



Crown Castle  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065

February 9, 2024

Melanie A. Bachman  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RE: Notice of Exempt Modification for Dish Wireless: NJJER01091A  
Crown Site ID# 826053  
88 Main Street Monroe, CT 06468  
Latitude: 41° 18' 6.06" / Longitude: -73° 15' 2.92"**

Dear Ms. Bachman:

Dish Wireless currently maintains Three (3) antennas at the 146-foot mount on the existing 195-foot monopole tower located at 88 Main Street, Monroe, CT. The property is owned by Stepney Volunteer Fire Co, and the tower is owned by Crown Castle. Dish Wireless now intends to add one (1) microwave dish and ancillary equipment at the 146ft level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

**Panned Modification:**

**Tower:**

Install New:

- (1) Commscope – VHLP2-11 W/A – Microwave Dish
- (1) Ceragon IP-50C ODU
- (1) Power Cable
- (1) Fiber Cable

The facility was approved by the Town of Monroe Planning and Zoning on January 11, 2001.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Terry Rooney, First Selectman, Town of Monroe, Karen Gallagher, Planning & Zoning Administrator, Town of Monroe. Stepney Volunteer Fire CO, Property Owner and Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Dish Wireless respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Sincerely,



Jeffrey Barbadora  
Permitting Specialist  
1800 W. Park Drive  
Westborough, MA 01581  
(781) 970-0053  
Jeff.Barbadora@crowncastle.com

Attachments

cc:

Terry Rooney, First Selectman  
Town of Monroe  
7 Fan Hill Road  
Monroe, CT 06468  
(203) 452-2821

Karen Gallagher, Planning & Zoning Administrator  
Town of Monroe  
7 Fan Hill Road  
Monroe, CT 06468  
(203) 452-2809

Stepney Volunteer Fire CO  
C/O Treasurer  
88 Main Street  
Monroe, CT 06468  
(203) 268-5389

Crown Castle - Tower Owner

**KNOW ALL MEN BY THESE PRESENTS, THAT THE TOWN PLANNING AND ZONING COMMISSION OF MONROE, CONNECTICUT, by its own vote on January 11, 2001, granted a Special Exception Permit to --**

**VoiceStream Wireless, Inc.**, for property at -

**88 Main Street** (DI-1 zone) - for construction of new wireless communication facility and associated site improvements as provided in Article XXV of the Zoning Regulations.

**FURTHER**, the approval is given subject to the following specific conditions:

1. The following plans presented at the hearing concluded November 16, 2000, including revisions and additions herein specified by the Commission, shall be the approved plans of record and basis of approval:  
  
"Site Plan (site address) Stepney Vol. Fire Dept., 88 Main Street, Monroe, CT, SITE #CT 11-215A," by ARCNET Architects, Inc. and Diversified Technology Consultants, Last Revised 10-24-00; Sheet Nos. S-1 (Record Exhibit A), and Z-1 (dated 6-19-00).
2. The final installation tower height be erected at the height proposed in the formal application/presentation (195') above finished grade to accommodate co-location and applicant needs.
3. Adequate area and location shall be reserved on the tower to accommodate the needs of municipal emergency services.
4. The exterior of the westerly and southerly facing sides of the fence enclosure shall be screened with dense evergreen ornamentals approximating the height of the enclosure of a type and nature to be approved by the Commission.
5. Provide copies of relevant final approvals or authorizations of state or federal authorities to the Planning and Zoning Department as a matter of information.
6. Before initiation of the work, final revised plans, based upon the plans of record, shall be filed in the Planning and Zoning Department.
7. The plans shall be revised to incorporate and address all comments in the reviewing reports submitted as part of the application and not previously incorporated into the plans.
8. Final plans shall bear an endorsement block stating:

Re: Special Exception Permit  
VoiceStream Wireless, Inc.  
88 Main Street - Monroe, CT

Page 2

These plans are the final construction plans and have been reviewed by the Director of Public Works and Town Planner.

\_\_\_\_\_  
Town Planner

\_\_\_\_\_  
Director of Public Works

Said block must appear in the lower right corner of each plan page near the title block.

9. No signs of any nature, other than normal temporary construction signs, are approved by this application. The installation of signs shall be approved only through the normal permit procedure of the Commission.
10. Submittal of all bonds and insurances as required by local and state laws and by the Commission at such times as may be required during the term of construction of the overall project until such time as the improvements or work covered by the applicable bond or insurances is deemed to be acceptably complete by the Commission.
11. A pre-construction conference is to be held with the developer and/or general contractor, engineer and architect, and Town staff, including Town Planner, Director of Public Works, Sanitarian, Building Inspector, Fire Marshal, and police representative prior to any work on the premises.
12. As-built construction plans shall be provided promptly in accordance with Chapter 44 of the Code of the Town of Monroe.
13. Provision of copies of plans, details and/or specifications, as may be required by Town and State agencies from time to time.
14. Should this action be the subject of appeal to the courts, no time limit specified herein shall begin to run until such litigation is fully concluded (date of final court action).
15. The effective date of the special exception permit shall be the date of recording in the Monroe Land Records. It shall be the responsibility of the applicant to record the special exception permit document (prepared by the Planning and Zoning Department) in the Monroe Land Records. Failure to record said document within ninety (90) days of the date of approval shall render the approval null and void.

Re: Special Exception Permit  
VoiceStream Wireless, Inc.  
88 Main Street - Monroe, CT

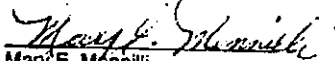
Page 3

16. Failure to meet any specified condition of this approval or maintain compliance with applicable local, state or federal ordinance, regulation or laws may result in the ordered suspension of construction authorizations until such time as such failure or noncompliance has been satisfactorily resolved.
17. Should any changes in site plan be contemplated, they shall be submitted to the Commission for review. Should any changes be considered as major or substantial changes, they shall be applied for under a special exception permit application to modify the approved site plan. Minor changes are considered by the Commission as those which do not change the substance, impact or general locations involved in the proposal and may be authorized by the Commission after appropriate review.
18. It is the responsibility of the owner/developer to notify the Planning and Zoning Department of any change in the status of ownership and/or contractor(s) and/or professional design or inspection consultant involved in the proposal. Additionally, it is the responsibility of the owner/developer to notify any new owner and/or contractor(s) and/or consultants of all construction requirements including all job meeting notes and inspection notes produced up to the date of any such change in project related personnel.
19. This permit and all conditions specified herein shall be binding in perpetuity upon the applicant and property owner and his (their) heirs, assigns and successors unless otherwise amended by a subsequent act of the Commission.
20. This permit and all conditions specified herein shall be binding in perpetuity upon this parcel and premises unless otherwise amended or invalidated under the terms of this approval or a subsequent act of the Commission.

Dated at Monroe, Connecticut, this 16<sup>th</sup> day of January, 2001.

TOWN PLANNING & ZONING COMMISSION

Witness:

  
Mary E. Mennilli

  
Daniel A. Tuba  
Clerk of Commission

REC'D. FOR RECORD *Oct 4 20 01*  
AT 1:28 P.M. ATTEST *Thomas A. Di Giovanni*  
MONROE TOWN CLERK



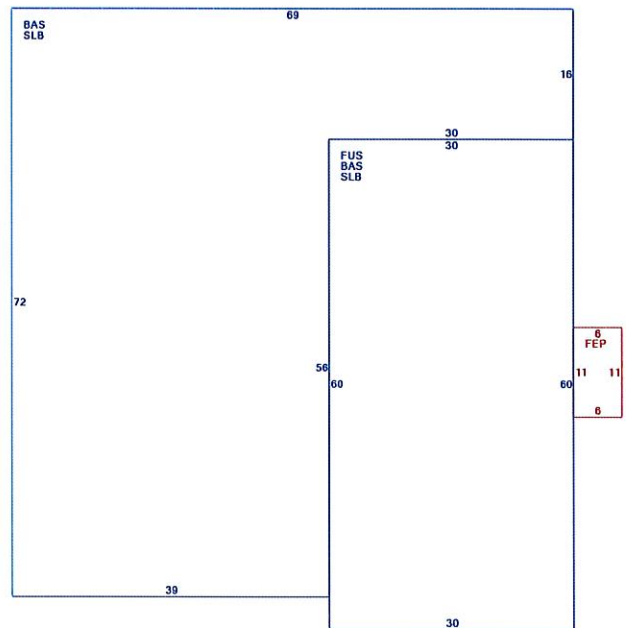
Field	Description
Style:	Fire/Police Station
Model	Commercial
Grade	B
Stories:	2
Occupancy	1.00
Exterior Wall 1	Clapboard
Exterior Wall 2	Brick/Masonry
Roof Structure	Gable/Hip
Roof Cover	Asphalt Shngl.
Interior Wall 1	Drywall
Interior Wall 2	Minim/Masonry
Interior Floor 1	Vinyl
Interior Floor 2	Concr-Finished
Heating Fuel	Electric
Heating Type	Hot Air
AC Type	Central
Struct Class	
Bldg Use	Municipal
Total Rooms	
Total Bedrms	
Total Baths	
Fireplace	
Xtra Fireplaces	
1st Floor Use:	903C
Heat/AC	Heat/AC Pkgs
Frame Type	Wood
Baths/Plumbing	Normal
Ceiling/Wall	Ceil and Wall
Rooms/Prtns	Average
Wall Height	10.00
% Comn Wall	

### Building Photo



(<https://images.vgsi.com/photos/MonroeCTPhotos/A00\01\35\59.jpg>)

### Building Layout



(ParcelSketch.ashx?pid=7922&bid=7922)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	5,088	5,088
FUS	Finished Upper Story	1,800	1,800
FEP	Finished Enclosed Porch	66	0
SLB	Slab	5,088	0
		12,042	6,888

### Extra Features

Extra Features						Legend
Code	Description	Size	Value	Bldg #	Comment	
COD1	OVHD WD/MTL	168.00 S.F.	\$1,200	1		

**Parcel Information**

Use Code 903C  
 Description Municipal  
 Deeded Acres 3.91

**Land**

**Land Use**

Use Code 903C  
 Description Municipal  
 Zone I1  
 Neighborhood  
 Alt Land Approved No  
 Category

**Land Line Valuation**

Size (Acres) 3.91  
 Appraised Value \$154,700

**Outbuildings**

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PA1	ASPHALT PARKING			2300.00 S.F.	\$2,300	1
RS1	Frame Utility Shed			168.00 S.F.	\$1,700	1
PA1	ASPHALT PARKING			13020.00 S.F.	\$13,000	1

**Valuation History**

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$928,400	\$154,700	\$1,083,100

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$649,800	\$108,300	\$758,100



# 88 Main St



Map data ©2024 Google 200 ft



## 88 Main St

Building



Directions



Save



Nearby



Send to phone



Share



88 Main St, Monroe, CT 06468

## Photos

**Barbadora, Jeff**

---

**From:** TrackingUpdates@fedex.com  
**Sent:** Monday, February 12, 2024 10:33 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 775132849204: Your package has been delivered

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Hi. Your package was  
delivered Mon, 02/12/2024 at  
10:26am.



Delivered to 7 FAN HILL RD, MONROE, CT 06468  
Received by M.MORLEY

[OBTAIN PROOF OF DELIVERY](#)

# How was your delivery ?



TRACKING NUMBER	<a href="#">775132849204</a>
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Town of Monroe Terry Rooney, First Selectman 7 Fan Hill Road MONROE, CT, US, 06468
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Fri 2/09/2024 06:17 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	MONROE, CT, US, 06468
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	SOS

**Barbadora, Jeff**

---

**From:** TrackingUpdates@fedex.com  
**Sent:** Monday, February 12, 2024 10:34 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 775132968029: Your package has been delivered

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Hi. Your package was  
delivered Mon, 02/12/2024 at  
10:26am.



Delivered to 7 FAN HILL RD, MONROE, CT 06468  
Received by K.KALAKAY

[OBTAIN PROOF OF DELIVERY](#)

# How was your delivery ?



TRACKING NUMBER [775132968029](#)

FROM Crown Castle  
1800 W. Park Drive  
WESTBOROUGH, MA, US, 01581

TO Town of Monroe  
K. Gallagher, Planning/Zoning Admin  
7 Fan Hill Road  
MONROE, CT, US, 06468

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Fri 2/09/2024 06:17 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN WESTBOROUGH, MA, US, 01581

DESTINATION MONROE, CT, US, 06468

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE SOS

**Barbadora, Jeff**

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**From:** TrackingUpdates@fedex.com  
**Sent:** Monday, February 12, 2024 12:29 PM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 775133076647: Your package has been delivered  
**Attachments:** DeliveryPicture.jpeg

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Hi. Your package was  
delivered Mon, 02/12/2024 at  
12:20pm.



Delivered to 88 MAIN ST, MONROE, CT 06468

[OBTAIN PROOF OF DELIVERY](#)



Delivery picture not showing? [View](#) in browser.

## How was your delivery ?



TRACKING NUMBER	<a href="#">775133076647</a>
FROM	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US, 01581
TO	Stepney Volunteer Fire CO Stepney Volunteer Fire CO 88 Main Street MONROE, CT, US, 06468
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Fri 2/09/2024 06:17 PM
DELIVERED TO	Residence
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	MONROE, CT, US, 06468

Date: **December 08, 2023**



Crown Castle  
2000 Corporate Drive  
Canonsburg, PA 15317  
(724) 416-2000

**Subject:** **Structural Analysis Report**

**Carrier Designation:** **DISH Network Co-Locate**  
**Site Number:** NJJER01091A  
**Site Name:** CT-CCI-T-826053

**Crown Castle Designation:** **BU Number:** 826053  
**Site Name:** Monroe-1/Rt 25  
**JDE Job Number:** 2105602  
**Work Order Number:** 2272904  
**Order Number:** 660834 Rev. 1

**Engineering Firm Designation:** **Crown Castle Project Number** 2272904

**Site Data:** **88 Main Street, Monroe, Fairfield County, CT**  
**Latitude: 41° 18' 6.06" Longitude: -73° 15' 2.92"**  
**195 ft - Monopole Tower**

Crown Castle is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration

**Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Kenneth Sukitch

Respectfully submitted by:

Haoxuan Lei  
Project Engineer



Digitally signed  
by Haoxuan Lei

Date:

2023.12.10

11:08:58 -06'00'



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**1) INTRODUCTION**

This tower is a 195 ft Monopole Tower designed by Summit.

**2) ANALYSIS CRITERIA**

**TIA-222 Revision:** TIA-222-H  
**Risk Category:** II  
**Wind Speed:** 117 mph  
**Exposure Category:** B  
**Topographic Factor:** 1  
**Ice Thickness:** 1.00 in  
**Wind Speed with Ice:** 50 mph  
**Service Wind Speed:** 60 mph

**Table 1 - Proposed Equipment Configuration**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
145	149	3	fujitsu	TA08025-B604	2 1	1/4 1-1/2
		3	fujitsu	TA08025-B605		
	147	1	ceragon	IP-50C		
		3	commscope	FFVV-65B-R2 w/ Mount Pipe		
		1	commscope	VHLP2-11W/A		
	145	1	tower mounts	Valmont SNP8HR-396		
	144	1	raycap	RDIDC-9181-PF-48		

**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
195	195	3	commscope	SDX1926Q-43	13	1-5/8
		3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe		
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	ericsson	KRY 112 144/1		
		3	ericsson	RADIO 4449 B12/B71		
		3	ericsson	RRUS 4415 B25_CCIV2		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
1	tower mounts	Platform Mount [LP 303-1_KCKR-HR-1]				
175	175	3	cci antennas	OPA-65R-LCUU-H6 w/ Mount Pipe	6 3 6	1-5/8 3/8 7/8
		3	ericsson	RRUS 32 B2		
		3	ericsson	RRUS 32 B30		
		3	ericsson	RRUS 4426 B66		
		3	ericsson	RRUS 4478 B5		
		3	ericsson	RRUS-11		
6	powerwave technologies	7020.00				

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		6	powerwave technologies	LGP21401		
		3	quintel technology	QS66512-2 w/ Mount Pipe		
		2	raycap	DC6-48-60-18-8C		
		1	raycap	DC6-48-60-18-8F		
		1	tower mounts	Platform Mount [LP 303-1_HR-1]		
165	165	6	antel	LPA-80080/6CF w/ Mount Pipe	7	1-5/8
		6	commscope	NHH-65B-R2B w/ Mount Pipe		
		1	raycap	RVZDC-6627-PF-48_CCIV2		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4440D-13A		
		1	tower mounts	Platform Mount [LP 404-1]		

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
4-GEOTECHNICAL REPORTS	3488965	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	3950063	CCISITES
4-TOWER MANUFACTURER DRAWINGS	3488966	CCISITES

#### 3.1) Analysis Method

tnxTower (version 8.2.2.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

#### 3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

#### 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass/Fail
L1	195 - 157.5	Pole	TP33.351x26x0.25	1	-16.861	1572.763	21.8	Pass
L2	157.5 - 116.75	Pole	TP40.839x32.018x0.313	2	-27.518	2406.411	42.9	Pass
L3	116.75 - 77	Pole	TP48.006x39.185x0.375	3	-38.389	3396.361	48.3	Pass
L4	77 - 38	Pole	TP54.901x46.08x0.375	4	-50.938	3886.134	58.7	Pass
L5	38 - 0	Pole	TP61.6x52.779x0.438	5	-69.716	5216.935	54.7	Pass
							Summary	
							Pole (L4)	58.7
							RATING =	58.7

**Table 5 - Tower Component Stresses vs. Capacity - LC7**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	52.3	Pass
1	Base Plate	0	45.4	Pass
1	Base Foundation (Structural)	0	49.5	Pass
1	Base Foundation (Soil)	0	34.2	Pass

<b>Structure Rating (max from all components) =</b>	<b>58.7%</b>
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed

#### 4.1) Recommendations

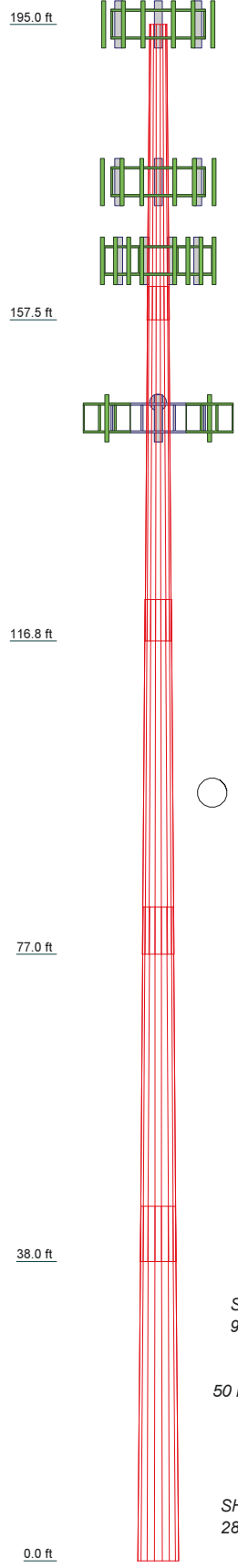
The tower and its foundation have sufficient capacity to carry the considered equipment configuration. No modifications are required at this time.

The results of the tilt and twist values for a 60 mph 3-second gust service wind speed per the TIA-222-H Standard are given below:

<b>Critical Deflections and Radius of Curvature - Service Wind</b>						
Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
147.000	VHLP2-11W/A	39	16.601	1.078	0.004	9720

**APPENDIX A**  
**TNXTOWER OUTPUT**

Section	1	2	3	4	5
Length (ft)	37.500	45.000	45.000	45.000	45.000
Number of Sides	18	18	18	18	18
Thickness (in)	0.250	0.312	0.375	0.375	0.438
Socket Length (ft)	4.250	5.250	6.000	7.000	7.000
Top Dia (in)	26.000	32.018	39.185	46.080	52.779
Bot Dia (in)	33.351	40.899	48.006	54.901	61.600
Grade			A607-65		
Weight (K)	3.0	5.5	7.9	9.1	12.1



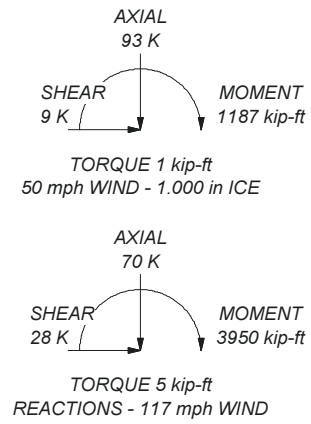
**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

**TOWER DESIGN NOTES**

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TOWER RATING: 58.7%

ALL REACTIONS  
ARE FACTORED



**Crown Castle**  
 2000 Corporate Drive  
 Canonsburg, PA 15317  
 The Pathway to Possible Phone: (724) 416-2000  
 FAX:

Job: <b>BU 826053</b>			
Project:			
Client: Crown Castle	Drawn by: KSukitch	App'd:	
Code: TIA-222-H	Date: 12/08/23	Scale: NTS	
Path: C:\SAPI Work Area\826053\WO 2272904 - SAIProd\826053.er			Dwg No. E-1

## Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

Tower base elevation above sea level: 324.000 ft.

Basic wind speed of 117 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 1.000 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .

Maximum demand-capacity ratio is: 1.05.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric Distribute Leg Loads As Uniform	Assume Legs Pinned ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension ✓ Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurtenances Alternative Appurt. EPA Calculation Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs Use ASCE 10 X-Brace Ly Rules	Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="background-color: #e0e0e0; text-align: center; padding: 2px;">Poles</div> ✓ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets ✓ Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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## Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	195.000-157.500	37.500	4.250	18	26.000	33.351	0.250	1.000	A607-65 (65 ksi)
L2	157.500-116.750	45.000	5.250	18	32.018	40.839	0.312	1.250	A607-65 (65 ksi)
L3	116.750-77.000	45.000	6.000	18	39.185	48.006	0.375	1.500	A607-65 (65 ksi)
L4	77.000-38.000	45.000	7.000	18	46.080	54.901	0.375	1.500	A607-65 (65 ksi)
L5	38.000-0.000	45.000		18	52.779	61.600	0.438	1.750	A607-65 (65 ksi)

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L1	26.363	20.433	1711.654	9.141	13.208	129.592	3425.561	10.218	4.136	16.544
	33.827	26.266	3635.865	11.751	16.942	214.603	7276.514	13.135	5.430	21.719
L2	33.310	31.448	3993.867	11.255	16.265	245.548	7992.989	15.727	5.085	16.272
	41.421	40.197	8340.876	14.387	20.746	402.043	16692.728	20.102	6.638	21.241
L3	40.777	46.193	8790.270	13.778	19.906	441.591	17592.106	23.101	6.237	16.631
	48.689	56.693	16249.677	16.909	24.387	666.324	32520.736	28.352	7.789	20.771
L4	47.927	54.400	14356.960	16.225	23.409	613.321	28732.810	27.205	7.450	19.867
	55.690	64.900	24377.354	19.357	27.890	874.063	48786.784	32.456	9.003	24.007
L5	54.919	72.682	25156.862	18.581	26.812	938.281	50346.826	36.348	8.519	19.472
	62.483	84.932	40140.069	21.713	31.293	1282.725	80332.956	42.474	10.072	23.021

Tower Elevation ft	Gusset Area (per face) ft <sup>2</sup>	Gusset Thickness in	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 195.000-157.500				1	1	1			
L2 157.500-116.750				1	1	1			
L3 116.750-77.000				1	1	1			
L4 77.000-38.000				1	1	1			
L5 38.000-0.000				1	1	1			

### Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
***											
**											



### Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement  ft	Total Number		C <sub>A</sub> A <sub>A</sub>  ft <sup>2</sup> /ft	Weight  klf
***									
Safety Line 3/8	B	No	No	CaAa (Out Of Face)	195.000 - 0.000	1	No Ice	0.037	0.000
							1/2" Ice	0.137	0.001
							1" Ice	0.238	0.001
5/8 rod/step	B	No	No	CaAa (Out Of Face)	195.000 - 0.000	1	No Ice	0.020	0.000
							1/2" Ice	0.120	0.001
							1" Ice	0.220	0.002
***									
** 195 **									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	195.000 - 0.000	10	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
HCS 6X12 4AWG(1- 5/8)	B	No	No	Inside Pole	195.000 - 0.000	2	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	B	No	No	Inside Pole	195.000 - 0.000	1	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
** 175 **									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	175.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
FB-L98B-034- XXX(3/8)	C	No	No	Inside Pole	175.000 - 0.000	3	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
WR-VG66ST- BRD(7/8)	C	No	No	Inside Pole	175.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
** 165 **									
HB158-U12S24-XXX- L(1-5/8)	A	No	No	Inside Pole	165.000 - 0.000	1	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
LDF7-50A(1-5/8)	A	No	No	Inside Pole	165.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
** 145 **									
RJF SFTP 5E XXXX(1/4)	C	No	No	Inside Pole	145.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
CKLCULCU363U8495 CBCXXXXM(1/4)	C	No	No	Inside Pole	145.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
CU12PSM9P6XXX(1- 1/2)	C	No	No	Inside Pole	145.000 - 0.000	1	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
**									

### Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A <sub>R</sub>  ft <sup>2</sup>	A <sub>F</sub>  ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight  K
L1	195.000-157.500	A	0.000	0.000	0.000	0.000	0.061

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L2	157.500-116.750	B	0.000	0.000	0.000	2.156	0.546
		C	0.000	0.000	0.000	0.000	0.185
		A	0.000	0.000	0.000	0.000	0.331
L3	116.750-77.000	B	0.000	0.000	0.000	2.343	0.593
		C	0.000	0.000	0.000	0.000	0.499
		A	0.000	0.000	0.000	0.000	0.323
L4	77.000-38.000	B	0.000	0.000	0.000	2.286	0.579
		C	0.000	0.000	0.000	0.000	0.517
		A	0.000	0.000	0.000	0.000	0.317
L5	38.000-0.000	B	0.000	0.000	0.000	2.243	0.568
		C	0.000	0.000	0.000	0.000	0.507
		A	0.000	0.000	0.000	0.000	0.309
		B	0.000	0.000	0.000	2.185	0.553
		C	0.000	0.000	0.000	0.000	0.494

### Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	195.000-157.500	A	1.005	0.000	0.000	0.000	0.000	0.061
		B		0.000	0.000	0.000	17.226	0.642
		C		0.000	0.000	0.000	0.000	0.185
L2	157.500-116.750	A	0.980	0.000	0.000	0.000	0.000	0.331
		B		0.000	0.000	0.000	18.719	0.697
		C		0.000	0.000	0.000	0.000	0.499
L3	116.750-77.000	A	0.946	0.000	0.000	0.000	0.000	0.323
		B		0.000	0.000	0.000	17.863	0.677
		C		0.000	0.000	0.000	0.000	0.517
L4	77.000-38.000	A	0.899	0.000	0.000	0.000	0.000	0.317
		B		0.000	0.000	0.000	17.006	0.660
		C		0.000	0.000	0.000	0.000	0.507
L5	38.000-0.000	A	0.803	0.000	0.000	0.000	0.000	0.309
		B		0.000	0.000	0.000	15.842	0.637
		C		0.000	0.000	0.000	0.000	0.494

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>x</sub> in	CP <sub>z</sub> in	CP <sub>x</sub> Ice in	CP <sub>z</sub> Ice in
L1	195.000-157.500	0.451	0.261	1.735	1.002
L2	157.500-116.750	0.454	0.262	1.803	1.041
L3	116.750-77.000	0.456	0.264	1.817	1.049
L4	77.000-38.000	0.458	0.264	1.803	1.041
L5	38.000-0.000	0.459	0.265	1.757	1.015

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment  °	Placement  ft
Top Hat ** 195 **	C	None		0.000	196.000
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	195.000
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	195.000
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	195.000
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	195.000
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	195.000
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	195.000
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	195.000
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	195.000
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	195.000
KRY 112 144/1	A	From Leg	4.000 0.000 0.000	0.000	195.000
KRY 112 144/1	B	From Leg	4.000 0.000 0.000	0.000	195.000
KRY 112 144/1	C	From Leg	4.000 0.000 0.000	0.000	195.000
SDX1926Q-43	A	From Leg	4.000 0.000 0.000	0.000	195.000
SDX1926Q-43	B	From Leg	4.000 0.000 0.000	0.000	195.000
SDX1926Q-43	C	From Leg	4.000 0.000 0.000	0.000	195.000
RRUS 4415 B25_CCIV2	A	From Leg	4.000 0.000 0.000	0.000	195.000
RRUS 4415 B25_CCIV2	B	From Leg	4.000 0.000 0.000	0.000	195.000
RRUS 4415 B25_CCIV2	C	From Leg	4.000 0.000 0.000	0.000	195.000

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement
			Horz Lateral	Vert		
			ft	ft	°	ft
RADIO 4449 B12/B71	A	From Leg	4.000	0.000	0.000	195.000
			0.000	0.000		
RADIO 4449 B12/B71	B	From Leg	4.000	0.000	0.000	195.000
			0.000	0.000		
RADIO 4449 B12/B71	C	From Leg	4.000	0.000	0.000	195.000
			0.000	0.000		
Platform Mount [LP 303- 1_KCKR-HR-1]	C	None			0.000	195.000
8' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	195.000
			0.000	0.000		
8' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	195.000
			0.000	0.000		
8' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	195.000
			0.000	0.000		
** 175 **						
OPA-65R-LCUU-H6 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
OPA-65R-LCUU-H6 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
OPA-65R-LCUU-H6 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
QS66512-2 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
QS66512-2 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
QS66512-2 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
7770.00 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
7770.00 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
7770.00 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
DC6-48-60-18-8C	A	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
DC6-48-60-18-8C	C	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
RRUS 4478 B5	A	From Leg	4.000	0.000	0.000	175.000
			0.000	0.000		
RRUS 4478 B5	B	From Leg	4.000	0.000	0.000	175.000

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement
			Horz Lateral ft	Vert ft	ft		
			0.000				
RRUS 4478 B5	C	From Leg	0.000			0.000	175.000
(2) LGP21401	A	From Leg	4.000			0.000	175.000
(2) LGP21401	B	From Leg	0.000			0.000	175.000
(2) LGP21401	C	From Leg	4.000			0.000	175.000
(2) 7020.00	A	From Leg	0.000			0.000	175.000
(2) 7020.00	B	From Leg	4.000			0.000	175.000
(2) 7020.00	C	From Leg	0.000			0.000	175.000
RRUS 4426 B66	A	From Leg	4.000			0.000	175.000
RRUS 4426 B66	B	From Leg	0.000			0.000	175.000
RRUS 4426 B66	C	From Leg	4.000			0.000	175.000
DC6-48-60-18-8F	A	From Leg	0.000			0.000	175.000
RRUS-11	A	From Leg	4.000			0.000	175.000
RRUS-11	B	From Leg	0.000			0.000	175.000
RRUS-11	C	From Leg	4.000			0.000	175.000
RRUS 32 B2	A	From Leg	0.000			0.000	175.000
RRUS 32 B2	B	From Leg	4.000			0.000	175.000
RRUS 32 B2	C	From Leg	0.000			0.000	175.000
RRUS 32 B30	A	From Leg	4.000			0.000	175.000
RRUS 32 B30	B	From Leg	0.000			0.000	175.000

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement
			Horz Lateral	Vert			
			ft	ft	°	ft	
RRUS 32 B30	C	From Leg	0.000	4.000	0.000	175.000	
			0.000	0.000			
Platform Mount [LP 303-1_HR-1]	C	None	0.000		0.000	175.000	
6' x 2" Mount Pipe	A	From Leg	0.000	4.000	0.000	175.000	
			0.000	0.000			
6' x 2" Mount Pipe	B	From Leg	0.000	4.000	0.000	175.000	
			0.000	0.000			
6' x 2" Mount Pipe	C	From Leg	0.000	4.000	0.000	175.000	
			0.000	0.000			
** 165 **			0.000				
(2) LPA-80080/6CF w/ Mount Pipe	A	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
(2) LPA-80080/6CF w/ Mount Pipe	B	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
(2) LPA-80080/6CF w/ Mount Pipe	C	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
MT6407-77A w/ Mount Pipe	A	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
MT6407-77A w/ Mount Pipe	B	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
MT6407-77A w/ Mount Pipe	C	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
(2) NHH-65B-R2B w/ Mount Pipe	A	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
(2) NHH-65B-R2B w/ Mount Pipe	B	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
(2) NHH-65B-R2B w/ Mount Pipe	C	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
RVZDC-6627-PF-48_CCIV2	A	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
RF4440D-13A	A	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
RF4440D-13A	B	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
RF4440D-13A	C	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			
RF4439D-25A	A	From Leg	0.000	4.000	0.000	165.000	
			0.000	0.000			

