
11	MP4A	Z	5.296	5.25
12	MP4A	Mx	-.0035	5.25
13	MP1A	X	0	5
14	MP1A	Z	2.941	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1A	Mx	0	5
16	RRU1	X	0	2
17	RRU1	Z	2.98	2
18	RRU1	Mx	0	2
19	RRU2	X	0	2
20	RRU2	Z	2.98	2
21	RRU2	Mx	0	2
22	MP1A	X	0	.25
23	MP1A	Z	3.643	.25
24	MP1A	Mx	0	.25
25	MP1A	X	0	2.25
26	MP1A	Z	3.643	2.25
27	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.271	1.25
2	MP4A	Z	3.933	1.25
3	MP4A	Mx	.0041	1.25
4	MP4A	X	-2.271	5.25
5	MP4A	Z	3.933	5.25
6	MP4A	Mx	.0041	5.25
7	MP4A	X	-2.271	1.25
8	MP4A	Z	3.933	1.25
9	MP4A	Mx	-.0011	1.25
10	MP4A	X	-2.271	5.25
11	MP4A	Z	3.933	5.25
12	MP4A	Mx	-.0011	5.25
13	MP1A	X	-1.284	5
14	MP1A	Z	2.225	5
15	MP1A	Mx	.000642	5
16	RRU1	X	-1.367	2
17	RRU1	Z	2.368	2
18	RRU1	Mx	-.000684	2
19	RRU2	X	-1.322	2
20	RRU2	Z	2.289	2
21	RRU2	Mx	-.000661	2
22	MP1A	X	-1.542	.25
23	MP1A	Z	2.67	.25
24	MP1A	Mx	.000771	.25
25	MP1A	X	-1.542	2.25
26	MP1A	Z	2.67	2.25
27	MP1A	Mx	.000771	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.626	1.25
2	MP4A	Z	1.516	1.25
3	MP4A	Mx	.0028	1.25
4	MP4A	X	-2.626	5.25
5	MP4A	Z	1.516	5.25
6	MP4A	Mx	.0028	5.25
7	MP4A	X	-2.626	1.25
8	MP4A	Z	1.516	1.25
9	MP4A	Mx	.00074	1.25
10	MP4A	X	-2.626	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP4A	Z	1.516	5.25
12	MP4A	Mx	.00074	5.25
13	MP1A	X	-1.579	5
14	MP1A	Z	.912	5
15	MP1A	Mx	.00079	5
16	RRU1	X	-1.944	2
17	RRU1	Z	1.122	2
18	RRU1	Mx	-.000972	2
19	RRU2	X	-1.707	2
20	RRU2	Z	.985	2
21	RRU2	Mx	-.000854	2
22	MP1A	X	-1.7	.25
23	MP1A	Z	.982	.25
24	MP1A	Mx	.00085	.25
25	MP1A	X	-1.7	2.25
26	MP1A	Z	.982	2.25
27	MP1A	Mx	.00085	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.278	1.25
2	MP4A	Z	0	1.25
3	MP4A	Mx	.0015	1.25
4	MP4A	X	-2.278	5.25
5	MP4A	Z	0	5.25
6	MP4A	Mx	.0015	5.25
7	MP4A	X	-2.278	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	.0015	1.25
10	MP4A	X	-2.278	5.25
11	MP4A	Z	0	5.25
12	MP4A	Mx	.0015	5.25
13	MP1A	X	-1.451	5
14	MP1A	Z	0	5
15	MP1A	Mx	.000725	5
16	RRU1	X	-1.999	2
17	RRU1	Z	0	2
18	RRU1	Mx	-.001	2
19	RRU2	X	-1.634	2
20	RRU2	Z	0	2
21	RRU2	Mx	-.000817	2
22	MP1A	X	-1.403	.25
23	MP1A	Z	0	.25
24	MP1A	Mx	.000702	.25
25	MP1A	X	-1.403	2.25
26	MP1A	Z	0	2.25
27	MP1A	Mx	.000702	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.626	1.25
2	MP4A	Z	-1.516	1.25
3	MP4A	Mx	.00074	1.25
4	MP4A	X	-2.626	5.25
5	MP4A	Z	-1.516	5.25
6	MP4A	Mx	.00074	5.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
7	MP4A	X	-2.626	1.25
8	MP4A	Z	-1.516	1.25
9	MP4A	Mx	.0028	1.25
10	MP4A	X	-2.626	5.25
11	MP4A	Z	-1.516	5.25
12	MP4A	Mx	.0028	5.25
13	MP1A	X	-1.579	5
14	MP1A	Z	-.912	5
15	MP1A	Mx	.00079	5
16	RRU1	X	-1.944	2
17	RRU1	Z	-1.122	2
18	RRU1	Mx	-.000972	2
19	RRU2	X	-1.707	2
20	RRU2	Z	-.985	2
21	RRU2	Mx	-.000854	2
22	MP1A	X	-1.7	.25
23	MP1A	Z	-.982	.25
24	MP1A	Mx	.00085	.25
25	MP1A	X	-1.7	2.25
26	MP1A	Z	-.982	2.25
27	MP1A	Mx	.00085	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.271	1.25
2	MP4A	Z	-3.933	1.25
3	MP4A	Mx	-.0011	1.25
4	MP4A	X	-2.271	5.25
5	MP4A	Z	-3.933	5.25
6	MP4A	Mx	-.0011	5.25
7	MP4A	X	-2.271	1.25
8	MP4A	Z	-3.933	1.25
9	MP4A	Mx	.0041	1.25
10	MP4A	X	-2.271	5.25
11	MP4A	Z	-3.933	5.25
12	MP4A	Mx	.0041	5.25
13	MP1A	X	-1.284	5
14	MP1A	Z	-2.225	5
15	MP1A	Mx	.000642	5
16	RRU1	X	-1.367	2
17	RRU1	Z	-2.368	2
18	RRU1	Mx	-.000684	2
19	RRU2	X	-1.322	2
20	RRU2	Z	-2.289	2
21	RRU2	Mx	-.000661	2
22	MP1A	X	-1.542	.25
23	MP1A	Z	-2.67	.25
24	MP1A	Mx	.000771	.25
25	MP1A	X	-1.542	2.25
26	MP1A	Z	-2.67	2.25
27	MP1A	Mx	.000771	2.25

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M3	Y	-500	0



Member Point Loads (BLC 78 : Lm2)

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

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	M1	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP4A	Y	-.7979	1.25
2	MP4A	My	-.000532	1.25
3	MP4A	Mz	.000532	1.25
4	MP4A	Y	-.7979	5.25
5	MP4A	My	-.000532	5.25
6	MP4A	Mz	.000532	5.25
7	MP4A	Y	-.7979	1.25
8	MP4A	My	-.000532	1.25
9	MP4A	Mz	-.000532	1.25
10	MP4A	Y	-.7979	5.25
11	MP4A	My	-.000532	5.25
12	MP4A	Mz	-.000532	5.25
13	MP1A	Y	-.9255	5
14	MP1A	My	-.000463	5
15	MP1A	Mz	0	5
16	RRU1	Y	-3.367	2
17	RRU1	My	.0017	2
18	RRU1	Mz	0	2
19	RRU2	Y	-2.8045	2
20	RRU2	My	.0014	2
21	RRU2	Mz	0	2
22	MP1A	Y	-1.1429	.25
23	MP1A	My	-.000571	.25
24	MP1A	Mz	0	.25
25	MP1A	Y	-1.1429	2.25
26	MP1A	My	-.000571	2.25
27	MP1A	Mz	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP4A	Z	-1.9947	1.25
2	MP4A	Mx	-.0013	1.25
3	MP4A	Z	-1.9947	5.25
4	MP4A	Mx	-.0013	5.25
5	MP4A	Z	-1.9947	1.25
6	MP4A	Mx	.0013	1.25
7	MP4A	Z	-1.9947	5.25
8	MP4A	Mx	.0013	5.25
9	MP1A	Z	-2.3138	5
10	MP1A	Mx	0	5
11	RRU1	Z	-8.4175	2
12	RRU1	Mx	0	2
13	RRU2	Z	-7.0113	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
14	RRU2	Mx	0	2
15	MP1A	Z	-2.8574	.25
16	MP1A	Mx	0	.25
17	MP1A	Z	-2.8574	2.25
18	MP1A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	1.9947	1.25
2	MP4A	Mx	-.0013	1.25
3	MP4A	X	1.9947	5.25
4	MP4A	Mx	-.0013	5.25
5	MP4A	X	1.9947	1.25
6	MP4A	Mx	-.0013	1.25
7	MP4A	X	1.9947	5.25
8	MP4A	Mx	-.0013	5.25
9	MP1A	X	2.3138	5
10	MP1A	Mx	-.0012	5
11	RRU1	X	8.4175	2
12	RRU1	Mx	.0042	2
13	RRU2	X	7.0113	2
14	RRU2	Mx	.0035	2
15	MP1A	X	2.8574	.25
16	MP1A	Mx	-.0014	.25
17	MP1A	X	2.8574	2.25
18	MP1A	Mx	-.0014	2.25