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement
			Horz Lateral	Vert ft	ft		
RF4439D-25A	B	From Leg	4.000	0.000	0.000	165.000	
			0.000				
			0.000				
RF4439D-25A	C	From Leg	4.000	0.000	0.000	165.000	
			0.000				
			0.000				
Platform Mount [LP 404-1]	C	None			0.000	165.000	
(2) L 2.5x2.5x3/16x4.375'	A	From Leg	2.000	0.000	0.000	165.000	
			0.000				
			2.000				
(2) L 2.5x2.5x3/16x4.375'	B	From Leg	2.000	0.000	0.000	165.000	
			0.000				
			2.000				
(2) L 2.5x2.5x3/16x4.375'	C	From Leg	2.000	0.000	0.000	165.000	
			0.000				
			2.000				
** 145 **							
FFVV-65B-R2 w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			2.000				
FFVV-65B-R2 w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			2.000				
FFVV-65B-R2 w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			2.000				
TA08025-B604	A	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			4.000				
TA08025-B604	B	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			4.000				
TA08025-B604	C	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			4.000				
TA08025-B605	A	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			4.000				
TA08025-B605	B	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			4.000				
TA08025-B605	C	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			4.000				
RDIDC-9181-PF-48	A	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			-1.000				
IP-50C	A	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			2.000				
Valmont SNP8HR-396	C	None			0.000	145.000	
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			0.000				
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	145.000	
			0.000				
			0.000				
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	145.000	

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement
			Horz	Lateral	Vert		
			ft	ft	ft	°	ft
			0.000	0.000			
***							
***							

### Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:			Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz	Lateral	Vert							
				ft	ft	ft	°	°	ft	ft	ft <sup>2</sup>	K	
VHLP2-11W/A	A	Paraboloid w/Shroud (HP)	From Leg	4.000	0.000	2.000	0.000		145.000	2.167	No Ice 1/2" Ice 1" Ice	3.690 3.980 4.270	0.020 0.040 0.060
**													

### Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp



Comb. No.	Description
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

### Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	195 - 157.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-29.382	0.232	1.122
			Max. Mx	20	-16.868	249.259	0.570
			Max. My	2	-16.859	0.115	249.765
			Max. Vy	20	-14.501	249.259	0.570
			Max. Vx	14	14.538	0.115	-248.967
			Max. Torque	5			3.371
L2	157.5 - 116.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-43.870	0.069	1.938
			Max. Mx	20	-27.534	947.192	1.295
			Max. My	2	-27.518	0.091	952.115
			Max. Vy	20	-20.072	947.192	1.295
			Max. Vx	14	20.250	0.091	-951.512
			Max. Torque	17			-4.330
L3	116.75 - 77	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.857	-0.117	1.830
			Max. Mx	20	-38.403	1790.026	1.906
			Max. My	14	-38.389	0.058	-1801.367
			Max. Vy	20	-23.071	1790.026	1.906
			Max. Vx	14	23.249	0.058	-1801.367
			Max. Torque	13			4.366
L4	77 - 38	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.582	-0.321	1.713
			Max. Mx	20	-50.945	2717.176	2.503
			Max. My	14	-50.938	0.019	-2735.304
			Max. Vy	8	25.576	-2717.139	2.503
			Max. Vx	14	25.751	0.019	-2735.304
			Max. Torque	13			4.427
L5	38 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-92.941	-0.581	1.562
			Max. Mx	8	-69.716	-3923.837	3.190
			Max. My	14	-69.716	-0.034	-3949.703
			Max. Vy	8	27.926	-3923.837	3.190
			Max. Vx	14	28.094	-0.034	-3949.703

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	13			4.500

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	92.941	-0.000	8.546
	Max. H <sub>x</sub>	20	69.730	27.892	0.015
	Max. H <sub>z</sub>	3	52.298	-0.000	28.025
	Max. M <sub>x</sub>	2	3945.832	-0.000	28.025
	Max. M <sub>z</sub>	8	3923.837	-27.892	0.015
	Max. Torsion	13	4.500	-13.964	-24.300
	Min. Vert	23	52.298	24.158	14.012
	Min. H <sub>x</sub>	8	69.730	-27.892	0.015
	Min. H <sub>z</sub>	15	52.298	-0.000	-28.060
	Min. M <sub>x</sub>	14	-3949.703	-0.000	-28.059
	Min. M <sub>z</sub>	20	-3923.765	27.892	0.015
	Min. Torsion	25	-4.489	13.956	24.264

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	58.108	0.000	0.000	-0.556	-0.034	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	69.730	0.000	-28.025	-3945.832	-0.033	0.397
0.9 Dead+1.0 Wind 0 deg - No Ice	52.298	0.000	-28.025	-3878.084	-0.026	0.396
1.2 Dead+1.0 Wind 30 deg - No Ice	69.730	13.956	-24.264	-3416.215	-1963.767	-3.799
0.9 Dead+1.0 Wind 30 deg - No Ice	52.298	13.956	-24.264	-3357.569	-1930.135	-3.803
1.2 Dead+1.0 Wind 60 deg - No Ice	69.730	24.158	-14.012	-1972.970	-3398.642	-0.832
0.9 Dead+1.0 Wind 60 deg - No Ice	52.298	24.158	-14.012	-1939.016	-3340.464	-0.836
1.2 Dead+1.0 Wind 90 deg - No Ice	69.730	27.892	-0.015	-3.190	-3923.837	2.331
0.9 Dead+1.0 Wind 90 deg - No Ice	52.298	27.892	-0.015	-2.932	-3856.680	2.329
1.2 Dead+1.0 Wind 120 deg - No Ice	69.730	24.148	14.044	1976.615	-3397.087	-1.144
0.9 Dead+1.0 Wind 120 deg - No Ice	52.298	24.148	14.044	1942.986	-3338.937	-1.146
1.2 Dead+1.0 Wind 150 deg - No Ice	69.730	13.964	24.300	3420.320	-1964.938	-4.498
0.9 Dead+1.0 Wind 150 deg - No Ice	52.298	13.964	24.300	3361.980	-1931.316	-4.500
1.2 Dead+1.0 Wind 180 deg - No Ice	69.730	0.000	28.059	3949.703	-0.033	-0.397
0.9 Dead+1.0 Wind 180 deg - No Ice	52.298	0.000	28.060	3882.282	-0.026	-0.396
1.2 Dead+1.0 Wind 210 deg -	69.730	-13.964	24.300	3420.318	1964.870	3.810

Load Combination	Vertical	Shear <sub>x</sub>	Shear <sub>z</sub>	Overturning Moment, M <sub>x</sub>	Overturning Moment, M <sub>z</sub>	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
No Ice						
0.9 Dead+1.0 Wind 210 deg - No Ice	52.298	-13.964	24.300	3361.978	1931.262	3.815
1.2 Dead+1.0 Wind 240 deg - No Ice	69.730	-24.148	14.044	1976.613	3397.016	0.746
0.9 Dead+1.0 Wind 240 deg - No Ice	52.298	-24.148	14.044	1942.985	3338.882	0.750
1.2 Dead+1.0 Wind 270 deg - No Ice	69.730	-27.892	-0.015	-3.190	3923.765	-2.331
0.9 Dead+1.0 Wind 270 deg - No Ice	52.298	-27.892	-0.015	-2.932	3856.624	-2.328
1.2 Dead+1.0 Wind 300 deg - No Ice	69.730	-24.158	-14.012	-1972.967	3398.571	1.230
0.9 Dead+1.0 Wind 300 deg - No Ice	52.298	-24.158	-14.012	-1939.015	3340.408	1.232
1.2 Dead+1.0 Wind 330 deg - No Ice	69.730	-13.956	-24.264	-3416.213	1963.699	4.487
0.9 Dead+1.0 Wind 330 deg - No Ice	52.298	-13.956	-24.264	-3357.567	1930.081	4.489
1.2 Dead+1.0 Ice+1.0 Temp	92.941	0.000	-0.000	-1.562	-0.581	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	92.941	0.000	-8.546	-1186.807	-0.613	0.739
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	92.941	4.261	-7.400	-1027.881	-591.206	-0.018
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	92.941	7.378	-4.273	-594.331	-1023.055	0.461
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	92.941	8.519	-0.003	-2.358	-1181.124	0.811
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	92.941	7.376	4.280	591.793	-1022.719	-0.259
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	92.941	4.263	7.408	1025.442	-591.478	-1.299
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	92.941	0.000	8.554	1184.326	-0.613	-0.739
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	92.941	-4.263	7.408	1025.440	590.251	0.020
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	92.941	-7.376	4.280	591.791	1021.490	-0.480
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	92.941	-8.519	-0.003	-2.358	1179.894	-0.811
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	92.941	-7.378	-4.273	-594.329	1021.826	0.277
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	92.941	-4.261	-7.400	-1027.878	589.980	1.297
Dead+Wind 0 deg - Service	58.108	0.000	-6.946	-968.401	-0.030	0.091
Dead+Wind 30 deg - Service	58.108	3.459	-6.014	-838.480	-481.748	-0.962
Dead+Wind 60 deg - Service	58.108	5.987	-3.473	-484.436	-833.760	-0.221
Dead+Wind 90 deg - Service	58.108	6.913	-0.004	-1.210	-962.583	0.572
Dead+Wind 120 deg - Service	58.108	5.985	3.481	484.447	-833.367	-0.290
Dead+Wind 150 deg - Service	58.108	3.461	6.022	838.621	-482.066	-1.122
Dead+Wind 180 deg - Service	58.108	0.000	6.954	968.482	-0.030	-0.091
Dead+Wind 210 deg - Service	58.108	-3.461	6.022	838.621	482.006	0.965
Dead+Wind 240 deg - Service	58.108	-5.985	3.481	484.447	833.307	0.199
Dead+Wind 270 deg - Service	58.108	-6.913	-0.004	-1.210	962.523	-0.572
Dead+Wind 300 deg - Service	58.108	-5.987	-3.473	-484.436	833.700	0.312
Dead+Wind 330 deg - Service	58.108	-3.459	-6.014	-838.480	481.688	1.120

**Solution Summary**

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-58.108	0.000	0.000	58.108	0.000	0.000%
2	0.000	-69.730	-28.025	-0.000	69.730	28.025	0.000%
3	0.000	-52.298	-28.025	-0.000	52.298	28.025	0.000%
4	13.956	-69.730	-24.264	-13.956	69.730	24.264	0.000%
5	13.956	-52.298	-24.264	-13.956	52.298	24.264	0.000%
6	24.158	-69.730	-14.012	-24.158	69.730	14.012	0.000%
7	24.158	-52.298	-14.012	-24.158	52.298	14.012	0.000%
8	27.892	-69.730	-0.015	-27.892	69.730	0.015	0.000%
9	27.892	-52.298	-0.015	-27.892	52.298	0.015	0.000%
10	24.148	-69.730	14.044	-24.148	69.730	-14.044	0.000%
11	24.148	-52.298	14.044	-24.148	52.298	-14.044	0.000%
12	13.964	-69.730	24.300	-13.964	69.730	-24.300	0.000%
13	13.964	-52.298	24.300	-13.964	52.298	-24.300	0.000%
14	0.000	-69.730	28.059	-0.000	69.730	-28.059	0.000%
15	0.000	-52.298	28.059	-0.000	52.298	-28.060	0.000%
16	-13.964	-69.730	24.300	13.964	69.730	-24.300	0.000%
17	-13.964	-52.298	24.300	13.964	52.298	-24.300	0.000%
18	-24.148	-69.730	14.044	24.148	69.730	-14.044	0.000%
19	-24.148	-52.298	14.044	24.148	52.298	-14.044	0.000%
20	-27.892	-69.730	-0.015	27.892	69.730	0.015	0.000%
21	-27.892	-52.298	-0.015	27.892	52.298	0.015	0.000%
22	-24.158	-69.730	-14.012	24.158	69.730	14.012	0.000%
23	-24.158	-52.298	-14.012	24.158	52.298	14.012	0.000%
24	-13.956	-69.730	-24.264	13.956	69.730	24.264	0.000%
25	-13.956	-52.298	-24.264	13.956	52.298	24.264	0.000%
26	0.000	-92.941	0.000	-0.000	92.941	0.000	0.000%
27	0.000	-92.941	-8.546	-0.000	92.941	8.546	0.000%
28	4.261	-92.941	-7.400	-4.261	92.941	7.400	0.000%
29	7.378	-92.941	-4.273	-7.378	92.941	4.273	0.000%
30	8.519	-92.941	-0.003	-8.519	92.941	0.003	0.000%
31	7.376	-92.941	4.280	-7.376	92.941	-4.280	0.000%
32	4.263	-92.941	7.408	-4.263	92.941	-7.408	0.000%
33	0.000	-92.941	8.553	-0.000	92.941	-8.554	0.000%
34	-4.263	-92.941	7.408	4.263	92.941	-7.408	0.000%
35	-7.376	-92.941	4.280	7.376	92.941	-4.280	0.000%
36	-8.519	-92.941	-0.003	8.519	92.941	0.003	0.000%
37	-7.378	-92.941	-4.273	7.378	92.941	4.273	0.000%
38	-4.261	-92.941	-7.400	4.261	92.941	7.400	0.000%
39	0.000	-58.108	-6.946	0.000	58.108	6.946	0.000%
40	3.459	-58.108	-6.014	-3.459	58.108	6.014	0.000%
41	5.987	-58.108	-3.473	-5.987	58.108	3.473	0.000%
42	6.913	-58.108	-0.004	-6.913	58.108	0.004	0.000%
43	5.985	-58.108	3.481	-5.985	58.108	-3.481	0.000%
44	3.461	-58.108	6.022	-3.461	58.108	-6.022	0.000%
45	0.000	-58.108	6.954	0.000	58.108	-6.954	0.000%
46	-3.461	-58.108	6.022	3.461	58.108	-6.022	0.000%
47	-5.985	-58.108	3.481	5.985	58.108	-3.481	0.000%
48	-6.913	-58.108	-0.004	6.913	58.108	0.004	0.000%
49	-5.987	-58.108	-3.473	5.987	58.108	3.473	0.000%
50	-3.459	-58.108	-6.014	3.459	58.108	6.014	0.000%

### Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00006539
3	Yes	4	0.00000001	0.00080068

4	Yes	6	0.00000001	0.00036010
5	Yes	6	0.00000001	0.00012868
6	Yes	6	0.00000001	0.00038650
7	Yes	6	0.00000001	0.00013913
8	Yes	5	0.00000001	0.00031435
9	Yes	5	0.00000001	0.00016288
10	Yes	6	0.00000001	0.00037500
11	Yes	6	0.00000001	0.00013462
12	Yes	6	0.00000001	0.00040921
13	Yes	6	0.00000001	0.00014807
14	Yes	5	0.00000001	0.00006540
15	Yes	4	0.00000001	0.00080124
16	Yes	6	0.00000001	0.00040787
17	Yes	6	0.00000001	0.00014754
18	Yes	6	0.00000001	0.00037568
19	Yes	6	0.00000001	0.00013487
20	Yes	5	0.00000001	0.00031435
21	Yes	5	0.00000001	0.00016288
22	Yes	6	0.00000001	0.00038725
23	Yes	6	0.00000001	0.00013942
24	Yes	6	0.00000001	0.00035923
25	Yes	6	0.00000001	0.00012834
26	Yes	4	0.00000001	0.00009222
27	Yes	5	0.00000001	0.00093288
28	Yes	6	0.00000001	0.00015791
29	Yes	6	0.00000001	0.00015837
30	Yes	5	0.00000001	0.00092789
31	Yes	6	0.00000001	0.00015690
32	Yes	6	0.00000001	0.00016068
33	Yes	5	0.00000001	0.00092694
34	Yes	6	0.00000001	0.00015874
35	Yes	6	0.00000001	0.00015755
36	Yes	5	0.00000001	0.00092748
37	Yes	6	0.00000001	0.00015906
38	Yes	6	0.00000001	0.00015713
39	Yes	4	0.00000001	0.00017685
40	Yes	4	0.00000001	0.00086322
41	Yes	5	0.00000001	0.00007229
42	Yes	4	0.00000001	0.00028636
43	Yes	4	0.00000001	0.00091565
44	Yes	5	0.00000001	0.00008661
45	Yes	4	0.00000001	0.00017652
46	Yes	5	0.00000001	0.00008594
47	Yes	4	0.00000001	0.00091909
48	Yes	4	0.00000001	0.00028643
49	Yes	5	0.00000001	0.00007264
50	Yes	4	0.00000001	0.00086316

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	195 - 157.5	28.516	39	1.241	0.008
L2	161.75 - 116.75	20.070	39	1.159	0.005
L3	122 - 77	11.364	39	0.897	0.003
L4	83 - 38	5.160	39	0.601	0.001
L5	45 - 0	1.490	39	0.300	0.001

### Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
147.000	VHLP2-11W/A	39	16.601	1.078	0.004	9720

### Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	195 - 157.5	116.434	14	5.069	0.031
L2	161.75 - 116.75	81.966	14	4.734	0.020
L3	122 - 77	46.420	14	3.666	0.010
L4	83 - 38	21.073	14	2.457	0.005
L5	45 - 0	6.082	14	1.227	0.002

### Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
196.000	Top Hat	14	116.434	5.069	0.031	20040
195.000	APXVAARR24_43-U-NA20 w/ Mount Pipe	14	116.434	5.069	0.031	20040
175.000	OPA-65R-LCUU-H6 w/ Mount Pipe	14	95.417	4.917	0.024	5008
165.000	(2) LPA-80080/6CF w/ Mount Pipe	14	85.211	4.788	0.021	3338
147.000	VHLP2-11W/A	14	67.806	4.404	0.016	2405
145.000	FFVV-65B-R2 w/ Mount Pipe	14	65.966	4.351	0.015	2341

### Compression Checks

### Pole Design Data

Section No.	Elevation	Size	L	$L_u$	$Kl/r$	A	$P_u$	$\phi P_n$	Ratio
	ft		ft	ft		$in^2$	K	K	$\frac{P_u}{\phi P_n}$
L1	195 - 157.5 (1)	TP33.351x26x0.25	37.500	0.000	0.0	25.605	-16.861	1497.870	0.011
L2	157.5 - 116.75 (2)	TP40.839x32.018x0.313	45.000	0.000	0.0	39.176	-27.518	2291.820	0.012
L3	116.75 - 77 (3)	TP48.006x39.185x0.375	45.000	0.000	0.0	55.293	-38.389	3234.630	0.012
L4	77 - 38 (4)	TP54.901x46.08x0.375	45.000	0.000	0.0	63.266	-50.938	3701.080	0.014
L5	38 - 0 (5)	TP61.6x52.779x0.438	45.000	0.000	0.0	84.932	-69.716	4968.510	0.014

### Pole Bending Design Data

Section No.	Elevation ft	Size	$M_{ux}$	$\phi M_{nx}$	Ratio	$M_{uy}$	$\phi M_{ny}$	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{nx}}$			$\frac{M_{uy}}{\phi M_{ny}}$
L1	195 - 157.5 (1)	TP33.351x26x0.25	249.720	1154.717	0.216	0.000	1154.717	0.000
L2	157.5 - 116.75 (2)	TP40.839x32.018x0.313	952.117	2178.158	0.437	0.000	2178.158	0.000
L3	116.75 - 77 (3)	TP48.006x39.185x0.375	1801.367	3639.867	0.495	0.000	3639.867	0.000
L4	77 - 38 (4)	TP54.901x46.08x0.375	2735.300	4539.817	0.603	0.000	4539.817	0.000
L5	38 - 0 (5)	TP61.6x52.779x0.438	3949.700	7050.741	0.560	0.000	7050.741	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual	$\phi V_n$	Ratio	Actual	$\phi T_n$	Ratio
			$V_u$ K	K	$\frac{V_u}{\phi V_n}$	$T_u$ kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	195 - 157.5 (1)	TP33.351x26x0.25	14.531	449.360	0.032	3.226	1269.825	0.003
L2	157.5 - 116.75 (2)	TP40.839x32.018x0.313	20.215	687.547	0.029	0.032	2378.208	0.000
L3	116.75 - 77 (3)	TP48.006x39.185x0.375	23.249	970.390	0.024	0.150	3947.817	0.000
L4	77 - 38 (4)	TP54.901x46.08x0.375	25.751	1110.320	0.023	0.266	5168.500	0.000
L5	38 - 0 (5)	TP61.6x52.779x0.438	28.094	1490.550	0.019	0.397	7983.850	0.000

### Pole Interaction Design Data

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$\frac{P_u}{\phi P_n}$	$\frac{M_{ux}}{\phi M_{nx}}$	$\frac{M_{uy}}{\phi M_{ny}}$	$\frac{V_u}{\phi V_n}$	$\frac{T_u}{\phi T_n}$			
L1	195 - 157.5 (1)	0.011	0.216	0.000	0.032	0.003	0.229	1.050	
L2	157.5 - 116.75 (2)	0.012	0.437	0.000	0.029	0.000	0.450	1.050	
L3	116.75 - 77 (3)	0.012	0.495	0.000	0.024	0.000	0.507	1.050	
L4	77 - 38 (4)	0.014	0.603	0.000	0.023	0.000	0.617	1.050	
L5	38 - 0 (5)	0.014	0.560	0.000	0.019	0.000	0.575	1.050	

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail	
L1	195 - 157.5	Pole	TP33.351x26x0.25	1	-16.861	1572.763	21.8	Pass	
L2	157.5 - 116.75	Pole	TP40.839x32.018x0.313	2	-27.518	2406.411	42.9	Pass	
L3	116.75 - 77	Pole	TP48.006x39.185x0.375	3	-38.389	3396.361	48.3	Pass	
L4	77 - 38	Pole	TP54.901x46.08x0.375	4	-50.938	3886.134	58.7	Pass	
L5	38 - 0	Pole	TP61.6x52.779x0.438	5	-69.716	5216.935	54.7	Pass	
							Summary		
							Pole (L4)	58.7	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
<b>RATING =</b>							<b>58.7</b>	<b>Pass</b>



**APPENDIX B**  
**BASE LEVEL DRAWING**



(OTHER CONSIDERED EQUIPMENT)  
(7) 1-5/8" TO 165 FT LEVEL

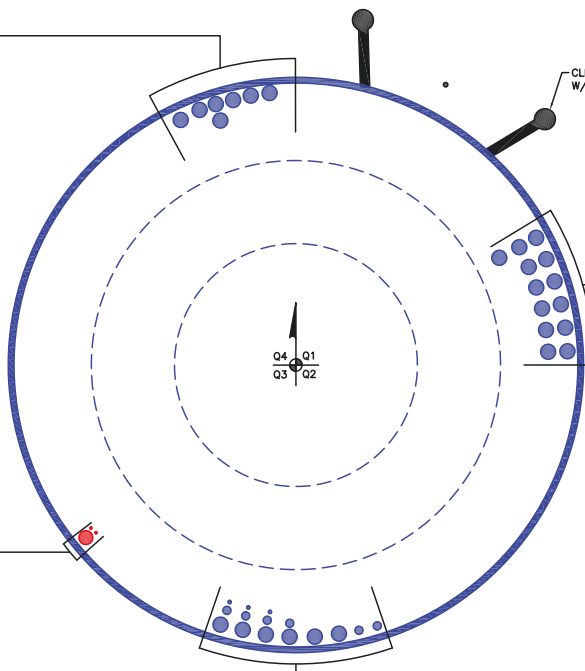
CLIMBING PEGS  
W/ SAFETY CLIMB

(OTHER CONSIDERED EQUIPMENT)  
(13) 1-5/8" TO 195 FT LEVEL

Q4 Q1  
Q3 Q2

(PROPOSED EQUIPMENT CONFIGURATION)  
(2) 1/4" TO 145 FT LEVEL  
(1) 1-1/2" TO 145 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
(3) 3/8" TO 175 FT LEVEL  
(8) 7/8" TO 175 FT LEVEL  
(6) 1-5/8" TO 175 FT LEVEL



**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

# Monopole Base Plate Connection

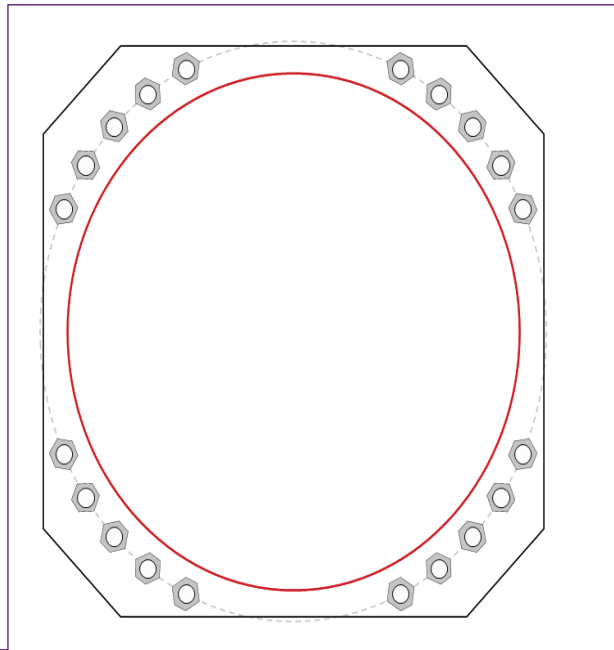


Site Info	
BU #	826053
Site Name	Monroe-1/Rt 25
Order #	660834 REV. 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
$l_{ar}$ (in)	2.75

Applied Loads	
Moment (kip-ft)	3949.70
Axial Force (kips)	69.72
Shear Force (kips)	28.09

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data
(20) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 69" BC Anchor Spacing: 6 in
Base Plate Data
68" W x 3" Plate (A572-55; $F_y=55$ ksi, $F_u=70$ ksi); Clip: 10.5 in
Stiffener Data
N/A
Pole Data
61.6" x 0.4375" 18-sided pole (A607-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary		(units of kips, kip-in)
$P_u_t = 133.84$	$\phi P_n_t = 243.75$	<b>Stress Rating</b>
$V_u = 1.4$	$\phi V_n = 149.1$	<b>52.3%</b>
$M_u = 2.51$	$\phi M_n = 128.14$	<b>Pass</b>
Base Plate Summary		
Max Stress (ksi):	23.59	(Flexural)
Allowable Stress (ksi):	49.5	
Stress Rating:	<b>45.4%</b>	<b>Pass</b>

### Drilled Pier Foundation

BU # :	826053
Site Name:	Monroe-1/Rt 25
Order Number:	660834 REV. 1
TIA-222 Revision:	H
Tower Type:	Monopole



Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	3949.7	
Axial Force (kips)	69.73	
Shear Force (kips)	28.06	

Material Properties		Rebar Z, Fy Override (ksi)
Concrete Strength, fc:	4.5	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data	
Depth	37 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
<i>From 0.5' above grade to 37' below grade</i>	
Pier Diameter	8 ft
Rebar Quantity	28
Rebar Size	11
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	18 in

Rebar & Pier Options  
Embedded Pole Inputs  
Belled Pier Inputs

Analysis Results			
<b>Soil Lateral Check</b>			
	Compression	Uplift	
D <sub>50</sub> (ft from TOC)	14.85	-	
Soil Safety Factor	3.71	-	
Max Moment (kip-ft)	4349.53	-	
Rating*	34.2%	-	
<b>Soil Vertical Check</b>			
	Compression	Uplift	
Skin Friction (kips)	678.58	-	
End Bearing (kips)	1130.97	-	
Weight of Concrete (kips)	211.27	-	
Total Capacity (kips)	1809.56	-	
Axial (kips)	281.00	-	
Rating*	14.8%	-	
<b>Reinforced Concrete Flexure</b>			
	Compression	Uplift	
Critical Depth (ft from TOC)	14.89	-	
Critical Moment (kip-ft)	4349.52	-	
Critical Moment Capacity	8367.00	-	
Rating*	49.5%	-	
<b>Reinforced Concrete Shear</b>			
	Compression	Uplift	
Critical Depth (ft from TOC)	28.29	-	
Critical Shear (kip)	397.05	-	
Critical Shear Capacity	810.78	-	
Rating*	46.6%	-	

Structural Foundation Rating*	49.5%
Soil Interaction Rating*	34.2%

\*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>
Design Options	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Consider non-tapered moment capacity:	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Profile			
Groundwater Depth	3	# of Layers	3

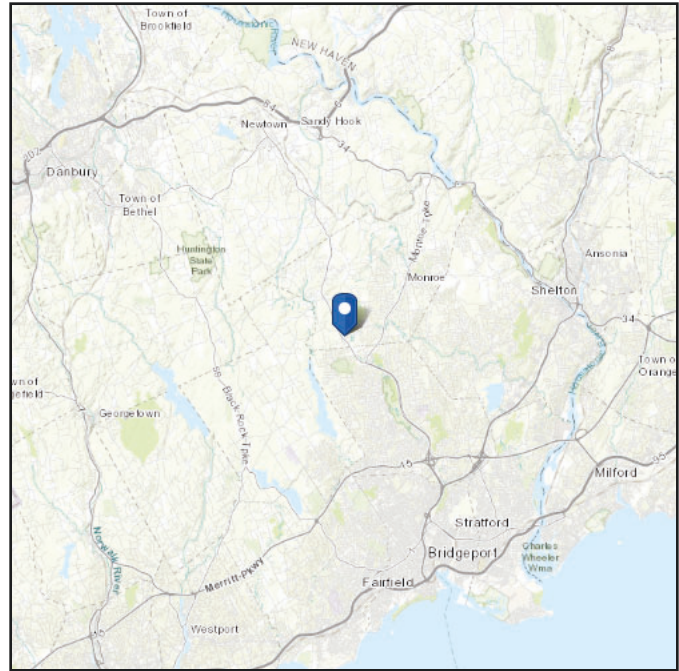
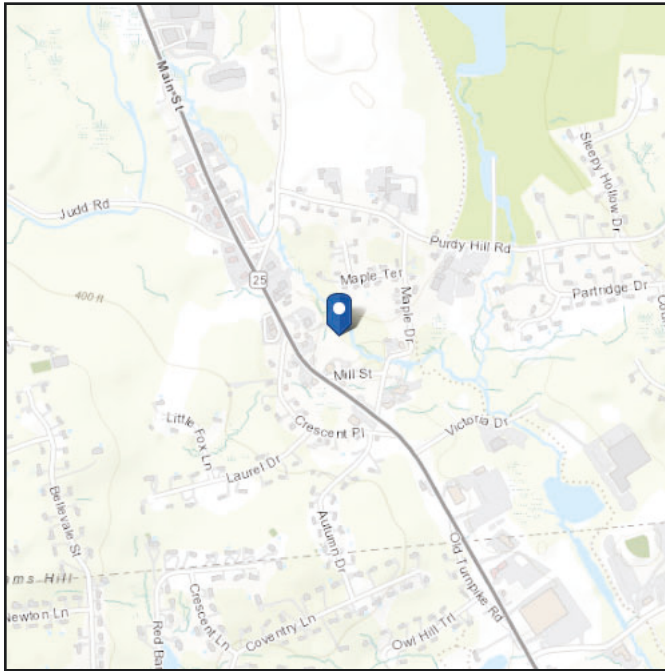
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	V <sub>soil</sub> (pcf)	V <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	115	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3	13	10	52.6	87.6	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	13	37	24	52.6	87.6	0	34	0.000	0.000	1.50	1.50	30		Cohesionless

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see Section 11.4.3)

**Elevation:** 323.94 ft (NAVD 88)  
**Latitude:** 41.301683  
**Longitude:** -73.250811



## Wind

### Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Fri Oct 28 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