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude...	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	Y	-9.279	-9.279	0	%100
2	M2	Y	-9.279	-9.279	0	%100
3	M13	Y	-10.6678	-10.6678	0	%100
4	M14	Y	-10.6678	-10.6678	0	%100
5	M15	Y	-10.6678	-10.6678	0	%100
6	M16	Y	-10.6678	-10.6678	0	%100
7	M17	Y	-8.2584	-8.2584	0	%100
8	M18	Y	-8.2584	-8.2584	0	%100
9	M19	Y	-8.2584	-8.2584	0	%100
10	M20	Y	-8.2584	-8.2584	0	%100
11	M21	Y	-10.6678	-10.6678	0	%100
12	M22	Y	-10.6678	-10.6678	0	%100
13	M23	Y	-10.6678	-10.6678	0	%100
14	M24	Y	-10.6678	-10.6678	0	%100
15	M25	Y	-4.9414	-4.9414	0	%100
16	M26	Y	-4.9414	-4.9414	0	%100
17	M27	Y	-4.9414	-4.9414	0	%100
18	M28	Y	-4.9414	-4.9414	0	%100
19	MP4A	Y	-8.2584	-8.2584	0	%100
20	MP3A	Y	-8.2584	-8.2584	0	%100
21	MP2A	Y	-8.2584	-8.2584	0	%100
22	MP1A	Y	-8.2584	-8.2584	0	%100
23	M44	Y	-4.6862	-4.6862	0	%100
24	M45	Y	-4.6862	-4.6862	0	%100
25	M46	Y	-4.6862	-4.6862	0	%100
26	M47	Y	-4.6862	-4.6862	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
27	M43	Y	-8.2584	-8.2584	0	%100
28	RRU1	Y	-8.2584	-8.2584	0	%100
29	RRU2	Y	-8.2584	-8.2584	0	%100
30	M51	Y	-8.2584	-8.2584	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	M1	X	0	0	0	%100
2	M1	Z	-8.8433	-8.8433	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-8.8433	-8.8433	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-3.4915	-3.4915	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.4915	-3.4915	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.4915	-3.4915	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-3.4915	-3.4915	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.9225	-1.9225	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.9225	-1.9225	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.9225	-1.9225	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.9225	-1.9225	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.9912	-1.9912	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.9912	-1.9912	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.9912	-1.9912	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.9912	-1.9912	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-7.3054	-7.3054	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-7.3054	-7.3054	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-7.3054	-7.3054	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-7.3054	-7.3054	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.9225	-1.9225	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.9225	-1.9225	0	%100
49	M46	X	0	0	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]
50	M46	Z	-1.9225	-1.9225	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.9225	-1.9225	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.187	-.187	0	%100
55	RRU1	X	0	0	0	%100
56	RRU1	Z	-7.3054	-7.3054	0	%100
57	RRU2	X	0	0	0	%100
58	RRU2	Z	-7.3054	-7.3054	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	-.187	-.187	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	3.3163	3.3163	0	%100
2	M1	Z	-5.7439	-5.7439	0	%100
3	M2	X	3.3163	3.3163	0	%100
4	M2	Z	-5.7439	-5.7439	0	%100
5	M13	X	.2403	.2403	0	%100
6	M13	Z	-.4162	-.4162	0	%100
7	M14	X	.2403	.2403	0	%100
8	M14	Z	-.4162	-.4162	0	%100
9	M15	X	.2403	.2403	0	%100
10	M15	Z	-.4162	-.4162	0	%100
11	M16	X	.2403	.2403	0	%100
12	M16	Z	-.4162	-.4162	0	%100
13	M17	X	.393	.393	0	%100
14	M17	Z	-.6808	-.6808	0	%100
15	M18	X	.393	.393	0	%100
16	M18	Z	-.6808	-.6808	0	%100
17	M19	X	2.7608	2.7608	0	%100
18	M19	Z	-4.7819	-4.7819	0	%100
19	M20	X	2.7608	2.7608	0	%100
20	M20	Z	-4.7819	-4.7819	0	%100
21	M21	X	.7209	.7209	0	%100
22	M21	Z	-1.2487	-1.2487	0	%100
23	M22	X	.7209	.7209	0	%100
24	M22	Z	-1.2487	-1.2487	0	%100
25	M23	X	.7209	.7209	0	%100
26	M23	Z	-1.2487	-1.2487	0	%100
27	M24	X	.7209	.7209	0	%100
28	M24	Z	-1.2487	-1.2487	0	%100
29	M25	X	.7961	.7961	0	%100
30	M25	Z	-1.3789	-1.3789	0	%100
31	M26	X	.7961	.7961	0	%100
32	M26	Z	-1.3789	-1.3789	0	%100
33	M27	X	1.1453	1.1453	0	%100
34	M27	Z	-1.9837	-1.9837	0	%100
35	M28	X	1.1453	1.1453	0	%100
36	M28	Z	-1.9837	-1.9837	0	%100
37	MP4A	X	3.6527	3.6527	0	%100
38	MP4A	Z	-6.3266	-6.3266	0	%100
39	MP3A	X	3.6527	3.6527	0	%100
40	MP3A	Z	-6.3266	-6.3266	0	%100
41	MP2A	X	3.6527	3.6527	0	%100
42	MP2A	Z	-6.3266	-6.3266	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]
43	MP1A	X	3.6527	3.6527	0	%100
44	MP1A	Z	-6.3266	-6.3266	0	%100
45	M44	X	.9612	.9612	0	%100
46	M44	Z	-1.6649	-1.6649	0	%100
47	M45	X	.9612	.9612	0	%100
48	M45	Z	-1.6649	-1.6649	0	%100
49	M46	X	.9612	.9612	0	%100
50	M46	Z	-1.6649	-1.6649	0	%100
51	M47	X	.9612	.9612	0	%100
52	M47	Z	-1.6649	-1.6649	0	%100
53	M43	X	.4695	.4695	0	%100
54	M43	Z	-.8131	-.8131	0	%100
55	RRU1	X	3.6527	3.6527	0	%100
56	RRU1	Z	-6.3266	-6.3266	0	%100
57	RRU2	X	3.6527	3.6527	0	%100
58	RRU2	Z	-6.3266	-6.3266	0	%100
59	M51	X	.4695	.4695	0	%100
60	M51	Z	-.8131	-.8131	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	M1	X	1.9146	1.9146	0	%100
2	M1	Z	-1.1054	-1.1054	0	%100
3	M2	X	1.9146	1.9146	0	%100
4	M2	Z	-1.1054	-1.1054	0	%100
5	M13	X	1.2487	1.2487	0	%100
6	M13	Z	-.7209	-.7209	0	%100
7	M14	X	1.2487	1.2487	0	%100
8	M14	Z	-.7209	-.7209	0	%100
9	M15	X	1.2487	1.2487	0	%100
10	M15	Z	-.7209	-.7209	0	%100
11	M16	X	1.2487	1.2487	0	%100
12	M16	Z	-.7209	-.7209	0	%100
13	M17	X	.096	.096	0	%100
14	M17	Z	-.0554	-.0554	0	%100
15	M18	X	.096	.096	0	%100
16	M18	Z	-.0554	-.0554	0	%100
17	M19	X	4.1971	4.1971	0	%100
18	M19	Z	-2.4232	-2.4232	0	%100
19	M20	X	4.1971	4.1971	0	%100
20	M20	Z	-2.4232	-2.4232	0	%100
21	M21	X	.4162	.4162	0	%100
22	M21	Z	-.2403	-.2403	0	%100
23	M22	X	.4162	.4162	0	%100
24	M22	Z	-.2403	-.2403	0	%100
25	M23	X	.4162	.4162	0	%100
26	M23	Z	-.2403	-.2403	0	%100
27	M24	X	.4162	.4162	0	%100
28	M24	Z	-.2403	-.2403	0	%100
29	M25	X	1.2926	1.2926	0	%100
30	M25	Z	-.7463	-.7463	0	%100
31	M26	X	1.2926	1.2926	0	%100
32	M26	Z	-.7463	-.7463	0	%100
33	M27	X	1.8975	1.8975	0	%100
34	M27	Z	-1.0955	-1.0955	0	%100
35	M28	X	1.8975	1.8975	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
36	M28	Z	-1.0955	-1.0955	0	%100
37	MP4A	X	6.3266	6.3266	0	%100
38	MP4A	Z	-3.6527	-3.6527	0	%100
39	MP3A	X	6.3266	6.3266	0	%100
40	MP3A	Z	-3.6527	-3.6527	0	%100
41	MP2A	X	6.3266	6.3266	0	%100
42	MP2A	Z	-3.6527	-3.6527	0	%100
43	MP1A	X	6.3266	6.3266	0	%100
44	MP1A	Z	-3.6527	-3.6527	0	%100
45	M44	X	1.6649	1.6649	0	%100
46	M44	Z	-0.9612	-0.9612	0	%100
47	M45	X	1.6649	1.6649	0	%100
48	M45	Z	-0.9612	-0.9612	0	%100
49	M46	X	1.6649	1.6649	0	%100
50	M46	Z	-0.9612	-0.9612	0	%100
51	M47	X	1.6649	1.6649	0	%100
52	M47	Z	-0.9612	-0.9612	0	%100
53	M43	X	3.8172	3.8172	0	%100
54	M43	Z	-2.2039	-2.2039	0	%100
55	RRU1	X	6.3266	6.3266	0	%100
56	RRU1	Z	-3.6527	-3.6527	0	%100
57	RRU2	X	6.3266	6.3266	0	%100
58	RRU2	Z	-3.6527	-3.6527	0	%100
59	M51	X	3.8172	3.8172	0	%100
60	M51	Z	-2.2039	-2.2039	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.9225	1.9225	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.9225	1.9225	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.9225	1.9225	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.9225	1.9225	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.141	2.141	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.141	2.141	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.141	2.141	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.141	2.141	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	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]
29	M25	X	1.792	1.792	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.792	1.792	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.792	1.792	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.792	1.792	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	7.3054	7.3054	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	7.3054	7.3054	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	7.3054	7.3054	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	7.3054	7.3054	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.9225	1.9225	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.9225	1.9225	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.9225	1.9225	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.9225	1.9225	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	7.1246	7.1246	0	%100
54	M43	Z	0	0	0	%100
55	RRU1	X	7.3054	7.3054	0	%100
56	RRU1	Z	0	0	0	%100
57	RRU2	X	7.3054	7.3054	0	%100
58	RRU2	Z	0	0	0	%100
59	M51	X	7.1246	7.1246	0	%100
60	M51	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	M1	X	1.9146	1.9146	0	%100
2	M1	Z	1.1054	1.1054	0	%100
3	M2	X	1.9146	1.9146	0	%100
4	M2	Z	1.1054	1.1054	0	%100
5	M13	X	1.2487	1.2487	0	%100
6	M13	Z	.7209	.7209	0	%100
7	M14	X	1.2487	1.2487	0	%100
8	M14	Z	.7209	.7209	0	%100
9	M15	X	1.2487	1.2487	0	%100
10	M15	Z	.7209	.7209	0	%100
11	M16	X	1.2487	1.2487	0	%100
12	M16	Z	.7209	.7209	0	%100
13	M17	X	4.1971	4.1971	0	%100
14	M17	Z	2.4232	2.4232	0	%100
15	M18	X	4.1971	4.1971	0	%100
16	M18	Z	2.4232	2.4232	0	%100
17	M19	X	.096	.096	0	%100
18	M19	Z	.0554	.0554	0	%100
19	M20	X	.096	.096	0	%100
20	M20	Z	.0554	.0554	0	%100
21	M21	X	.4162	.4162	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
22	M21	Z	.2403	.2403	0	%100
23	M22	X	.4162	.4162	0	%100
24	M22	Z	.2403	.2403	0	%100
25	M23	X	.4162	.4162	0	%100
26	M23	Z	.2403	.2403	0	%100
27	M24	X	.4162	.4162	0	%100
28	M24	Z	.2403	.2403	0	%100
29	M25	X	1.8975	1.8975	0	%100
30	M25	Z	1.0955	1.0955	0	%100
31	M26	X	1.8975	1.8975	0	%100
32	M26	Z	1.0955	1.0955	0	%100
33	M27	X	1.2926	1.2926	0	%100
34	M27	Z	.7463	.7463	0	%100
35	M28	X	1.2926	1.2926	0	%100
36	M28	Z	.7463	.7463	0	%100
37	MP4A	X	6.3266	6.3266	0	%100
38	MP4A	Z	3.6527	3.6527	0	%100
39	MP3A	X	6.3266	6.3266	0	%100
40	MP3A	Z	3.6527	3.6527	0	%100
41	MP2A	X	6.3266	6.3266	0	%100
42	MP2A	Z	3.6527	3.6527	0	%100
43	MP1A	X	6.3266	6.3266	0	%100
44	MP1A	Z	3.6527	3.6527	0	%100
45	M44	X	1.6649	1.6649	0	%100
46	M44	Z	.9612	.9612	0	%100
47	M45	X	1.6649	1.6649	0	%100
48	M45	Z	.9612	.9612	0	%100
49	M46	X	1.6649	1.6649	0	%100
50	M46	Z	.9612	.9612	0	%100
51	M47	X	1.6649	1.6649	0	%100
52	M47	Z	.9612	.9612	0	%100
53	M43	X	5.5189	5.5189	0	%100
54	M43	Z	3.1863	3.1863	0	%100
55	RRU1	X	6.3266	6.3266	0	%100
56	RRU1	Z	3.6527	3.6527	0	%100
57	RRU2	X	6.3266	6.3266	0	%100
58	RRU2	Z	3.6527	3.6527	0	%100
59	M51	X	5.5189	5.5189	0	%100
60	M51	Z	3.1863	3.1863	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	M1	X	3.3163	3.3163	0	%100
2	M1	Z	5.7439	5.7439	0	%100
3	M2	X	3.3163	3.3163	0	%100
4	M2	Z	5.7439	5.7439	0	%100
5	M13	X	.2403	.2403	0	%100
6	M13	Z	.4162	.4162	0	%100
7	M14	X	.2403	.2403	0	%100
8	M14	Z	.4162	.4162	0	%100
9	M15	X	.2403	.2403	0	%100
10	M15	Z	.4162	.4162	0	%100
11	M16	X	.2403	.2403	0	%100
12	M16	Z	.4162	.4162	0	%100
13	M17	X	2.7608	2.7608	0	%100
14	M17	Z	4.7819	4.7819	0	%100



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 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
15	M18	X	2.7608	2.7608	0	%100
16	M18	Z	4.7819	4.7819	0	%100
17	M19	X	.393	.393	0	%100
18	M19	Z	.6808	.6808	0	%100
19	M20	X	.393	.393	0	%100
20	M20	Z	.6808	.6808	0	%100
21	M21	X	.7209	.7209	0	%100
22	M21	Z	1.2487	1.2487	0	%100
23	M22	X	.7209	.7209	0	%100
24	M22	Z	1.2487	1.2487	0	%100
25	M23	X	.7209	.7209	0	%100
26	M23	Z	1.2487	1.2487	0	%100
27	M24	X	.7209	.7209	0	%100
28	M24	Z	1.2487	1.2487	0	%100
29	M25	X	1.1453	1.1453	0	%100
30	M25	Z	1.9837	1.9837	0	%100
31	M26	X	1.1453	1.1453	0	%100
32	M26	Z	1.9837	1.9837	0	%100
33	M27	X	.7961	.7961	0	%100
34	M27	Z	1.3789	1.3789	0	%100
35	M28	X	.7961	.7961	0	%100
36	M28	Z	1.3789	1.3789	0	%100
37	MP4A	X	3.6527	3.6527	0	%100
38	MP4A	Z	6.3266	6.3266	0	%100
39	MP3A	X	3.6527	3.6527	0	%100
40	MP3A	Z	6.3266	6.3266	0	%100
41	MP2A	X	3.6527	3.6527	0	%100
42	MP2A	Z	6.3266	6.3266	0	%100
43	MP1A	X	3.6527	3.6527	0	%100
44	MP1A	Z	6.3266	6.3266	0	%100
45	M44	X	.9612	.9612	0	%100
46	M44	Z	1.6649	1.6649	0	%100
47	M45	X	.9612	.9612	0	%100
48	M45	Z	1.6649	1.6649	0	%100
49	M46	X	.9612	.9612	0	%100
50	M46	Z	1.6649	1.6649	0	%100
51	M47	X	.9612	.9612	0	%100
52	M47	Z	1.6649	1.6649	0	%100
53	M43	X	1.4519	1.4519	0	%100
54	M43	Z	2.5148	2.5148	0	%100
55	RRU1	X	3.6527	3.6527	0	%100
56	RRU1	Z	6.3266	6.3266	0	%100
57	RRU2	X	3.6527	3.6527	0	%100
58	RRU2	Z	6.3266	6.3266	0	%100
59	M51	X	1.4519	1.4519	0	%100
60	M51	Z	2.5148	2.5148	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	M1	X	0	0	0	%100
2	M1	Z	8.8433	8.8433	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.8433	8.8433	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	3.4915	3.4915	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	3.4915	3.4915	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.4915	3.4915	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	3.4915	3.4915	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.9225	1.9225	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.9225	1.9225	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.9225	1.9225	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.9225	1.9225	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.9912	1.9912	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.9912	1.9912	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.9912	1.9912	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.9912	1.9912	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	7.3054	7.3054	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	7.3054	7.3054	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	7.3054	7.3054	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	7.3054	7.3054	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.9225	1.9225	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.9225	1.9225	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.9225	1.9225	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.9225	1.9225	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.187	.187	0	%100
55	RRU1	X	0	0	0	%100
56	RRU1	Z	7.3054	7.3054	0	%100
57	RRU2	X	0	0	0	%100
58	RRU2	Z	7.3054	7.3054	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	.187	.187	0	%100

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

Member Label Direction Start Magnitude...End Magnitude[...Start Location[ft,...End Location[ft,...