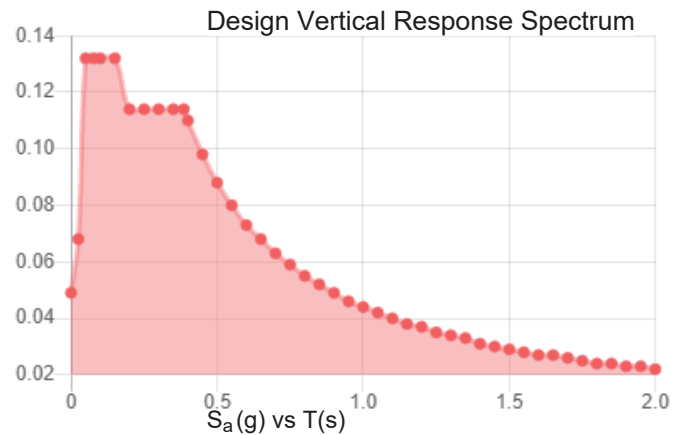
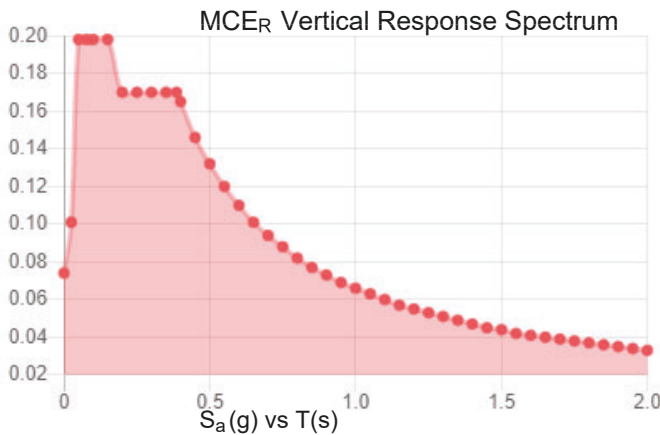
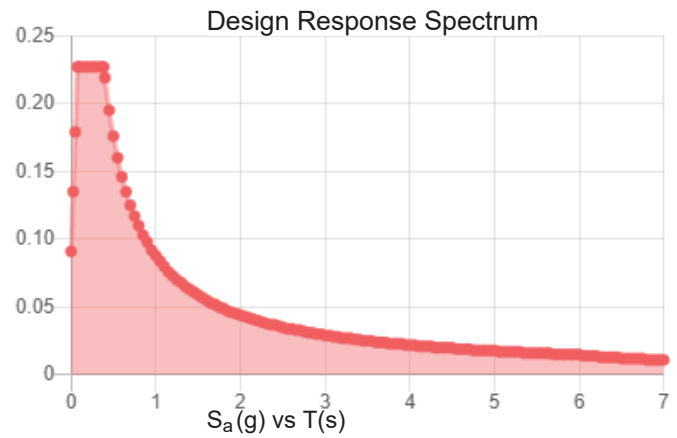
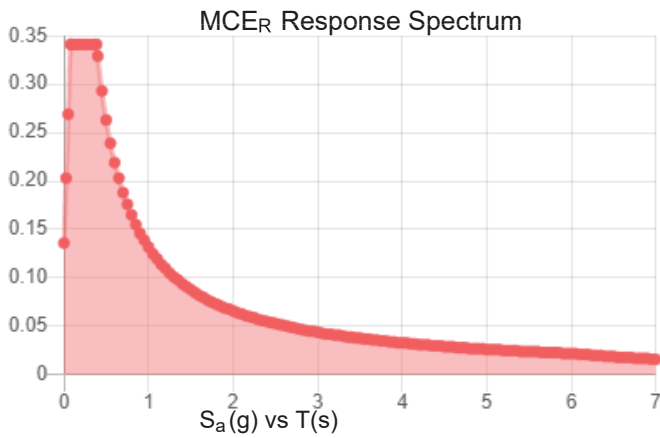
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

$S_s$ :	0.213	$S_{D1}$ :	0.088
$S_1$ :	0.055	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.121
$F_v$ :	2.4	PGA <sub>M</sub> :	0.189
$S_{MS}$ :	0.341	$F_{PGA}$ :	1.557
$S_{M1}$ :	0.132	$I_e$ :	1
$S_{DS}$ :	0.227	$C_v$ :	0.726

**Seismic Design Category** B



**Data Accessed:** Fri Oct 28 2022

**Date Source:**

**USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.**

## Ice

---

**Results:**

Ice Thickness: 1.00 in.  
Concurrent Temperature: 15 F  
Gust Speed 50 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Fri Oct 28 2022

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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Date: **January 26, 2024**



POD Group  
1033 E Turkeyfoot Lake Rd. Suite 206  
Akron, OH 44312  
(330) 961.7432  
[ngilkerson@podgrp.com](mailto:ngilkerson@podgrp.com)

**Subject:** **Mount Analysis Report**

**Carrier Designation:** **DISH Networks**  
**Carrier Site Number:** **NJJER01091A**  
**Carrier Site Name:** **CT-CCI-T-826053**

**Crown Castle Designation:** **Crown Castle BU Number: 826053**  
**Crown Castle Site Name: Monroe-1/Rt 25**  
**Crown Castle JDE Job Number: 2105602**  
**Crown Castle Order Number: 660834 Rev.0**

**Engineering Firm Designation:** **POD Report Designation: 24-164635**

**Site Data:** **88 Main Street, Monroe, Fairfield County, CT 06468**  
**Latitude 41°18'6.06" Longitude -73°15'2.92"**

**Structure Information:** **Tower Height & Type: 195 ft Monopole**  
**Mount Elevation: 145 ft**  
**Mount Type: 8 ft Platform w/ Rails**

POD Group is pleased to submit this "Mount Analysis Report" to determine the structural integrity of DISH Networks' antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

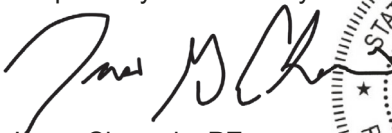
The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

**8 ft Platform w/ Rails (Multiple Sector)**

**Sufficient**

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by Matthew Maloney  
Respectfully submitted by:

  
Jason Cheronis, PE  
Connecticut PE#: 0032793



**Jason G Cheronis**

Digitally signed  
by Jason G  
Cheronis  
Date: 2024.01.29  
09:13:58 -05'00'

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- 2) **ANALYSIS CRITERIA**
  - Table 1 – Proposed Equipment Configuration
- 3) **ANALYSIS PROCEDURE**
  - Table 2 – Documents Provided
  - 3.1) Analysis Method
  - 3.2) Assumptions
- 4) **ANALYSIS RESULTS**
  - Table 3 - Mount Component Stresses vs. Capacity
  - 4.1) Recommendations
- 5) **APPENDIX A**
  - Wire Frame and Rendered Models
- 6) **APPENDIX B**
  - Software Input Calculations
- 7) **APPENDIX C**
  - Software Analysis Output
- 8) **APPENDIX D**
  - Additional Calculations

### 1) INTRODUCTION

This is an existing 3-sector 8' Platform with Rails, designed by Commscope (P/N: MC-PK8-DSH).

### 2) ANALYSIS CRITERIA

<b>Building Code:</b>	2021 IBC
<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Ultimate Wind Speed:</b>	117 mph
<b>Exposure Category:</b>	C
<b>Topographic Factor at Base:</b>	1.000
<b>Topographic Factor at Mount:</b>	1.000
<b>Ice Thickness:</b>	1 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic S<sub>s</sub>:</b>	0.213
<b>Seismic S<sub>1</sub>:</b>	0.055
<b>Live Loading Wind Speed:</b>	30 mph
<b>Man Live Load at Mid/End-Points:</b>	250 lb
<b>Man Live Load at Mount Pipes:</b>	500 lb

**Table 1 - Proposed Equipment Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
145	147	3	JMA Wireless	MX08FRO665-21	8 ft Platform w/ Rails	1
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		1	Raycap	RDIDC-9181-PF-48		
		1	Commscope	VHLP2-11W/A		
		1	Ceragon	IP-50C		

Notes:

- 1) Mount centerline based upon most recent photos of the mount on CCI

### 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App #: 660834 Rev.0 Dated: 12/04/2023	Crown Castle
Construction Drawings	-	POD File Name: 826053 Dated: 01/17/024	POD
Structural Analysis	-	Crown Castle Report #: 2174681 Dated: 10/28/2022	Crown Castle
Previous Mount Analysis	-	Kimley-Horn and Associates, Inc. Project #: 019558058 Dated: 03/07/2022	Crown Castle

### 3.1) Analysis Method

RISA-3D (Version 21.0.0), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases. Selected output from the analysis are included in the Appendices.

A tool internally developed, using Microsoft Excel, by POD Group, was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the calculations is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision E).

### 3.2) Assumptions

- 1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications. This is not a condition assessment of the mount, structure, or foundation.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
- 3) 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.
- 4) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
- 5) The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure. POD Group does not analyze the fabrication of the mount or structure (including welding).
- 6) Member sizes have been assumed from photos of the site and experience with similar mounting systems. If the sizes assumed in this report differ from the actual member sizes, POD Group shall be contacted immediately, and the results of the analysis shall be considered null and void.
- 7) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
- 8) Location of proposed TMA's/Surge Suppressors/RRU's/miscellaneous equipment have been considered on each sector and can be installed where it is found to fit best during installation.
- 9) Based on the review, POD Group believes this mount is Commscope P/N: MC-PK8-DSH.
- 10) Steel grades have been assumed as follows, unless noted otherwise:
  - a. Angle, Plate ASTM A36 (GR 36)
  - b. HSS (Rectangular) ASTM 500 (GR B-46)
  - c. Pipe ASTM A53 (GR 35)
  - d. Connection Bolts ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD Group should be allowed to review any new information to determine its effect on the structural integrity of the mount.

#### 4) ANALYSIS RESULTS

**Table 3 - Mount Component Stresses vs. Capacity (8 ft Platform w/ Rails)**

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Mount Pipes	MP ALPHA1	145	33.4	Pass
	Small Plates	SMPL7		30.9	Pass
	Rail Connection	RAIL CON3		30.8	Pass
	Standoff	SO2		23.5	Pass
	Crossarm	CR1		21.5	Pass
	Plate	PL2		20.6	Pass
	Rail	RAIL2		17.1	Pass
	Grating Support	GRAT SUP5		10.9	Pass
	Face	FACE1		6.5	Pass
	Standoff Flange Plate Bolts	-		3.3	Pass
	Standoff Flange Plate	-		52.5	Pass

<b>Structure Rating (max from all components) =</b>	<b>52.5%</b>
---	--------------

Notes:

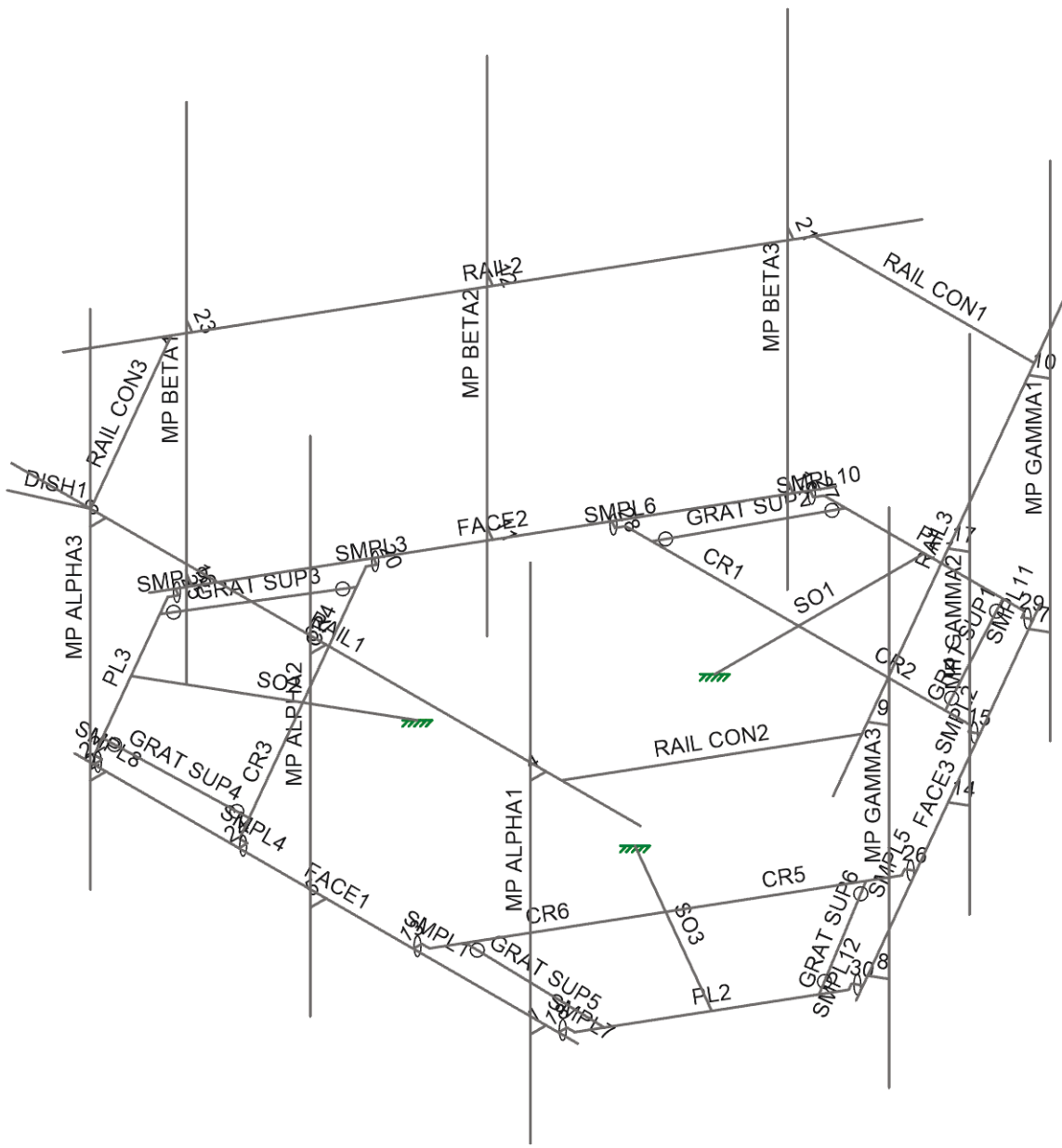
- 1) See additional documentation in "Appendix C – Software Analysis Output" and "Appendix D – Additional Calculations" for calculations supporting the % capacity

#### 4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

## **APPENDIX A**

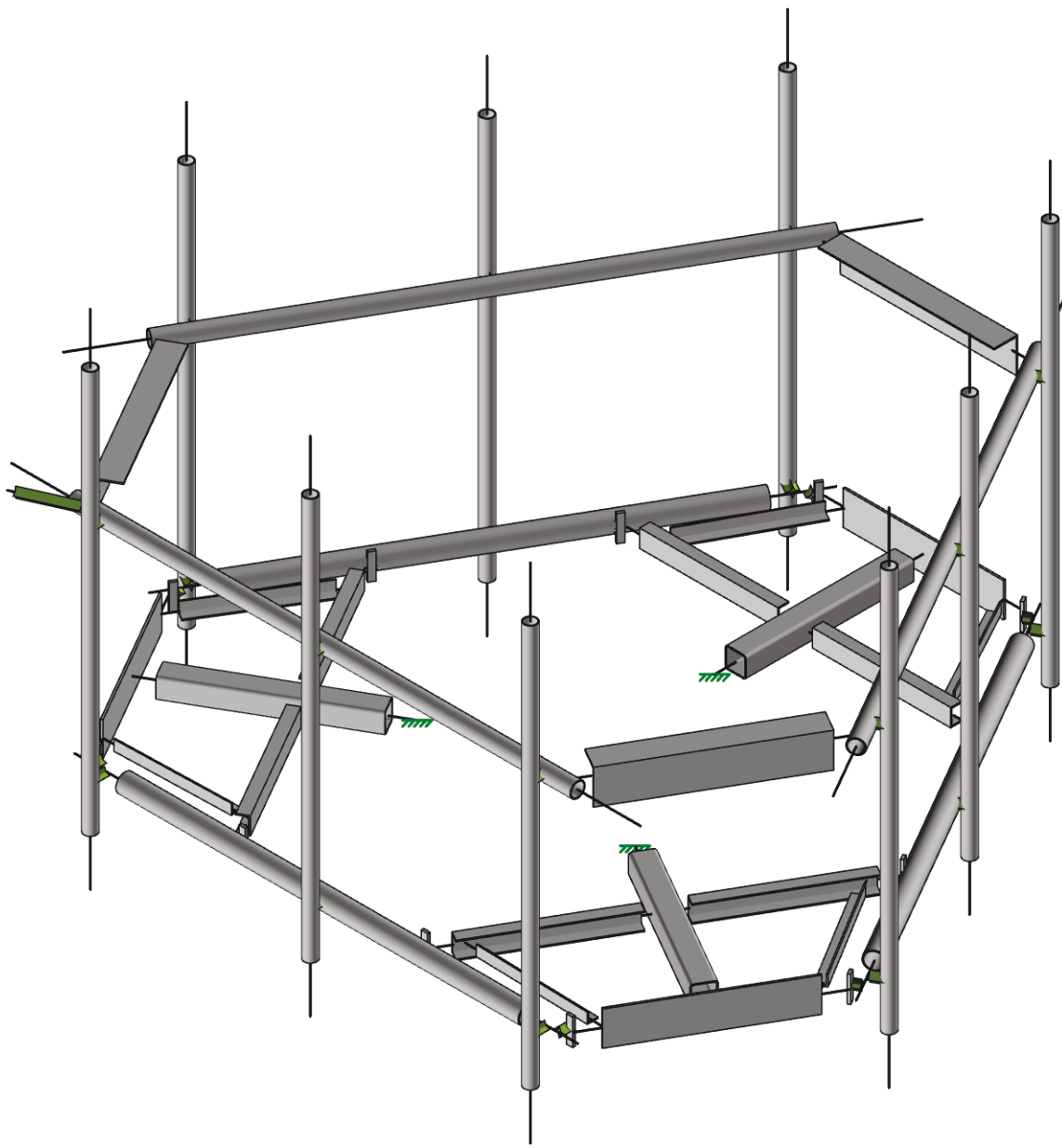
### **Wire Frame and Rendered Models**



POD  
 MMM  
 24-164635

826053

SK-1  
 Jan 26, 2024 at 04:05 PM  
 (PL11.c) 8' PL (MC-PK8-DS...)

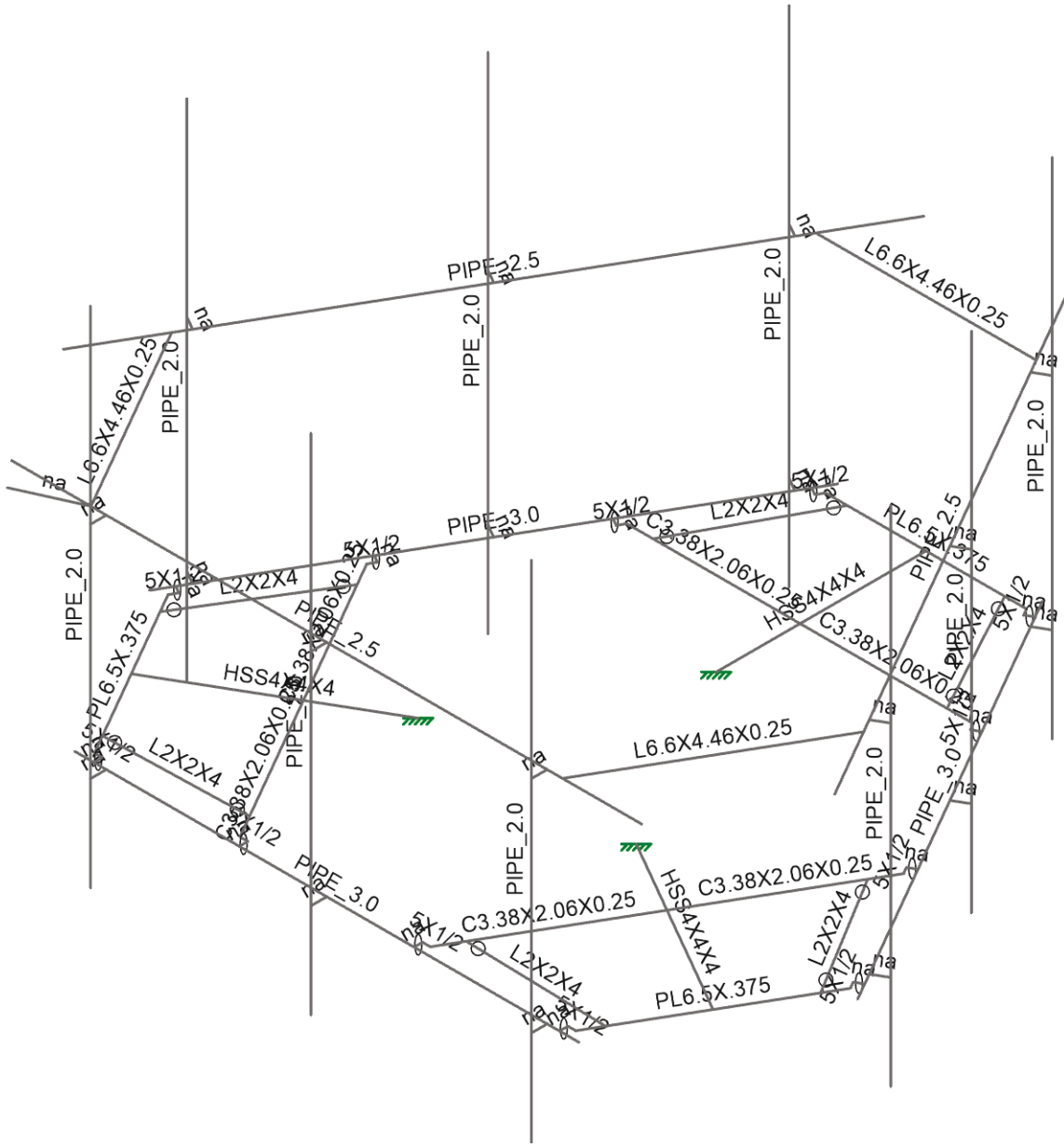


POD  
MMM  
24-164635

826053

SK-2  
Jan 26, 2024 at 04:06 PM  
(PL11.c) 8' PL (MC-PK8-DS...

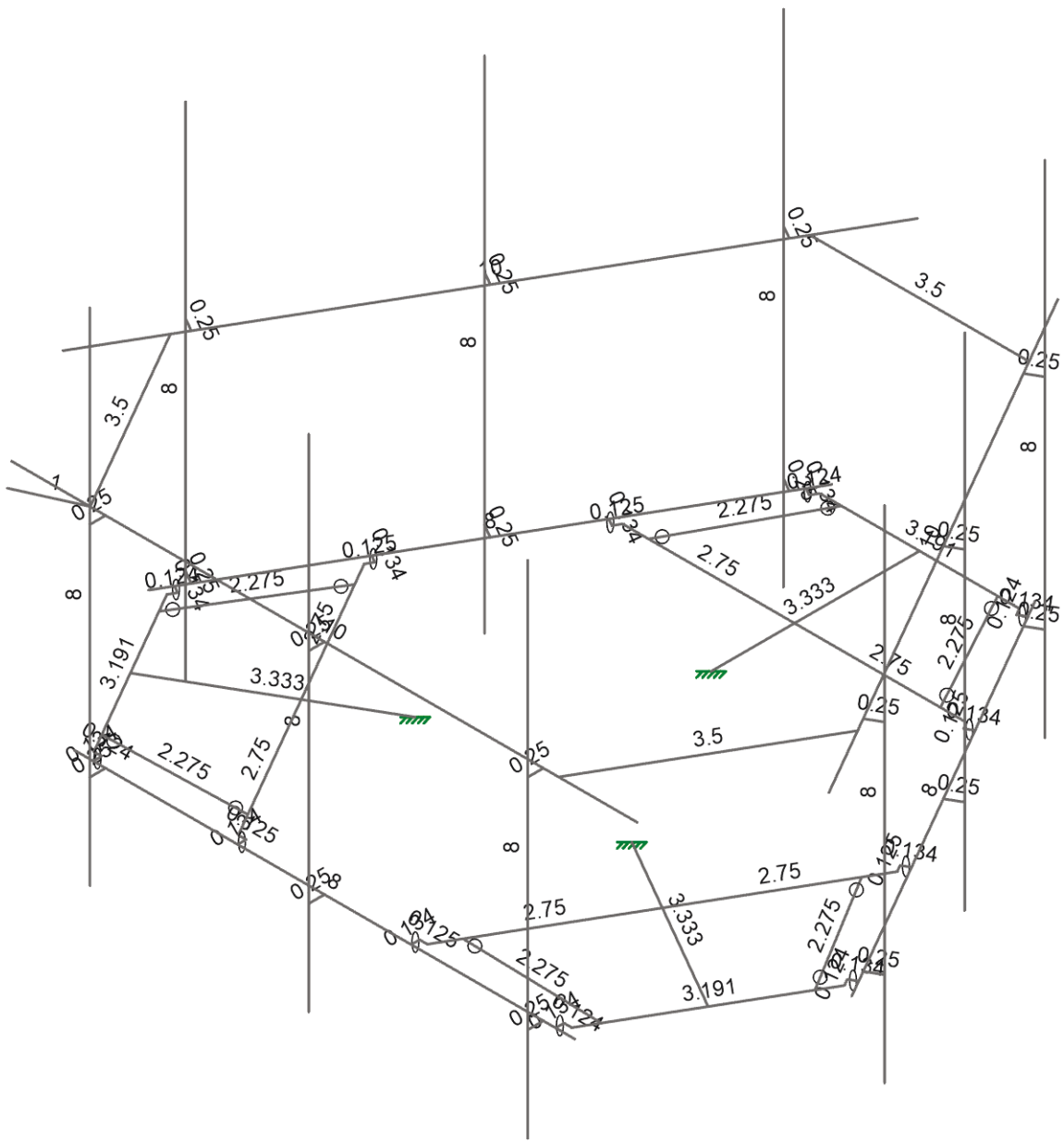




POD  
 MMM  
 24-164635

826053

SK-3  
 Jan 26, 2024 at 04:07 PM  
 (PL11.c) 8' PL (MC-PK8-DS...)



Member Length (ft) Displayed



POD  
 MMM  
 24-164635

826053

SK-4  
 Jan 26, 2024 at 04:07 PM  
 (PL11.c) 8' PL (MC-PK8-DS...)















**APPENDIX B**  
**Software Input Calculations**



POD Job # 24-164635  
 Site Number 826053  
 Site Name Monroe-1/Rt 25

**General Site Information**

Mount Type	SFP	Risk Category	II	I (seismic)	1	Use CFD	
V (Wind Speed)	117	I(ice)	1	Sms	0.341		
Zs	324.28			Sm1	0.132	width (ft)	height (ft)
ti	1	Ss	0.213	Sds	0.227	8	3.5
Vi	50	S1	0.055	Sd1	0.088		
Kit	1	Soil Site Class	D (assumed)	Seismic Design Category			
Exposure	C	Fa	1.600	Seismic Analysis Not Required	B		
zg	900	Fv	2.400	R	2 TIA-222-H 16.7		
α	9.5	Tower Type	Monopole	As	1 TIA-222-H 16.7		
Kmin	0.85	Tower Height	195	Cs, Min	0.03 TIA-222-H 2.7.7.1.1		
G <sub>1</sub>	1	Alpha Azimuth	0	Cs	0.1136 TIA-222-H 2.7.7.1.1		
Ke	0.99						
K <sub>o</sub>	0.95						
K <sub>e</sub>	0.9						

**Appurtenance Information**

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity	MP #
MX08FR0665-21			147	5.25	60		A/B/C	1	1
TA08025-B604			147	5.25			A/B/C	1	1
TA08025-B605			147	5.25			A/B/C	1	1
RBDIC-9181-PF-48			147	5.25			A	1	1
IP-SOC			147	5.25			A	1	3

**Dish Information**

Model	Centerline	Azimuth	Type	Diameter	Depth	Weight	Acting Azimuth	Wind k <sub>z</sub>	q <sub>z</sub>	A	Ice K <sub>iz</sub>	Ice t <sub>iz</sub>	q <sub>z</sub>	Di	Ai	W
VHLP2-11W/A	147	336	w/o Radome	26	9.9	17.6	336	1.373	45.161	3.687	1.161	1.161	8.248	28.322	4.375	79.201

**Mount Information**

Elevation (ft)	145	Grating Thickness (in)	1
K <sub>z</sub>	1.37	Grating Ice Weight (k/ft <sup>2</sup> )	0.014
K <sub>iz</sub>	1.16		
t <sub>iz</sub>	1.16		

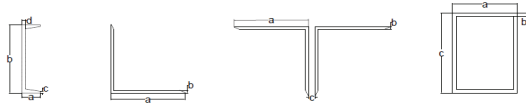
Mount Pipes	Length (ft)	Width (in)	Centerline
	8	2.375	145

**Round Members**

Member	Length (ft)	Width (in)	Frame Member	# of Members
Rail on	8	2.875	Yes	2
Rail off	8	2.875	No	1
Face on	8	3.5	Yes	2
Face off	8	3.5	No	1

**Flat Members**

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Standoff	3.333	4	Square HSS		4	0.25	4	No	3
Small Plate	0.125	5	Channel	0.5	5		0	No	12
Rail Connection on	3.5	6.6	Angle	4.46	0.25		0.5	Yes	1
Rail Connection off	3.5	6.6	Angle	4.46	0.25			No	2
Plate on	3.191	6.5	Channel	0.375	6.5	0	0.375	Yes	1
Plate off	3.191	6.5	Channel	0.375	6.5	0	0.375	No	2
Grating Support	2.275	2	Angle	2	0.25			No	2
Crossarm	2.75	3.38	Channel	2.06	3.38	0.25	0.25	No	6



**Appurtenance Wind Calculations**

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft <sup>2</sup> )	[EPA] <sub>w</sub> (ft <sup>2</sup> )	(EPA) <sub>w</sub> (ft <sup>2</sup> )	Wind Force (Kips)				
									Front	Side	Alpha	Beta	Gamma
MX08FR0665-21	72.0	20.0	8.0	82.5	1.37	45.16	8.01	3.21	0.362	0.145	0.308	0.308	0.145
TA08025-B604	15.0	15.8	7.9	63.9	1.37	45.16	1.77	0.88	0.080	0.040	0.070	0.070	0.040
TA08025-B605	15.0	15.8	9.1	75.0	1.37	45.16	1.77	1.02	0.080	0.046	0.071	0.071	0.046
RDIDC-9181-PF-48	16.6	14.6	8.5	21.9	1.37	45.16	1.81	1.05	0.082	0.047	0.073	0.073	0.047
IP-50C	12.7	10.6	3.4	13.2	1.37	45.16	1.01	0.34	0.046	0.015	0.038	0.038	0.015

**Appurtenance Ice Calculations**

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft <sup>2</sup> )	(EPA) <sub>w</sub> (ft <sup>2</sup> )	(EPA) <sub>w</sub> (ft <sup>2</sup> )	Wind Force (Kips)				
										Front	Side	Alpha	Beta	Gamma
MX08FR0665-21	1.16	74.32	22.32	10.32	181.64	1.16	8.25	8.30	3.85	0.068	0.032	0.059	0.059	0.032
TA08025-B604	1.16	17.28	18.07	10.19	43.07	1.16	8.25	1.37	0.77	0.011	0.006	0.010	0.010	0.006
TA08025-B605	1.16	17.28	18.07	11.38	46.03	1.16	8.25	1.37	0.86	0.011	0.007	0.010	0.010	0.007
RDIDC-9181-PF-48	1.16	18.89	16.89	10.78	45.32	1.16	8.25	1.40	0.89	0.012	0.007	0.010	0.010	0.007
IP-50C	1.16	14.99	12.94	5.70	21.12	1.16	8.25	0.85	0.38	0.007	0.003	0.006	0.006	0.003

**Round Members**

Member	q <sub>w</sub> (lb/ft <sup>2</sup> )	Ar	C	Wind Calculations				Ice Calculations							
				Rr	Cf	EPA (ft <sup>2</sup> )	Load (k/ft)	Width (in)	Weight (k/ft)	q <sub>w</sub> (lb/ft <sup>2</sup> )	Arice	Rrice	Cf	EPA (ft <sup>2</sup> )	Load (k/ft)
Rail on	45.03	3.83	31.96	0.65	1.20	1.35	0.008	5.19	0.01	8.22	6.93	0.78	1.20	2.90	0.003
Rail off	45.03	1.92	31.96	0.65	1.20	1.35	0.004	5.19	0.01	8.22	3.46	0.78	1.20	2.90	0.001
Face on	45.03	4.67	38.91	0.65	1.20	1.64	0.009	5.82	0.01	8.22	7.76	0.78	1.20	3.25	0.003
Face off	45.03	2.33	38.91	0.65	1.20	1.64	0.005	5.82	0.01	8.22	3.88	0.78	1.20	3.25	0.002