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	-3.3163	-3.3163	0	%100
2	M1	Z	5.7439	5.7439	0	%100
3	M2	X	-3.3163	-3.3163	0	%100
4	M2	Z	5.7439	5.7439	0	%100
5	M13	X	-.2403	-.2403	0	%100
6	M13	Z	.4162	.4162	0	%100
7	M14	X	-.2403	-.2403	0	%100
8	M14	Z	.4162	.4162	0	%100
9	M15	X	-.2403	-.2403	0	%100
10	M15	Z	.4162	.4162	0	%100
11	M16	X	-.2403	-.2403	0	%100
12	M16	Z	.4162	.4162	0	%100
13	M17	X	-.393	-.393	0	%100
14	M17	Z	.6808	.6808	0	%100
15	M18	X	-.393	-.393	0	%100
16	M18	Z	.6808	.6808	0	%100
17	M19	X	-2.7608	-2.7608	0	%100
18	M19	Z	4.7819	4.7819	0	%100
19	M20	X	-2.7608	-2.7608	0	%100
20	M20	Z	4.7819	4.7819	0	%100
21	M21	X	-.7209	-.7209	0	%100
22	M21	Z	1.2487	1.2487	0	%100
23	M22	X	-.7209	-.7209	0	%100
24	M22	Z	1.2487	1.2487	0	%100
25	M23	X	-.7209	-.7209	0	%100
26	M23	Z	1.2487	1.2487	0	%100
27	M24	X	-.7209	-.7209	0	%100
28	M24	Z	1.2487	1.2487	0	%100
29	M25	X	-.7961	-.7961	0	%100
30	M25	Z	1.3789	1.3789	0	%100
31	M26	X	-.7961	-.7961	0	%100
32	M26	Z	1.3789	1.3789	0	%100
33	M27	X	-1.1453	-1.1453	0	%100
34	M27	Z	1.9837	1.9837	0	%100
35	M28	X	-1.1453	-1.1453	0	%100
36	M28	Z	1.9837	1.9837	0	%100
37	MP4A	X	-3.6527	-3.6527	0	%100
38	MP4A	Z	6.3266	6.3266	0	%100
39	MP3A	X	-3.6527	-3.6527	0	%100
40	MP3A	Z	6.3266	6.3266	0	%100
41	MP2A	X	-3.6527	-3.6527	0	%100
42	MP2A	Z	6.3266	6.3266	0	%100
43	MP1A	X	-3.6527	-3.6527	0	%100
44	MP1A	Z	6.3266	6.3266	0	%100
45	M44	X	-.9612	-.9612	0	%100
46	M44	Z	1.6649	1.6649	0	%100
47	M45	X	-.9612	-.9612	0	%100
48	M45	Z	1.6649	1.6649	0	%100
49	M46	X	-.9612	-.9612	0	%100
50	M46	Z	1.6649	1.6649	0	%100
51	M47	X	-.9612	-.9612	0	%100
52	M47	Z	1.6649	1.6649	0	%100
53	M43	X	-.4695	-.4695	0	%100
54	M43	Z	.8131	.8131	0	%100
55	RRU1	X	-3.6527	-3.6527	0	%100
56	RRU1	Z	6.3266	6.3266	0	%100
57	RRU2	X	-3.6527	-3.6527	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
58	RRU2	Z	6.3266	6.3266	0	%100
59	M51	X	-.4695	-.4695	0	%100
60	M51	Z	.8131	.8131	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	M1	X	-1.9146	-1.9146	0	%100
2	M1	Z	1.1054	1.1054	0	%100
3	M2	X	-1.9146	-1.9146	0	%100
4	M2	Z	1.1054	1.1054	0	%100
5	M13	X	-1.2487	-1.2487	0	%100
6	M13	Z	.7209	.7209	0	%100
7	M14	X	-1.2487	-1.2487	0	%100
8	M14	Z	.7209	.7209	0	%100
9	M15	X	-1.2487	-1.2487	0	%100
10	M15	Z	.7209	.7209	0	%100
11	M16	X	-1.2487	-1.2487	0	%100
12	M16	Z	.7209	.7209	0	%100
13	M17	X	-.096	-.096	0	%100
14	M17	Z	.0554	.0554	0	%100
15	M18	X	-.096	-.096	0	%100
16	M18	Z	.0554	.0554	0	%100
17	M19	X	-4.1971	-4.1971	0	%100
18	M19	Z	2.4232	2.4232	0	%100
19	M20	X	-4.1971	-4.1971	0	%100
20	M20	Z	2.4232	2.4232	0	%100
21	M21	X	-.4162	-.4162	0	%100
22	M21	Z	.2403	.2403	0	%100
23	M22	X	-.4162	-.4162	0	%100
24	M22	Z	.2403	.2403	0	%100
25	M23	X	-.4162	-.4162	0	%100
26	M23	Z	.2403	.2403	0	%100
27	M24	X	-.4162	-.4162	0	%100
28	M24	Z	.2403	.2403	0	%100
29	M25	X	-1.2926	-1.2926	0	%100
30	M25	Z	.7463	.7463	0	%100
31	M26	X	-1.2926	-1.2926	0	%100
32	M26	Z	.7463	.7463	0	%100
33	M27	X	-1.8975	-1.8975	0	%100
34	M27	Z	1.0955	1.0955	0	%100
35	M28	X	-1.8975	-1.8975	0	%100
36	M28	Z	1.0955	1.0955	0	%100
37	MP4A	X	-6.3266	-6.3266	0	%100
38	MP4A	Z	3.6527	3.6527	0	%100
39	MP3A	X	-6.3266	-6.3266	0	%100
40	MP3A	Z	3.6527	3.6527	0	%100
41	MP2A	X	-6.3266	-6.3266	0	%100
42	MP2A	Z	3.6527	3.6527	0	%100
43	MP1A	X	-6.3266	-6.3266	0	%100
44	MP1A	Z	3.6527	3.6527	0	%100
45	M44	X	-1.6649	-1.6649	0	%100
46	M44	Z	.9612	.9612	0	%100
47	M45	X	-1.6649	-1.6649	0	%100
48	M45	Z	.9612	.9612	0	%100
49	M46	X	-1.6649	-1.6649	0	%100
50	M46	Z	.9612	.9612	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]
51	M47	X	-1.6649	-1.6649	0	%100
52	M47	Z	.9612	.9612	0	%100
53	M43	X	-3.8172	-3.8172	0	%100
54	M43	Z	2.2039	2.2039	0	%100
55	RRU1	X	-6.3266	-6.3266	0	%100
56	RRU1	Z	3.6527	3.6527	0	%100
57	RRU2	X	-6.3266	-6.3266	0	%100
58	RRU2	Z	3.6527	3.6527	0	%100
59	M51	X	-3.8172	-3.8172	0	%100
60	M51	Z	2.2039	2.2039	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.9225	-1.9225	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.9225	-1.9225	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.9225	-1.9225	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.9225	-1.9225	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.141	-2.141	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.141	-2.141	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.141	-2.141	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.141	-2.141	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.792	-1.792	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.792	-1.792	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.792	-1.792	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.792	-1.792	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-7.3054	-7.3054	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-7.3054	-7.3054	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-7.3054	-7.3054	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-7.3054	-7.3054	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.9225	-1.9225	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.9225	-1.9225	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.9225	-1.9225	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.9225	-1.9225	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-7.1246	-7.1246	0	%100
54	M43	Z	0	0	0	%100
55	RRU1	X	-7.3054	-7.3054	0	%100
56	RRU1	Z	0	0	0	%100
57	RRU2	X	-7.3054	-7.3054	0	%100
58	RRU2	Z	0	0	0	%100
59	M51	X	-7.1246	-7.1246	0	%100
60	M51	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	-1.9146	-1.9146	0	%100
2	M1	Z	-1.1054	-1.1054	0	%100
3	M2	X	-1.9146	-1.9146	0	%100
4	M2	Z	-1.1054	-1.1054	0	%100
5	M13	X	-1.2487	-1.2487	0	%100
6	M13	Z	-.7209	-.7209	0	%100
7	M14	X	-1.2487	-1.2487	0	%100
8	M14	Z	-.7209	-.7209	0	%100
9	M15	X	-1.2487	-1.2487	0	%100
10	M15	Z	-.7209	-.7209	0	%100
11	M16	X	-1.2487	-1.2487	0	%100
12	M16	Z	-.7209	-.7209	0	%100
13	M17	X	-4.1971	-4.1971	0	%100
14	M17	Z	-2.4232	-2.4232	0	%100
15	M18	X	-4.1971	-4.1971	0	%100
16	M18	Z	-2.4232	-2.4232	0	%100
17	M19	X	-.096	-.096	0	%100
18	M19	Z	-.0554	-.0554	0	%100
19	M20	X	-.096	-.096	0	%100
20	M20	Z	-.0554	-.0554	0	%100
21	M21	X	-.4162	-.4162	0	%100
22	M21	Z	-.2403	-.2403	0	%100
23	M22	X	-.4162	-.4162	0	%100
24	M22	Z	-.2403	-.2403	0	%100
25	M23	X	-.4162	-.4162	0	%100
26	M23	Z	-.2403	-.2403	0	%100
27	M24	X	-.4162	-.4162	0	%100
28	M24	Z	-.2403	-.2403	0	%100
29	M25	X	-1.8975	-1.8975	0	%100
30	M25	Z	-1.0955	-1.0955	0	%100
31	M26	X	-1.8975	-1.8975	0	%100
32	M26	Z	-1.0955	-1.0955	0	%100
33	M27	X	-1.2926	-1.2926	0	%100
34	M27	Z	-.7463	-.7463	0	%100
35	M28	X	-1.2926	-1.2926	0	%100
36	M28	Z	-.7463	-.7463	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
37	MP4A	X	-6.3266	-6.3266	0	%100
38	MP4A	Z	-3.6527	-3.6527	0	%100
39	MP3A	X	-6.3266	-6.3266	0	%100
40	MP3A	Z	-3.6527	-3.6527	0	%100
41	MP2A	X	-6.3266	-6.3266	0	%100
42	MP2A	Z	-3.6527	-3.6527	0	%100
43	MP1A	X	-6.3266	-6.3266	0	%100
44	MP1A	Z	-3.6527	-3.6527	0	%100
45	M44	X	-1.6649	-1.6649	0	%100
46	M44	Z	-.9612	-.9612	0	%100
47	M45	X	-1.6649	-1.6649	0	%100
48	M45	Z	-.9612	-.9612	0	%100
49	M46	X	-1.6649	-1.6649	0	%100
50	M46	Z	-.9612	-.9612	0	%100
51	M47	X	-1.6649	-1.6649	0	%100
52	M47	Z	-.9612	-.9612	0	%100
53	M43	X	-5.5189	-5.5189	0	%100
54	M43	Z	-3.1863	-3.1863	0	%100
55	RRU1	X	-6.3266	-6.3266	0	%100
56	RRU1	Z	-3.6527	-3.6527	0	%100
57	RRU2	X	-6.3266	-6.3266	0	%100
58	RRU2	Z	-3.6527	-3.6527	0	%100
59	M51	X	-5.5189	-5.5189	0	%100
60	M51	Z	-3.1863	-3.1863	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	M1	X	-3.3163	-3.3163	0	%100
2	M1	Z	-5.7439	-5.7439	0	%100
3	M2	X	-3.3163	-3.3163	0	%100
4	M2	Z	-5.7439	-5.7439	0	%100
5	M13	X	-.2403	-.2403	0	%100
6	M13	Z	-.4162	-.4162	0	%100
7	M14	X	-.2403	-.2403	0	%100
8	M14	Z	-.4162	-.4162	0	%100
9	M15	X	-.2403	-.2403	0	%100
10	M15	Z	-.4162	-.4162	0	%100
11	M16	X	-.2403	-.2403	0	%100
12	M16	Z	-.4162	-.4162	0	%100
13	M17	X	-2.7608	-2.7608	0	%100
14	M17	Z	-4.7819	-4.7819	0	%100
15	M18	X	-2.7608	-2.7608	0	%100
16	M18	Z	-4.7819	-4.7819	0	%100
17	M19	X	-.393	-.393	0	%100
18	M19	Z	-.6808	-.6808	0	%100
19	M20	X	-.393	-.393	0	%100
20	M20	Z	-.6808	-.6808	0	%100
21	M21	X	-.7209	-.7209	0	%100
22	M21	Z	-1.2487	-1.2487	0	%100
23	M22	X	-.7209	-.7209	0	%100
24	M22	Z	-1.2487	-1.2487	0	%100
25	M23	X	-.7209	-.7209	0	%100
26	M23	Z	-1.2487	-1.2487	0	%100
27	M24	X	-.7209	-.7209	0	%100
28	M24	Z	-1.2487	-1.2487	0	%100
29	M25	X	-1.1453	-1.1453	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]
30	M25	Z	-1.9837	-1.9837	0	%100
31	M26	X	-1.1453	-1.1453	0	%100
32	M26	Z	-1.9837	-1.9837	0	%100
33	M27	X	-.7961	-.7961	0	%100
34	M27	Z	-1.3789	-1.3789	0	%100
35	M28	X	-.7961	-.7961	0	%100
36	M28	Z	-1.3789	-1.3789	0	%100
37	MP4A	X	-3.6527	-3.6527	0	%100
38	MP4A	Z	-6.3266	-6.3266	0	%100
39	MP3A	X	-3.6527	-3.6527	0	%100
40	MP3A	Z	-6.3266	-6.3266	0	%100
41	MP2A	X	-3.6527	-3.6527	0	%100
42	MP2A	Z	-6.3266	-6.3266	0	%100
43	MP1A	X	-3.6527	-3.6527	0	%100
44	MP1A	Z	-6.3266	-6.3266	0	%100
45	M44	X	-.9612	-.9612	0	%100
46	M44	Z	-1.6649	-1.6649	0	%100
47	M45	X	-.9612	-.9612	0	%100
48	M45	Z	-1.6649	-1.6649	0	%100
49	M46	X	-.9612	-.9612	0	%100
50	M46	Z	-1.6649	-1.6649	0	%100
51	M47	X	-.9612	-.9612	0	%100
52	M47	Z	-1.6649	-1.6649	0	%100
53	M43	X	-1.4519	-1.4519	0	%100
54	M43	Z	-2.5148	-2.5148	0	%100
55	RRU1	X	-3.6527	-3.6527	0	%100
56	RRU1	Z	-6.3266	-6.3266	0	%100
57	RRU2	X	-3.6527	-3.6527	0	%100
58	RRU2	Z	-6.3266	-6.3266	0	%100
59	M51	X	-1.4519	-1.4519	0	%100
60	M51	Z	-2.5148	-2.5148	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	M1	X	0	0	0	%100
2	M1	Z	-3.3197	-3.3197	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.3197	-3.3197	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.3842	-1.3842	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.3842	-1.3842	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.3842	-1.3842	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.3842	-1.3842	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.3747	-1.3747	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]
23	M22	X	0	0	0	%100
24	M22	Z	-1.3747	-1.3747	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.3747	-1.3747	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.3747	-1.3747	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.5996	-1.5996	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.5996	-1.5996	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.5996	-1.5996	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.5996	-1.5996	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-3.0527	-3.0527	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-3.0527	-3.0527	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-3.0527	-3.0527	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-3.0527	-3.0527	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.6876	-1.6876	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.6876	-1.6876	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.6876	-1.6876	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.6876	-1.6876	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.0722	-.0722	0	%100
55	RRU1	X	0	0	0	%100
56	RRU1	Z	-2.82	-2.82	0	%100
57	RRU2	X	0	0	0	%100
58	RRU2	Z	-2.82	-2.82	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	-.0722	-.0722	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	M1	X	1.2449	1.2449	0	%100
2	M1	Z	-2.1562	-2.1562	0	%100
3	M2	X	1.2449	1.2449	0	%100
4	M2	Z	-2.1562	-2.1562	0	%100
5	M13	X	.1718	.1718	0	%100
6	M13	Z	-.2976	-.2976	0	%100
7	M14	X	.1718	.1718	0	%100
8	M14	Z	-.2976	-.2976	0	%100
9	M15	X	.1718	.1718	0	%100
10	M15	Z	-.2976	-.2976	0	%100
11	M16	X	.1718	.1718	0	%100
12	M16	Z	-.2976	-.2976	0	%100
13	M17	X	.1558	.1558	0	%100
14	M17	Z	-.2699	-.2699	0	%100
15	M18	X	.1558	.1558	0	%100