**Flat Members**

Member	q <sub>w</sub> (lb/ft <sup>2</sup> )	Af	Cf	Wind Calculations			Ice Calculations							
				EPA	Load (k/ft)		Width (in)	Weight (k/ft)	q <sub>w</sub> (lb/ft <sup>2</sup> )	Arice	Rrice	Cf	EPA	Load (k/ft)
Standoff	45.03	3.33	1.25	1.25	0.008		6.32	0.01	8.22	5.27	0.78	1.25	1.53	0.002
Small Plate	45.03	0.63	2.00	0.09	0.017		7.32	0.01	8.22	0.91	0.78	2.00	0.11	0.004
Rail Connection on	45.03	1.93	2.00	3.47	0.045		8.92	0.01	8.22	2.60	0.78	2.00	3.63	0.009
Rail Connection off	45.03	3.85	2.00	3.47	0.022		8.92	0.01	8.22	5.20	0.78	2.00	3.63	0.004
Plate on	45.03	1.73	2.00	3.11	0.044		8.82	0.01	8.22	2.35	0.78	2.00	3.27	0.008
Plate off	45.03	3.46	2.00	3.11	0.022		8.82	0.01	8.22	4.69	0.78	2.00	3.27	0.004
Grating Support	45.03	0.76	2.00	0.68	0.007		4.32	0.01	8.22	1.64	0.78	2.00	1.14	0.002
Crossarm	45.03	4.65	2.00	1.39	0.011		5.70	0.01	8.22	7.84	0.78	2.00	1.82	0.003

**Appurtenance Seismic Calculations**

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
MX08FR0665-21	82.5	0.227	1.000	0.114	1.000	0.004	0.009
TA08025-B604	63.9	0.227	1.000	0.114	1.000	0.003	0.007
TA08025-B605	75.0	0.227	1.000	0.114	1.000	0.003	0.009
RDIDC-9181-PF-48	21.9	0.227	1.000	0.114	1.000	0.001	0.002
IP-50C	13.2	0.227	1.000	0.114	1.000	0.001	0.001

**APPENDIX C**  
**Software Analysis Output**

**Member Primary Data**

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	1	N48A	N70A		RIGID	None	None	RIGID	Typical
2	2	N45	N69A		RIGID	None	None	RIGID	Typical
3	3	N51	N71A		RIGID	None	None	RIGID	Typical
4	4	N54	N72A		RIGID	None	None	RIGID	Typical
5	5	N78	N82		RIGID	None	None	RIGID	Typical
6	6	N79	N83		RIGID	None	None	RIGID	Typical
7	7	N84	N94		RIGID	None	None	RIGID	Typical
8	8	N83A	N93		RIGID	None	None	RIGID	Typical
9	9	N85	N95		RIGID	None	None	RIGID	Typical
10	10	N86	N96		RIGID	None	None	RIGID	Typical
11	11	N108	N112B		RIGID	None	None	RIGID	Typical
12	12	N109A	N113B		RIGID	None	None	RIGID	Typical
13	13	N126A	N125A		RIGID	None	None	RIGID	Typical
14	14	N115B	N119A		RIGID	None	None	RIGID	Typical
15	15	N129	N128		RIGID	None	None	RIGID	Typical
16	16	N112	N122		RIGID	None	None	RIGID	Typical
17	17	N116B	N120A		RIGID	None	None	RIGID	Typical
18	18	N121A	N120B		RIGID	None	None	RIGID	Typical
19	19	N111	N121		RIGID	None	None	RIGID	Typical
20	20	N132	N131		RIGID	None	None	RIGID	Typical
21	21	N113	N123		RIGID	None	None	RIGID	Typical
22	22	N123B	N122C		RIGID	None	None	RIGID	Typical
23	23	N114	N124		RIGID	None	None	RIGID	Typical
24	24	N133	N132A		RIGID	None	None	RIGID	Typical
25	25	N127	N126B		RIGID	None	None	RIGID	Typical
26	26	N135	N134		RIGID	None	None	RIGID	Typical
27	27	N130	N129A		RIGID	None	None	RIGID	Typical
28	28	N138	N137		RIGID	None	None	RIGID	Typical
29	29	N134A	N133A		RIGID	None	None	RIGID	Typical
30	30	N137A	N136		RIGID	None	None	RIGID	Typical
31	CR1	P4	N122A		C3.38X2.06X0.25	Beam	Channel	A1011 36 Ksi	Typical
32	CR2	P4	N124B	180	C3.38X2.06X0.25	Beam	Channel	A1011 36 Ksi	Typical
33	CR3	P15	N122B		C3.38X2.06X0.25	Beam	Channel	A1011 36 Ksi	Typical
34	CR4	P15	N123A	180	C3.38X2.06X0.25	Beam	Channel	A1011 36 Ksi	Typical
35	CR5	P26	N125		C3.38X2.06X0.25	Beam	Channel	A1011 36 Ksi	Typical
36	CR6	P26	N126	180	C3.38X2.06X0.25	Beam	Channel	A1011 36 Ksi	Typical
37	DISH1	N140	N139		RIGID	None	None	RIGID	Typical
38	FACE1	N43	N44		PIPE 3.0	Beam	Pipe	A500 GR.C	Typical
39	FACE2	N109	N110		PIPE 3.0	Beam	Pipe	A500 GR.C	Typical
40	FACE3	N81A	N82A		PIPE 3.0	Beam	Pipe	A500 GR.C	Typical
41	GRAT SUP1	P9	P12	270	L2X2X4	Beam	Single Angle	A36 Gr.36	Typical
42	GRAT SUP2	P10	P11		L2X2X4	Beam	Single Angle	A36 Gr.36	Typical
43	GRAT SUP3	P20	P23	270	L2X2X4	Beam	Single Angle	A36 Gr.36	Typical
44	GRAT SUP4	P21	P22		L2X2X4	Beam	Single Angle	A36 Gr.36	Typical
45	GRAT SUP5	P31	P34	270	L2X2X4	Beam	Single Angle	A36 Gr.36	Typical
46	GRAT SUP6	P32	P33		L2X2X4	Beam	Single Angle	A36 Gr.36	Typical
47	MP ALPHA1	N60	N66		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
48	MP ALPHA2	N80	N81		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
49	MP ALPHA3	N57	N63		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
50	MP BETA1	N116	N118		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
51	MP BETA2	N110A	N111B		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
52	MP BETA3	N115	N117		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
53	MP GAMMA1	N88	N90		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
54	MP GAMMA2	N117A	N118A		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
55	MP GAMMA3	N87	N89		PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical

**Member Primary Data (Continued)**

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
56	PL1	P7	P8		PL6.5X.375	Beam	RECT	A36 Gr.36	Typical
57	PL2	P29	P30		PL6.5X.375	Beam	RECT	A36 Gr.36	Typical
58	PL3	P18	P19		PL6.5X.375	Beam	RECT	A36 Gr.36	Typical
59	RAIL CON1	N112A	N111A	180	L6.6X4.46X0.25	Beam	Single Angle	A36 Gr.36	Typical
60	RAIL CON2	N116A	N115A	180	L6.6X4.46X0.25	Beam	Single Angle	A36 Gr.36	Typical
61	RAIL CON3	N114A	N113A	180	L6.6X4.46X0.25	Beam	Single Angle	A36 Gr.36	Typical
62	RAIL1	N67	N68		PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
63	RAIL2	N120	N119		PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
64	RAIL3	N92	N91		PIPE 2.5	Beam	Pipe	A500 GR.C	Typical
65	SMPL1	N126	N125A		5X1/2	Beam	RECT	A36 Gr.36	Typical
66	SMPL2	N124B	N128		5X1/2	Beam	RECT	A36 Gr.36	Typical
67	SMPL3	N123A	N131		5X1/2	Beam	RECT	A36 Gr.36	Typical
68	SMPL4	N122B	N132A		5X1/2	Beam	RECT	A36 Gr.36	Typical
69	SMPL5	N125	N134		5X1/2	Beam	RECT	A36 Gr.36	Typical
70	SMPL6	N122A	N137		5X1/2	Beam	RECT	A36 Gr.36	Typical
71	SMPL7	P30	N120B		5X1/2	Beam	RECT	A36 Gr.36	Typical
72	SMPL8	P18	N122C		5X1/2	Beam	RECT	A36 Gr.36	Typical
73	SMPL9	P19	N126B		5X1/2	Beam	RECT	A36 Gr.36	Typical
74	SMPL10	P7	N129A		5X1/2	Beam	RECT	A36 Gr.36	Typical
75	SMPL11	P8	N133A		5X1/2	Beam	RECT	A36 Gr.36	Typical
76	SMPL12	P29	N136		5X1/2	Beam	RECT	A36 Gr.36	Typical
77	SO1	P1	P3		HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
78	SO2	P13	P14		HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
79	SO3	P24	P25		HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical

**Member Advanced Data**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
1	1			Yes	** NA **	None
2	2			Yes	** NA **	None
3	3			Yes	** NA **	None
4	4			Yes	** NA **	None
5	5			Yes	** NA **	None
6	6			Yes	** NA **	None
7	7			Yes	** NA **	None
8	8			Yes	** NA **	None
9	9			Yes	** NA **	None
10	10			Yes	** NA **	None
11	11			Yes	** NA **	None
12	12			Yes	** NA **	None
13	13	OOOXOO		Yes	** NA **	None
14	14			Yes	** NA **	None
15	15	OOOXOO		Yes	** NA **	None
16	16			Yes	** NA **	None
17	17			Yes	** NA **	None
18	18	OOOXOO		Yes	** NA **	None
19	19			Yes	** NA **	None
20	20	OOOXOO		Yes	** NA **	None
21	21			Yes	** NA **	None
22	22	OOOXOO		Yes	** NA **	None
23	23			Yes	** NA **	None
24	24	OOOXOO		Yes	** NA **	None
25	25	OOOXOO		Yes	** NA **	None
26	26	OOOXOO		Yes	** NA **	None
27	27	OOOXOO		Yes	** NA **	None
28	28	OOOXOO		Yes	** NA **	None

**Member Advanced Data (Continued)**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
29	29	OOOXOO		Yes	** NA **	None
30	30	OOOXOO		Yes	** NA **	None
31	CR1			Yes	Default	None
32	CR2			Yes	Default	None
33	CR3			Yes	Default	None
34	CR4			Yes	Default	None
35	CR5			Yes	Default	None
36	CR6			Yes	Default	None
37	DISH1			Yes	** NA **	None
38	FACE1			Yes	N/A	None
39	FACE2			Yes	N/A	None
40	FACE3			Yes	N/A	None
41	GRAT SUP1	BenPIN	BenPIN	Yes	Default	None
42	GRAT SUP2	BenPIN	BenPIN	Yes	Default	None
43	GRAT SUP3	BenPIN	BenPIN	Yes	Default	None
44	GRAT SUP4	BenPIN	BenPIN	Yes	Default	None
45	GRAT SUP5	BenPIN		Yes	Default	None
46	GRAT SUP6	BenPIN	BenPIN	Yes	Default	None
47	MP ALPHA1			Yes	Default	None
48	MP ALPHA2			Yes	Default	None
49	MP ALPHA3			Yes	Default	None
50	MP BETA1			Yes	Default	None
51	MP BETA2			Yes	Default	None
52	MP BETA3			Yes	Default	None
53	MP GAMMA1			Yes	Default	None
54	MP GAMMA2			Yes	Default	None
55	MP GAMMA3			Yes	Default	None
56	PL1			Yes	Default	None
57	PL2			Yes	Default	None
58	PL3			Yes	Default	None
59	RAIL CON1			Yes	N/A	None
60	RAIL CON2			Yes	Default	None
61	RAIL CON3			Yes	N/A	None
62	RAIL1			Yes	Default	None
63	RAIL2			Yes	N/A	None
64	RAIL3			Yes	N/A	None
65	SMPL1			Yes	N/A	None
66	SMPL2			Yes	N/A	None
67	SMPL3			Yes	N/A	None
68	SMPL4			Yes	N/A	None
69	SMPL5			Yes	N/A	None
70	SMPL6			Yes	N/A	None
71	SMPL7			Yes	N/A	None
72	SMPL8			Yes	N/A	None
73	SMPL9			Yes	N/A	None
74	SMPL10			Yes	N/A	None
75	SMPL11			Yes	N/A	None
76	SMPL12			Yes	N/A	None
77	SO1			Yes	N/A	None
78	SO2			Yes	N/A	None
79	SO3			Yes	Default	None

**Hot Rolled Steel Properties**

	Label	E [ksj]	G [ksj]	Nu	Therm. Coeff. [1e <sup>5</sup> F <sup>-1</sup> ]	Density [k/ft <sup>3</sup> ]	Yield [ksj]	Ry	Fu [ksj]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1
9	A500 GR.C	29000	11154	0.3	0.65	0.49	46	1.6	60	1.2
10	A529 Gr. 50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
11	A1011-33Ksi	29000	11154	0.3	0.65	0.49	33	1.5	58	1.2
12	A1011 36 Ksi	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
13	A1018 50 Ksi	29000	11154	0.3	0.65	0.49	50	1.5	65	1.2

**Hot Rolled Steel Design Parameters**

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	CR1	C3.38X2.06X0.25	2.75	Lbyy	N/A	N/A	Lateral
2	CR2	C3.38X2.06X0.25	2.75	Lbyy	N/A	N/A	Lateral
3	CR3	C3.38X2.06X0.25	2.75	Lbyy	N/A	N/A	Lateral
4	CR4	C3.38X2.06X0.25	2.75	Lbyy	N/A	N/A	Lateral
5	CR5	C3.38X2.06X0.25	2.75	Lbyy	N/A	N/A	Lateral
6	CR6	C3.38X2.06X0.25	2.75	Lbyy	N/A	N/A	Lateral
7	FACE1	PIPE 3.0	8	Lbyy	N/A	N/A	Lateral
8	FACE2	PIPE 3.0	8	Lbyy	N/A	N/A	Lateral
9	FACE3	PIPE 3.0	8	Lbyy	N/A	N/A	Lateral
10	GRAT SUP1	L2X2X4	2.275	Lbyy	N/A	N/A	Lateral
11	GRAT SUP2	L2X2X4	2.275	Lbyy	N/A	N/A	Lateral
12	GRAT SUP3	L2X2X4	2.275	Lbyy	N/A	N/A	Lateral
13	GRAT SUP4	L2X2X4	2.275	Lbyy	N/A	N/A	Lateral
14	GRAT SUP5	L2X2X4	2.275	Lbyy	N/A	N/A	Lateral
15	GRAT SUP6	L2X2X4	2.275	Lbyy	N/A	N/A	Lateral
16	MP ALPHA1	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
17	MP ALPHA2	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
18	MP ALPHA3	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
19	MP BETA1	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
20	MP BETA2	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
21	MP BETA3	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
22	MP GAMMA1	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
23	MP GAMMA2	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
24	MP GAMMA3	PIPE 2.0	8	Lbyy	N/A	N/A	Lateral
25	PL1	PL6.5X.375	3.191	Lbyy	N/A	N/A	Lateral
26	PL2	PL6.5X.375	3.191	Lbyy	N/A	N/A	Lateral
27	PL3	PL6.5X.375	3.191	Lbyy	N/A	N/A	Lateral
28	RAIL CON1	L6.6X4.46X0.25	3.5	Lbyy	N/A	N/A	Lateral
29	RAIL CON2	L6.6X4.46X0.25	3.5	Lbyy	N/A	N/A	Lateral
30	RAIL CON3	L6.6X4.46X0.25	3.5	Lbyy	N/A	N/A	Lateral
31	RAIL1	PIPE 2.5	10	Lbyy	N/A	N/A	Lateral
32	RAIL2	PIPE 2.5	10	Lbyy	N/A	N/A	Lateral
33	RAIL3	PIPE 2.5	10	Lbyy	N/A	N/A	Lateral
34	SMPL1	5X1/2	0.125		N/A	N/A	Lateral
35	SMPL2	5X1/2	0.125		N/A	N/A	Lateral
36	SMPL3	5X1/2	0.125		N/A	N/A	Lateral
37	SMPL4	5X1/2	0.125		N/A	N/A	Lateral
38	SMPL5	5X1/2	0.125		N/A	N/A	Lateral



**Hot Rolled Steel Design Parameters (Continued)**

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
39	SMPL6	5X1/2	0.125		N/A	N/A	Lateral
40	SMPL7	5X1/2	0.124		N/A	N/A	Lateral
41	SMPL8	5X1/2	0.124		N/A	N/A	Lateral
42	SMPL9	5X1/2	0.124		N/A	N/A	Lateral
43	SMPL10	5X1/2	0.124		N/A	N/A	Lateral
44	SMPL11	5X1/2	0.124		N/A	N/A	Lateral
45	SMPL12	5X1/2	0.124		N/A	N/A	Lateral
46	SO1	HSS4X4X4	3.333	Lbyy	N/A	N/A	Lateral
47	SO2	HSS4X4X4	3.333	Lbyy	N/A	N/A	Lateral
48	SO3	HSS4X4X4	3.333	Lbyy	N/A	N/A	Lateral

**Member Point Loads (BLC 2 : Wind Load (0))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.181	7.75
2	MP ALPHA1	Z	0.181	2.75
3	MP BETA1	Z	0.1	7.75
4	MP BETA1	Z	0.1	2.75
5	MP GAMMA1	Z	0.1	7.75
6	MP GAMMA1	Z	0.1	2.75
7	MP ALPHA1	Z	0.08	5.25
8	MP BETA1	Z	0.05	5.25
9	MP GAMMA1	Z	0.05	5.25
10	MP ALPHA1	Z	0.08	5.25
11	MP BETA1	Z	0.054	5.25
12	MP GAMMA1	Z	0.054	5.25
13	MP ALPHA1	Z	0.082	5.25
14	MP ALPHA3	Z	0.046	5.25
15	DISH1	Z	0.149	0
16	DISH1	X	0.006	0
17	DISH1	My	-0.034	0

**Member Point Loads (BLC 3 : Dead Load)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Y	-0.041	7.75
2	MP ALPHA1	Y	-0.041	2.75
3	MP BETA1	Y	-0.041	7.75
4	MP BETA1	Y	-0.041	2.75
5	MP GAMMA1	Y	-0.041	7.75
6	MP GAMMA1	Y	-0.041	2.75
7	MP ALPHA1	Y	-0.064	5.25
8	MP BETA1	Y	-0.064	5.25
9	MP GAMMA1	Y	-0.064	5.25
10	MP ALPHA1	Y	-0.075	5.25
11	MP BETA1	Y	-0.075	5.25
12	MP GAMMA1	Y	-0.075	5.25
13	MP ALPHA1	Y	-0.022	5.25
14	MP ALPHA3	Y	-0.013	5.25
15	DISH1	Y	-0.018	0

**Member Point Loads (BLC 4 : Wind Load (30))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.133	7.75
2	MP ALPHA1	Z	0.133	2.75
3	MP ALPHA1	X	-0.077	7.75
4	MP ALPHA1	X	-0.077	2.75
5	MP BETA1	Z	0.063	7.75
6	MP BETA1	Z	0.063	2.75
7	MP BETA1	X	-0.036	7.75
8	MP BETA1	X	-0.036	2.75
9	MP GAMMA1	Z	0.133	7.75
10	MP GAMMA1	Z	0.133	2.75
11	MP GAMMA1	X	-0.077	7.75
12	MP GAMMA1	X	-0.077	2.75
13	MP ALPHA1	Z	0.06	5.25
14	MP ALPHA1	X	-0.035	5.25
15	MP BETA1	Z	0.035	5.25
16	MP BETA1	X	-0.02	5.25
17	MP GAMMA1	Z	0.06	5.25
18	MP GAMMA1	X	-0.035	5.25
19	MP ALPHA1	Z	0.062	5.25
20	MP ALPHA1	X	-0.036	5.25
21	MP BETA1	Z	0.04	5.25
22	MP BETA1	X	-0.023	5.25
23	MP GAMMA1	Z	0.062	5.25
24	MP GAMMA1	X	-0.036	5.25
25	MP ALPHA1	Z	0.063	5.25
26	MP ALPHA1	X	-0.037	5.25
27	MP ALPHA3	Z	0.033	5.25
28	MP ALPHA3	X	-0.019	5.25
29	DISH1	Z	0.102	0
30	DISH1	X	-0.039	0
31	DISH1	My	-0.052	0

**Member Point Loads (BLC 5 : Wind Load (60))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.05	7.75
2	MP ALPHA1	Z	0.05	2.75
3	MP ALPHA1	X	-0.086	7.75
4	MP ALPHA1	X	-0.086	2.75
5	MP BETA1	Z	0.05	7.75
6	MP BETA1	Z	0.05	2.75
7	MP BETA1	X	-0.086	7.75
8	MP BETA1	X	-0.086	2.75
9	MP GAMMA1	Z	0.09	7.75
10	MP GAMMA1	Z	0.09	2.75
11	MP GAMMA1	X	-0.157	7.75
12	MP GAMMA1	X	-0.157	2.75
13	MP ALPHA1	Z	0.025	5.25
14	MP ALPHA1	X	-0.043	5.25
15	MP BETA1	Z	0.025	5.25
16	MP BETA1	X	-0.043	5.25
17	MP GAMMA1	Z	0.04	5.25
18	MP GAMMA1	X	-0.069	5.25
19	MP ALPHA1	Z	0.027	5.25
20	MP ALPHA1	X	-0.047	5.25

**Member Point Loads (BLC 5 : Wind Load (60)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
21	MP BETA1	Z	0.027	5.25
22	MP BETA1	X	-0.047	5.25
23	MP GAMMA1	Z	0.04	5.25
24	MP GAMMA1	X	-0.069	5.25
25	MP ALPHA1	Z	0.028	5.25
26	MP ALPHA1	X	-0.049	5.25
27	MP ALPHA3	Z	0.011	5.25
28	MP ALPHA3	X	-0.02	5.25
29	DISH1	Z	0.062	0
30	DISH1	X	-0.039	0
31	DISH1	My	-0.048	0

**Member Point Loads (BLC 6 : Wind Load (90))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	-0.072	7.75
2	MP ALPHA1	X	-0.072	2.75
3	MP BETA1	X	-0.154	7.75
4	MP BETA1	X	-0.154	2.75
5	MP GAMMA1	X	-0.154	7.75
6	MP GAMMA1	X	-0.154	2.75
7	MP ALPHA1	X	-0.04	5.25
8	MP BETA1	X	-0.07	5.25
9	MP GAMMA1	X	-0.07	5.25
10	MP ALPHA1	X	-0.046	5.25
11	MP BETA1	X	-0.071	5.25
12	MP GAMMA1	X	-0.071	5.25
13	MP ALPHA1	X	-0.047	5.25
14	MP ALPHA3	X	-0.015	5.25
15	DISH1	Z	-0.2	0
16	DISH1	X	-0.157	0
17	DISH1	My	0.014	0

**Member Point Loads (BLC 7 : Wind Load (120))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.05	7.75
2	MP ALPHA1	Z	-0.05	2.75
3	MP ALPHA1	X	-0.086	7.75
4	MP ALPHA1	X	-0.086	2.75
5	MP BETA1	Z	-0.09	7.75
6	MP BETA1	Z	-0.09	2.75
7	MP BETA1	X	-0.157	7.75
8	MP BETA1	X	-0.157	2.75
9	MP GAMMA1	Z	-0.05	7.75
10	MP GAMMA1	Z	-0.05	2.75
11	MP GAMMA1	X	-0.086	7.75
12	MP GAMMA1	X	-0.086	2.75
13	MP ALPHA1	Z	-0.025	5.25
14	MP ALPHA1	X	-0.043	5.25
15	MP BETA1	Z	-0.04	5.25
16	MP BETA1	X	-0.069	5.25
17	MP GAMMA1	Z	-0.025	5.25
18	MP GAMMA1	X	-0.043	5.25
19	MP ALPHA1	Z	-0.027	5.25

**Member Point Loads (BLC 7 : Wind Load (120)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
20	MP ALPHA1	X	-0.047	5.25
21	MP BETA1	Z	-0.04	5.25
22	MP BETA1	X	-0.069	5.25
23	MP GAMMA1	Z	-0.027	5.25
24	MP GAMMA1	X	-0.047	5.25
25	MP ALPHA1	Z	-0.028	5.25
26	MP ALPHA1	X	-0.049	5.25
27	MP ALPHA3	Z	-0.011	5.25
28	MP ALPHA3	X	-0.02	5.25
29	DISH1	Z	-0.241	0
30	DISH1	X	-0.106	0
31	DISH1	My	0.018	0

**Member Point Loads (BLC 8 : Wind Load (150))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.133	7.75
2	MP ALPHA1	Z	-0.133	2.75
3	MP ALPHA1	X	-0.077	7.75
4	MP ALPHA1	X	-0.077	2.75
5	MP BETA1	Z	-0.133	7.75
6	MP BETA1	Z	-0.133	2.75
7	MP BETA1	X	-0.077	7.75
8	MP BETA1	X	-0.077	2.75
9	MP GAMMA1	Z	-0.063	7.75
10	MP GAMMA1	Z	-0.063	2.75
11	MP GAMMA1	X	-0.036	7.75
12	MP GAMMA1	X	-0.036	2.75
13	MP ALPHA1	Z	-0.06	5.25
14	MP ALPHA1	X	-0.035	5.25
15	MP BETA1	Z	-0.06	5.25
16	MP BETA1	X	-0.035	5.25
17	MP GAMMA1	Z	-0.035	5.25
18	MP GAMMA1	X	-0.02	5.25
19	MP ALPHA1	Z	-0.062	5.25
20	MP ALPHA1	X	-0.036	5.25
21	MP BETA1	Z	-0.062	5.25
22	MP BETA1	X	-0.036	5.25
23	MP GAMMA1	Z	-0.04	5.25
24	MP GAMMA1	X	-0.023	5.25
25	MP ALPHA1	Z	-0.063	5.25
26	MP ALPHA1	X	-0.037	5.25
27	MP ALPHA3	Z	-0.033	5.25
28	MP ALPHA3	X	-0.019	5.25
29	DISH1	Z	-0.237	0
30	DISH1	X	-0.1	0
31	DISH1	My	0.005	0

**Member Point Loads (BLC 9 : Wind Load (180))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.181	7.75
2	MP ALPHA1	Z	-0.181	2.75
3	MP BETA1	Z	-0.1	7.75
4	MP BETA1	Z	-0.1	2.75

**Member Point Loads (BLC 9 : Wind Load (180)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
5	MP GAMMA1	Z	-0.1	7.75
6	MP GAMMA1	Z	-0.1	2.75
7	MP ALPHA1	Z	-0.08	5.25
8	MP BETA1	Z	-0.05	5.25
9	MP GAMMA1	Z	-0.05	5.25
10	MP ALPHA1	Z	-0.08	5.25
11	MP BETA1	Z	-0.054	5.25
12	MP GAMMA1	Z	-0.054	5.25
13	MP ALPHA1	Z	-0.082	5.25
14	MP ALPHA3	Z	-0.046	5.25
15	DISH1	Z	-0.233	0
16	DISH1	X	-0.112	0
17	DISH1	My	-0.014	0

**Member Point Loads (BLC 10 : Wind Load (210))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.133	7.75
2	MP ALPHA1	Z	-0.133	2.75
3	MP ALPHA1	X	0.077	7.75
4	MP ALPHA1	X	0.077	2.75
5	MP BETA1	Z	-0.063	7.75
6	MP BETA1	Z	-0.063	2.75
7	MP BETA1	X	0.036	7.75
8	MP BETA1	X	0.036	2.75
9	MP GAMMA1	Z	-0.133	7.75
10	MP GAMMA1	Z	-0.133	2.75
11	MP GAMMA1	X	0.077	7.75
12	MP GAMMA1	X	0.077	2.75
13	MP ALPHA1	Z	-0.06	5.25
14	MP ALPHA1	X	0.035	5.25
15	MP BETA1	Z	-0.035	5.25
16	MP BETA1	X	0.02	5.25
17	MP GAMMA1	Z	-0.06	5.25
18	MP GAMMA1	X	0.035	5.25
19	MP ALPHA1	Z	-0.062	5.25
20	MP ALPHA1	X	0.036	5.25
21	MP BETA1	Z	-0.04	5.25
22	MP BETA1	X	0.023	5.25
23	MP GAMMA1	Z	-0.062	5.25
24	MP GAMMA1	X	0.036	5.25
25	MP ALPHA1	Z	-0.063	5.25
26	MP ALPHA1	X	0.037	5.25
27	MP ALPHA3	Z	-0.033	5.25
28	MP ALPHA3	X	0.019	5.25
29	DISH1	Z	-0.262	0
30	DISH1	X	-0.089	0
31	DISH1	My	-0.028	0

**Member Point Loads (BLC 11 : Wind Load (240))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.05	7.75
2	MP ALPHA1	Z	-0.05	2.75
3	MP ALPHA1	X	0.086	7.75

**Member Point Loads (BLC 11 : Wind Load (240)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
4	MP ALPHA1	X	0.086	2.75
5	MP BETA1	Z	-0.05	7.75
6	MP BETA1	Z	-0.05	2.75
7	MP BETA1	X	0.086	7.75
8	MP BETA1	X	0.086	2.75
9	MP GAMMA1	Z	-0.09	7.75
10	MP GAMMA1	Z	-0.09	2.75
11	MP GAMMA1	X	0.157	7.75
12	MP GAMMA1	X	0.157	2.75
13	MP ALPHA1	Z	-0.025	5.25
14	MP ALPHA1	X	0.043	5.25
15	MP BETA1	Z	-0.025	5.25
16	MP BETA1	X	0.043	5.25
17	MP GAMMA1	Z	-0.04	5.25
18	MP GAMMA1	X	0.069	5.25
19	MP ALPHA1	Z	-0.027	5.25
20	MP ALPHA1	X	0.047	5.25
21	MP BETA1	Z	-0.027	5.25
22	MP BETA1	X	0.047	5.25
23	MP GAMMA1	Z	-0.04	5.25
24	MP GAMMA1	X	0.069	5.25
25	MP ALPHA1	Z	-0.028	5.25
26	MP ALPHA1	X	0.049	5.25
27	MP ALPHA3	Z	-0.011	5.25
28	MP ALPHA3	X	0.02	5.25
29	DISH1	Z	-0.094	0
30	DISH1	X	0.025	0
31	DISH1	My	0.041	0

**Member Point Loads (BLC 12 : Wind Load (270))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	0.072	7.75
2	MP ALPHA1	X	0.072	2.75
3	MP BETA1	X	0.154	7.75
4	MP BETA1	X	0.154	2.75
5	MP GAMMA1	X	0.154	7.75
6	MP GAMMA1	X	0.154	2.75
7	MP ALPHA1	X	0.04	5.25
8	MP BETA1	X	0.07	5.25
9	MP GAMMA1	X	0.07	5.25
10	MP ALPHA1	X	0.046	5.25
11	MP BETA1	X	0.071	5.25
12	MP GAMMA1	X	0.071	5.25
13	MP ALPHA1	X	0.047	5.25
14	MP ALPHA3	X	0.015	5.25
15	DISH1	Z	0.041	0
16	DISH1	X	0.097	0
17	DISH1	My	0.05	0

**Member Point Loads (BLC 13 : Wind Load (300))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.05	7.75
2	MP ALPHA1	Z	0.05	2.75

**Member Point Loads (BLC 13 : Wind Load (300)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
3	MP ALPHA1	X	0.086	7.75
4	MP ALPHA1	X	0.086	2.75
5	MP BETA1	Z	0.09	7.75
6	MP BETA1	Z	0.09	2.75
7	MP BETA1	X	0.157	7.75
8	MP BETA1	X	0.157	2.75
9	MP GAMMA1	Z	0.05	7.75
10	MP GAMMA1	Z	0.05	2.75
11	MP GAMMA1	X	0.086	7.75
12	MP GAMMA1	X	0.086	2.75
13	MP ALPHA1	Z	0.025	5.25
14	MP ALPHA1	X	0.043	5.25
15	MP BETA1	Z	0.04	5.25
16	MP BETA1	X	0.069	5.25
17	MP GAMMA1	Z	0.025	5.25
18	MP GAMMA1	X	0.043	5.25
19	MP ALPHA1	Z	0.027	5.25
20	MP ALPHA1	X	0.047	5.25
21	MP BETA1	Z	0.04	5.25
22	MP BETA1	X	0.069	5.25
23	MP GAMMA1	Z	0.027	5.25
24	MP GAMMA1	X	0.047	5.25
25	MP ALPHA1	Z	0.028	5.25
26	MP ALPHA1	X	0.049	5.25
27	MP ALPHA3	Z	0.011	5.25
28	MP ALPHA3	X	0.02	5.25
29	DISH1	Z	0.071	0
30	DISH1	X	0.109	0
31	DISH1	My	0.044	0

**Member Point Loads (BLC 14 : Wind Load (330))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.133	7.75
2	MP ALPHA1	Z	0.133	2.75
3	MP ALPHA1	X	0.077	7.75
4	MP ALPHA1	X	0.077	2.75
5	MP BETA1	Z	0.133	7.75
6	MP BETA1	Z	0.133	2.75
7	MP BETA1	X	0.077	7.75
8	MP BETA1	X	0.077	2.75
9	MP GAMMA1	Z	0.063	7.75
10	MP GAMMA1	Z	0.063	2.75
11	MP GAMMA1	X	0.036	7.75
12	MP GAMMA1	X	0.036	2.75
13	MP ALPHA1	Z	0.06	5.25
14	MP ALPHA1	X	0.035	5.25
15	MP BETA1	Z	0.06	5.25
16	MP BETA1	X	0.035	5.25
17	MP GAMMA1	Z	0.035	5.25
18	MP GAMMA1	X	0.02	5.25
19	MP ALPHA1	Z	0.062	5.25
20	MP ALPHA1	X	0.036	5.25
21	MP BETA1	Z	0.062	5.25
22	MP BETA1	X	0.036	5.25
23	MP GAMMA1	Z	0.04	5.25

**Member Point Loads (BLC 14 : Wind Load (330)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
24	MP GAMMA1	X	0.023	5.25
25	MP ALPHA1	Z	0.063	5.25
26	MP ALPHA1	X	0.037	5.25
27	MP ALPHA3	Z	0.033	5.25
28	MP ALPHA3	X	0.019	5.25
29	DISH1	Z	0.145	0
30	DISH1	X	0.08	0
31	DISH1	My	0.011	0

**Member Point Loads (BLC 15 : Maintenance (0))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.012	7.75
2	MP ALPHA1	Z	0.012	2.75
3	MP BETA1	Z	0.007	7.75
4	MP BETA1	Z	0.007	2.75
5	MP GAMMA1	Z	0.007	7.75
6	MP GAMMA1	Z	0.007	2.75
7	MP ALPHA1	Z	0.005	5.25
8	MP BETA1	Z	0.003	5.25
9	MP GAMMA1	Z	0.003	5.25
10	MP ALPHA1	Z	0.005	5.25
11	MP BETA1	Z	0.004	5.25
12	MP GAMMA1	Z	0.004	5.25
13	MP ALPHA1	Z	0.005	5.25
14	MP ALPHA3	Z	0.003	5.25
15	DISH1	Z	0.01	0
16	DISH1	X	0.000374	0
17	DISH1	My	-0.002	0

**Member Point Loads (BLC 16 : Maintenance (30))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.009	7.75
2	MP ALPHA1	Z	0.009	2.75
3	MP ALPHA1	X	-0.005	7.75
4	MP ALPHA1	X	-0.005	2.75
5	MP BETA1	Z	0.004	7.75
6	MP BETA1	Z	0.004	2.75
7	MP BETA1	X	-0.002	7.75
8	MP BETA1	X	-0.002	2.75
9	MP GAMMA1	Z	0.009	7.75
10	MP GAMMA1	Z	0.009	2.75
11	MP GAMMA1	X	-0.005	7.75
12	MP GAMMA1	X	-0.005	2.75
13	MP ALPHA1	Z	0.004	5.25
14	MP ALPHA1	X	-0.002	5.25
15	MP BETA1	Z	0.002	5.25
16	MP BETA1	X	-0.001	5.25
17	MP GAMMA1	Z	0.004	5.25
18	MP GAMMA1	X	-0.002	5.25
19	MP ALPHA1	Z	0.004	5.25
20	MP ALPHA1	X	-0.002	5.25
21	MP BETA1	Z	0.003	5.25
22	MP BETA1	X	-0.002	5.25



**Member Point Loads (BLC 16 : Maintenance (30)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
23	MP GAMMA1	Z	0.004	5.25
24	MP GAMMA1	X	-0.002	5.25
25	MP ALPHA1	Z	0.004	5.25
26	MP ALPHA1	X	-0.002	5.25
27	MP ALPHA3	Z	0.002	5.25
28	MP ALPHA3	X	-0.001	5.25
29	DISH1	Z	0.007	0
30	DISH1	X	-0.003	0
31	DISH1	My	-0.003	0

**Member Point Loads (BLC 17 : Maintenance (60))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.003	7.75
2	MP ALPHA1	Z	0.003	2.75
3	MP ALPHA1	X	-0.006	7.75
4	MP ALPHA1	X	-0.006	2.75
5	MP BETA1	Z	0.003	7.75
6	MP BETA1	Z	0.003	2.75
7	MP BETA1	X	-0.006	7.75
8	MP BETA1	X	-0.006	2.75
9	MP GAMMA1	Z	0.006	7.75
10	MP GAMMA1	Z	0.006	2.75
11	MP GAMMA1	X	-0.01	7.75
12	MP GAMMA1	X	-0.01	2.75
13	MP ALPHA1	Z	0.002	5.25
14	MP ALPHA1	X	-0.003	5.25
15	MP BETA1	Z	0.002	5.25
16	MP BETA1	X	-0.003	5.25
17	MP GAMMA1	Z	0.003	5.25
18	MP GAMMA1	X	-0.005	5.25
19	MP ALPHA1	Z	0.002	5.25
20	MP ALPHA1	X	-0.003	5.25
21	MP BETA1	Z	0.002	5.25
22	MP BETA1	X	-0.003	5.25
23	MP GAMMA1	Z	0.003	5.25
24	MP GAMMA1	X	-0.005	5.25
25	MP ALPHA1	Z	0.002	5.25
26	MP ALPHA1	X	-0.003	5.25
27	MP ALPHA3	Z	0.000749	5.25
28	MP ALPHA3	X	-0.001	5.25
29	DISH1	Z	0.004	0
30	DISH1	X	-0.003	0
31	DISH1	My	-0.003	0

**Member Point Loads (BLC 18 : Maintenance (90))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	-0.005	7.75
2	MP ALPHA1	X	-0.005	2.75
3	MP BETA1	X	-0.01	7.75
4	MP BETA1	X	-0.01	2.75
5	MP GAMMA1	X	-0.01	7.75
6	MP GAMMA1	X	-0.01	2.75
7	MP ALPHA1	X	-0.003	5.25

**Member Point Loads (BLC 18 : Maintenance (90)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
8	MP BETA1	X	-0.005	5.25
9	MP GAMMA1	X	-0.005	5.25
10	MP ALPHA1	X	-0.003	5.25
11	MP BETA1	X	-0.005	5.25
12	MP GAMMA1	X	-0.005	5.25
13	MP ALPHA1	X	-0.003	5.25
14	MP ALPHA3	X	-0.000998	5.25
15	DISH1	Z	-0.013	0
16	DISH1	X	-0.01	0
17	DISH1	My	0.000937	0

**Member Point Loads (BLC 19 : Maintenance (120))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.003	7.75
2	MP ALPHA1	Z	-0.003	2.75
3	MP ALPHA1	X	-0.006	7.75
4	MP ALPHA1	X	-0.006	2.75
5	MP BETA1	Z	-0.006	7.75
6	MP BETA1	Z	-0.006	2.75
7	MP BETA1	X	-0.01	7.75
8	MP BETA1	X	-0.01	2.75
9	MP GAMMA1	Z	-0.003	7.75
10	MP GAMMA1	Z	-0.003	2.75
11	MP GAMMA1	X	-0.006	7.75
12	MP GAMMA1	X	-0.006	2.75
13	MP ALPHA1	Z	-0.002	5.25
14	MP ALPHA1	X	-0.003	5.25
15	MP BETA1	Z	-0.003	5.25
16	MP BETA1	X	-0.005	5.25
17	MP GAMMA1	Z	-0.002	5.25
18	MP GAMMA1	X	-0.003	5.25
19	MP ALPHA1	Z	-0.002	5.25
20	MP ALPHA1	X	-0.003	5.25
21	MP BETA1	Z	-0.003	5.25
22	MP BETA1	X	-0.005	5.25
23	MP GAMMA1	Z	-0.002	5.25
24	MP GAMMA1	X	-0.003	5.25
25	MP ALPHA1	Z	-0.002	5.25
26	MP ALPHA1	X	-0.003	5.25
27	MP ALPHA3	Z	-0.000749	5.25
28	MP ALPHA3	X	-0.001	5.25
29	DISH1	Z	-0.016	0
30	DISH1	X	-0.007	0
31	DISH1	My	0.001	0

**Member Point Loads (BLC 20 : Maintenance (150))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.009	7.75
2	MP ALPHA1	Z	-0.009	2.75
3	MP ALPHA1	X	-0.005	7.75
4	MP ALPHA1	X	-0.005	2.75
5	MP BETA1	Z	-0.009	7.75
6	MP BETA1	Z	-0.009	2.75

**Member Point Loads (BLC 20 : Maintenance (150)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
7	MP BETA1	X	-0.005	7.75
8	MP BETA1	X	-0.005	2.75
9	MP GAMMA1	Z	-0.004	7.75
10	MP GAMMA1	Z	-0.004	2.75
11	MP GAMMA1	X	-0.002	7.75
12	MP GAMMA1	X	-0.002	2.75
13	MP ALPHA1	Z	-0.004	5.25
14	MP ALPHA1	X	-0.002	5.25
15	MP BETA1	Z	-0.004	5.25
16	MP BETA1	X	-0.002	5.25
17	MP GAMMA1	Z	-0.002	5.25
18	MP GAMMA1	X	-0.001	5.25
19	MP ALPHA1	Z	-0.004	5.25
20	MP ALPHA1	X	-0.002	5.25
21	MP BETA1	Z	-0.004	5.25
22	MP BETA1	X	-0.002	5.25
23	MP GAMMA1	Z	-0.003	5.25
24	MP GAMMA1	X	-0.002	5.25
25	MP ALPHA1	Z	-0.004	5.25
26	MP ALPHA1	X	-0.002	5.25
27	MP ALPHA3	Z	-0.002	5.25
28	MP ALPHA3	X	-0.001	5.25
29	DISH1	Z	-0.016	0
30	DISH1	X	-0.007	0
31	DISH1	My	0.000361	0

**Member Point Loads (BLC 21 : Maintenance (180))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.012	7.75
2	MP ALPHA1	Z	-0.012	2.75
3	MP BETA1	Z	-0.007	7.75
4	MP BETA1	Z	-0.007	2.75
5	MP GAMMA1	Z	-0.007	7.75
6	MP GAMMA1	Z	-0.007	2.75
7	MP ALPHA1	Z	-0.005	5.25
8	MP BETA1	Z	-0.003	5.25
9	MP GAMMA1	Z	-0.003	5.25
10	MP ALPHA1	Z	-0.005	5.25
11	MP BETA1	Z	-0.004	5.25
12	MP GAMMA1	Z	-0.004	5.25
13	MP ALPHA1	Z	-0.005	5.25
14	MP ALPHA3	Z	-0.003	5.25
15	DISH1	Z	-0.015	0
16	DISH1	X	-0.007	0
17	DISH1	My	-0.00094	0

**Member Point Loads (BLC 22 : Maintenance (210))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.009	7.75
2	MP ALPHA1	Z	-0.009	2.75
3	MP ALPHA1	X	0.005	7.75
4	MP ALPHA1	X	0.005	2.75
5	MP BETA1	Z	-0.004	7.75

**Member Point Loads (BLC 22 : Maintenance (210)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
6	MP BETA1	Z	-0.004	2.75
7	MP BETA1	X	0.002	7.75
8	MP BETA1	X	0.002	2.75
9	MP GAMMA1	Z	-0.009	7.75
10	MP GAMMA1	Z	-0.009	2.75
11	MP GAMMA1	X	0.005	7.75
12	MP GAMMA1	X	0.005	2.75
13	MP ALPHA1	Z	-0.004	5.25
14	MP ALPHA1	X	0.002	5.25
15	MP BETA1	Z	-0.002	5.25
16	MP BETA1	X	0.001	5.25
17	MP GAMMA1	Z	-0.004	5.25
18	MP GAMMA1	X	0.002	5.25
19	MP ALPHA1	Z	-0.004	5.25
20	MP ALPHA1	X	0.002	5.25
21	MP BETA1	Z	-0.003	5.25
22	MP BETA1	X	0.002	5.25
23	MP GAMMA1	Z	-0.004	5.25
24	MP GAMMA1	X	0.002	5.25
25	MP ALPHA1	Z	-0.004	5.25
26	MP ALPHA1	X	0.002	5.25
27	MP ALPHA3	Z	-0.002	5.25
28	MP ALPHA3	X	0.001	5.25
29	DISH1	Z	-0.017	0
30	DISH1	X	-0.006	0
31	DISH1	My	-0.002	0

**Member Point Loads (BLC 23 : Maintenance (240))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.003	7.75
2	MP ALPHA1	Z	-0.003	2.75
3	MP ALPHA1	X	0.006	7.75
4	MP ALPHA1	X	0.006	2.75
5	MP BETA1	Z	-0.003	7.75
6	MP BETA1	Z	-0.003	2.75
7	MP BETA1	X	0.006	7.75
8	MP BETA1	X	0.006	2.75
9	MP GAMMA1	Z	-0.006	7.75
10	MP GAMMA1	Z	-0.006	2.75
11	MP GAMMA1	X	0.01	7.75
12	MP GAMMA1	X	0.01	2.75
13	MP ALPHA1	Z	-0.002	5.25
14	MP ALPHA1	X	0.003	5.25
15	MP BETA1	Z	-0.002	5.25
16	MP BETA1	X	0.003	5.25
17	MP GAMMA1	Z	-0.003	5.25
18	MP GAMMA1	X	0.005	5.25
19	MP ALPHA1	Z	-0.002	5.25
20	MP ALPHA1	X	0.003	5.25
21	MP BETA1	Z	-0.002	5.25
22	MP BETA1	X	0.003	5.25
23	MP GAMMA1	Z	-0.003	5.25
24	MP GAMMA1	X	0.005	5.25
25	MP ALPHA1	Z	-0.002	5.25
26	MP ALPHA1	X	0.003	5.25

**Member Point Loads (BLC 23 : Maintenance (240)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
27	MP ALPHA3	Z	-0.000749	5.25
28	MP ALPHA3	X	0.001	5.25
29	DISH1	Z	-0.006	0
30	DISH1	X	0.002	0
31	DISH1	My	0.003	0

**Member Point Loads (BLC 24 : Maintenance (270))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	0.005	7.75
2	MP ALPHA1	X	0.005	2.75
3	MP BETA1	X	0.01	7.75
4	MP BETA1	X	0.01	2.75
5	MP GAMMA1	X	0.01	7.75
6	MP GAMMA1	X	0.01	2.75
7	MP ALPHA1	X	0.003	5.25
8	MP BETA1	X	0.005	5.25
9	MP GAMMA1	X	0.005	5.25
10	MP ALPHA1	X	0.003	5.25
11	MP BETA1	X	0.005	5.25
12	MP GAMMA1	X	0.005	5.25
13	MP ALPHA1	X	0.003	5.25
14	MP ALPHA3	X	0.000998	5.25
15	DISH1	Z	0.003	0
16	DISH1	X	0.006	0
17	DISH1	My	0.003	0

**Member Point Loads (BLC 25 : Maintenance (300))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.003	7.75
2	MP ALPHA1	Z	0.003	2.75
3	MP ALPHA1	X	0.006	7.75
4	MP ALPHA1	X	0.006	2.75
5	MP BETA1	Z	0.006	7.75
6	MP BETA1	Z	0.006	2.75
7	MP BETA1	X	0.01	7.75
8	MP BETA1	X	0.01	2.75
9	MP GAMMA1	Z	0.003	7.75
10	MP GAMMA1	Z	0.003	2.75
11	MP GAMMA1	X	0.006	7.75
12	MP GAMMA1	X	0.006	2.75
13	MP ALPHA1	Z	0.002	5.25
14	MP ALPHA1	X	0.003	5.25
15	MP BETA1	Z	0.003	5.25
16	MP BETA1	X	0.005	5.25
17	MP GAMMA1	Z	0.002	5.25
18	MP GAMMA1	X	0.003	5.25
19	MP ALPHA1	Z	0.002	5.25
20	MP ALPHA1	X	0.003	5.25
21	MP BETA1	Z	0.003	5.25
22	MP BETA1	X	0.005	5.25
23	MP GAMMA1	Z	0.002	5.25
24	MP GAMMA1	X	0.003	5.25
25	MP ALPHA1	Z	0.002	5.25

**Member Point Loads (BLC 25 : Maintenance (300)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
26	MP ALPHA1	X	0.003	5.25
27	MP ALPHA3	Z	0.000749	5.25
28	MP ALPHA3	X	0.001	5.25
29	DISH1	Z	0.005	0
30	DISH1	X	0.007	0
31	DISH1	My	0.003	0

**Member Point Loads (BLC 26 : Maintenance (330))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.009	7.75
2	MP ALPHA1	Z	0.009	2.75
3	MP ALPHA1	X	0.005	7.75
4	MP ALPHA1	X	0.005	2.75
5	MP BETA1	Z	0.009	7.75
6	MP BETA1	Z	0.009	2.75
7	MP BETA1	X	0.005	7.75
8	MP BETA1	X	0.005	2.75
9	MP GAMMA1	Z	0.004	7.75
10	MP GAMMA1	Z	0.004	2.75
11	MP GAMMA1	X	0.002	7.75
12	MP GAMMA1	X	0.002	2.75
13	MP ALPHA1	Z	0.004	5.25
14	MP ALPHA1	X	0.002	5.25
15	MP BETA1	Z	0.004	5.25
16	MP BETA1	X	0.002	5.25
17	MP GAMMA1	Z	0.002	5.25
18	MP GAMMA1	X	0.001	5.25
19	MP ALPHA1	Z	0.004	5.25
20	MP ALPHA1	X	0.002	5.25
21	MP BETA1	Z	0.004	5.25
22	MP BETA1	X	0.002	5.25
23	MP GAMMA1	Z	0.003	5.25
24	MP GAMMA1	X	0.002	5.25
25	MP ALPHA1	Z	0.004	5.25
26	MP ALPHA1	X	0.002	5.25
27	MP ALPHA3	Z	0.002	5.25
28	MP ALPHA3	X	0.001	5.25
29	DISH1	Z	0.01	0
30	DISH1	X	0.005	0
31	DISH1	My	0.000723	0

**Member Point Loads (BLC 27 : Ice Dead Load)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Y	-0.091	7.75
2	MP ALPHA1	Y	-0.091	2.75
3	MP BETA1	Y	-0.091	7.75
4	MP BETA1	Y	-0.091	2.75
5	MP GAMMA1	Y	-0.091	7.75
6	MP GAMMA1	Y	-0.091	2.75
7	MP ALPHA1	Y	-0.043	5.25
8	MP BETA1	Y	-0.043	5.25
9	MP GAMMA1	Y	-0.043	5.25
10	MP ALPHA1	Y	-0.046	5.25

**Member Point Loads (BLC 27 : Ice Dead Load) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
11	MP BETA1	Y	-0.046	5.25
12	MP GAMMA1	Y	-0.046	5.25
13	MP ALPHA1	Y	-0.045	5.25
14	MP ALPHA3	Y	-0.021	5.25
15	DISH1	Y	-0.079	0

**Member Point Loads (BLC 28 : Ice Wind Load (0))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.034	7.75
2	MP ALPHA1	Z	0.034	2.75
3	MP BETA1	Z	0.02	7.75
4	MP BETA1	Z	0.02	2.75
5	MP GAMMA1	Z	0.02	7.75
6	MP GAMMA1	Z	0.02	2.75
7	MP ALPHA1	Z	0.011	5.25
8	MP BETA1	Z	0.008	5.25
9	MP GAMMA1	Z	0.008	5.25
10	MP ALPHA1	Z	0.011	5.25
11	MP BETA1	Z	0.008	5.25
12	MP GAMMA1	Z	0.008	5.25
13	MP ALPHA1	Z	0.012	5.25
14	MP ALPHA3	Z	0.007	5.25
15	DISH1	Z	0.032	0
16	DISH1	X	0.001	0
17	DISH1	My	-0.008	0

**Member Point Loads (BLC 29 : Ice Wind Load (30))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.026	7.75
2	MP ALPHA1	Z	0.026	2.75
3	MP ALPHA1	X	-0.015	7.75
4	MP ALPHA1	X	-0.015	2.75
5	MP BETA1	Z	0.014	7.75
6	MP BETA1	Z	0.014	2.75
7	MP BETA1	X	-0.008	7.75
8	MP BETA1	X	-0.008	2.75
9	MP GAMMA1	Z	0.026	7.75
10	MP GAMMA1	Z	0.026	2.75
11	MP GAMMA1	X	-0.015	7.75
12	MP GAMMA1	X	-0.015	2.75
13	MP ALPHA1	Z	0.009	5.25
14	MP ALPHA1	X	-0.005	5.25
15	MP BETA1	Z	0.006	5.25
16	MP BETA1	X	-0.003	5.25
17	MP GAMMA1	Z	0.009	5.25
18	MP GAMMA1	X	-0.005	5.25
19	MP ALPHA1	Z	0.009	5.25
20	MP ALPHA1	X	-0.005	5.25
21	MP BETA1	Z	0.006	5.25
22	MP BETA1	X	-0.004	5.25
23	MP GAMMA1	Z	0.009	5.25
24	MP GAMMA1	X	-0.005	5.25
25	MP ALPHA1	Z	0.009	5.25

**Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
26	MP ALPHA1	X	-0.005	5.25
27	MP ALPHA3	Z	0.005	5.25
28	MP ALPHA3	X	-0.003	5.25
29	DISH1	Z	0.022	0
30	DISH1	X	-0.008	0
31	DISH1	My	-0.012	0

**Member Point Loads (BLC 30 : Ice Wind Load (60))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.01	7.75
2	MP ALPHA1	Z	0.01	2.75
3	MP ALPHA1	X	-0.018	7.75
4	MP ALPHA1	X	-0.018	2.75
5	MP BETA1	Z	0.01	7.75
6	MP BETA1	Z	0.01	2.75
7	MP BETA1	X	-0.018	7.75
8	MP BETA1	X	-0.018	2.75
9	MP GAMMA1	Z	0.017	7.75
10	MP GAMMA1	Z	0.017	2.75
11	MP GAMMA1	X	-0.03	7.75
12	MP GAMMA1	X	-0.03	2.75
13	MP ALPHA1	Z	0.004	5.25
14	MP ALPHA1	X	-0.007	5.25
15	MP BETA1	Z	0.004	5.25
16	MP BETA1	X	-0.007	5.25
17	MP GAMMA1	Z	0.006	5.25
18	MP GAMMA1	X	-0.01	5.25
19	MP ALPHA1	Z	0.004	5.25
20	MP ALPHA1	X	-0.007	5.25
21	MP BETA1	Z	0.004	5.25
22	MP BETA1	X	-0.007	5.25
23	MP GAMMA1	Z	0.006	5.25
24	MP GAMMA1	X	-0.01	5.25
25	MP ALPHA1	Z	0.004	5.25
26	MP ALPHA1	X	-0.007	5.25
27	MP ALPHA3	Z	0.002	5.25
28	MP ALPHA3	X	-0.004	5.25
29	DISH1	Z	0.014	0
30	DISH1	X	-0.008	0
31	DISH1	My	-0.011	0

**Member Point Loads (BLC 31 : Ice Wind Load (90))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	-0.016	7.75
2	MP ALPHA1	X	-0.016	2.75
3	MP BETA1	X	-0.03	7.75
4	MP BETA1	X	-0.03	2.75
5	MP GAMMA1	X	-0.03	7.75
6	MP GAMMA1	X	-0.03	2.75
7	MP ALPHA1	X	-0.006	5.25
8	MP BETA1	X	-0.01	5.25
9	MP GAMMA1	X	-0.01	5.25
10	MP ALPHA1	X	-0.007	5.25



**Member Point Loads (BLC 31 : Ice Wind Load (90)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
11	MP BETA1	X	-0.01	5.25
12	MP GAMMA1	X	-0.01	5.25
13	MP ALPHA1	X	-0.007	5.25
14	MP ALPHA3	X	-0.003	5.25
15	DISH1	Z	-0.043	0
16	DISH1	X	-0.034	0
17	DISH1	My	0.003	0

**Member Point Loads (BLC 32 : Ice Wind Load (120))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.01	7.75
2	MP ALPHA1	Z	-0.01	2.75
3	MP ALPHA1	X	-0.018	7.75
4	MP ALPHA1	X	-0.018	2.75
5	MP BETA1	Z	-0.017	7.75
6	MP BETA1	Z	-0.017	2.75
7	MP BETA1	X	-0.03	7.75
8	MP BETA1	X	-0.03	2.75
9	MP GAMMA1	Z	-0.01	7.75
10	MP GAMMA1	Z	-0.01	2.75
11	MP GAMMA1	X	-0.018	7.75
12	MP GAMMA1	X	-0.018	2.75
13	MP ALPHA1	Z	-0.004	5.25
14	MP ALPHA1	X	-0.007	5.25
15	MP BETA1	Z	-0.006	5.25
16	MP BETA1	X	-0.01	5.25
17	MP GAMMA1	Z	-0.004	5.25
18	MP GAMMA1	X	-0.007	5.25
19	MP ALPHA1	Z	-0.004	5.25
20	MP ALPHA1	X	-0.007	5.25
21	MP BETA1	Z	-0.006	5.25
22	MP BETA1	X	-0.01	5.25
23	MP GAMMA1	Z	-0.004	5.25
24	MP GAMMA1	X	-0.007	5.25
25	MP ALPHA1	Z	-0.004	5.25
26	MP ALPHA1	X	-0.007	5.25
27	MP ALPHA3	Z	-0.002	5.25
28	MP ALPHA3	X	-0.004	5.25
29	DISH1	Z	-0.052	0
30	DISH1	X	-0.023	0
31	DISH1	My	0.004	0

**Member Point Loads (BLC 33 : Ice Wind Load (150))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.026	7.75
2	MP ALPHA1	Z	-0.026	2.75
3	MP ALPHA1	X	-0.015	7.75
4	MP ALPHA1	X	-0.015	2.75
5	MP BETA1	Z	-0.026	7.75
6	MP BETA1	Z	-0.026	2.75
7	MP BETA1	X	-0.015	7.75
8	MP BETA1	X	-0.015	2.75
9	MP GAMMA1	Z	-0.014	7.75

**Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
10	MP GAMMA1	Z	-0.014	2.75
11	MP GAMMA1	X	-0.008	7.75
12	MP GAMMA1	X	-0.008	2.75
13	MP ALPHA1	Z	-0.009	5.25
14	MP ALPHA1	X	-0.005	5.25
15	MP BETA1	Z	-0.009	5.25
16	MP BETA1	X	-0.005	5.25
17	MP GAMMA1	Z	-0.006	5.25
18	MP GAMMA1	X	-0.003	5.25
19	MP ALPHA1	Z	-0.009	5.25
20	MP ALPHA1	X	-0.005	5.25
21	MP BETA1	Z	-0.009	5.25
22	MP BETA1	X	-0.005	5.25
23	MP GAMMA1	Z	-0.006	5.25
24	MP GAMMA1	X	-0.004	5.25
25	MP ALPHA1	Z	-0.009	5.25
26	MP ALPHA1	X	-0.005	5.25
27	MP ALPHA3	Z	-0.005	5.25
28	MP ALPHA3	X	-0.003	5.25
29	DISH1	Z	-0.051	0
30	DISH1	X	-0.022	0
31	DISH1	My	0.001	0

**Member Point Loads (BLC 34 : Ice Wind Load (180))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.034	7.75
2	MP ALPHA1	Z	-0.034	2.75
3	MP BETA1	Z	-0.02	7.75
4	MP BETA1	Z	-0.02	2.75
5	MP GAMMA1	Z	-0.02	7.75
6	MP GAMMA1	Z	-0.02	2.75
7	MP ALPHA1	Z	-0.011	5.25
8	MP BETA1	Z	-0.008	5.25
9	MP GAMMA1	Z	-0.008	5.25
10	MP ALPHA1	Z	-0.011	5.25
11	MP BETA1	Z	-0.008	5.25
12	MP GAMMA1	Z	-0.008	5.25
13	MP ALPHA1	Z	-0.012	5.25
14	MP ALPHA3	Z	-0.007	5.25
15	DISH1	Z	-0.05	0
16	DISH1	X	-0.024	0
17	DISH1	My	-0.003	0

**Member Point Loads (BLC 35 : Ice Wind Load (210))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.026	7.75
2	MP ALPHA1	Z	-0.026	2.75
3	MP ALPHA1	X	0.015	7.75
4	MP ALPHA1	X	0.015	2.75
5	MP BETA1	Z	-0.014	7.75
6	MP BETA1	Z	-0.014	2.75
7	MP BETA1	X	0.008	7.75
8	MP BETA1	X	0.008	2.75

**Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
9	MP GAMMA1	Z	-0.026	7.75
10	MP GAMMA1	Z	-0.026	2.75
11	MP GAMMA1	X	0.015	7.75
12	MP GAMMA1	X	0.015	2.75
13	MP ALPHA1	Z	-0.009	5.25
14	MP ALPHA1	X	0.005	5.25
15	MP BETA1	Z	-0.006	5.25
16	MP BETA1	X	0.003	5.25
17	MP GAMMA1	Z	-0.009	5.25
18	MP GAMMA1	X	0.005	5.25
19	MP ALPHA1	Z	-0.009	5.25
20	MP ALPHA1	X	0.005	5.25
21	MP BETA1	Z	-0.006	5.25
22	MP BETA1	X	0.004	5.25
23	MP GAMMA1	Z	-0.009	5.25
24	MP GAMMA1	X	0.005	5.25
25	MP ALPHA1	Z	-0.009	5.25
26	MP ALPHA1	X	0.005	5.25
27	MP ALPHA3	Z	-0.005	5.25
28	MP ALPHA3	X	0.003	5.25
29	DISH1	Z	-0.057	0
30	DISH1	X	-0.019	0
31	DISH1	My	-0.006	0

**Member Point Loads (BLC 36 : Ice Wind Load (240))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	-0.01	7.75
2	MP ALPHA1	Z	-0.01	2.75
3	MP ALPHA1	X	0.018	7.75
4	MP ALPHA1	X	0.018	2.75
5	MP BETA1	Z	-0.01	7.75
6	MP BETA1	Z	-0.01	2.75
7	MP BETA1	X	0.018	7.75
8	MP BETA1	X	0.018	2.75
9	MP GAMMA1	Z	-0.017	7.75
10	MP GAMMA1	Z	-0.017	2.75
11	MP GAMMA1	X	0.03	7.75
12	MP GAMMA1	X	0.03	2.75
13	MP ALPHA1	Z	-0.004	5.25
14	MP ALPHA1	X	0.007	5.25
15	MP BETA1	Z	-0.004	5.25
16	MP BETA1	X	0.007	5.25
17	MP GAMMA1	Z	-0.006	5.25
18	MP GAMMA1	X	0.01	5.25
19	MP ALPHA1	Z	-0.004	5.25
20	MP ALPHA1	X	0.007	5.25
21	MP BETA1	Z	-0.004	5.25
22	MP BETA1	X	0.007	5.25
23	MP GAMMA1	Z	-0.006	5.25
24	MP GAMMA1	X	0.01	5.25
25	MP ALPHA1	Z	-0.004	5.25
26	MP ALPHA1	X	0.007	5.25
27	MP ALPHA3	Z	-0.002	5.25
28	MP ALPHA3	X	0.004	5.25
29	DISH1	Z	-0.02	0

**Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
30	DISH1	X	0.005	0
31	DISH1	My	0.01	0

**Member Point Loads (BLC 37 : Ice Wind Load (270))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	0.016	7.75
2	MP ALPHA1	X	0.016	2.75
3	MP BETA1	X	0.03	7.75
4	MP BETA1	X	0.03	2.75
5	MP GAMMA1	X	0.03	7.75
6	MP GAMMA1	X	0.03	2.75
7	MP ALPHA1	X	0.006	5.25
8	MP BETA1	X	0.01	5.25
9	MP GAMMA1	X	0.01	5.25
10	MP ALPHA1	X	0.007	5.25
11	MP BETA1	X	0.01	5.25
12	MP GAMMA1	X	0.01	5.25
13	MP ALPHA1	X	0.007	5.25
14	MP ALPHA3	X	0.003	5.25
15	DISH1	Z	0.009	0
16	DISH1	X	0.021	0
17	DISH1	My	0.012	0