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 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
16	M18	Z	-.2699	-.2699	0	%100
17	M19	X	1.0945	1.0945	0	%100
18	M19	Z	-1.8957	-1.8957	0	%100
19	M20	X	1.0945	1.0945	0	%100
20	M20	Z	-1.8957	-1.8957	0	%100
21	M21	X	.5155	.5155	0	%100
22	M21	Z	-.8929	-.8929	0	%100
23	M22	X	.5155	.5155	0	%100
24	M22	Z	-.8929	-.8929	0	%100
25	M23	X	.5155	.5155	0	%100
26	M23	Z	-.8929	-.8929	0	%100
27	M24	X	.5155	.5155	0	%100
28	M24	Z	-.8929	-.8929	0	%100
29	M25	X	.6395	.6395	0	%100
30	M25	Z	-1.1077	-1.1077	0	%100
31	M26	X	.6395	.6395	0	%100
32	M26	Z	-1.1077	-1.1077	0	%100
33	M27	X	.9201	.9201	0	%100
34	M27	Z	-1.5937	-1.5937	0	%100
35	M28	X	.9201	.9201	0	%100
36	M28	Z	-1.5937	-1.5937	0	%100
37	MP4A	X	1.5264	1.5264	0	%100
38	MP4A	Z	-2.6437	-2.6437	0	%100
39	MP3A	X	1.5264	1.5264	0	%100
40	MP3A	Z	-2.6437	-2.6437	0	%100
41	MP2A	X	1.5264	1.5264	0	%100
42	MP2A	Z	-2.6437	-2.6437	0	%100
43	MP1A	X	1.5264	1.5264	0	%100
44	MP1A	Z	-2.6437	-2.6437	0	%100
45	M44	X	.8438	.8438	0	%100
46	M44	Z	-1.4615	-1.4615	0	%100
47	M45	X	.8438	.8438	0	%100
48	M45	Z	-1.4615	-1.4615	0	%100
49	M46	X	.8438	.8438	0	%100
50	M46	Z	-1.4615	-1.4615	0	%100
51	M47	X	.8438	.8438	0	%100
52	M47	Z	-1.4615	-1.4615	0	%100
53	M43	X	.1813	.1813	0	%100
54	M43	Z	-.314	-.314	0	%100
55	RRU1	X	1.41	1.41	0	%100
56	RRU1	Z	-2.4422	-2.4422	0	%100
57	RRU2	X	1.41	1.41	0	%100
58	RRU2	Z	-2.4422	-2.4422	0	%100
59	M51	X	.1813	.1813	0	%100
60	M51	Z	-.314	-.314	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M1	X	.7187	.7187	0	%100
2	M1	Z	-.415	-.415	0	%100
3	M2	X	.7187	.7187	0	%100
4	M2	Z	-.415	-.415	0	%100
5	M13	X	.8929	.8929	0	%100
6	M13	Z	-.5155	-.5155	0	%100
7	M14	X	.8929	.8929	0	%100
8	M14	Z	-.5155	-.5155	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]
9	M15	X	.8929	.8929	0	%100
10	M15	Z	-.5155	-.5155	0	%100
11	M16	X	.8929	.8929	0	%100
12	M16	Z	-.5155	-.5155	0	%100
13	M17	X	.038	.038	0	%100
14	M17	Z	-.022	-.022	0	%100
15	M18	X	.038	.038	0	%100
16	M18	Z	-.022	-.022	0	%100
17	M19	X	1.6639	1.6639	0	%100
18	M19	Z	-.9606	-.9606	0	%100
19	M20	X	1.6639	1.6639	0	%100
20	M20	Z	-.9606	-.9606	0	%100
21	M21	X	.2976	.2976	0	%100
22	M21	Z	-.1718	-.1718	0	%100
23	M22	X	.2976	.2976	0	%100
24	M22	Z	-.1718	-.1718	0	%100
25	M23	X	.2976	.2976	0	%100
26	M23	Z	-.1718	-.1718	0	%100
27	M24	X	.2976	.2976	0	%100
28	M24	Z	-.1718	-.1718	0	%100
29	M25	X	1.0384	1.0384	0	%100
30	M25	Z	-.5995	-.5995	0	%100
31	M26	X	1.0384	1.0384	0	%100
32	M26	Z	-.5995	-.5995	0	%100
33	M27	X	1.5244	1.5244	0	%100
34	M27	Z	-.8801	-.8801	0	%100
35	M28	X	1.5244	1.5244	0	%100
36	M28	Z	-.8801	-.8801	0	%100
37	MP4A	X	2.6437	2.6437	0	%100
38	MP4A	Z	-1.5264	-1.5264	0	%100
39	MP3A	X	2.6437	2.6437	0	%100
40	MP3A	Z	-1.5264	-1.5264	0	%100
41	MP2A	X	2.6437	2.6437	0	%100
42	MP2A	Z	-1.5264	-1.5264	0	%100
43	MP1A	X	2.6437	2.6437	0	%100
44	MP1A	Z	-1.5264	-1.5264	0	%100
45	M44	X	1.4615	1.4615	0	%100
46	M44	Z	-.8438	-.8438	0	%100
47	M45	X	1.4615	1.4615	0	%100
48	M45	Z	-.8438	-.8438	0	%100
49	M46	X	1.4615	1.4615	0	%100
50	M46	Z	-.8438	-.8438	0	%100
51	M47	X	1.4615	1.4615	0	%100
52	M47	Z	-.8438	-.8438	0	%100
53	M43	X	1.4743	1.4743	0	%100
54	M43	Z	-.8512	-.8512	0	%100
55	RRU1	X	2.4422	2.4422	0	%100
56	RRU1	Z	-1.41	-1.41	0	%100
57	RRU2	X	2.4422	2.4422	0	%100
58	RRU2	Z	-1.41	-1.41	0	%100
59	M51	X	1.4743	1.4743	0	%100
60	M51	Z	-.8512	-.8512	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	M1	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.3747	1.3747	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.3747	1.3747	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.3747	1.3747	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.3747	1.3747	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.8488	.8488	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.8488	.8488	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.8488	.8488	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.8488	.8488	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.4396	1.4396	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.4396	1.4396	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.4396	1.4396	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.4396	1.4396	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	3.0527	3.0527	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	3.0527	3.0527	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	3.0527	3.0527	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	3.0527	3.0527	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.6876	1.6876	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.6876	1.6876	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.6876	1.6876	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.6876	1.6876	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	2.7517	2.7517	0	%100
54	M43	Z	0	0	0	%100
55	RRU1	X	2.82	2.82	0	%100
56	RRU1	Z	0	0	0	%100
57	RRU2	X	2.82	2.82	0	%100
58	RRU2	Z	0	0	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]
59	M51	X	2.7517	2.7517	0	%100
60	M51	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	M1	X	.7187	.7187	0	%100
2	M1	Z	.415	.415	0	%100
3	M2	X	.7187	.7187	0	%100
4	M2	Z	.415	.415	0	%100
5	M13	X	.8929	.8929	0	%100
6	M13	Z	.5155	.5155	0	%100
7	M14	X	.8929	.8929	0	%100
8	M14	Z	.5155	.5155	0	%100
9	M15	X	.8929	.8929	0	%100
10	M15	Z	.5155	.5155	0	%100
11	M16	X	.8929	.8929	0	%100
12	M16	Z	.5155	.5155	0	%100
13	M17	X	1.6639	1.6639	0	%100
14	M17	Z	.9606	.9606	0	%100
15	M18	X	1.6639	1.6639	0	%100
16	M18	Z	.9606	.9606	0	%100
17	M19	X	.038	.038	0	%100
18	M19	Z	.022	.022	0	%100
19	M20	X	.038	.038	0	%100
20	M20	Z	.022	.022	0	%100
21	M21	X	.2976	.2976	0	%100
22	M21	Z	.1718	.1718	0	%100
23	M22	X	.2976	.2976	0	%100
24	M22	Z	.1718	.1718	0	%100
25	M23	X	.2976	.2976	0	%100
26	M23	Z	.1718	.1718	0	%100
27	M24	X	.2976	.2976	0	%100
28	M24	Z	.1718	.1718	0	%100
29	M25	X	1.5244	1.5244	0	%100
30	M25	Z	.8801	.8801	0	%100
31	M26	X	1.5244	1.5244	0	%100
32	M26	Z	.8801	.8801	0	%100
33	M27	X	1.0384	1.0384	0	%100
34	M27	Z	.5995	.5995	0	%100
35	M28	X	1.0384	1.0384	0	%100
36	M28	Z	.5995	.5995	0	%100
37	MP4A	X	2.6437	2.6437	0	%100
38	MP4A	Z	1.5264	1.5264	0	%100
39	MP3A	X	2.6437	2.6437	0	%100
40	MP3A	Z	1.5264	1.5264	0	%100
41	MP2A	X	2.6437	2.6437	0	%100
42	MP2A	Z	1.5264	1.5264	0	%100
43	MP1A	X	2.6437	2.6437	0	%100
44	MP1A	Z	1.5264	1.5264	0	%100
45	M44	X	1.4615	1.4615	0	%100
46	M44	Z	.8438	.8438	0	%100
47	M45	X	1.4615	1.4615	0	%100
48	M45	Z	.8438	.8438	0	%100
49	M46	X	1.4615	1.4615	0	%100
50	M46	Z	.8438	.8438	0	%100
51	M47	X	1.4615	1.4615	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]
52	M47	Z	.8438	.8438	0	%100
53	M43	X	2.1315	2.1315	0	%100
54	M43	Z	1.2306	1.2306	0	%100
55	RRU1	X	2.4422	2.4422	0	%100
56	RRU1	Z	1.41	1.41	0	%100
57	RRU2	X	2.4422	2.4422	0	%100
58	RRU2	Z	1.41	1.41	0	%100
59	M51	X	2.1315	2.1315	0	%100
60	M51	Z	1.2306	1.2306	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	1.2449	1.2449	0	%100
2	M1	Z	2.1562	2.1562	0	%100
3	M2	X	1.2449	1.2449	0	%100
4	M2	Z	2.1562	2.1562	0	%100
5	M13	X	.1718	.1718	0	%100
6	M13	Z	.2976	.2976	0	%100
7	M14	X	.1718	.1718	0	%100
8	M14	Z	.2976	.2976	0	%100
9	M15	X	.1718	.1718	0	%100
10	M15	Z	.2976	.2976	0	%100
11	M16	X	.1718	.1718	0	%100
12	M16	Z	.2976	.2976	0	%100
13	M17	X	1.0945	1.0945	0	%100
14	M17	Z	1.8957	1.8957	0	%100
15	M18	X	1.0945	1.0945	0	%100
16	M18	Z	1.8957	1.8957	0	%100
17	M19	X	.1558	.1558	0	%100
18	M19	Z	.2699	.2699	0	%100
19	M20	X	.1558	.1558	0	%100
20	M20	Z	.2699	.2699	0	%100
21	M21	X	.5155	.5155	0	%100
22	M21	Z	.8929	.8929	0	%100
23	M22	X	.5155	.5155	0	%100
24	M22	Z	.8929	.8929	0	%100
25	M23	X	.5155	.5155	0	%100
26	M23	Z	.8929	.8929	0	%100
27	M24	X	.5155	.5155	0	%100
28	M24	Z	.8929	.8929	0	%100
29	M25	X	.9201	.9201	0	%100
30	M25	Z	1.5937	1.5937	0	%100
31	M26	X	.9201	.9201	0	%100
32	M26	Z	1.5937	1.5937	0	%100
33	M27	X	.6395	.6395	0	%100
34	M27	Z	1.1077	1.1077	0	%100
35	M28	X	.6395	.6395	0	%100
36	M28	Z	1.1077	1.1077	0	%100
37	MP4A	X	1.5264	1.5264	0	%100
38	MP4A	Z	2.6437	2.6437	0	%100
39	MP3A	X	1.5264	1.5264	0	%100
40	MP3A	Z	2.6437	2.6437	0	%100
41	MP2A	X	1.5264	1.5264	0	%100
42	MP2A	Z	2.6437	2.6437	0	%100
43	MP1A	X	1.5264	1.5264	0	%100
44	MP1A	Z	2.6437	2.6437	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]
45	M44	X	.8438	.8438	0	%100
46	M44	Z	1.4615	1.4615	0	%100
47	M45	X	.8438	.8438	0	%100
48	M45	Z	1.4615	1.4615	0	%100
49	M46	X	.8438	.8438	0	%100
50	M46	Z	1.4615	1.4615	0	%100
51	M47	X	.8438	.8438	0	%100
52	M47	Z	1.4615	1.4615	0	%100
53	M43	X	.5608	.5608	0	%100
54	M43	Z	.9713	.9713	0	%100
55	RRU1	X	1.41	1.41	0	%100
56	RRU1	Z	2.4422	2.4422	0	%100
57	RRU2	X	1.41	1.41	0	%100
58	RRU2	Z	2.4422	2.4422	0	%100
59	M51	X	.5608	.5608	0	%100
60	M51	Z	.9713	.9713	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	M1	X	0	0	0	%100
2	M1	Z	3.3197	3.3197	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.3197	3.3197	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	1.3842	1.3842	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.3842	1.3842	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.3842	1.3842	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	1.3842	1.3842	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.3747	1.3747	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.3747	1.3747	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.3747	1.3747	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.3747	1.3747	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.5996	1.5996	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.5996	1.5996	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.5996	1.5996	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.5996	1.5996	0	%100
37	MP4A	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]
38	MP4A	Z	3.0527	3.0527	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	3.0527	3.0527	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	3.0527	3.0527	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	3.0527	3.0527	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.6876	1.6876	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.6876	1.6876	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.6876	1.6876	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.6876	1.6876	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.0722	.0722	0	%100
55	RRU1	X	0	0	0	%100
56	RRU1	Z	2.82	2.82	0	%100
57	RRU2	X	0	0	0	%100
58	RRU2	Z	2.82	2.82	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	.0722	.0722	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	M1	X	-1.2449	-1.2449	0	%100
2	M1	Z	2.1562	2.1562	0	%100
3	M2	X	-1.2449	-1.2449	0	%100
4	M2	Z	2.1562	2.1562	0	%100
5	M13	X	-.1718	-.1718	0	%100
6	M13	Z	.2976	.2976	0	%100
7	M14	X	-.1718	-.1718	0	%100
8	M14	Z	.2976	.2976	0	%100
9	M15	X	-.1718	-.1718	0	%100
10	M15	Z	.2976	.2976	0	%100
11	M16	X	-.1718	-.1718	0	%100
12	M16	Z	.2976	.2976	0	%100
13	M17	X	-.1558	-.1558	0	%100
14	M17	Z	.2699	.2699	0	%100
15	M18	X	-.1558	-.1558	0	%100
16	M18	Z	.2699	.2699	0	%100
17	M19	X	-1.0945	-1.0945	0	%100
18	M19	Z	1.8957	1.8957	0	%100
19	M20	X	-1.0945	-1.0945	0	%100
20	M20	Z	1.8957	1.8957	0	%100
21	M21	X	-.5155	-.5155	0	%100
22	M21	Z	.8929	.8929	0	%100
23	M22	X	-.5155	-.5155	0	%100
24	M22	Z	.8929	.8929	0	%100
25	M23	X	-.5155	-.5155	0	%100
26	M23	Z	.8929	.8929	0	%100
27	M24	X	-.5155	-.5155	0	%100
28	M24	Z	.8929	.8929	0	%100
29	M25	X	-.6395	-.6395	0	%100
30	M25	Z	1.1077	1.1077	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
31	M26	X	- .6395	- .6395	0	%100
32	M26	Z	1.1077	1.1077	0	%100
33	M27	X	- .9201	- .9201	0	%100
34	M27	Z	1.5937	1.5937	0	%100
35	M28	X	- .9201	- .9201	0	%100
36	M28	Z	1.5937	1.5937	0	%100
37	MP4A	X	-1.5264	-1.5264	0	%100
38	MP4A	Z	2.6437	2.6437	0	%100
39	MP3A	X	-1.5264	-1.5264	0	%100
40	MP3A	Z	2.6437	2.6437	0	%100
41	MP2A	X	-1.5264	-1.5264	0	%100
42	MP2A	Z	2.6437	2.6437	0	%100
43	MP1A	X	-1.5264	-1.5264	0	%100
44	MP1A	Z	2.6437	2.6437	0	%100
45	M44	X	- .8438	- .8438	0	%100
46	M44	Z	1.4615	1.4615	0	%100
47	M45	X	- .8438	- .8438	0	%100
48	M45	Z	1.4615	1.4615	0	%100
49	M46	X	- .8438	- .8438	0	%100
50	M46	Z	1.4615	1.4615	0	%100
51	M47	X	- .8438	- .8438	0	%100
52	M47	Z	1.4615	1.4615	0	%100
53	M43	X	- .1813	- .1813	0	%100
54	M43	Z	.314	.314	0	%100
55	RRU1	X	-1.41	-1.41	0	%100
56	RRU1	Z	2.4422	2.4422	0	%100
57	RRU2	X	-1.41	-1.41	0	%100
58	RRU2	Z	2.4422	2.4422	0	%100
59	M51	X	- .1813	- .1813	0	%100
60	M51	Z	.314	.314	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	M1	X	- .7187	- .7187	0	%100
2	M1	Z	.415	.415	0	%100
3	M2	X	- .7187	- .7187	0	%100
4	M2	Z	.415	.415	0	%100
5	M13	X	- .8929	- .8929	0	%100
6	M13	Z	.5155	.5155	0	%100
7	M14	X	- .8929	- .8929	0	%100
8	M14	Z	.5155	.5155	0	%100
9	M15	X	- .8929	- .8929	0	%100
10	M15	Z	.5155	.5155	0	%100
11	M16	X	- .8929	- .8929	0	%100
12	M16	Z	.5155	.5155	0	%100
13	M17	X	- .038	- .038	0	%100
14	M17	Z	.022	.022	0	%100
15	M18	X	- .038	- .038	0	%100
16	M18	Z	.022	.022	0	%100
17	M19	X	-1.6639	-1.6639	0	%100
18	M19	Z	.9606	.9606	0	%100
19	M20	X	-1.6639	-1.6639	0	%100
20	M20	Z	.9606	.9606	0	%100
21	M21	X	- .2976	- .2976	0	%100
22	M21	Z	.1718	.1718	0	%100
23	M22	X	- .2976	- .2976	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]
24	M22	Z	.1718	.1718	0	%100
25	M23	X	-.2976	-.2976	0	%100
26	M23	Z	.1718	.1718	0	%100
27	M24	X	-.2976	-.2976	0	%100
28	M24	Z	.1718	.1718	0	%100
29	M25	X	-1.0384	-1.0384	0	%100
30	M25	Z	.5995	.5995	0	%100
31	M26	X	-1.0384	-1.0384	0	%100
32	M26	Z	.5995	.5995	0	%100
33	M27	X	-1.5244	-1.5244	0	%100
34	M27	Z	.8801	.8801	0	%100
35	M28	X	-1.5244	-1.5244	0	%100
36	M28	Z	.8801	.8801	0	%100
37	MP4A	X	-2.6437	-2.6437	0	%100
38	MP4A	Z	1.5264	1.5264	0	%100
39	MP3A	X	-2.6437	-2.6437	0	%100
40	MP3A	Z	1.5264	1.5264	0	%100
41	MP2A	X	-2.6437	-2.6437	0	%100
42	MP2A	Z	1.5264	1.5264	0	%100
43	MP1A	X	-2.6437	-2.6437	0	%100
44	MP1A	Z	1.5264	1.5264	0	%100
45	M44	X	-1.4615	-1.4615	0	%100
46	M44	Z	.8438	.8438	0	%100
47	M45	X	-1.4615	-1.4615	0	%100
48	M45	Z	.8438	.8438	0	%100
49	M46	X	-1.4615	-1.4615	0	%100
50	M46	Z	.8438	.8438	0	%100
51	M47	X	-1.4615	-1.4615	0	%100
52	M47	Z	.8438	.8438	0	%100
53	M43	X	-1.4743	-1.4743	0	%100
54	M43	Z	.8512	.8512	0	%100
55	RRU1	X	-2.4422	-2.4422	0	%100
56	RRU1	Z	1.41	1.41	0	%100
57	RRU2	X	-2.4422	-2.4422	0	%100
58	RRU2	Z	1.41	1.41	0	%100
59	M51	X	-1.4743	-1.4743	0	%100
60	M51	Z	.8512	.8512	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.3747	-1.3747	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.3747	-1.3747	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.3747	-1.3747	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.3747	-1.3747	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.8488	-.8488	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.8488	-.8488	0	%100
16	M18	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]
17	M19	X	-0.8488	-0.8488	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-0.8488	-0.8488	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.4396	-1.4396	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.4396	-1.4396	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.4396	-1.4396	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.4396	-1.4396	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-3.0527	-3.0527	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-3.0527	-3.0527	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-3.0527	-3.0527	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-3.0527	-3.0527	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.6876	-1.6876	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.6876	-1.6876	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.6876	-1.6876	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.6876	-1.6876	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-2.7517	-2.7517	0	%100
54	M43	Z	0	0	0	%100
55	RRU1	X	-2.82	-2.82	0	%100
56	RRU1	Z	0	0	0	%100
57	RRU2	X	-2.82	-2.82	0	%100
58	RRU2	Z	0	0	0	%100
59	M51	X	-2.7517	-2.7517	0	%100
60	M51	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	-0.7187	-0.7187	0	%100
2	M1	Z	-0.415	-0.415	0	%100
3	M2	X	-0.7187	-0.7187	0	%100
4	M2	Z	-0.415	-0.415	0	%100
5	M13	X	-0.8929	-0.8929	0	%100
6	M13	Z	-0.5155	-0.5155	0	%100
7	M14	X	-0.8929	-0.8929	0	%100
8	M14	Z	-0.5155	-0.5155	0	%100
9	M15	X	-0.8929	-0.8929	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
10	M15	Z	-5155	-5155	0	%100
11	M16	X	-8929	-8929	0	%100
12	M16	Z	-5155	-5155	0	%100
13	M17	X	-1.6639	-1.6639	0	%100
14	M17	Z	-9606	-9606	0	%100
15	M18	X	-1.6639	-1.6639	0	%100
16	M18	Z	-9606	-9606	0	%100
17	M19	X	-038	-038	0	%100
18	M19	Z	-022	-022	0	%100
19	M20	X	-038	-038	0	%100
20	M20	Z	-022	-022	0	%100
21	M21	X	-2976	-2976	0	%100
22	M21	Z	-1718	-1718	0	%100
23	M22	X	-2976	-2976	0	%100
24	M22	Z	-1718	-1718	0	%100
25	M23	X	-2976	-2976	0	%100
26	M23	Z	-1718	-1718	0	%100
27	M24	X	-2976	-2976	0	%100
28	M24	Z	-1718	-1718	0	%100
29	M25	X	-1.5244	-1.5244	0	%100
30	M25	Z	-8801	-8801	0	%100
31	M26	X	-1.5244	-1.5244	0	%100
32	M26	Z	-8801	-8801	0	%100
33	M27	X	-1.0384	-1.0384	0	%100
34	M27	Z	-5995	-5995	0	%100
35	M28	X	-1.0384	-1.0384	0	%100
36	M28	Z	-5995	-5995	0	%100
37	MP4A	X	-2.6437	-2.6437	0	%100
38	MP4A	Z	-1.5264	-1.5264	0	%100
39	MP3A	X	-2.6437	-2.6437	0	%100
40	MP3A	Z	-1.5264	-1.5264	0	%100
41	MP2A	X	-2.6437	-2.6437	0	%100
42	MP2A	Z	-1.5264	-1.5264	0	%100
43	MP1A	X	-2.6437	-2.6437	0	%100
44	MP1A	Z	-1.5264	-1.5264	0	%100
45	M44	X	-1.4615	-1.4615	0	%100
46	M44	Z	-8438	-8438	0	%100
47	M45	X	-1.4615	-1.4615	0	%100
48	M45	Z	-8438	-8438	0	%100
49	M46	X	-1.4615	-1.4615	0	%100
50	M46	Z	-8438	-8438	0	%100
51	M47	X	-1.4615	-1.4615	0	%100
52	M47	Z	-8438	-8438	0	%100
53	M43	X	-2.1315	-2.1315	0	%100
54	M43	Z	-1.2306	-1.2306	0	%100
55	RRU1	X	-2.4422	-2.4422	0	%100
56	RRU1	Z	-1.41	-1.41	0	%100
57	RRU2	X	-2.4422	-2.4422	0	%100
58	RRU2	Z	-1.41	-1.41	0	%100
59	M51	X	-2.1315	-2.1315	0	%100
60	M51	Z	-1.2306	-1.2306	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	M1	X	-1.2449	-1.2449	0	%100
2	M1	Z	-2.1562	-2.1562	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

July 13, 2023
 11:46 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
3	M2	X	-1.2449	-1.2449	0	%100
4	M2	Z	-2.1562	-2.1562	0	%100
5	M13	X	-.1718	-.1718	0	%100
6	M13	Z	-.2976	-.2976	0	%100
7	M14	X	-.1718	-.1718	0	%100
8	M14	Z	-.2976	-.2976	0	%100
9	M15	X	-.1718	-.1718	0	%100
10	M15	Z	-.2976	-.2976	0	%100
11	M16	X	-.1718	-.1718	0	%100
12	M16	Z	-.2976	-.2976	0	%100
13	M17	X	-1.0945	-1.0945	0	%100
14	M17	Z	-1.8957	-1.8957	0	%100
15	M18	X	-1.0945	-1.0945	0	%100
16	M18	Z	-1.8957	-1.8957	0	%100
17	M19	X	-.1558	-.1558	0	%100
18	M19	Z	-.2699	-.2699	0	%100
19	M20	X	-.1558	-.1558	0	%100
20	M20	Z	-.2699	-.2699	0	%100
21	M21	X	-.5155	-.5155	0	%100
22	M21	Z	-.8929	-.8929	0	%100
23	M22	X	-.5155	-.5155	0	%100
24	M22	Z	-.8929	-.8929	0	%100
25	M23	X	-.5155	-.5155	0	%100
26	M23	Z	-.8929	-.8929	0	%100
27	M24	X	-.5155	-.5155	0	%100
28	M24	Z	-.8929	-.8929	0	%100
29	M25	X	-.9201	-.9201	0	%100
30	M25	Z	-1.5937	-1.5937	0	%100
31	M26	X	-.9201	-.9201	0	%100
32	M26	Z	-1.5937	-1.5937	0	%100
33	M27	X	-.6395	-.6395	0	%100
34	M27	Z	-1.1077	-1.1077	0	%100
35	M28	X	-.6395	-.6395	0	%100
36	M28	Z	-1.1077	-1.1077	0	%100
37	MP4A	X	-1.5264	-1.5264	0	%100
38	MP4A	Z	-2.6437	-2.6437	0	%100
39	MP3A	X	-1.5264	-1.5264	0	%100
40	MP3A	Z	-2.6437	-2.6437	0	%100
41	MP2A	X	-1.5264	-1.5264	0	%100
42	MP2A	Z	-2.6437	-2.6437	0	%100
43	MP1A	X	-1.5264	-1.5264	0	%100
44	MP1A	Z	-2.6437	-2.6437	0	%100
45	M44	X	-.8438	-.8438	0	%100
46	M44	Z	-1.4615	-1.4615	0	%100
47	M45	X	-.8438	-.8438	0	%100
48	M45	Z	-1.4615	-1.4615	0	%100
49	M46	X	-.8438	-.8438	0	%100
50	M46	Z	-1.4615	-1.4615	0	%100
51	M47	X	-.8438	-.8438	0	%100
52	M47	Z	-1.4615	-1.4615	0	%100
53	M43	X	-.5608	-.5608	0	%100
54	M43	Z	-.9713	-.9713	0	%100
55	RRU1	X	-1.41	-1.41	0	%100
56	RRU1	Z	-2.4422	-2.4422	0	%100
57	RRU2	X	-1.41	-1.41	0	%100
58	RRU2	Z	-2.4422	-2.4422	0	%100
59	M51	X	-.5608	-.5608	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
60	M51	Z	-0.9713	-0.9713	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M1	X	0	0	0	%100
2	M1	Z	-0.5527	-0.5527	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-0.5527	-0.5527	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-0.2182	-0.2182	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-0.2182	-0.2182	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-0.2182	-0.2182	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-0.2182	-0.2182	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-0.1202	-0.1202	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-0.1202	-0.1202	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-0.1202	-0.1202	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-0.1202	-0.1202	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-0.1244	-0.1244	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-0.1244	-0.1244	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-0.1244	-0.1244	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-0.1244	-0.1244	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-0.4566	-0.4566	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-0.4566	-0.4566	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-0.4566	-0.4566	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-0.4566	-0.4566	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-0.1202	-0.1202	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-0.1202	-0.1202	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-0.1202	-0.1202	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-0.1202	-0.1202	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