**Member Point Loads (BLC 38 : Ice Wind Load (300))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.01	7.75
2	MP ALPHA1	Z	0.01	2.75
3	MP ALPHA1	X	0.018	7.75
4	MP ALPHA1	X	0.018	2.75
5	MP BETA1	Z	0.017	7.75
6	MP BETA1	Z	0.017	2.75
7	MP BETA1	X	0.03	7.75
8	MP BETA1	X	0.03	2.75
9	MP GAMMA1	Z	0.01	7.75
10	MP GAMMA1	Z	0.01	2.75
11	MP GAMMA1	X	0.018	7.75
12	MP GAMMA1	X	0.018	2.75
13	MP ALPHA1	Z	0.004	5.25
14	MP ALPHA1	X	0.007	5.25
15	MP BETA1	Z	0.006	5.25
16	MP BETA1	X	0.01	5.25
17	MP GAMMA1	Z	0.004	5.25
18	MP GAMMA1	X	0.007	5.25
19	MP ALPHA1	Z	0.004	5.25
20	MP ALPHA1	X	0.007	5.25
21	MP BETA1	Z	0.006	5.25
22	MP BETA1	X	0.01	5.25
23	MP GAMMA1	Z	0.004	5.25
24	MP GAMMA1	X	0.007	5.25
25	MP ALPHA1	Z	0.004	5.25
26	MP ALPHA1	X	0.007	5.25
27	MP ALPHA3	Z	0.002	5.25
28	MP ALPHA3	X	0.004	5.25

**Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
29	DISH1	Z	0.015	0
30	DISH1	X	0.024	0
31	DISH1	My	0.01	0

**Member Point Loads (BLC 39 : Ice Wind Load (330))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.026	7.75
2	MP ALPHA1	Z	0.026	2.75
3	MP ALPHA1	X	0.015	7.75
4	MP ALPHA1	X	0.015	2.75
5	MP BETA1	Z	0.026	7.75
6	MP BETA1	Z	0.026	2.75
7	MP BETA1	X	0.015	7.75
8	MP BETA1	X	0.015	2.75
9	MP GAMMA1	Z	0.014	7.75
10	MP GAMMA1	Z	0.014	2.75
11	MP GAMMA1	X	0.008	7.75
12	MP GAMMA1	X	0.008	2.75
13	MP ALPHA1	Z	0.009	5.25
14	MP ALPHA1	X	0.005	5.25
15	MP BETA1	Z	0.009	5.25
16	MP BETA1	X	0.005	5.25
17	MP GAMMA1	Z	0.006	5.25
18	MP GAMMA1	X	0.003	5.25
19	MP ALPHA1	Z	0.009	5.25
20	MP ALPHA1	X	0.005	5.25
21	MP BETA1	Z	0.009	5.25
22	MP BETA1	X	0.005	5.25
23	MP GAMMA1	Z	0.006	5.25
24	MP GAMMA1	X	0.004	5.25
25	MP ALPHA1	Z	0.009	5.25
26	MP ALPHA1	X	0.005	5.25
27	MP ALPHA3	Z	0.005	5.25
28	MP ALPHA3	X	0.003	5.25
29	DISH1	Z	0.031	0
30	DISH1	X	0.017	0
31	DISH1	My	0.003	0

**Member Point Loads (BLC 40 : Earthquake (x-direction))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	X	-0.005	7.75
2	MP ALPHA1	X	-0.005	2.75
3	MP BETA1	X	-0.005	7.75
4	MP BETA1	X	-0.005	2.75
5	MP GAMMA1	X	-0.005	7.75
6	MP GAMMA1	X	-0.005	2.75
7	MP ALPHA1	X	-0.007	5.25
8	MP BETA1	X	-0.007	5.25
9	MP GAMMA1	X	-0.007	5.25
10	MP ALPHA1	X	-0.009	5.25
11	MP BETA1	X	-0.009	5.25
12	MP GAMMA1	X	-0.009	5.25
13	MP ALPHA1	X	-0.002	5.25

**Member Point Loads (BLC 40 : Earthquake (x-direction)) (Continued)**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
14	MP ALPHA3	X	-0.002	5.25
15	DISH1	X	-0.002	0

**Member Point Loads (BLC 41 : Earthquake (y-direction))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Y	-0.002	7.75
2	MP ALPHA1	Y	-0.002	2.75
3	MP BETA1	Y	-0.002	7.75
4	MP BETA1	Y	-0.002	2.75
5	MP GAMMA1	Y	-0.002	7.75
6	MP GAMMA1	Y	-0.002	2.75
7	MP ALPHA1	Y	-0.003	5.25
8	MP BETA1	Y	-0.003	5.25
9	MP GAMMA1	Y	-0.003	5.25
10	MP ALPHA1	Y	-0.003	5.25
11	MP BETA1	Y	-0.003	5.25
12	MP GAMMA1	Y	-0.003	5.25
13	MP ALPHA1	Y	-0.000993	5.25
14	MP ALPHA3	Y	-0.0006	5.25
15	DISH1	Y	-0.0008	0

**Member Point Loads (BLC 42 : Earthquake (z-direction))**

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	MP ALPHA1	Z	0.005	7.75
2	MP ALPHA1	Z	0.005	2.75
3	MP BETA1	Z	0.005	7.75
4	MP BETA1	Z	0.005	2.75
5	MP GAMMA1	Z	0.005	7.75
6	MP GAMMA1	Z	0.005	2.75
7	MP ALPHA1	Z	0.007	5.25
8	MP BETA1	Z	0.007	5.25
9	MP GAMMA1	Z	0.007	5.25
10	MP ALPHA1	Z	0.009	5.25
11	MP BETA1	Z	0.009	5.25
12	MP GAMMA1	Z	0.009	5.25
13	MP ALPHA1	Z	0.002	5.25
14	MP ALPHA3	Z	0.002	5.25
15	DISH1	Z	0.002	0

**Member Distributed Loads (BLC 2 : Wind Load (0))**

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.011	0.011	0	%100
2	CR2	PZ	0.011	0.011	0	%100
3	CR3	PZ	0.011	0.011	0	%100
4	CR4	PZ	0.011	0.011	0	%100
5	CR5	PZ	0.011	0.011	0	%100
6	CR6	PZ	0.011	0.011	0	%100
7	FACE1	PZ	0.005	0.005	0	%100
8	FACE2	PZ	0.009	0.009	0	%100
9	FACE3	PZ	0.009	0.009	0	%100
10	GRAT SUP1	PZ	0.007	0.007	0	%100
11	GRAT SUP2	PZ	0.007	0.007	0	%100

**Member Distributed Loads (BLC 2 : Wind Load (0)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
12	GRAT SUP3	PZ	0.007	0.007	0	%100
13	GRAT SUP4	PZ	0.007	0.007	0	%100
14	GRAT SUP5	PZ	0.007	0.007	0	%100
15	GRAT SUP6	PZ	0.007	0.007	0	%100
16	MP ALPHA1	PZ	0.01	0.01	0	%100
17	MP ALPHA2	PZ	0.01	0.01	0	%100
18	MP ALPHA3	PZ	0.01	0.01	0	%100
19	MP BETA1	PZ	0.01	0.01	0	%100
20	MP BETA2	PZ	0.01	0.01	0	%100
21	MP BETA3	PZ	0.01	0.01	0	%100
22	MP GAMMA1	PZ	0.01	0.01	0	%100
23	MP GAMMA2	PZ	0.01	0.01	0	%100
24	MP GAMMA3	PZ	0.01	0.01	0	%100
25	PL1	PZ	0.044	0.044	0	%100
26	PL2	PZ	0.022	0.022	0	%100
27	PL3	PZ	0.022	0.022	0	%100
28	RAIL CON1	PZ	0.045	0.045	0	%100
29	RAIL CON2	PZ	0.022	0.022	0	%100
30	RAIL CON3	PZ	0.022	0.022	0	%100
31	RAIL1	PZ	0.004	0.004	0	%100
32	RAIL2	PZ	0.008	0.008	0	%100
33	RAIL3	PZ	0.008	0.008	0	%100
34	SMPL1	PZ	0.017	0.017	0	%100
35	SMPL2	PZ	0.017	0.017	0	%100
36	SMPL3	PZ	0.017	0.017	0	%100
37	SMPL4	PZ	0.017	0.017	0	%100
38	SMPL5	PZ	0.017	0.017	0	%100
39	SMPL6	PZ	0.017	0.017	0	%100
40	SMPL7	PZ	0.017	0.017	0	%100
41	SMPL8	PZ	0.017	0.017	0	%100
42	SMPL9	PZ	0.017	0.017	0	%100
43	SMPL10	PZ	0.017	0.017	0	%100
44	SMPL11	PZ	0.017	0.017	0	%100
45	SMPL12	PZ	0.017	0.017	0	%100
46	SO1	PZ	0.008	0.008	0	%100
47	SO2	PZ	0.008	0.008	0	%100
48	SO3	PZ	0.008	0.008	0	%100

**Member Distributed Loads (BLC 4 : Wind Load (30))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.01	0.01	0	%100
2	CR2	PZ	0.01	0.01	0	%100
3	CR3	PZ	0.01	0.01	0	%100
4	CR4	PZ	0.01	0.01	0	%100
5	CR5	PZ	0.01	0.01	0	%100
6	CR6	PZ	0.01	0.01	0	%100
7	FACE1	PZ	0.004	0.004	0	%100
8	FACE2	PZ	0.008	0.008	0	%100
9	FACE3	PZ	0.008	0.008	0	%100
10	GRAT SUP1	PZ	0.006	0.006	0	%100
11	GRAT SUP2	PZ	0.006	0.006	0	%100
12	GRAT SUP3	PZ	0.006	0.006	0	%100
13	GRAT SUP4	PZ	0.006	0.006	0	%100
14	GRAT SUP5	PZ	0.006	0.006	0	%100
15	GRAT SUP6	PZ	0.006	0.006	0	%100

**Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	MP ALPHA1	PZ	0.008	0.008	0 %100
17	MP ALPHA2	PZ	0.008	0.008	0 %100
18	MP ALPHA3	PZ	0.008	0.008	0 %100
19	MP BETA1	PZ	0.008	0.008	0 %100
20	MP BETA2	PZ	0.008	0.008	0 %100
21	MP BETA3	PZ	0.008	0.008	0 %100
22	MP GAMMA1	PZ	0.008	0.008	0 %100
23	MP GAMMA2	PZ	0.008	0.008	0 %100
24	MP GAMMA3	PZ	0.008	0.008	0 %100
25	PL1	PZ	0.038	0.038	0 %100
26	PL2	PZ	0.019	0.019	0 %100
27	PL3	PZ	0.019	0.019	0 %100
28	RAIL CON1	PZ	0.039	0.039	0 %100
29	RAIL CON2	PZ	0.019	0.019	0 %100
30	RAIL CON3	PZ	0.019	0.019	0 %100
31	RAIL1	PZ	0.003	0.003	0 %100
32	RAIL2	PZ	0.007	0.007	0 %100
33	RAIL3	PZ	0.007	0.007	0 %100
34	SMPL1	PZ	0.015	0.015	0 %100
35	SMPL2	PZ	0.015	0.015	0 %100
36	SMPL3	PZ	0.015	0.015	0 %100
37	SMPL4	PZ	0.015	0.015	0 %100
38	SMPL5	PZ	0.015	0.015	0 %100
39	SMPL6	PZ	0.015	0.015	0 %100
40	SMPL7	PZ	0.015	0.015	0 %100
41	SMPL8	PZ	0.015	0.015	0 %100
42	SMPL9	PZ	0.015	0.015	0 %100
43	SMPL10	PZ	0.015	0.015	0 %100
44	SMPL11	PZ	0.015	0.015	0 %100
45	SMPL12	PZ	0.015	0.015	0 %100
46	SO1	PZ	0.007	0.007	0 %100
47	SO2	PZ	0.007	0.007	0 %100
48	SO3	PZ	0.007	0.007	0 %100
49	CR1	PX	-0.006	-0.006	0 %100
50	CR2	PX	-0.006	-0.006	0 %100
51	CR3	PX	-0.006	-0.006	0 %100
52	CR4	PX	-0.006	-0.006	0 %100
53	CR5	PX	-0.006	-0.006	0 %100
54	CR6	PX	-0.006	-0.006	0 %100
55	FACE1	PX	-0.002	-0.002	0 %100
56	FACE2	PX	-0.005	-0.005	0 %100
57	FACE3	PX	-0.005	-0.005	0 %100
58	GRAT SUP1	PX	-0.003	-0.003	0 %100
59	GRAT SUP2	PX	-0.003	-0.003	0 %100
60	GRAT SUP3	PX	-0.003	-0.003	0 %100
61	GRAT SUP4	PX	-0.003	-0.003	0 %100
62	GRAT SUP5	PX	-0.003	-0.003	0 %100
63	GRAT SUP6	PX	-0.003	-0.003	0 %100
64	MP ALPHA1	PX	-0.005	-0.005	0 %100
65	MP ALPHA2	PX	-0.005	-0.005	0 %100
66	MP ALPHA3	PX	-0.005	-0.005	0 %100
67	MP BETA1	PX	-0.005	-0.005	0 %100
68	MP BETA2	PX	-0.005	-0.005	0 %100
69	MP BETA3	PX	-0.005	-0.005	0 %100
70	MP GAMMA1	PX	-0.005	-0.005	0 %100



**Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP GAMMA2	PX	-0.005	-0.005	0	%100
72	MP GAMMA3	PX	-0.005	-0.005	0	%100
73	PL1	PX	-0.022	-0.022	0	%100
74	PL2	PX	-0.011	-0.011	0	%100
75	PL3	PX	-0.011	-0.011	0	%100
76	RAIL CON1	PX	-0.022	-0.022	0	%100
77	RAIL CON2	PX	-0.011	-0.011	0	%100
78	RAIL CON3	PX	-0.011	-0.011	0	%100
79	RAIL1	PX	-0.002	-0.002	0	%100
80	RAIL2	PX	-0.004	-0.004	0	%100
81	RAIL3	PX	-0.004	-0.004	0	%100
82	SMPL1	PX	-0.008	-0.008	0	%100
83	SMPL2	PX	-0.008	-0.008	0	%100
84	SMPL3	PX	-0.008	-0.008	0	%100
85	SMPL4	PX	-0.008	-0.008	0	%100
86	SMPL5	PX	-0.008	-0.008	0	%100
87	SMPL6	PX	-0.008	-0.008	0	%100
88	SMPL7	PX	-0.008	-0.008	0	%100
89	SMPL8	PX	-0.008	-0.008	0	%100
90	SMPL9	PX	-0.008	-0.008	0	%100
91	SMPL10	PX	-0.008	-0.008	0	%100
92	SMPL11	PX	-0.008	-0.008	0	%100
93	SMPL12	PX	-0.008	-0.008	0	%100
94	SO1	PX	-0.004	-0.004	0	%100
95	SO2	PX	-0.004	-0.004	0	%100
96	SO3	PX	-0.004	-0.004	0	%100

**Member Distributed Loads (BLC 5 : Wind Load (60))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.006	0.006	0	%100
2	CR2	PZ	0.006	0.006	0	%100
3	CR3	PZ	0.006	0.006	0	%100
4	CR4	PZ	0.006	0.006	0	%100
5	CR5	PZ	0.006	0.006	0	%100
6	CR6	PZ	0.006	0.006	0	%100
7	FACE1	PZ	0.002	0.002	0	%100
8	FACE2	PZ	0.005	0.005	0	%100
9	FACE3	PZ	0.005	0.005	0	%100
10	GRAT SUP1	PZ	0.003	0.003	0	%100
11	GRAT SUP2	PZ	0.003	0.003	0	%100
12	GRAT SUP3	PZ	0.003	0.003	0	%100
13	GRAT SUP4	PZ	0.003	0.003	0	%100
14	GRAT SUP5	PZ	0.003	0.003	0	%100
15	GRAT SUP6	PZ	0.003	0.003	0	%100
16	MP ALPHA1	PZ	0.005	0.005	0	%100
17	MP ALPHA2	PZ	0.005	0.005	0	%100
18	MP ALPHA3	PZ	0.005	0.005	0	%100
19	MP BETA1	PZ	0.005	0.005	0	%100
20	MP BETA2	PZ	0.005	0.005	0	%100
21	MP BETA3	PZ	0.005	0.005	0	%100
22	MP GAMMA1	PZ	0.005	0.005	0	%100
23	MP GAMMA2	PZ	0.005	0.005	0	%100
24	MP GAMMA3	PZ	0.005	0.005	0	%100
25	PL1	PZ	0.022	0.022	0	%100
26	PL2	PZ	0.011	0.011	0	%100

**Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	PL3	PZ	0.011	0.011	0	%100
28	RAIL CON1	PZ	0.022	0.022	0	%100
29	RAIL CON2	PZ	0.011	0.011	0	%100
30	RAIL CON3	PZ	0.011	0.011	0	%100
31	RAIL1	PZ	0.002	0.002	0	%100
32	RAIL2	PZ	0.004	0.004	0	%100
33	RAIL3	PZ	0.004	0.004	0	%100
34	SMPL1	PZ	0.008	0.008	0	%100
35	SMPL2	PZ	0.008	0.008	0	%100
36	SMPL3	PZ	0.008	0.008	0	%100
37	SMPL4	PZ	0.008	0.008	0	%100
38	SMPL5	PZ	0.008	0.008	0	%100
39	SMPL6	PZ	0.008	0.008	0	%100
40	SMPL7	PZ	0.008	0.008	0	%100
41	SMPL8	PZ	0.008	0.008	0	%100
42	SMPL9	PZ	0.008	0.008	0	%100
43	SMPL10	PZ	0.008	0.008	0	%100
44	SMPL11	PZ	0.008	0.008	0	%100
45	SMPL12	PZ	0.008	0.008	0	%100
46	SO1	PZ	0.004	0.004	0	%100
47	SO2	PZ	0.004	0.004	0	%100
48	SO3	PZ	0.004	0.004	0	%100
49	CR1	PX	-0.01	-0.01	0	%100
50	CR2	PX	-0.01	-0.01	0	%100
51	CR3	PX	-0.01	-0.01	0	%100
52	CR4	PX	-0.01	-0.01	0	%100
53	CR5	PX	-0.01	-0.01	0	%100
54	CR6	PX	-0.01	-0.01	0	%100
55	FACE1	PX	-0.004	-0.004	0	%100
56	FACE2	PX	-0.008	-0.008	0	%100
57	FACE3	PX	-0.008	-0.008	0	%100
58	GRAT SUP1	PX	-0.006	-0.006	0	%100
59	GRAT SUP2	PX	-0.006	-0.006	0	%100
60	GRAT SUP3	PX	-0.006	-0.006	0	%100
61	GRAT SUP4	PX	-0.006	-0.006	0	%100
62	GRAT SUP5	PX	-0.006	-0.006	0	%100
63	GRAT SUP6	PX	-0.006	-0.006	0	%100
64	MP ALPHA1	PX	-0.008	-0.008	0	%100
65	MP ALPHA2	PX	-0.008	-0.008	0	%100
66	MP ALPHA3	PX	-0.008	-0.008	0	%100
67	MP BETA1	PX	-0.008	-0.008	0	%100
68	MP BETA2	PX	-0.008	-0.008	0	%100
69	MP BETA3	PX	-0.008	-0.008	0	%100
70	MP GAMMA1	PX	-0.008	-0.008	0	%100
71	MP GAMMA2	PX	-0.008	-0.008	0	%100
72	MP GAMMA3	PX	-0.008	-0.008	0	%100
73	PL1	PX	-0.038	-0.038	0	%100
74	PL2	PX	-0.019	-0.019	0	%100
75	PL3	PX	-0.019	-0.019	0	%100
76	RAIL CON1	PX	-0.039	-0.039	0	%100
77	RAIL CON2	PX	-0.019	-0.019	0	%100
78	RAIL CON3	PX	-0.019	-0.019	0	%100
79	RAIL1	PX	-0.003	-0.003	0	%100
80	RAIL2	PX	-0.007	-0.007	0	%100
81	RAIL3	PX	-0.007	-0.007	0	%100

**Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
82	SMPL1	PX	-0.015	-0.015	0	%100
83	SMPL2	PX	-0.015	-0.015	0	%100
84	SMPL3	PX	-0.015	-0.015	0	%100
85	SMPL4	PX	-0.015	-0.015	0	%100
86	SMPL5	PX	-0.015	-0.015	0	%100
87	SMPL6	PX	-0.015	-0.015	0	%100
88	SMPL7	PX	-0.015	-0.015	0	%100
89	SMPL8	PX	-0.015	-0.015	0	%100
90	SMPL9	PX	-0.015	-0.015	0	%100
91	SMPL10	PX	-0.015	-0.015	0	%100
92	SMPL11	PX	-0.015	-0.015	0	%100
93	SMPL12	PX	-0.015	-0.015	0	%100
94	SO1	PX	-0.007	-0.007	0	%100
95	SO2	PX	-0.007	-0.007	0	%100
96	SO3	PX	-0.007	-0.007	0	%100

**Member Distributed Loads (BLC 6 : Wind Load (90))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PX	-0.011	-0.011	0	%100
2	CR2	PX	-0.011	-0.011	0	%100
3	CR3	PX	-0.011	-0.011	0	%100
4	CR4	PX	-0.011	-0.011	0	%100
5	CR5	PX	-0.011	-0.011	0	%100
6	CR6	PX	-0.011	-0.011	0	%100
7	FACE2	PX	-0.005	-0.005	0	%100
8	FACE1	PX	-0.009	-0.009	0	%100
9	FACE3	PX	-0.009	-0.009	0	%100
10	GRAT SUP1	PX	-0.007	-0.007	0	%100
11	GRAT SUP2	PX	-0.007	-0.007	0	%100
12	GRAT SUP3	PX	-0.007	-0.007	0	%100
13	GRAT SUP4	PX	-0.007	-0.007	0	%100
14	GRAT SUP5	PX	-0.007	-0.007	0	%100
15	GRAT SUP6	PX	-0.007	-0.007	0	%100
16	MP ALPHA1	PX	-0.01	-0.01	0	%100
17	MP ALPHA2	PX	-0.01	-0.01	0	%100
18	MP ALPHA3	PX	-0.01	-0.01	0	%100
19	MP BETA1	PX	-0.01	-0.01	0	%100
20	MP BETA2	PX	-0.01	-0.01	0	%100
21	MP BETA3	PX	-0.01	-0.01	0	%100
22	MP GAMMA1	PX	-0.01	-0.01	0	%100
23	MP GAMMA2	PX	-0.01	-0.01	0	%100
24	MP GAMMA3	PX	-0.01	-0.01	0	%100
25	PL2	PX	-0.044	-0.044	0	%100
26	PL1	PX	-0.022	-0.022	0	%100
27	PL3	PX	-0.022	-0.022	0	%100
28	RAIL CON2	PX	-0.045	-0.045	0	%100
29	RAIL CON1	PX	-0.022	-0.022	0	%100
30	RAIL CON3	PX	-0.022	-0.022	0	%100
31	RAIL2	PX	-0.004	-0.004	0	%100
32	RAIL1	PX	-0.008	-0.008	0	%100
33	RAIL3	PX	-0.008	-0.008	0	%100
34	SMPL1	PX	-0.017	-0.017	0	%100
35	SMPL2	PX	-0.017	-0.017	0	%100
36	SMPL3	PX	-0.017	-0.017	0	%100
37	SMPL4	PX	-0.017	-0.017	0	%100

**Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
38	SMPL5	PX	-0.017	-0.017	0	%100
39	SMPL6	PX	-0.017	-0.017	0	%100
40	SMPL7	PX	-0.017	-0.017	0	%100
41	SMPL8	PX	-0.017	-0.017	0	%100
42	SMPL9	PX	-0.017	-0.017	0	%100
43	SMPL10	PX	-0.017	-0.017	0	%100
44	SMPL11	PX	-0.017	-0.017	0	%100
45	SMPL12	PX	-0.017	-0.017	0	%100
46	SO1	PX	-0.008	-0.008	0	%100
47	SO2	PX	-0.008	-0.008	0	%100
48	SO3	PX	-0.008	-0.008	0	%100

**Member Distributed Loads (BLC 7 : Wind Load (120))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.006	-0.006	0	%100
2	CR2	PZ	-0.006	-0.006	0	%100
3	CR3	PZ	-0.006	-0.006	0	%100
4	CR4	PZ	-0.006	-0.006	0	%100
5	CR5	PZ	-0.006	-0.006	0	%100
6	CR6	PZ	-0.006	-0.006	0	%100
7	FACE2	PZ	-0.002	-0.002	0	%100
8	FACE1	PZ	-0.005	-0.005	0	%100
9	FACE3	PZ	-0.005	-0.005	0	%100
10	GRAT SUP1	PZ	-0.003	-0.003	0	%100
11	GRAT SUP2	PZ	-0.003	-0.003	0	%100
12	GRAT SUP3	PZ	-0.003	-0.003	0	%100
13	GRAT SUP4	PZ	-0.003	-0.003	0	%100
14	GRAT SUP5	PZ	-0.003	-0.003	0	%100
15	GRAT SUP6	PZ	-0.003	-0.003	0	%100
16	MP ALPHA1	PZ	-0.005	-0.005	0	%100
17	MP ALPHA2	PZ	-0.005	-0.005	0	%100
18	MP ALPHA3	PZ	-0.005	-0.005	0	%100
19	MP BETA1	PZ	-0.005	-0.005	0	%100
20	MP BETA2	PZ	-0.005	-0.005	0	%100
21	MP BETA3	PZ	-0.005	-0.005	0	%100
22	MP GAMMA1	PZ	-0.005	-0.005	0	%100
23	MP GAMMA2	PZ	-0.005	-0.005	0	%100
24	MP GAMMA3	PZ	-0.005	-0.005	0	%100
25	PL2	PZ	-0.022	-0.022	0	%100
26	PL1	PZ	-0.011	-0.011	0	%100
27	PL3	PZ	-0.011	-0.011	0	%100
28	RAIL CON2	PZ	-0.022	-0.022	0	%100
29	RAIL CON1	PZ	-0.011	-0.011	0	%100
30	RAIL CON3	PZ	-0.011	-0.011	0	%100
31	RAIL2	PZ	-0.002	-0.002	0	%100
32	RAIL1	PZ	-0.004	-0.004	0	%100
33	RAIL3	PZ	-0.004	-0.004	0	%100
34	SMPL1	PZ	-0.008	-0.008	0	%100
35	SMPL2	PZ	-0.008	-0.008	0	%100
36	SMPL3	PZ	-0.008	-0.008	0	%100
37	SMPL4	PZ	-0.008	-0.008	0	%100
38	SMPL5	PZ	-0.008	-0.008	0	%100
39	SMPL6	PZ	-0.008	-0.008	0	%100
40	SMPL7	PZ	-0.008	-0.008	0	%100
41	SMPL8	PZ	-0.008	-0.008	0	%100

**Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	SMPL9	PZ	-0.008	-0.008	0	%100
43	SMPL10	PZ	-0.008	-0.008	0	%100
44	SMPL11	PZ	-0.008	-0.008	0	%100
45	SMPL12	PZ	-0.008	-0.008	0	%100
46	SO1	PZ	-0.004	-0.004	0	%100
47	SO2	PZ	-0.004	-0.004	0	%100
48	SO3	PZ	-0.004	-0.004	0	%100
49	CR1	PX	-0.01	-0.01	0	%100
50	CR2	PX	-0.01	-0.01	0	%100
51	CR3	PX	-0.01	-0.01	0	%100
52	CR4	PX	-0.01	-0.01	0	%100
53	CR5	PX	-0.01	-0.01	0	%100
54	CR6	PX	-0.01	-0.01	0	%100
55	FACE2	PX	-0.004	-0.004	0	%100
56	FACE1	PX	-0.008	-0.008	0	%100
57	FACE3	PX	-0.008	-0.008	0	%100
58	GRAT SUP1	PX	-0.006	-0.006	0	%100
59	GRAT SUP2	PX	-0.006	-0.006	0	%100
60	GRAT SUP3	PX	-0.006	-0.006	0	%100
61	GRAT SUP4	PX	-0.006	-0.006	0	%100
62	GRAT SUP5	PX	-0.006	-0.006	0	%100
63	GRAT SUP6	PX	-0.006	-0.006	0	%100
64	MP ALPHA1	PX	-0.008	-0.008	0	%100
65	MP ALPHA2	PX	-0.008	-0.008	0	%100
66	MP ALPHA3	PX	-0.008	-0.008	0	%100
67	MP BETA1	PX	-0.008	-0.008	0	%100
68	MP BETA2	PX	-0.008	-0.008	0	%100
69	MP BETA3	PX	-0.008	-0.008	0	%100
70	MP GAMMA1	PX	-0.008	-0.008	0	%100
71	MP GAMMA2	PX	-0.008	-0.008	0	%100
72	MP GAMMA3	PX	-0.008	-0.008	0	%100
73	PL2	PX	-0.038	-0.038	0	%100
74	PL1	PX	-0.019	-0.019	0	%100
75	PL3	PX	-0.019	-0.019	0	%100
76	RAIL CON2	PX	-0.039	-0.039	0	%100
77	RAIL CON1	PX	-0.019	-0.019	0	%100
78	RAIL CON3	PX	-0.019	-0.019	0	%100
79	RAIL2	PX	-0.003	-0.003	0	%100
80	RAIL1	PX	-0.007	-0.007	0	%100
81	RAIL3	PX	-0.007	-0.007	0	%100
82	SMPL1	PX	-0.015	-0.015	0	%100
83	SMPL2	PX	-0.015	-0.015	0	%100
84	SMPL3	PX	-0.015	-0.015	0	%100
85	SMPL4	PX	-0.015	-0.015	0	%100
86	SMPL5	PX	-0.015	-0.015	0	%100
87	SMPL6	PX	-0.015	-0.015	0	%100
88	SMPL7	PX	-0.015	-0.015	0	%100
89	SMPL8	PX	-0.015	-0.015	0	%100
90	SMPL9	PX	-0.015	-0.015	0	%100
91	SMPL10	PX	-0.015	-0.015	0	%100
92	SMPL11	PX	-0.015	-0.015	0	%100
93	SMPL12	PX	-0.015	-0.015	0	%100
94	SO1	PX	-0.007	-0.007	0	%100
95	SO2	PX	-0.007	-0.007	0	%100
96	SO3	PX	-0.007	-0.007	0	%100



Company : POD  
Designer : MMM  
Job Number : 24-164635  
Model Name : 826053

1/26/2024  
4:10:27 PM  
Checked By : \_\_\_\_\_

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***Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)***

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Member Label Direction Start Magnitude [lb/ft, F, psf, k-ft/ft] End Magnitude [lb/ft, F, psf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]