July 13, 2023
 11:46 AM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
53	M43	X	0	0	0	%100
54	M43	Z	-.0117	-.0117	0	%100
55	RRU1	X	0	0	0	%100
56	RRU1	Z	-.4566	-.4566	0	%100
57	RRU2	X	0	0	0	%100
58	RRU2	Z	-.4566	-.4566	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	-.0117	-.0117	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	M1	X	.2073	.2073	0	%100
2	M1	Z	-.359	-.359	0	%100
3	M2	X	.2073	.2073	0	%100
4	M2	Z	-.359	-.359	0	%100
5	M13	X	.015	.015	0	%100
6	M13	Z	-.026	-.026	0	%100
7	M14	X	.015	.015	0	%100
8	M14	Z	-.026	-.026	0	%100
9	M15	X	.015	.015	0	%100
10	M15	Z	-.026	-.026	0	%100
11	M16	X	.015	.015	0	%100
12	M16	Z	-.026	-.026	0	%100
13	M17	X	.0246	.0246	0	%100
14	M17	Z	-.0425	-.0425	0	%100
15	M18	X	.0246	.0246	0	%100
16	M18	Z	-.0425	-.0425	0	%100
17	M19	X	.1726	.1726	0	%100
18	M19	Z	-.2989	-.2989	0	%100
19	M20	X	.1726	.1726	0	%100
20	M20	Z	-.2989	-.2989	0	%100
21	M21	X	.0451	.0451	0	%100
22	M21	Z	-.078	-.078	0	%100
23	M22	X	.0451	.0451	0	%100
24	M22	Z	-.078	-.078	0	%100
25	M23	X	.0451	.0451	0	%100
26	M23	Z	-.078	-.078	0	%100
27	M24	X	.0451	.0451	0	%100
28	M24	Z	-.078	-.078	0	%100
29	M25	X	.0498	.0498	0	%100
30	M25	Z	-.0862	-.0862	0	%100
31	M26	X	.0498	.0498	0	%100
32	M26	Z	-.0862	-.0862	0	%100
33	M27	X	.0716	.0716	0	%100
34	M27	Z	-.124	-.124	0	%100
35	M28	X	.0716	.0716	0	%100
36	M28	Z	-.124	-.124	0	%100
37	MP4A	X	.2283	.2283	0	%100
38	MP4A	Z	-.3954	-.3954	0	%100
39	MP3A	X	.2283	.2283	0	%100
40	MP3A	Z	-.3954	-.3954	0	%100
41	MP2A	X	.2283	.2283	0	%100
42	MP2A	Z	-.3954	-.3954	0	%100
43	MP1A	X	.2283	.2283	0	%100
44	MP1A	Z	-.3954	-.3954	0	%100
45	M44	X	.0601	.0601	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]
46	M44	Z	-.1041	-.1041	0	%100
47	M45	X	.0601	.0601	0	%100
48	M45	Z	-.1041	-.1041	0	%100
49	M46	X	.0601	.0601	0	%100
50	M46	Z	-.1041	-.1041	0	%100
51	M47	X	.0601	.0601	0	%100
52	M47	Z	-.1041	-.1041	0	%100
53	M43	X	.0293	.0293	0	%100
54	M43	Z	-.0508	-.0508	0	%100
55	RRU1	X	.2283	.2283	0	%100
56	RRU1	Z	-.3954	-.3954	0	%100
57	RRU2	X	.2283	.2283	0	%100
58	RRU2	Z	-.3954	-.3954	0	%100
59	M51	X	.0293	.0293	0	%100
60	M51	Z	-.0508	-.0508	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	M1	X	.1197	.1197	0	%100
2	M1	Z	-.0691	-.0691	0	%100
3	M2	X	.1197	.1197	0	%100
4	M2	Z	-.0691	-.0691	0	%100
5	M13	X	.078	.078	0	%100
6	M13	Z	-.0451	-.0451	0	%100
7	M14	X	.078	.078	0	%100
8	M14	Z	-.0451	-.0451	0	%100
9	M15	X	.078	.078	0	%100
10	M15	Z	-.0451	-.0451	0	%100
11	M16	X	.078	.078	0	%100
12	M16	Z	-.0451	-.0451	0	%100
13	M17	X	.006	.006	0	%100
14	M17	Z	-.0035	-.0035	0	%100
15	M18	X	.006	.006	0	%100
16	M18	Z	-.0035	-.0035	0	%100
17	M19	X	.2623	.2623	0	%100
18	M19	Z	-.1515	-.1515	0	%100
19	M20	X	.2623	.2623	0	%100
20	M20	Z	-.1515	-.1515	0	%100
21	M21	X	.026	.026	0	%100
22	M21	Z	-.015	-.015	0	%100
23	M22	X	.026	.026	0	%100
24	M22	Z	-.015	-.015	0	%100
25	M23	X	.026	.026	0	%100
26	M23	Z	-.015	-.015	0	%100
27	M24	X	.026	.026	0	%100
28	M24	Z	-.015	-.015	0	%100
29	M25	X	.0808	.0808	0	%100
30	M25	Z	-.0466	-.0466	0	%100
31	M26	X	.0808	.0808	0	%100
32	M26	Z	-.0466	-.0466	0	%100
33	M27	X	.1186	.1186	0	%100
34	M27	Z	-.0685	-.0685	0	%100
35	M28	X	.1186	.1186	0	%100
36	M28	Z	-.0685	-.0685	0	%100
37	MP4A	X	.3954	.3954	0	%100
38	MP4A	Z	-.2283	-.2283	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]
39	MP3A	X	.3954	.3954	0	%100
40	MP3A	Z	-.2283	-.2283	0	%100
41	MP2A	X	.3954	.3954	0	%100
42	MP2A	Z	-.2283	-.2283	0	%100
43	MP1A	X	.3954	.3954	0	%100
44	MP1A	Z	-.2283	-.2283	0	%100
45	M44	X	.1041	.1041	0	%100
46	M44	Z	-.0601	-.0601	0	%100
47	M45	X	.1041	.1041	0	%100
48	M45	Z	-.0601	-.0601	0	%100
49	M46	X	.1041	.1041	0	%100
50	M46	Z	-.0601	-.0601	0	%100
51	M47	X	.1041	.1041	0	%100
52	M47	Z	-.0601	-.0601	0	%100
53	M43	X	.2386	.2386	0	%100
54	M43	Z	-.1377	-.1377	0	%100
55	RRU1	X	.3954	.3954	0	%100
56	RRU1	Z	-.2283	-.2283	0	%100
57	RRU2	X	.3954	.3954	0	%100
58	RRU2	Z	-.2283	-.2283	0	%100
59	M51	X	.2386	.2386	0	%100
60	M51	Z	-.1377	-.1377	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.1202	.1202	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.1202	.1202	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.1202	.1202	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.1202	.1202	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.1338	.1338	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.1338	.1338	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.1338	.1338	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.1338	.1338	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.112	.112	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.112	.112	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]
32	M26	Z	0	0	0	%100
33	M27	X	.112	.112	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.112	.112	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	.4566	.4566	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.4566	.4566	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	.4566	.4566	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	.4566	.4566	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	.1202	.1202	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	.1202	.1202	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.1202	.1202	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.1202	.1202	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	.4453	.4453	0	%100
54	M43	Z	0	0	0	%100
55	RRU1	X	.4566	.4566	0	%100
56	RRU1	Z	0	0	0	%100
57	RRU2	X	.4566	.4566	0	%100
58	RRU2	Z	0	0	0	%100
59	M51	X	.4453	.4453	0	%100
60	M51	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	M1	X	.1197	.1197	0	%100
2	M1	Z	.0691	.0691	0	%100
3	M2	X	.1197	.1197	0	%100
4	M2	Z	.0691	.0691	0	%100
5	M13	X	.078	.078	0	%100
6	M13	Z	.0451	.0451	0	%100
7	M14	X	.078	.078	0	%100
8	M14	Z	.0451	.0451	0	%100
9	M15	X	.078	.078	0	%100
10	M15	Z	.0451	.0451	0	%100
11	M16	X	.078	.078	0	%100
12	M16	Z	.0451	.0451	0	%100
13	M17	X	.2623	.2623	0	%100
14	M17	Z	.1515	.1515	0	%100
15	M18	X	.2623	.2623	0	%100
16	M18	Z	.1515	.1515	0	%100
17	M19	X	.006	.006	0	%100
18	M19	Z	.0035	.0035	0	%100
19	M20	X	.006	.006	0	%100
20	M20	Z	.0035	.0035	0	%100
21	M21	X	.026	.026	0	%100
22	M21	Z	.015	.015	0	%100
23	M22	X	.026	.026	0	%100
24	M22	Z	.015	.015	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]
25	M23	X	.026	.026	0	%100
26	M23	Z	.015	.015	0	%100
27	M24	X	.026	.026	0	%100
28	M24	Z	.015	.015	0	%100
29	M25	X	.1186	.1186	0	%100
30	M25	Z	.0685	.0685	0	%100
31	M26	X	.1186	.1186	0	%100
32	M26	Z	.0685	.0685	0	%100
33	M27	X	.0808	.0808	0	%100
34	M27	Z	.0466	.0466	0	%100
35	M28	X	.0808	.0808	0	%100
36	M28	Z	.0466	.0466	0	%100
37	MP4A	X	.3954	.3954	0	%100
38	MP4A	Z	.2283	.2283	0	%100
39	MP3A	X	.3954	.3954	0	%100
40	MP3A	Z	.2283	.2283	0	%100
41	MP2A	X	.3954	.3954	0	%100
42	MP2A	Z	.2283	.2283	0	%100
43	MP1A	X	.3954	.3954	0	%100
44	MP1A	Z	.2283	.2283	0	%100
45	M44	X	.1041	.1041	0	%100
46	M44	Z	.0601	.0601	0	%100
47	M45	X	.1041	.1041	0	%100
48	M45	Z	.0601	.0601	0	%100
49	M46	X	.1041	.1041	0	%100
50	M46	Z	.0601	.0601	0	%100
51	M47	X	.1041	.1041	0	%100
52	M47	Z	.0601	.0601	0	%100
53	M43	X	.3449	.3449	0	%100
54	M43	Z	.1991	.1991	0	%100
55	RRU1	X	.3954	.3954	0	%100
56	RRU1	Z	.2283	.2283	0	%100
57	RRU2	X	.3954	.3954	0	%100
58	RRU2	Z	.2283	.2283	0	%100
59	M51	X	.3449	.3449	0	%100
60	M51	Z	.1991	.1991	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	M1	X	.2073	.2073	0	%100
2	M1	Z	.359	.359	0	%100
3	M2	X	.2073	.2073	0	%100
4	M2	Z	.359	.359	0	%100
5	M13	X	.015	.015	0	%100
6	M13	Z	.026	.026	0	%100
7	M14	X	.015	.015	0	%100
8	M14	Z	.026	.026	0	%100
9	M15	X	.015	.015	0	%100
10	M15	Z	.026	.026	0	%100
11	M16	X	.015	.015	0	%100
12	M16	Z	.026	.026	0	%100
13	M17	X	.1726	.1726	0	%100
14	M17	Z	.2989	.2989	0	%100
15	M18	X	.1726	.1726	0	%100
16	M18	Z	.2989	.2989	0	%100
17	M19	X	.0246	.0246	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]
18	M19	Z	.0425	.0425	0	%100
19	M20	X	.0246	.0246	0	%100
20	M20	Z	.0425	.0425	0	%100
21	M21	X	.0451	.0451	0	%100
22	M21	Z	.078	.078	0	%100
23	M22	X	.0451	.0451	0	%100
24	M22	Z	.078	.078	0	%100
25	M23	X	.0451	.0451	0	%100
26	M23	Z	.078	.078	0	%100
27	M24	X	.0451	.0451	0	%100
28	M24	Z	.078	.078	0	%100
29	M25	X	.0716	.0716	0	%100
30	M25	Z	.124	.124	0	%100
31	M26	X	.0716	.0716	0	%100
32	M26	Z	.124	.124	0	%100
33	M27	X	.0498	.0498	0	%100
34	M27	Z	.0862	.0862	0	%100
35	M28	X	.0498	.0498	0	%100
36	M28	Z	.0862	.0862	0	%100
37	MP4A	X	.2283	.2283	0	%100
38	MP4A	Z	.3954	.3954	0	%100
39	MP3A	X	.2283	.2283	0	%100
40	MP3A	Z	.3954	.3954	0	%100
41	MP2A	X	.2283	.2283	0	%100
42	MP2A	Z	.3954	.3954	0	%100
43	MP1A	X	.2283	.2283	0	%100
44	MP1A	Z	.3954	.3954	0	%100
45	M44	X	.0601	.0601	0	%100
46	M44	Z	.1041	.1041	0	%100
47	M45	X	.0601	.0601	0	%100
48	M45	Z	.1041	.1041	0	%100
49	M46	X	.0601	.0601	0	%100
50	M46	Z	.1041	.1041	0	%100
51	M47	X	.0601	.0601	0	%100
52	M47	Z	.1041	.1041	0	%100
53	M43	X	.0907	.0907	0	%100
54	M43	Z	.1572	.1572	0	%100
55	RRU1	X	.2283	.2283	0	%100
56	RRU1	Z	.3954	.3954	0	%100
57	RRU2	X	.2283	.2283	0	%100
58	RRU2	Z	.3954	.3954	0	%100
59	M51	X	.0907	.0907	0	%100
60	M51	Z	.1572	.1572	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	M1	X	0	0	0	%100
2	M1	Z	.5527	.5527	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.5527	.5527	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	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]
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.2182	.2182	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.2182	.2182	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.2182	.2182	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.2182	.2182	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.1202	.1202	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.1202	.1202	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.1202	.1202	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.1202	.1202	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.1244	.1244	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.1244	.1244	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.1244	.1244	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.1244	.1244	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.4566	.4566	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.4566	.4566	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.4566	.4566	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.4566	.4566	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.1202	.1202	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.1202	.1202	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.1202	.1202	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.1202	.1202	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.0117	.0117	0	%100
55	RRU1	X	0	0	0	%100
56	RRU1	Z	.4566	.4566	0	%100
57	RRU2	X	0	0	0	%100
58	RRU2	Z	.4566	.4566	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	.0117	.0117	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	-.2073	-.2073	0	%100
2	M1	Z	.359	.359	0	%100
3	M2	X	-.2073	-.2073	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
4	M2	Z	.359	.359	0	%100
5	M13	X	-.015	-.015	0	%100
6	M13	Z	.026	.026	0	%100
7	M14	X	-.015	-.015	0	%100
8	M14	Z	.026	.026	0	%100
9	M15	X	-.015	-.015	0	%100
10	M15	Z	.026	.026	0	%100
11	M16	X	-.015	-.015	0	%100
12	M16	Z	.026	.026	0	%100
13	M17	X	-.0246	-.0246	0	%100
14	M17	Z	.0425	.0425	0	%100
15	M18	X	-.0246	-.0246	0	%100
16	M18	Z	.0425	.0425	0	%100
17	M19	X	-.1726	-.1726	0	%100
18	M19	Z	.2989	.2989	0	%100
19	M20	X	-.1726	-.1726	0	%100
20	M20	Z	.2989	.2989	0	%100
21	M21	X	-.0451	-.0451	0	%100
22	M21	Z	.078	.078	0	%100
23	M22	X	-.0451	-.0451	0	%100
24	M22	Z	.078	.078	0	%100
25	M23	X	-.0451	-.0451	0	%100
26	M23	Z	.078	.078	0	%100
27	M24	X	-.0451	-.0451	0	%100
28	M24	Z	.078	.078	0	%100
29	M25	X	-.0498	-.0498	0	%100
30	M25	Z	.0862	.0862	0	%100
31	M26	X	-.0498	-.0498	0	%100
32	M26	Z	.0862	.0862	0	%100
33	M27	X	-.0716	-.0716	0	%100
34	M27	Z	.124	.124	0	%100
35	M28	X	-.0716	-.0716	0	%100
36	M28	Z	.124	.124	0	%100
37	MP4A	X	-.2283	-.2283	0	%100
38	MP4A	Z	.3954	.3954	0	%100
39	MP3A	X	-.2283	-.2283	0	%100
40	MP3A	Z	.3954	.3954	0	%100
41	MP2A	X	-.2283	-.2283	0	%100
42	MP2A	Z	.3954	.3954	0	%100
43	MP1A	X	-.2283	-.2283	0	%100
44	MP1A	Z	.3954	.3954	0	%100
45	M44	X	-.0601	-.0601	0	%100
46	M44	Z	.1041	.1041	0	%100
47	M45	X	-.0601	-.0601	0	%100
48	M45	Z	.1041	.1041	0	%100
49	M46	X	-.0601	-.0601	0	%100
50	M46	Z	.1041	.1041	0	%100
51	M47	X	-.0601	-.0601	0	%100
52	M47	Z	.1041	.1041	0	%100
53	M43	X	-.0293	-.0293	0	%100
54	M43	Z	.0508	.0508	0	%100
55	RRU1	X	-.2283	-.2283	0	%100
56	RRU1	Z	.3954	.3954	0	%100
57	RRU2	X	-.2283	-.2283	0	%100
58	RRU2	Z	.3954	.3954	0	%100
59	M51	X	-.0293	-.0293	0	%100
60	M51	Z	.0508	.0508	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	M1	X	-.1197	-.1197	0	%100
2	M1	Z	.0691	.0691	0	%100
3	M2	X	-.1197	-.1197	0	%100
4	M2	Z	.0691	.0691	0	%100
5	M13	X	-.078	-.078	0	%100
6	M13	Z	.0451	.0451	0	%100
7	M14	X	-.078	-.078	0	%100
8	M14	Z	.0451	.0451	0	%100
9	M15	X	-.078	-.078	0	%100
10	M15	Z	.0451	.0451	0	%100
11	M16	X	-.078	-.078	0	%100
12	M16	Z	.0451	.0451	0	%100
13	M17	X	-.006	-.006	0	%100
14	M17	Z	.0035	.0035	0	%100
15	M18	X	-.006	-.006	0	%100
16	M18	Z	.0035	.0035	0	%100
17	M19	X	-.2623	-.2623	0	%100
18	M19	Z	.1515	.1515	0	%100
19	M20	X	-.2623	-.2623	0	%100
20	M20	Z	.1515	.1515	0	%100
21	M21	X	-.026	-.026	0	%100
22	M21	Z	.015	.015	0	%100
23	M22	X	-.026	-.026	0	%100
24	M22	Z	.015	.015	0	%100
25	M23	X	-.026	-.026	0	%100
26	M23	Z	.015	.015	0	%100
27	M24	X	-.026	-.026	0	%100
28	M24	Z	.015	.015	0	%100
29	M25	X	-.0808	-.0808	0	%100
30	M25	Z	.0466	.0466	0	%100
31	M26	X	-.0808	-.0808	0	%100
32	M26	Z	.0466	.0466	0	%100
33	M27	X	-.1186	-.1186	0	%100
34	M27	Z	.0685	.0685	0	%100
35	M28	X	-.1186	-.1186	0	%100
36	M28	Z	.0685	.0685	0	%100
37	MP4A	X	-.3954	-.3954	0	%100
38	MP4A	Z	.2283	.2283	0	%100
39	MP3A	X	-.3954	-.3954	0	%100
40	MP3A	Z	.2283	.2283	0	%100
41	MP2A	X	-.3954	-.3954	0	%100
42	MP2A	Z	.2283	.2283	0	%100
43	MP1A	X	-.3954	-.3954	0	%100
44	MP1A	Z	.2283	.2283	0	%100
45	M44	X	-.1041	-.1041	0	%100
46	M44	Z	.0601	.0601	0	%100
47	M45	X	-.1041	-.1041	0	%100
48	M45	Z	.0601	.0601	0	%100
49	M46	X	-.1041	-.1041	0	%100
50	M46	Z	.0601	.0601	0	%100
51	M47	X	-.1041	-.1041	0	%100
52	M47	Z	.0601	.0601	0	%100
53	M43	X	-.2386	-.2386	0	%100
54	M43	Z	.1377	.1377	0	%100
55	RRU1	X	-.3954	-.3954	0	%100
56	RRU1	Z	.2283	.2283	0	%100
57	RRU2	X	-.3954	-.3954	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]
58	RRU2	Z	.2283	.2283	0	%100
59	M51	X	-.2386	-.2386	0	%100
60	M51	Z	.1377	.1377	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.1202	-.1202	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.1202	-.1202	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.1202	-.1202	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.1202	-.1202	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.1338	-.1338	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.1338	-.1338	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.1338	-.1338	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.1338	-.1338	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.112	-.112	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.112	-.112	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.112	-.112	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.112	-.112	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.4566	-.4566	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.4566	-.4566	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-.4566	-.4566	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.4566	-.4566	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.1202	-.1202	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.1202	-.1202	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.1202	-.1202	0	%100
50	M46	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]
51	M47	X	-1202	-1202	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-4453	-4453	0	%100
54	M43	Z	0	0	0	%100
55	RRU1	X	-4566	-4566	0	%100
56	RRU1	Z	0	0	0	%100
57	RRU2	X	-4566	-4566	0	%100
58	RRU2	Z	0	0	0	%100
59	M51	X	-4453	-4453	0	%100
60	M51	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M1	X	-1197	-1197	0	%100
2	M1	Z	-0691	-0691	0	%100
3	M2	X	-1197	-1197	0	%100
4	M2	Z	-0691	-0691	0	%100
5	M13	X	-078	-078	0	%100
6	M13	Z	-0451	-0451	0	%100
7	M14	X	-078	-078	0	%100
8	M14	Z	-0451	-0451	0	%100
9	M15	X	-078	-078	0	%100
10	M15	Z	-0451	-0451	0	%100
11	M16	X	-078	-078	0	%100
12	M16	Z	-0451	-0451	0	%100
13	M17	X	-2623	-2623	0	%100
14	M17	Z	-1515	-1515	0	%100
15	M18	X	-2623	-2623	0	%100
16	M18	Z	-1515	-1515	0	%100
17	M19	X	-006	-006	0	%100
18	M19	Z	-0035	-0035	0	%100
19	M20	X	-006	-006	0	%100
20	M20	Z	-0035	-0035	0	%100
21	M21	X	-026	-026	0	%100
22	M21	Z	-015	-015	0	%100
23	M22	X	-026	-026	0	%100
24	M22	Z	-015	-015	0	%100
25	M23	X	-026	-026	0	%100
26	M23	Z	-015	-015	0	%100
27	M24	X	-026	-026	0	%100
28	M24	Z	-015	-015	0	%100
29	M25	X	-1186	-1186	0	%100
30	M25	Z	-0685	-0685	0	%100
31	M26	X	-1186	-1186	0	%100
32	M26	Z	-0685	-0685	0	%100
33	M27	X	-0808	-0808	0	%100
34	M27	Z	-0466	-0466	0	%100
35	M28	X	-0808	-0808	0	%100
36	M28	Z	-0466	-0466	0	%100
37	MP4A	X	-3954	-3954	0	%100
38	MP4A	Z	-2283	-2283	0	%100
39	MP3A	X	-3954	-3954	0	%100
40	MP3A	Z	-2283	-2283	0	%100
41	MP2A	X	-3954	-3954	0	%100
42	MP2A	Z	-2283	-2283	0	%100
43	MP1A	X	-3954	-3954	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]
44	MP1A	Z	-0.2283	-0.2283	0	%100
45	M44	X	-0.1041	-0.1041	0	%100
46	M44	Z	-0.0601	-0.0601	0	%100
47	M45	X	-0.1041	-0.1041	0	%100
48	M45	Z	-0.0601	-0.0601	0	%100
49	M46	X	-0.1041	-0.1041	0	%100
50	M46	Z	-0.0601	-0.0601	0	%100
51	M47	X	-0.1041	-0.1041	0	%100
52	M47	Z	-0.0601	-0.0601	0	%100
53	M43	X	-0.3449	-0.3449	0	%100
54	M43	Z	-0.1991	-0.1991	0	%100
55	RRU1	X	-0.3954	-0.3954	0	%100
56	RRU1	Z	-0.2283	-0.2283	0	%100
57	RRU2	X	-0.3954	-0.3954	0	%100
58	RRU2	Z	-0.2283	-0.2283	0	%100
59	M51	X	-0.3449	-0.3449	0	%100
60	M51	Z	-0.1991	-0.1991	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	M1	X	-0.2073	-0.2073	0	%100
2	M1	Z	-0.359	-0.359	0	%100
3	M2	X	-0.2073	-0.2073	0	%100
4	M2	Z	-0.359	-0.359	0	%100
5	M13	X	-0.015	-0.015	0	%100
6	M13	Z	-0.026	-0.026	0	%100
7	M14	X	-0.015	-0.015	0	%100
8	M14	Z	-0.026	-0.026	0	%100
9	M15	X	-0.015	-0.015	0	%100
10	M15	Z	-0.026	-0.026	0	%100
11	M16	X	-0.015	-0.015	0	%100
12	M16	Z	-0.026	-0.026	0	%100
13	M17	X	-0.1726	-0.1726	0	%100
14	M17	Z	-0.2989	-0.2989	0	%100
15	M18	X	-0.1726	-0.1726	0	%100
16	M18	Z	-0.2989	-0.2989	0	%100
17	M19	X	-0.0246	-0.0246	0	%100
18	M19	Z	-0.0425	-0.0425	0	%100
19	M20	X	-0.0246	-0.0246	0	%100
20	M20	Z	-0.0425	-0.0425	0	%100
21	M21	X	-0.0451	-0.0451	0	%100
22	M21	Z	-0.078	-0.078	0	%100
23	M22	X	-0.0451	-0.0451	0	%100
24	M22	Z	-0.078	-0.078	0	%100
25	M23	X	-0.0451	-0.0451	0	%100
26	M23	Z	-0.078	-0.078	0	%100
27	M24	X	-0.0451	-0.0451	0	%100
28	M24	Z	-0.078	-0.078	0	%100
29	M25	X	-0.0716	-0.0716	0	%100
30	M25	Z	-0.124	-0.124	0	%100
31	M26	X	-0.0716	-0.0716	0	%100
32	M26	Z	-0.124	-0.124	0	%100
33	M27	X	-0.0498	-0.0498	0	%100
34	M27	Z	-0.0862	-0.0862	0	%100
35	M28	X	-0.0498	-0.0498	0	%100
36	M28	Z	-0.0862	-0.0862	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]
37	MP4A	X	-2283	-2283	0	%100
38	MP4A	Z	-3954	-3954	0	%100
39	MP3A	X	-2283	-2283	0	%100
40	MP3A	Z	-3954	-3954	0	%100
41	MP2A	X	-2283	-2283	0	%100
42	MP2A	Z	-3954	-3954	0	%100
43	MP1A	X	-2283	-2283	0	%100
44	MP1A	Z	-3954	-3954	0	%100
45	M44	X	-0601	-0601	0	%100
46	M44	Z	-1041	-1041	0	%100
47	M45	X	-0601	-0601	0	%100
48	M45	Z	-1041	-1041	0	%100
49	M46	X	-0601	-0601	0	%100
50	M46	Z	-1041	-1041	0	%100
51	M47	X	-0601	-0601	0	%100
52	M47	Z	-1041	-1041	0	%100
53	M43	X	-0907	-0907	0	%100
54	M43	Z	-1572	-1572	0	%100
55	RRU1	X	-2283	-2283	0	%100
56	RRU1	Z	-3954	-3954	0	%100
57	RRU2	X	-2283	-2283	0	%100
58	RRU2	Z	-3954	-3954	0	%100
59	M51	X	-0907	-0907	0	%100
60	M51	Z	-1572	-1572	0	%100

Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N35	...	1300.027	47	1213.91	18	1364.613	26	-365	74	0	75	.089	38
2		...	-1311.658	29	308.571	75	53.287	8	-1.468	18	0	1	-4.46	32
3	N36	...	1348.085	35	1188.016	16	582.879	2	-359	72	0	75	.055	38
4		...	-1334.552	41	305.923	72	-1505.383	20	-1.42	16	0	1	-4.13	32
5	N68A	...	80.057	26	36.626	23	722.391	47	0	75	0	75	0	75
6		...	-115.21	44	-3.659	27	-508.232	29	0	1	0	1	0	1
7	N69A	...	143.09	6	37.696	24	805.03	12	0	75	0	75	0	75
8		...	-123.455	12	-16.495	6	-925.569	6	0	1	0	1	0	1
9	Totals:	...	748.327	11	2450.332	22	1225.551	1						
10		...	-748.327	5	632.01	67	-1225.551	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	M1	PIPE_2.5	.256	8...	38	.072	3...	20	14558.7..	50715	3.596	3.596	2.267	H1-...
2	M2	PIPE_2.5	.261	3...	7	.108	3...	6	14558.7..	50715	3.596	3.596	2.098	H1-...
3	M13	PL5/8X3.5	.210	422	33	.150	374 y	3	66184.77	68906.25	.897	5.024	1.667	H1-...
4	M14	PL5/8X3.5	.243	0	31	.136	422 y	44	66184.77	68906.25	.897	5.024	1.667	H1-...
5	M15	PL5/8X3.5	.201	0	42	.019	422 z	39	66184.77	68906.25	.897	5.024	1.667	H1-...
6	M16	PL5/8X3.5	.150	0	37	.079	0 y	7	66184.77	68906.25	.897	5.024	1.667	H1-...
7	M17	PIPE_2.0	.271	2...	39	.078	0	17	31128.25	32130	1.872	1.872	1.12	H1-...
8	M18	PIPE_2.0	.266	2...	45	.102	0	30	31128.25	32130	1.872	1.872	2.216	H1-...



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777094
 Model Name : Antenna Mount Analysis

July 13, 2023
 11:46 AM
 Checked By: _____

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	
9	M19	PIPE_2.0	.186	2....	37	.074	0	43	31128.25	32130	1.872	1.872	1.687	H1-...
10	M20	PIPE_2.0	.189	2....	42	.068	0	42	31128.25	32130	1.872	1.872	1.783	H1-...
11	M21	PL5/8X3.5	.504	.531	33	.098	.531	y 33	67591.76	68906.25	.897	5.024	1.385	H1-...
12	M22	PL5/8X3.5	.450	.531	42	.052	.531	y 19	67591.76	68906.25	.897	5.024	1.308	H1-...
13	M23	PL5/8X3.5	.514	.531	27	.090	0	y 47	67591.76	68906.25	.897	5.024	1.379	H1-...
14	M24	PL5/8X3.5	.449	.531	38	.041	.531	y 13	67591.76	68906.25	.897	5.024	1.308	H1-...
15	M25	SR 0.75	.000	0	75	.010	0	19	2863.854	13916.2...	.174	.174	1.136	H1-...
16	M26	SR 0.75	.071	0	32	.018	0	35	2863.854	13916.2...	.174	.174	1.136	H1-...
17	M27	SR 0.75	.000	0	75	.011	4....	48	2863.854	13916.2...	.174	.174	1.136	H1-...
18	M28	SR 0.75	.068	4....	42	.012	0	41	2863.854	13916.2...	.174	.174	1.136	H1-...
19	MP4A	PIPE_2.0	.406	3....	33	.095	3....	7	14916.0...	32130	1.872	1.872	1.822	H1-...
20	MP3A	PIPE_2.0	.200	3....	31	.028	3....	7	14916.0...	32130	1.872	1.872	1.833	H1-...
21	MP2A	PIPE_2.0	.185	3....	43	.047	6....	37	14916.0...	32130	1.872	1.872	1.828	H1-...
22	MP1A	PIPE_2.0	.411	3....	41	.072	3....	7	14916.0...	32130	1.872	1.872	1.827	H1-...
23	M44	SR_0.625	.043	1....	12	.006	0	44	2158.31	9664.079	.101	.101	1.136	H1-...
24	M45	SR_0.625	.040	1....	8	.023	0	39	2158.31	9664.079	.101	.101	1.136	H1-...
25	M46	SR_0.625	.036	1....	7	.025	0	38	2158.31	9664.079	.101	.101	1	H1-...
26	M47	SR_0.625	.040	1....	1	.012	0	43	2158.31	9664.079	.101	.101	1	H1-...
27	M43	PIPE_2.0	.034	5....	12	.003	5....	22	23771.2...	32130	1.872	1.872	1.136	H1-...
28	RRU1	PIPE_2.0	.041	2....	7	.037	4....	42	23808.54	32130	1.872	1.872	1	H1-...
29	RRU2	PIPE_2.0	.037	2....	7	.025	1....	8	23808.54	32130	1.872	1.872	1	H1-...
30	M51	PIPE_2.0	.031	5....	47	.003	0	22	23771.2...	32130	1.872	1.872	1.136	H1-...