**Member Distributed Loads (BLC 8 : Wind Load (150))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.01	-0.01	0	%100
2	CR2	PZ	-0.01	-0.01	0	%100
3	CR3	PZ	-0.01	-0.01	0	%100
4	CR4	PZ	-0.01	-0.01	0	%100
5	CR5	PZ	-0.01	-0.01	0	%100
6	CR6	PZ	-0.01	-0.01	0	%100
7	FACE2	PZ	-0.004	-0.004	0	%100
8	FACE1	PZ	-0.008	-0.008	0	%100
9	FACE3	PZ	-0.008	-0.008	0	%100
10	GRAT SUP1	PZ	-0.006	-0.006	0	%100
11	GRAT SUP2	PZ	-0.006	-0.006	0	%100
12	GRAT SUP3	PZ	-0.006	-0.006	0	%100
13	GRAT SUP4	PZ	-0.006	-0.006	0	%100
14	GRAT SUP5	PZ	-0.006	-0.006	0	%100
15	GRAT SUP6	PZ	-0.006	-0.006	0	%100
16	MP ALPHA1	PZ	-0.008	-0.008	0	%100
17	MP ALPHA2	PZ	-0.008	-0.008	0	%100
18	MP ALPHA3	PZ	-0.008	-0.008	0	%100
19	MP BETA1	PZ	-0.008	-0.008	0	%100
20	MP BETA2	PZ	-0.008	-0.008	0	%100
21	MP BETA3	PZ	-0.008	-0.008	0	%100
22	MP GAMMA1	PZ	-0.008	-0.008	0	%100
23	MP GAMMA2	PZ	-0.008	-0.008	0	%100
24	MP GAMMA3	PZ	-0.008	-0.008	0	%100
25	PL2	PZ	-0.038	-0.038	0	%100
26	PL1	PZ	-0.019	-0.019	0	%100
27	PL3	PZ	-0.019	-0.019	0	%100
28	RAIL CON2	PZ	-0.039	-0.039	0	%100
29	RAIL CON1	PZ	-0.019	-0.019	0	%100
30	RAIL CON3	PZ	-0.019	-0.019	0	%100
31	RAIL2	PZ	-0.003	-0.003	0	%100
32	RAIL1	PZ	-0.007	-0.007	0	%100
33	RAIL3	PZ	-0.007	-0.007	0	%100
34	SMPL1	PZ	-0.015	-0.015	0	%100
35	SMPL2	PZ	-0.015	-0.015	0	%100
36	SMPL3	PZ	-0.015	-0.015	0	%100
37	SMPL4	PZ	-0.015	-0.015	0	%100
38	SMPL5	PZ	-0.015	-0.015	0	%100
39	SMPL6	PZ	-0.015	-0.015	0	%100
40	SMPL7	PZ	-0.015	-0.015	0	%100
41	SMPL8	PZ	-0.015	-0.015	0	%100
42	SMPL9	PZ	-0.015	-0.015	0	%100
43	SMPL10	PZ	-0.015	-0.015	0	%100
44	SMPL11	PZ	-0.015	-0.015	0	%100
45	SMPL12	PZ	-0.015	-0.015	0	%100
46	SO1	PZ	-0.007	-0.007	0	%100
47	SO2	PZ	-0.007	-0.007	0	%100
48	SO3	PZ	-0.007	-0.007	0	%100
49	CR1	PX	-0.006	-0.006	0	%100
50	CR2	PX	-0.006	-0.006	0	%100
51	CR3	PX	-0.006	-0.006	0	%100
52	CR4	PX	-0.006	-0.006	0	%100
53	CR5	PX	-0.006	-0.006	0	%100
54	CR6	PX	-0.006	-0.006	0	%100
55	FACE2	PX	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	FACE1	PX	-0.005	-0.005	0	%100
57	FACE3	PX	-0.005	-0.005	0	%100
58	GRAT SUP1	PX	-0.003	-0.003	0	%100
59	GRAT SUP2	PX	-0.003	-0.003	0	%100
60	GRAT SUP3	PX	-0.003	-0.003	0	%100
61	GRAT SUP4	PX	-0.003	-0.003	0	%100
62	GRAT SUP5	PX	-0.003	-0.003	0	%100
63	GRAT SUP6	PX	-0.003	-0.003	0	%100
64	MP ALPHA1	PX	-0.005	-0.005	0	%100
65	MP ALPHA2	PX	-0.005	-0.005	0	%100
66	MP ALPHA3	PX	-0.005	-0.005	0	%100
67	MP BETA1	PX	-0.005	-0.005	0	%100
68	MP BETA2	PX	-0.005	-0.005	0	%100
69	MP BETA3	PX	-0.005	-0.005	0	%100
70	MP GAMMA1	PX	-0.005	-0.005	0	%100
71	MP GAMMA2	PX	-0.005	-0.005	0	%100
72	MP GAMMA3	PX	-0.005	-0.005	0	%100
73	PL2	PX	-0.022	-0.022	0	%100
74	PL1	PX	-0.011	-0.011	0	%100
75	PL3	PX	-0.011	-0.011	0	%100
76	RAIL CON2	PX	-0.022	-0.022	0	%100
77	RAIL CON1	PX	-0.011	-0.011	0	%100
78	RAIL CON3	PX	-0.011	-0.011	0	%100
79	RAIL2	PX	-0.002	-0.002	0	%100
80	RAIL1	PX	-0.004	-0.004	0	%100
81	RAIL3	PX	-0.004	-0.004	0	%100
82	SMPL1	PX	-0.008	-0.008	0	%100
83	SMPL2	PX	-0.008	-0.008	0	%100
84	SMPL3	PX	-0.008	-0.008	0	%100
85	SMPL4	PX	-0.008	-0.008	0	%100
86	SMPL5	PX	-0.008	-0.008	0	%100
87	SMPL6	PX	-0.008	-0.008	0	%100
88	SMPL7	PX	-0.008	-0.008	0	%100
89	SMPL8	PX	-0.008	-0.008	0	%100
90	SMPL9	PX	-0.008	-0.008	0	%100
91	SMPL10	PX	-0.008	-0.008	0	%100
92	SMPL11	PX	-0.008	-0.008	0	%100
93	SMPL12	PX	-0.008	-0.008	0	%100
94	SO1	PX	-0.004	-0.004	0	%100
95	SO2	PX	-0.004	-0.004	0	%100
96	SO3	PX	-0.004	-0.004	0	%100

**Member Distributed Loads (BLC 9 : Wind Load (180))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.011	-0.011	0	%100
2	CR2	PZ	-0.011	-0.011	0	%100
3	CR3	PZ	-0.011	-0.011	0	%100
4	CR4	PZ	-0.011	-0.011	0	%100
5	CR5	PZ	-0.011	-0.011	0	%100
6	CR6	PZ	-0.011	-0.011	0	%100
7	FACE2	PZ	-0.005	-0.005	0	%100
8	FACE1	PZ	-0.009	-0.009	0	%100
9	FACE3	PZ	-0.009	-0.009	0	%100
10	GRAT SUP1	PZ	-0.007	-0.007	0	%100
11	GRAT SUP2	PZ	-0.007	-0.007	0	%100



**Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
12	GRAT SUP3	PZ	-0.007	-0.007	0	%100
13	GRAT SUP4	PZ	-0.007	-0.007	0	%100
14	GRAT SUP5	PZ	-0.007	-0.007	0	%100
15	GRAT SUP6	PZ	-0.007	-0.007	0	%100
16	MP ALPHA1	PZ	-0.01	-0.01	0	%100
17	MP ALPHA2	PZ	-0.01	-0.01	0	%100
18	MP ALPHA3	PZ	-0.01	-0.01	0	%100
19	MP BETA1	PZ	-0.01	-0.01	0	%100
20	MP BETA2	PZ	-0.01	-0.01	0	%100
21	MP BETA3	PZ	-0.01	-0.01	0	%100
22	MP GAMMA1	PZ	-0.01	-0.01	0	%100
23	MP GAMMA2	PZ	-0.01	-0.01	0	%100
24	MP GAMMA3	PZ	-0.01	-0.01	0	%100
25	PL2	PZ	-0.044	-0.044	0	%100
26	PL1	PZ	-0.022	-0.022	0	%100
27	PL3	PZ	-0.022	-0.022	0	%100
28	RAIL CON2	PZ	-0.045	-0.045	0	%100
29	RAIL CON1	PZ	-0.022	-0.022	0	%100
30	RAIL CON3	PZ	-0.022	-0.022	0	%100
31	RAIL2	PZ	-0.004	-0.004	0	%100
32	RAIL1	PZ	-0.008	-0.008	0	%100
33	RAIL3	PZ	-0.008	-0.008	0	%100
34	SMPL1	PZ	-0.017	-0.017	0	%100
35	SMPL2	PZ	-0.017	-0.017	0	%100
36	SMPL3	PZ	-0.017	-0.017	0	%100
37	SMPL4	PZ	-0.017	-0.017	0	%100
38	SMPL5	PZ	-0.017	-0.017	0	%100
39	SMPL6	PZ	-0.017	-0.017	0	%100
40	SMPL7	PZ	-0.017	-0.017	0	%100
41	SMPL8	PZ	-0.017	-0.017	0	%100
42	SMPL9	PZ	-0.017	-0.017	0	%100
43	SMPL10	PZ	-0.017	-0.017	0	%100
44	SMPL11	PZ	-0.017	-0.017	0	%100
45	SMPL12	PZ	-0.017	-0.017	0	%100
46	SO1	PZ	-0.008	-0.008	0	%100
47	SO2	PZ	-0.008	-0.008	0	%100
48	SO3	PZ	-0.008	-0.008	0	%100

**Member Distributed Loads (BLC 10 : Wind Load (210))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.01	-0.01	0	%100
2	CR2	PZ	-0.01	-0.01	0	%100
3	CR3	PZ	-0.01	-0.01	0	%100
4	CR4	PZ	-0.01	-0.01	0	%100
5	CR5	PZ	-0.01	-0.01	0	%100
6	CR6	PZ	-0.01	-0.01	0	%100
7	FACE3	PZ	-0.004	-0.004	0	%100
8	FACE2	PZ	-0.008	-0.008	0	%100
9	FACE1	PZ	-0.008	-0.008	0	%100
10	GRAT SUP1	PZ	-0.006	-0.006	0	%100
11	GRAT SUP2	PZ	-0.006	-0.006	0	%100
12	GRAT SUP3	PZ	-0.006	-0.006	0	%100
13	GRAT SUP4	PZ	-0.006	-0.006	0	%100
14	GRAT SUP5	PZ	-0.006	-0.006	0	%100
15	GRAT SUP6	PZ	-0.006	-0.006	0	%100

**Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	MP ALPHA1	PZ	-0.008	-0.008	0 %100
17	MP ALPHA2	PZ	-0.008	-0.008	0 %100
18	MP ALPHA3	PZ	-0.008	-0.008	0 %100
19	MP BETA1	PZ	-0.008	-0.008	0 %100
20	MP BETA2	PZ	-0.008	-0.008	0 %100
21	MP BETA3	PZ	-0.008	-0.008	0 %100
22	MP GAMMA1	PZ	-0.008	-0.008	0 %100
23	MP GAMMA2	PZ	-0.008	-0.008	0 %100
24	MP GAMMA3	PZ	-0.008	-0.008	0 %100
25	PL3	PZ	-0.038	-0.038	0 %100
26	PL2	PZ	-0.019	-0.019	0 %100
27	PL1	PZ	-0.019	-0.019	0 %100
28	RAIL CON3	PZ	-0.039	-0.039	0 %100
29	RAIL CON2	PZ	-0.019	-0.019	0 %100
30	RAIL CON1	PZ	-0.019	-0.019	0 %100
31	RAIL3	PZ	-0.003	-0.003	0 %100
32	RAIL2	PZ	-0.007	-0.007	0 %100
33	RAIL1	PZ	-0.007	-0.007	0 %100
34	SMPL1	PZ	-0.015	-0.015	0 %100
35	SMPL2	PZ	-0.015	-0.015	0 %100
36	SMPL3	PZ	-0.015	-0.015	0 %100
37	SMPL4	PZ	-0.015	-0.015	0 %100
38	SMPL5	PZ	-0.015	-0.015	0 %100
39	SMPL6	PZ	-0.015	-0.015	0 %100
40	SMPL7	PZ	-0.015	-0.015	0 %100
41	SMPL8	PZ	-0.015	-0.015	0 %100
42	SMPL9	PZ	-0.015	-0.015	0 %100
43	SMPL10	PZ	-0.015	-0.015	0 %100
44	SMPL11	PZ	-0.015	-0.015	0 %100
45	SMPL12	PZ	-0.015	-0.015	0 %100
46	SO1	PZ	-0.007	-0.007	0 %100
47	SO2	PZ	-0.007	-0.007	0 %100
48	SO3	PZ	-0.007	-0.007	0 %100
49	CR1	PX	0.006	0.006	0 %100
50	CR2	PX	0.006	0.006	0 %100
51	CR3	PX	0.006	0.006	0 %100
52	CR4	PX	0.006	0.006	0 %100
53	CR5	PX	0.006	0.006	0 %100
54	CR6	PX	0.006	0.006	0 %100
55	FACE3	PX	0.002	0.002	0 %100
56	FACE2	PX	0.005	0.005	0 %100
57	FACE1	PX	0.005	0.005	0 %100
58	GRAT SUP1	PX	0.003	0.003	0 %100
59	GRAT SUP2	PX	0.003	0.003	0 %100
60	GRAT SUP3	PX	0.003	0.003	0 %100
61	GRAT SUP4	PX	0.003	0.003	0 %100
62	GRAT SUP5	PX	0.003	0.003	0 %100
63	GRAT SUP6	PX	0.003	0.003	0 %100
64	MP ALPHA1	PX	0.005	0.005	0 %100
65	MP ALPHA2	PX	0.005	0.005	0 %100
66	MP ALPHA3	PX	0.005	0.005	0 %100
67	MP BETA1	PX	0.005	0.005	0 %100
68	MP BETA2	PX	0.005	0.005	0 %100
69	MP BETA3	PX	0.005	0.005	0 %100
70	MP GAMMA1	PX	0.005	0.005	0 %100

**Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP GAMMA2	PX	0.005	0.005	0	%100
72	MP GAMMA3	PX	0.005	0.005	0	%100
73	PL3	PX	0.022	0.022	0	%100
74	PL2	PX	0.011	0.011	0	%100
75	PL1	PX	0.011	0.011	0	%100
76	RAIL CON3	PX	0.022	0.022	0	%100
77	RAIL CON2	PX	0.011	0.011	0	%100
78	RAIL CON1	PX	0.011	0.011	0	%100
79	RAIL3	PX	0.002	0.002	0	%100
80	RAIL2	PX	0.004	0.004	0	%100
81	RAIL1	PX	0.004	0.004	0	%100
82	SMPL1	PX	0.008	0.008	0	%100
83	SMPL2	PX	0.008	0.008	0	%100
84	SMPL3	PX	0.008	0.008	0	%100
85	SMPL4	PX	0.008	0.008	0	%100
86	SMPL5	PX	0.008	0.008	0	%100
87	SMPL6	PX	0.008	0.008	0	%100
88	SMPL7	PX	0.008	0.008	0	%100
89	SMPL8	PX	0.008	0.008	0	%100
90	SMPL9	PX	0.008	0.008	0	%100
91	SMPL10	PX	0.008	0.008	0	%100
92	SMPL11	PX	0.008	0.008	0	%100
93	SMPL12	PX	0.008	0.008	0	%100
94	SO1	PX	0.004	0.004	0	%100
95	SO2	PX	0.004	0.004	0	%100
96	SO3	PX	0.004	0.004	0	%100

**Member Distributed Loads (BLC 11 : Wind Load (240))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.006	-0.006	0	%100
2	CR2	PZ	-0.006	-0.006	0	%100
3	CR3	PZ	-0.006	-0.006	0	%100
4	CR4	PZ	-0.006	-0.006	0	%100
5	CR5	PZ	-0.006	-0.006	0	%100
6	CR6	PZ	-0.006	-0.006	0	%100
7	FACE3	PZ	-0.002	-0.002	0	%100
8	FACE2	PZ	-0.005	-0.005	0	%100
9	FACE1	PZ	-0.005	-0.005	0	%100
10	GRAT SUP1	PZ	-0.003	-0.003	0	%100
11	GRAT SUP2	PZ	-0.003	-0.003	0	%100
12	GRAT SUP3	PZ	-0.003	-0.003	0	%100
13	GRAT SUP4	PZ	-0.003	-0.003	0	%100
14	GRAT SUP5	PZ	-0.003	-0.003	0	%100
15	GRAT SUP6	PZ	-0.003	-0.003	0	%100
16	MP ALPHA1	PZ	-0.005	-0.005	0	%100
17	MP ALPHA2	PZ	-0.005	-0.005	0	%100
18	MP ALPHA3	PZ	-0.005	-0.005	0	%100
19	MP BETA1	PZ	-0.005	-0.005	0	%100
20	MP BETA2	PZ	-0.005	-0.005	0	%100
21	MP BETA3	PZ	-0.005	-0.005	0	%100
22	MP GAMMA1	PZ	-0.005	-0.005	0	%100
23	MP GAMMA2	PZ	-0.005	-0.005	0	%100
24	MP GAMMA3	PZ	-0.005	-0.005	0	%100
25	PL3	PZ	-0.022	-0.022	0	%100
26	PL2	PZ	-0.011	-0.011	0	%100

**Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	PL1	PZ	-0.011	-0.011	0 %100
28	RAIL CON3	PZ	-0.022	-0.022	0 %100
29	RAIL CON2	PZ	-0.011	-0.011	0 %100
30	RAIL CON1	PZ	-0.011	-0.011	0 %100
31	RAIL3	PZ	-0.002	-0.002	0 %100
32	RAIL2	PZ	-0.004	-0.004	0 %100
33	RAIL1	PZ	-0.004	-0.004	0 %100
34	SMPL1	PZ	-0.008	-0.008	0 %100
35	SMPL2	PZ	-0.008	-0.008	0 %100
36	SMPL3	PZ	-0.008	-0.008	0 %100
37	SMPL4	PZ	-0.008	-0.008	0 %100
38	SMPL5	PZ	-0.008	-0.008	0 %100
39	SMPL6	PZ	-0.008	-0.008	0 %100
40	SMPL7	PZ	-0.008	-0.008	0 %100
41	SMPL8	PZ	-0.008	-0.008	0 %100
42	SMPL9	PZ	-0.008	-0.008	0 %100
43	SMPL10	PZ	-0.008	-0.008	0 %100
44	SMPL11	PZ	-0.008	-0.008	0 %100
45	SMPL12	PZ	-0.008	-0.008	0 %100
46	SO1	PZ	-0.004	-0.004	0 %100
47	SO2	PZ	-0.004	-0.004	0 %100
48	SO3	PZ	-0.004	-0.004	0 %100
49	CR1	PX	0.01	0.01	0 %100
50	CR2	PX	0.01	0.01	0 %100
51	CR3	PX	0.01	0.01	0 %100
52	CR4	PX	0.01	0.01	0 %100
53	CR5	PX	0.01	0.01	0 %100
54	CR6	PX	0.01	0.01	0 %100
55	FACE3	PX	0.004	0.004	0 %100
56	FACE2	PX	0.008	0.008	0 %100
57	FACE1	PX	0.008	0.008	0 %100
58	GRAT SUP1	PX	0.006	0.006	0 %100
59	GRAT SUP2	PX	0.006	0.006	0 %100
60	GRAT SUP3	PX	0.006	0.006	0 %100
61	GRAT SUP4	PX	0.006	0.006	0 %100
62	GRAT SUP5	PX	0.006	0.006	0 %100
63	GRAT SUP6	PX	0.006	0.006	0 %100
64	MP ALPHA1	PX	0.008	0.008	0 %100
65	MP ALPHA2	PX	0.008	0.008	0 %100
66	MP ALPHA3	PX	0.008	0.008	0 %100
67	MP BETA1	PX	0.008	0.008	0 %100
68	MP BETA2	PX	0.008	0.008	0 %100
69	MP BETA3	PX	0.008	0.008	0 %100
70	MP GAMMA1	PX	0.008	0.008	0 %100
71	MP GAMMA2	PX	0.008	0.008	0 %100
72	MP GAMMA3	PX	0.008	0.008	0 %100
73	PL3	PX	0.038	0.038	0 %100
74	PL2	PX	0.019	0.019	0 %100
75	PL1	PX	0.019	0.019	0 %100
76	RAIL CON3	PX	0.039	0.039	0 %100
77	RAIL CON2	PX	0.019	0.019	0 %100
78	RAIL CON1	PX	0.019	0.019	0 %100
79	RAIL3	PX	0.003	0.003	0 %100
80	RAIL2	PX	0.007	0.007	0 %100
81	RAIL1	PX	0.007	0.007	0 %100

**Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
82	SMPL1	PX	0.015	0.015	0	%100
83	SMPL2	PX	0.015	0.015	0	%100
84	SMPL3	PX	0.015	0.015	0	%100
85	SMPL4	PX	0.015	0.015	0	%100
86	SMPL5	PX	0.015	0.015	0	%100
87	SMPL6	PX	0.015	0.015	0	%100
88	SMPL7	PX	0.015	0.015	0	%100
89	SMPL8	PX	0.015	0.015	0	%100
90	SMPL9	PX	0.015	0.015	0	%100
91	SMPL10	PX	0.015	0.015	0	%100
92	SMPL11	PX	0.015	0.015	0	%100
93	SMPL12	PX	0.015	0.015	0	%100
94	SO1	PX	0.007	0.007	0	%100
95	SO2	PX	0.007	0.007	0	%100
96	SO3	PX	0.007	0.007	0	%100

**Member Distributed Loads (BLC 12 : Wind Load (270))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PX	0.011	0.011	0	%100
2	CR2	PX	0.011	0.011	0	%100
3	CR3	PX	0.011	0.011	0	%100
4	CR4	PX	0.011	0.011	0	%100
5	CR5	PX	0.011	0.011	0	%100
6	CR6	PX	0.011	0.011	0	%100
7	FACE3	PX	0.005	0.005	0	%100
8	FACE2	PX	0.009	0.009	0	%100
9	FACE1	PX	0.009	0.009	0	%100
10	GRAT SUP1	PX	0.007	0.007	0	%100
11	GRAT SUP2	PX	0.007	0.007	0	%100
12	GRAT SUP3	PX	0.007	0.007	0	%100
13	GRAT SUP4	PX	0.007	0.007	0	%100
14	GRAT SUP5	PX	0.007	0.007	0	%100
15	GRAT SUP6	PX	0.007	0.007	0	%100
16	MP ALPHA1	PX	0.01	0.01	0	%100
17	MP ALPHA2	PX	0.01	0.01	0	%100
18	MP ALPHA3	PX	0.01	0.01	0	%100
19	MP BETA1	PX	0.01	0.01	0	%100
20	MP BETA2	PX	0.01	0.01	0	%100
21	MP BETA3	PX	0.01	0.01	0	%100
22	MP GAMMA1	PX	0.01	0.01	0	%100
23	MP GAMMA2	PX	0.01	0.01	0	%100
24	MP GAMMA3	PX	0.01	0.01	0	%100
25	PL3	PX	0.044	0.044	0	%100
26	PL2	PX	0.022	0.022	0	%100
27	PL1	PX	0.022	0.022	0	%100
28	RAIL CON3	PX	0.045	0.045	0	%100
29	RAIL CON2	PX	0.022	0.022	0	%100
30	RAIL CON1	PX	0.022	0.022	0	%100
31	RAIL3	PX	0.004	0.004	0	%100
32	RAIL2	PX	0.008	0.008	0	%100
33	RAIL1	PX	0.008	0.008	0	%100
34	SMPL1	PX	0.017	0.017	0	%100
35	SMPL2	PX	0.017	0.017	0	%100
36	SMPL3	PX	0.017	0.017	0	%100
37	SMPL4	PX	0.017	0.017	0	%100

**Member Distributed Loads (BLC 12 : Wind Load (270)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
38	SMPL5	PX	0.017	0.017	0	%100
39	SMPL6	PX	0.017	0.017	0	%100
40	SMPL7	PX	0.017	0.017	0	%100
41	SMPL8	PX	0.017	0.017	0	%100
42	SMPL9	PX	0.017	0.017	0	%100
43	SMPL10	PX	0.017	0.017	0	%100
44	SMPL11	PX	0.017	0.017	0	%100
45	SMPL12	PX	0.017	0.017	0	%100
46	SO1	PX	0.008	0.008	0	%100
47	SO2	PX	0.008	0.008	0	%100
48	SO3	PX	0.008	0.008	0	%100

**Member Distributed Loads (BLC 13 : Wind Load (300))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.006	0.006	0	%100
2	CR2	PZ	0.006	0.006	0	%100
3	CR3	PZ	0.006	0.006	0	%100
4	CR4	PZ	0.006	0.006	0	%100
5	CR5	PZ	0.006	0.006	0	%100
6	CR6	PZ	0.006	0.006	0	%100
7	FACE3	PZ	0.002	0.002	0	%100
8	FACE2	PZ	0.005	0.005	0	%100
9	FACE1	PZ	0.005	0.005	0	%100
10	GRAT SUP1	PZ	0.003	0.003	0	%100
11	GRAT SUP2	PZ	0.003	0.003	0	%100
12	GRAT SUP3	PZ	0.003	0.003	0	%100
13	GRAT SUP4	PZ	0.003	0.003	0	%100
14	GRAT SUP5	PZ	0.003	0.003	0	%100
15	GRAT SUP6	PZ	0.003	0.003	0	%100
16	MP ALPHA1	PZ	0.005	0.005	0	%100
17	MP ALPHA2	PZ	0.005	0.005	0	%100
18	MP ALPHA3	PZ	0.005	0.005	0	%100
19	MP BETA1	PZ	0.005	0.005	0	%100
20	MP BETA2	PZ	0.005	0.005	0	%100
21	MP BETA3	PZ	0.005	0.005	0	%100
22	MP GAMMA1	PZ	0.005	0.005	0	%100
23	MP GAMMA2	PZ	0.005	0.005	0	%100
24	MP GAMMA3	PZ	0.005	0.005	0	%100
25	PL3	PZ	0.022	0.022	0	%100
26	PL2	PZ	0.011	0.011	0	%100
27	PL1	PZ	0.011	0.011	0	%100
28	RAIL CON3	PZ	0.022	0.022	0	%100
29	RAIL CON2	PZ	0.011	0.011	0	%100
30	RAIL CON1	PZ	0.011	0.011	0	%100
31	RAIL3	PZ	0.002	0.002	0	%100
32	RAIL2	PZ	0.004	0.004	0	%100
33	RAIL1	PZ	0.004	0.004	0	%100
34	SMPL1	PZ	0.008	0.008	0	%100
35	SMPL2	PZ	0.008	0.008	0	%100
36	SMPL3	PZ	0.008	0.008	0	%100
37	SMPL4	PZ	0.008	0.008	0	%100
38	SMPL5	PZ	0.008	0.008	0	%100
39	SMPL6	PZ	0.008	0.008	0	%100
40	SMPL7	PZ	0.008	0.008	0	%100
41	SMPL8	PZ	0.008	0.008	0	%100

**Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	SMPL9	PZ	0.008	0	%100
43	SMPL10	PZ	0.008	0	%100
44	SMPL11	PZ	0.008	0	%100
45	SMPL12	PZ	0.008	0	%100
46	SO1	PZ	0.004	0	%100
47	SO2	PZ	0.004	0	%100
48	SO3	PZ	0.004	0	%100
49	CR1	PX	0.01	0	%100
50	CR2	PX	0.01	0	%100
51	CR3	PX	0.01	0	%100
52	CR4	PX	0.01	0	%100
53	CR5	PX	0.01	0	%100
54	CR6	PX	0.01	0	%100
55	FACE3	PX	0.004	0	%100
56	FACE2	PX	0.008	0	%100
57	FACE1	PX	0.008	0	%100
58	GRAT SUP1	PX	0.006	0	%100
59	GRAT SUP2	PX	0.006	0	%100
60	GRAT SUP3	PX	0.006	0	%100
61	GRAT SUP4	PX	0.006	0	%100
62	GRAT SUP5	PX	0.006	0	%100
63	GRAT SUP6	PX	0.006	0	%100
64	MP ALPHA1	PX	0.008	0	%100
65	MP ALPHA2	PX	0.008	0	%100
66	MP ALPHA3	PX	0.008	0	%100
67	MP BETA1	PX	0.008	0	%100
68	MP BETA2	PX	0.008	0	%100
69	MP BETA3	PX	0.008	0	%100
70	MP GAMMA1	PX	0.008	0	%100
71	MP GAMMA2	PX	0.008	0	%100
72	MP GAMMA3	PX	0.008	0	%100
73	PL3	PX	0.038	0	%100
74	PL2	PX	0.019	0	%100
75	PL1	PX	0.019	0	%100
76	RAIL CON3	PX	0.039	0	%100
77	RAIL CON2	PX	0.019	0	%100
78	RAIL CON1	PX	0.019	0	%100
79	RAIL3	PX	0.003	0	%100
80	RAIL2	PX	0.007	0	%100
81	RAIL1	PX	0.007	0	%100
82	SMPL1	PX	0.015	0	%100
83	SMPL2	PX	0.015	0	%100
84	SMPL3	PX	0.015	0	%100
85	SMPL4	PX	0.015	0	%100
86	SMPL5	PX	0.015	0	%100
87	SMPL6	PX	0.015	0	%100
88	SMPL7	PX	0.015	0	%100
89	SMPL8	PX	0.015	0	%100
90	SMPL9	PX	0.015	0	%100
91	SMPL10	PX	0.015	0	%100
92	SMPL11	PX	0.015	0	%100
93	SMPL12	PX	0.015	0	%100
94	SO1	PX	0.007	0	%100
95	SO2	PX	0.007	0	%100
96	SO3	PX	0.007	0	%100



Company : POD  
Designer : MMM  
Job Number : 24-164635  
Model Name : 826053

1/26/2024  
4:10:27 PM  
Checked By : \_\_\_\_\_

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***Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)***

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Member Label Direction Start Magnitude [lb/ft, F, psf, k-ft/ft] End Magnitude [lb/ft, F, psf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]



**Member Distributed Loads (BLC 14 : Wind Load (330))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.01	0.01	0	%100
2	CR2	PZ	0.01	0.01	0	%100
3	CR3	PZ	0.01	0.01	0	%100
4	CR4	PZ	0.01	0.01	0	%100
5	CR5	PZ	0.01	0.01	0	%100
6	CR6	PZ	0.01	0.01	0	%100
7	FACE1	PZ	0.004	0.004	0	%100
8	FACE2	PZ	0.008	0.008	0	%100
9	FACE3	PZ	0.008	0.008	0	%100
10	GRAT SUP1	PZ	0.006	0.006	0	%100
11	GRAT SUP2	PZ	0.006	0.006	0	%100
12	GRAT SUP3	PZ	0.006	0.006	0	%100
13	GRAT SUP4	PZ	0.006	0.006	0	%100
14	GRAT SUP5	PZ	0.006	0.006	0	%100
15	GRAT SUP6	PZ	0.006	0.006	0	%100
16	MP ALPHA1	PZ	0.008	0.008	0	%100
17	MP ALPHA2	PZ	0.008	0.008	0	%100
18	MP ALPHA3	PZ	0.008	0.008	0	%100
19	MP BETA1	PZ	0.008	0.008	0	%100
20	MP BETA2	PZ	0.008	0.008	0	%100
21	MP BETA3	PZ	0.008	0.008	0	%100
22	MP GAMMA1	PZ	0.008	0.008	0	%100
23	MP GAMMA2	PZ	0.008	0.008	0	%100
24	MP GAMMA3	PZ	0.008	0.008	0	%100
25	PL1	PZ	0.038	0.038	0	%100
26	PL2	PZ	0.019	0.019	0	%100
27	PL3	PZ	0.019	0.019	0	%100
28	RAIL CON1	PZ	0.039	0.039	0	%100
29	RAIL CON2	PZ	0.019	0.019	0	%100
30	RAIL CON3	PZ	0.019	0.019	0	%100
31	RAIL1	PZ	0.003	0.003	0	%100
32	RAIL2	PZ	0.007	0.007	0	%100
33	RAIL3	PZ	0.007	0.007	0	%100
34	SMPL1	PZ	0.015	0.015	0	%100
35	SMPL2	PZ	0.015	0.015	0	%100
36	SMPL3	PZ	0.015	0.015	0	%100
37	SMPL4	PZ	0.015	0.015	0	%100
38	SMPL5	PZ	0.015	0.015	0	%100
39	SMPL6	PZ	0.015	0.015	0	%100
40	SMPL7	PZ	0.015	0.015	0	%100
41	SMPL8	PZ	0.015	0.015	0	%100
42	SMPL9	PZ	0.015	0.015	0	%100
43	SMPL10	PZ	0.015	0.015	0	%100
44	SMPL11	PZ	0.015	0.015	0	%100
45	SMPL12	PZ	0.015	0.015	0	%100
46	SO1	PZ	0.007	0.007	0	%100
47	SO2	PZ	0.007	0.007	0	%100
48	SO3	PZ	0.007	0.007	0	%100
49	CR1	PX	0.006	0.006	0	%100
50	CR2	PX	0.006	0.006	0	%100
51	CR3	PX	0.006	0.006	0	%100
52	CR4	PX	0.006	0.006	0	%100
53	CR5	PX	0.006	0.006	0	%100
54	CR6	PX	0.006	0.006	0	%100
55	FACE1	PX	0.002	0.002	0	%100

**Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	FACE2	PX	0.005	0.005	0	%100
57	FACE3	PX	0.005	0.005	0	%100
58	GRAT SUP1	PX	0.003	0.003	0	%100
59	GRAT SUP2	PX	0.003	0.003	0	%100
60	GRAT SUP3	PX	0.003	0.003	0	%100
61	GRAT SUP4	PX	0.003	0.003	0	%100
62	GRAT SUP5	PX	0.003	0.003	0	%100
63	GRAT SUP6	PX	0.003	0.003	0	%100
64	MP ALPHA1	PX	0.005	0.005	0	%100
65	MP ALPHA2	PX	0.005	0.005	0	%100
66	MP ALPHA3	PX	0.005	0.005	0	%100
67	MP BETA1	PX	0.005	0.005	0	%100
68	MP BETA2	PX	0.005	0.005	0	%100
69	MP BETA3	PX	0.005	0.005	0	%100
70	MP GAMMA1	PX	0.005	0.005	0	%100
71	MP GAMMA2	PX	0.005	0.005	0	%100
72	MP GAMMA3	PX	0.005	0.005	0	%100
73	PL1	PX	0.022	0.022	0	%100
74	PL2	PX	0.011	0.011	0	%100
75	PL3	PX	0.011	0.011	0	%100
76	RAIL CON1	PX	0.022	0.022	0	%100
77	RAIL CON2	PX	0.011	0.011	0	%100
78	RAIL CON3	PX	0.011	0.011	0	%100
79	RAIL1	PX	0.002	0.002	0	%100
80	RAIL2	PX	0.004	0.004	0	%100
81	RAIL3	PX	0.004	0.004	0	%100
82	SMPL1	PX	0.008	0.008	0	%100
83	SMPL2	PX	0.008	0.008	0	%100
84	SMPL3	PX	0.008	0.008	0	%100
85	SMPL4	PX	0.008	0.008	0	%100
86	SMPL5	PX	0.008	0.008	0	%100
87	SMPL6	PX	0.008	0.008	0	%100
88	SMPL7	PX	0.008	0.008	0	%100
89	SMPL8	PX	0.008	0.008	0	%100
90	SMPL9	PX	0.008	0.008	0	%100
91	SMPL10	PX	0.008	0.008	0	%100
92	SMPL11	PX	0.008	0.008	0	%100
93	SMPL12	PX	0.008	0.008	0	%100
94	SO1	PX	0.004	0.004	0	%100
95	SO2	PX	0.004	0.004	0	%100
96	SO3	PX	0.004	0.004	0	%100

**Member Distributed Loads (BLC 15 : Maintenance (0))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.000751	0.000751	0	%100
2	CR2	PZ	0.000751	0.000751	0	%100
3	CR3	PZ	0.000751	0.000751	0	%100
4	CR4	PZ	0.000751	0.000751	0	%100
5	CR5	PZ	0.000751	0.000751	0	%100
6	CR6	PZ	0.000751	0.000751	0	%100
7	FACE1	PZ	0.000304	0.000304	0	%100
8	FACE2	PZ	0.000608	0.000608	0	%100
9	FACE3	PZ	0.000608	0.000608	0	%100
10	GRAT SUP1	PZ	0.000444	0.000444	0	%100
11	GRAT SUP2	PZ	0.000444	0.000444	0	%100



Company : POD  
 Designer : MMM  
 Job Number : 24-164635  
 Model Name : 826053

1/26/2024  
 4:10:27 PM  
 Checked By : \_\_\_\_\_

**Member Distributed Loads (BLC 15 : Maintenance (0)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
12	GRAT SUP3	PZ	0.000444	0.000444	0	%100
13	GRAT SUP4	PZ	0.000444	0.000444	0	%100
14	GRAT SUP5	PZ	0.000444	0.000444	0	%100
15	GRAT SUP6	PZ	0.000444	0.000444	0	%100
16	MP ALPHA1	PZ	0.000633	0.000633	0	%100
17	MP ALPHA2	PZ	0.000633	0.000633	0	%100
18	MP ALPHA3	PZ	0.000633	0.000633	0	%100
19	MP BETA1	PZ	0.000633	0.000633	0	%100
20	MP BETA2	PZ	0.000633	0.000633	0	%100
21	MP BETA3	PZ	0.000633	0.000633	0	%100
22	MP GAMMA1	PZ	0.000633	0.000633	0	%100
23	MP GAMMA2	PZ	0.000633	0.000633	0	%100
24	MP GAMMA3	PZ	0.000633	0.000633	0	%100
25	PL1	PZ	0.003	0.003	0	%100
26	PL2	PZ	0.001	0.001	0	%100
27	PL3	PZ	0.001	0.001	0	%100
28	RAIL CON1	PZ	0.003	0.003	0	%100
29	RAIL CON2	PZ	0.001	0.001	0	%100
30	RAIL CON3	PZ	0.001	0.001	0	%100
31	RAIL1	PZ	0.00025	0.00025	0	%100
32	RAIL2	PZ	0.000499	0.000499	0	%100
33	RAIL3	PZ	0.000499	0.000499	0	%100
34	SMPL1	PZ	0.001	0.001	0	%100
35	SMPL2	PZ	0.001	0.001	0	%100
36	SMPL3	PZ	0.001	0.001	0	%100
37	SMPL4	PZ	0.001	0.001	0	%100
38	SMPL5	PZ	0.001	0.001	0	%100
39	SMPL6	PZ	0.001	0.001	0	%100
40	SMPL7	PZ	0.001	0.001	0	%100
41	SMPL8	PZ	0.001	0.001	0	%100
42	SMPL9	PZ	0.001	0.001	0	%100
43	SMPL10	PZ	0.001	0.001	0	%100
44	SMPL11	PZ	0.001	0.001	0	%100
45	SMPL12	PZ	0.001	0.001	0	%100
46	SO1	PZ	0.000555	0.000555	0	%100
47	SO2	PZ	0.000555	0.000555	0	%100
48	SO3	PZ	0.000555	0.000555	0	%100

**Member Distributed Loads (BLC 16 : Maintenance (30))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.00065	0.00065	0	%100
2	CR2	PZ	0.00065	0.00065	0	%100
3	CR3	PZ	0.00065	0.00065	0	%100
4	CR4	PZ	0.00065	0.00065	0	%100
5	CR5	PZ	0.00065	0.00065	0	%100
6	CR6	PZ	0.00065	0.00065	0	%100
7	FACE1	PZ	0.000263	0.000263	0	%100
8	FACE2	PZ	0.000526	0.000526	0	%100
9	FACE3	PZ	0.000526	0.000526	0	%100
10	GRAT SUP1	PZ	0.000385	0.000385	0	%100
11	GRAT SUP2	PZ	0.000385	0.000385	0	%100
12	GRAT SUP3	PZ	0.000385	0.000385	0	%100
13	GRAT SUP4	PZ	0.000385	0.000385	0	%100
14	GRAT SUP5	PZ	0.000385	0.000385	0	%100
15	GRAT SUP6	PZ	0.000385	0.000385	0	%100

**Member Distributed Loads (BLC 16 : Maintenance (30)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	MP ALPHA1	PZ	0.000548	0.000548	0 %100
17	MP ALPHA2	PZ	0.000548	0.000548	0 %100
18	MP ALPHA3	PZ	0.000548	0.000548	0 %100
19	MP BETA1	PZ	0.000548	0.000548	0 %100
20	MP BETA2	PZ	0.000548	0.000548	0 %100
21	MP BETA3	PZ	0.000548	0.000548	0 %100
22	MP GAMMA1	PZ	0.000548	0.000548	0 %100
23	MP GAMMA2	PZ	0.000548	0.000548	0 %100
24	MP GAMMA3	PZ	0.000548	0.000548	0 %100
25	PL1	PZ	0.003	0.003	0 %100
26	PL2	PZ	0.001	0.001	0 %100
27	PL3	PZ	0.001	0.001	0 %100
28	RAIL CON1	PZ	0.003	0.003	0 %100
29	RAIL CON2	PZ	0.001	0.001	0 %100
30	RAIL CON3	PZ	0.001	0.001	0 %100
31	RAIL1	PZ	0.000216	0.000216	0 %100
32	RAIL2	PZ	0.000432	0.000432	0 %100
33	RAIL3	PZ	0.000432	0.000432	0 %100
34	SMPL1	PZ	0.000961	0.000961	0 %100
35	SMPL2	PZ	0.000961	0.000961	0 %100
36	SMPL3	PZ	0.000961	0.000961	0 %100
37	SMPL4	PZ	0.000961	0.000961	0 %100
38	SMPL5	PZ	0.000961	0.000961	0 %100
39	SMPL6	PZ	0.000961	0.000961	0 %100
40	SMPL7	PZ	0.000961	0.000961	0 %100
41	SMPL8	PZ	0.000961	0.000961	0 %100
42	SMPL9	PZ	0.000961	0.000961	0 %100
43	SMPL10	PZ	0.000961	0.000961	0 %100
44	SMPL11	PZ	0.000961	0.000961	0 %100
45	SMPL12	PZ	0.000961	0.000961	0 %100
46	SO1	PZ	0.000481	0.000481	0 %100
47	SO2	PZ	0.000481	0.000481	0 %100
48	SO3	PZ	0.000481	0.000481	0 %100
49	CR1	PX	-0.000375	-0.000375	0 %100
50	CR2	PX	-0.000375	-0.000375	0 %100
51	CR3	PX	-0.000375	-0.000375	0 %100
52	CR4	PX	-0.000375	-0.000375	0 %100
53	CR5	PX	-0.000375	-0.000375	0 %100
54	CR6	PX	-0.000375	-0.000375	0 %100
55	FACE1	PX	-0.000152	-0.000152	0 %100
56	FACE2	PX	-0.000304	-0.000304	0 %100
57	FACE3	PX	-0.000304	-0.000304	0 %100
58	GRAT SUP1	PX	-0.000222	-0.000222	0 %100
59	GRAT SUP2	PX	-0.000222	-0.000222	0 %100
60	GRAT SUP3	PX	-0.000222	-0.000222	0 %100
61	GRAT SUP4	PX	-0.000222	-0.000222	0 %100
62	GRAT SUP5	PX	-0.000222	-0.000222	0 %100
63	GRAT SUP6	PX	-0.000222	-0.000222	0 %100
64	MP ALPHA1	PX	-0.000316	-0.000316	0 %100
65	MP ALPHA2	PX	-0.000316	-0.000316	0 %100
66	MP ALPHA3	PX	-0.000316	-0.000316	0 %100
67	MP BETA1	PX	-0.000316	-0.000316	0 %100
68	MP BETA2	PX	-0.000316	-0.000316	0 %100
69	MP BETA3	PX	-0.000316	-0.000316	0 %100
70	MP GAMMA1	PX	-0.000316	-0.000316	0 %100

**Member Distributed Loads (BLC 16 : Maintenance (30)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP GAMMA2	PX	-0.000316	-0.000316	0	%100
72	MP GAMMA3	PX	-0.000316	-0.000316	0	%100
73	PL1	PX	-0.001	-0.001	0	%100
74	PL2	PX	-0.000722	-0.000722	0	%100
75	PL3	PX	-0.000722	-0.000722	0	%100
76	RAIL CON1	PX	-0.001	-0.001	0	%100
77	RAIL CON2	PX	-0.000733	-0.000733	0	%100
78	RAIL CON3	PX	-0.000733	-0.000733	0	%100
79	RAIL1	PX	-0.000125	-0.000125	0	%100
80	RAIL2	PX	-0.00025	-0.00025	0	%100
81	RAIL3	PX	-0.00025	-0.00025	0	%100
82	SMPL1	PX	-0.000555	-0.000555	0	%100
83	SMPL2	PX	-0.000555	-0.000555	0	%100
84	SMPL3	PX	-0.000555	-0.000555	0	%100
85	SMPL4	PX	-0.000555	-0.000555	0	%100
86	SMPL5	PX	-0.000555	-0.000555	0	%100
87	SMPL6	PX	-0.000555	-0.000555	0	%100
88	SMPL7	PX	-0.000555	-0.000555	0	%100
89	SMPL8	PX	-0.000555	-0.000555	0	%100
90	SMPL9	PX	-0.000555	-0.000555	0	%100
91	SMPL10	PX	-0.000555	-0.000555	0	%100
92	SMPL11	PX	-0.000555	-0.000555	0	%100
93	SMPL12	PX	-0.000555	-0.000555	0	%100
94	SO1	PX	-0.000278	-0.000278	0	%100
95	SO2	PX	-0.000278	-0.000278	0	%100
96	SO3	PX	-0.000278	-0.000278	0	%100

**Member Distributed Loads (BLC 17 : Maintenance (60))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.000375	0.000375	0	%100
2	CR2	PZ	0.000375	0.000375	0	%100
3	CR3	PZ	0.000375	0.000375	0	%100
4	CR4	PZ	0.000375	0.000375	0	%100
5	CR5	PZ	0.000375	0.000375	0	%100
6	CR6	PZ	0.000375	0.000375	0	%100
7	FACE1	PZ	0.000152	0.000152	0	%100
8	FACE2	PZ	0.000304	0.000304	0	%100
9	FACE3	PZ	0.000304	0.000304	0	%100
10	GRAT SUP1	PZ	0.000222	0.000222	0	%100
11	GRAT SUP2	PZ	0.000222	0.000222	0	%100
12	GRAT SUP3	PZ	0.000222	0.000222	0	%100
13	GRAT SUP4	PZ	0.000222	0.000222	0	%100
14	GRAT SUP5	PZ	0.000222	0.000222	0	%100
15	GRAT SUP6	PZ	0.000222	0.000222	0	%100
16	MP ALPHA1	PZ	0.000316	0.000316	0	%100
17	MP ALPHA2	PZ	0.000316	0.000316	0	%100
18	MP ALPHA3	PZ	0.000316	0.000316	0	%100
19	MP BETA1	PZ	0.000316	0.000316	0	%100
20	MP BETA2	PZ	0.000316	0.000316	0	%100
21	MP BETA3	PZ	0.000316	0.000316	0	%100
22	MP GAMMA1	PZ	0.000316	0.000316	0	%100
23	MP GAMMA2	PZ	0.000316	0.000316	0	%100
24	MP GAMMA3	PZ	0.000316	0.000316	0	%100
25	PL1	PZ	0.001	0.001	0	%100
26	PL2	PZ	0.000722	0.000722	0	%100

**Member Distributed Loads (BLC 17 : Maintenance (60)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	PL3	PZ	0.000722	0.000722	0 %100
28	RAIL CON1	PZ	0.001	0.001	0 %100
29	RAIL CON2	PZ	0.000733	0.000733	0 %100
30	RAIL CON3	PZ	0.000733	0.000733	0 %100
31	RAIL1	PZ	0.000125	0.000125	0 %100
32	RAIL2	PZ	0.00025	0.00025	0 %100
33	RAIL3	PZ	0.00025	0.00025	0 %100
34	SMPL1	PZ	0.000555	0.000555	0 %100
35	SMPL2	PZ	0.000555	0.000555	0 %100
36	SMPL3	PZ	0.000555	0.000555	0 %100
37	SMPL4	PZ	0.000555	0.000555	0 %100
38	SMPL5	PZ	0.000555	0.000555	0 %100
39	SMPL6	PZ	0.000555	0.000555	0 %100
40	SMPL7	PZ	0.000555	0.000555	0 %100
41	SMPL8	PZ	0.000555	0.000555	0 %100
42	SMPL9	PZ	0.000555	0.000555	0 %100
43	SMPL10	PZ	0.000555	0.000555	0 %100
44	SMPL11	PZ	0.000555	0.000555	0 %100
45	SMPL12	PZ	0.000555	0.000555	0 %100
46	SO1	PZ	0.000278	0.000278	0 %100
47	SO2	PZ	0.000278	0.000278	0 %100
48	SO3	PZ	0.000278	0.000278	0 %100
49	CR1	PX	-0.00065	-0.00065	0 %100
50	CR2	PX	-0.00065	-0.00065	0 %100
51	CR3	PX	-0.00065	-0.00065	0 %100
52	CR4	PX	-0.00065	-0.00065	0 %100
53	CR5	PX	-0.00065	-0.00065	0 %100
54	CR6	PX	-0.00065	-0.00065	0 %100
55	FACE1	PX	-0.000263	-0.000263	0 %100
56	FACE2	PX	-0.000526	-0.000526	0 %100
57	FACE3	PX	-0.000526	-0.000526	0 %100
58	GRAT SUP1	PX	-0.000385	-0.000385	0 %100
59	GRAT SUP2	PX	-0.000385	-0.000385	0 %100
60	GRAT SUP3	PX	-0.000385	-0.000385	0 %100
61	GRAT SUP4	PX	-0.000385	-0.000385	0 %100
62	GRAT SUP5	PX	-0.000385	-0.000385	0 %100
63	GRAT SUP6	PX	-0.000385	-0.000385	0 %100
64	MP ALPHA1	PX	-0.000548	-0.000548	0 %100
65	MP ALPHA2	PX	-0.000548	-0.000548	0 %100
66	MP ALPHA3	PX	-0.000548	-0.000548	0 %100
67	MP BETA1	PX	-0.000548	-0.000548	0 %100
68	MP BETA2	PX	-0.000548	-0.000548	0 %100
69	MP BETA3	PX	-0.000548	-0.000548	0 %100
70	MP GAMMA1	PX	-0.000548	-0.000548	0 %100
71	MP GAMMA2	PX	-0.000548	-0.000548	0 %100
72	MP GAMMA3	PX	-0.000548	-0.000548	0 %100
73	PL1	PX	-0.003	-0.003	0 %100
74	PL2	PX	-0.001	-0.001	0 %100
75	PL3	PX	-0.001	-0.001	0 %100
76	RAIL CON1	PX	-0.003	-0.003	0 %100
77	RAIL CON2	PX	-0.001	-0.001	0 %100
78	RAIL CON3	PX	-0.001	-0.001	0 %100
79	RAIL1	PX	-0.000216	-0.000216	0 %100
80	RAIL2	PX	-0.000432	-0.000432	0 %100
81	RAIL3	PX	-0.000432	-0.000432	0 %100

**Member Distributed Loads (BLC 17 : Maintenance (60)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
82	SMPL1	PX	-0.000961	-0.000961	0	%100
83	SMPL2	PX	-0.000961	-0.000961	0	%100
84	SMPL3	PX	-0.000961	-0.000961	0	%100
85	SMPL4	PX	-0.000961	-0.000961	0	%100
86	SMPL5	PX	-0.000961	-0.000961	0	%100
87	SMPL6	PX	-0.000961	-0.000961	0	%100
88	SMPL7	PX	-0.000961	-0.000961	0	%100
89	SMPL8	PX	-0.000961	-0.000961	0	%100
90	SMPL9	PX	-0.000961	-0.000961	0	%100
91	SMPL10	PX	-0.000961	-0.000961	0	%100
92	SMPL11	PX	-0.000961	-0.000961	0	%100
93	SMPL12	PX	-0.000961	-0.000961	0	%100
94	SO1	PX	-0.000481	-0.000481	0	%100
95	SO2	PX	-0.000481	-0.000481	0	%100
96	SO3	PX	-0.000481	-0.000481	0	%100

**Member Distributed Loads (BLC 18 : Maintenance (90))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PX	-0.000751	-0.000751	0	%100
2	CR2	PX	-0.000751	-0.000751	0	%100
3	CR3	PX	-0.000751	-0.000751	0	%100
4	CR4	PX	-0.000751	-0.000751	0	%100
5	CR5	PX	-0.000751	-0.000751	0	%100
6	CR6	PX	-0.000751	-0.000751	0	%100
7	FACE2	PX	-0.000304	-0.000304	0	%100
8	FACE1	PX	-0.000608	-0.000608	0	%100
9	FACE3	PX	-0.000608	-0.000608	0	%100
10	GRAT SUP1	PX	-0.000444	-0.000444	0	%100
11	GRAT SUP2	PX	-0.000444	-0.000444	0	%100
12	GRAT SUP3	PX	-0.000444	-0.000444	0	%100
13	GRAT SUP4	PX	-0.000444	-0.000444	0	%100
14	GRAT SUP5	PX	-0.000444	-0.000444	0	%100
15	GRAT SUP6	PX	-0.000444	-0.000444	0	%100
16	MP ALPHA1	PX	-0.000633	-0.000633	0	%100
17	MP ALPHA2	PX	-0.000633	-0.000633	0	%100
18	MP ALPHA3	PX	-0.000633	-0.000633	0	%100
19	MP BETA1	PX	-0.000633	-0.000633	0	%100
20	MP BETA2	PX	-0.000633	-0.000633	0	%100
21	MP BETA3	PX	-0.000633	-0.000633	0	%100
22	MP GAMMA1	PX	-0.000633	-0.000633	0	%100
23	MP GAMMA2	PX	-0.000633	-0.000633	0	%100
24	MP GAMMA3	PX	-0.000633	-0.000633	0	%100
25	PL2	PX	-0.003	-0.003	0	%100
26	PL1	PX	-0.001	-0.001	0	%100
27	PL3	PX	-0.001	-0.001	0	%100
28	RAIL CON2	PX	-0.003	-0.003	0	%100
29	RAIL CON1	PX	-0.001	-0.001	0	%100
30	RAIL CON3	PX	-0.001	-0.001	0	%100
31	RAIL2	PX	-0.00025	-0.00025	0	%100
32	RAIL1	PX	-0.000499	-0.000499	0	%100
33	RAIL3	PX	-0.000499	-0.000499	0	%100
34	SMPL1	PX	-0.001	-0.001	0	%100
35	SMPL2	PX	-0.001	-0.001	0	%100
36	SMPL3	PX	-0.001	-0.001	0	%100
37	SMPL4	PX	-0.001	-0.001	0	%100

**Member Distributed Loads (BLC 18 : Maintenance (90)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
38	SMPL5	PX	-0.001	-0.001	0	%100
39	SMPL6	PX	-0.001	-0.001	0	%100
40	SMPL7	PX	-0.001	-0.001	0	%100
41	SMPL8	PX	-0.001	-0.001	0	%100
42	SMPL9	PX	-0.001	-0.001	0	%100
43	SMPL10	PX	-0.001	-0.001	0	%100
44	SMPL11	PX	-0.001	-0.001	0	%100
45	SMPL12	PX	-0.001	-0.001	0	%100
46	SO1	PX	-0.000555	-0.000555	0	%100
47	SO2	PX	-0.000555	-0.000555	0	%100
48	SO3	PX	-0.000555	-0.000555	0	%100

**Member Distributed Loads (BLC 19 : Maintenance (120))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.000375	-0.000375	0	%100
2	CR2	PZ	-0.000375	-0.000375	0	%100
3	CR3	PZ	-0.000375	-0.000375	0	%100
4	CR4	PZ	-0.000375	-0.000375	0	%100
5	CR5	PZ	-0.000375	-0.000375	0	%100
6	CR6	PZ	-0.000375	-0.000375	0	%100
7	FACE2	PZ	-0.000152	-0.000152	0	%100
8	FACE1	PZ	-0.000304	-0.000304	0	%100
9	FACE3	PZ	-0.000304	-0.000304	0	%100
10	GRAT SUP1	PZ	-0.000222	-0.000222	0	%100
11	GRAT SUP2	PZ	-0.000222	-0.000222	0	%100
12	GRAT SUP3	PZ	-0.000222	-0.000222	0	%100
13	GRAT SUP4	PZ	-0.000222	-0.000222	0	%100
14	GRAT SUP5	PZ	-0.000222	-0.000222	0	%100
15	GRAT SUP6	PZ	-0.000222	-0.000222	0	%100
16	MP ALPHA1	PZ	-0.000316	-0.000316	0	%100
17	MP ALPHA2	PZ	-0.000316	-0.000316	0	%100
18	MP ALPHA3	PZ	-0.000316	-0.000316	0	%100
19	MP BETA1	PZ	-0.000316	-0.000316	0	%100
20	MP BETA2	PZ	-0.000316	-0.000316	0	%100
21	MP BETA3	PZ	-0.000316	-0.000316	0	%100
22	MP GAMMA1	PZ	-0.000316	-0.000316	0	%100
23	MP GAMMA2	PZ	-0.000316	-0.000316	0	%100
24	MP GAMMA3	PZ	-0.000316	-0.000316	0	%100
25	PL2	PZ	-0.001	-0.001	0	%100
26	PL1	PZ	-0.000722	-0.000722	0	%100
27	PL3	PZ	-0.000722	-0.000722	0	%100
28	RAIL CON2	PZ	-0.001	-0.001	0	%100
29	RAIL CON1	PZ	-0.000733	-0.000733	0	%100
30	RAIL CON3	PZ	-0.000733	-0.000733	0	%100
31	RAIL2	PZ	-0.000125	-0.000125	0	%100
32	RAIL1	PZ	-0.00025	-0.00025	0	%100
33	RAIL3	PZ	-0.00025	-0.00025	0	%100
34	SMPL1	PZ	-0.000555	-0.000555	0	%100
35	SMPL2	PZ	-0.000555	-0.000555	0	%100
36	SMPL3	PZ	-0.000555	-0.000555	0	%100
37	SMPL4	PZ	-0.000555	-0.000555	0	%100
38	SMPL5	PZ	-0.000555	-0.000555	0	%100
39	SMPL6	PZ	-0.000555	-0.000555	0	%100
40	SMPL7	PZ	-0.000555	-0.000555	0	%100
41	SMPL8	PZ	-0.000555	-0.000555	0	%100



**Member Distributed Loads (BLC 19 : Maintenance (120)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	SMPL9	PZ	-0.000555	-0.000555	0 %100
43	SMPL10	PZ	-0.000555	-0.000555	0 %100
44	SMPL11	PZ	-0.000555	-0.000555	0 %100
45	SMPL12	PZ	-0.000555	-0.000555	0 %100
46	SO1	PZ	-0.000278	-0.000278	0 %100
47	SO2	PZ	-0.000278	-0.000278	0 %100
48	SO3	PZ	-0.000278	-0.000278	0 %100
49	CR1	PX	-0.00065	-0.00065	0 %100
50	CR2	PX	-0.00065	-0.00065	0 %100
51	CR3	PX	-0.00065	-0.00065	0 %100
52	CR4	PX	-0.00065	-0.00065	0 %100
53	CR5	PX	-0.00065	-0.00065	0 %100
54	CR6	PX	-0.00065	-0.00065	0 %100
55	FACE2	PX	-0.000263	-0.000263	0 %100
56	FACE1	PX	-0.000526	-0.000526	0 %100
57	FACE3	PX	-0.000526	-0.000526	0 %100
58	GRAT SUP1	PX	-0.000385	-0.000385	0 %100
59	GRAT SUP2	PX	-0.000385	-0.000385	0 %100
60	GRAT SUP3	PX	-0.000385	-0.000385	0 %100
61	GRAT SUP4	PX	-0.000385	-0.000385	0 %100
62	GRAT SUP5	PX	-0.000385	-0.000385	0 %100
63	GRAT SUP6	PX	-0.000385	-0.000385	0 %100
64	MP ALPHA1	PX	-0.000548	-0.000548	0 %100
65	MP ALPHA2	PX	-0.000548	-0.000548	0 %100
66	MP ALPHA3	PX	-0.000548	-0.000548	0 %100
67	MP BETA1	PX	-0.000548	-0.000548	0 %100
68	MP BETA2	PX	-0.000548	-0.000548	0 %100
69	MP BETA3	PX	-0.000548	-0.000548	0 %100
70	MP GAMMA1	PX	-0.000548	-0.000548	0 %100
71	MP GAMMA2	PX	-0.000548	-0.000548	0 %100
72	MP GAMMA3	PX	-0.000548	-0.000548	0 %100
73	PL2	PX	-0.003	-0.003	0 %100
74	PL1	PX	-0.001	-0.001	0 %100
75	PL3	PX	-0.001	-0.001	0 %100
76	RAIL CON2	PX	-0.003	-0.003	0 %100
77	RAIL CON1	PX	-0.001	-0.001	0 %100
78	RAIL CON3	PX	-0.001	-0.001	0 %100
79	RAIL2	PX	-0.000216	-0.000216	0 %100
80	RAIL1	PX	-0.000432	-0.000432	0 %100
81	RAIL3	PX	-0.000432	-0.000432	0 %100
82	SMPL1	PX	-0.000961	-0.000961	0 %100
83	SMPL2	PX	-0.000961	-0.000961	0 %100
84	SMPL3	PX	-0.000961	-0.000961	0 %100
85	SMPL4	PX	-0.000961	-0.000961	0 %100
86	SMPL5	PX	-0.000961	-0.000961	0 %100
87	SMPL6	PX	-0.000961	-0.000961	0 %100
88	SMPL7	PX	-0.000961	-0.000961	0 %100
89	SMPL8	PX	-0.000961	-0.000961	0 %100
90	SMPL9	PX	-0.000961	-0.000961	0 %100
91	SMPL10	PX	-0.000961	-0.000961	0 %100
92	SMPL11	PX	-0.000961	-0.000961	0 %100
93	SMPL12	PX	-0.000961	-0.000961	0 %100
94	SO1	PX	-0.000481	-0.000481	0 %100
95	SO2	PX	-0.000481	-0.000481	0 %100
96	SO3	PX	-0.000481	-0.000481	0 %100



Company : POD  
Designer : MMM  
Job Number : 24-164635  
Model Name : 826053

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4:10:27 PM  
Checked By : \_\_\_\_\_

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***Member Distributed Loads (BLC 19 : Maintenance (120)) (Continued)***

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Member Label Direction Start Magnitude [lb/ft, F, psf, k-ft/ft] End Magnitude [lb/ft, F, psf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]

**Member Distributed Loads (BLC 20 : Maintenance (150))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.00065	-0.00065	0	%100
2	CR2	PZ	-0.00065	-0.00065	0	%100
3	CR3	PZ	-0.00065	-0.00065	0	%100
4	CR4	PZ	-0.00065	-0.00065	0	%100
5	CR5	PZ	-0.00065	-0.00065	0	%100
6	CR6	PZ	-0.00065	-0.00065	0	%100
7	FACE2	PZ	-0.000263	-0.000263	0	%100
8	FACE1	PZ	-0.000526	-0.000526	0	%100
9	FACE3	PZ	-0.000526	-0.000526	0	%100
10	GRAT SUP1	PZ	-0.000385	-0.000385	0	%100
11	GRAT SUP2	PZ	-0.000385	-0.000385	0	%100
12	GRAT SUP3	PZ	-0.000385	-0.000385	0	%100
13	GRAT SUP4	PZ	-0.000385	-0.000385	0	%100
14	GRAT SUP5	PZ	-0.000385	-0.000385	0	%100
15	GRAT SUP6	PZ	-0.000385	-0.000385	0	%100
16	MP ALPHA1	PZ	-0.000548	-0.000548	0	%100
17	MP ALPHA2	PZ	-0.000548	-0.000548	0	%100
18	MP ALPHA3	PZ	-0.000548	-0.000548	0	%100
19	MP BETA1	PZ	-0.000548	-0.000548	0	%100
20	MP BETA2	PZ	-0.000548	-0.000548	0	%100
21	MP BETA3	PZ	-0.000548	-0.000548	0	%100
22	MP GAMMA1	PZ	-0.000548	-0.000548	0	%100
23	MP GAMMA2	PZ	-0.000548	-0.000548	0	%100
24	MP GAMMA3	PZ	-0.000548	-0.000548	0	%100
25	PL2	PZ	-0.003	-0.003	0	%100
26	PL1	PZ	-0.001	-0.001	0	%100
27	PL3	PZ	-0.001	-0.001	0	%100
28	RAIL CON2	PZ	-0.003	-0.003	0	%100
29	RAIL CON1	PZ	-0.001	-0.001	0	%100
30	RAIL CON3	PZ	-0.001	-0.001	0	%100
31	RAIL2	PZ	-0.000216	-0.000216	0	%100
32	RAIL1	PZ	-0.000432	-0.000432	0	%100
33	RAIL3	PZ	-0.000432	-0.000432	0	%100
34	SMPL1	PZ	-0.000961	-0.000961	0	%100
35	SMPL2	PZ	-0.000961	-0.000961	0	%100
36	SMPL3	PZ	-0.000961	-0.000961	0	%100
37	SMPL4	PZ	-0.000961	-0.000961	0	%100
38	SMPL5	PZ	-0.000961	-0.000961	0	%100
39	SMPL6	PZ	-0.000961	-0.000961	0	%100
40	SMPL7	PZ	-0.000961	-0.000961	0	%100
41	SMPL8	PZ	-0.000961	-0.000961	0	%100
42	SMPL9	PZ	-0.000961	-0.000961	0	%100
43	SMPL10	PZ	-0.000961	-0.000961	0	%100
44	SMPL11	PZ	-0.000961	-0.000961	0	%100
45	SMPL12	PZ	-0.000961	-0.000961	0	%100
46	SO1	PZ	-0.000481	-0.000481	0	%100
47	SO2	PZ	-0.000481	-0.000481	0	%100
48	SO3	PZ	-0.000481	-0.000481	0	%100
49	CR1	PX	-0.000375	-0.000375	0	%100
50	CR2	PX	-0.000375	-0.000375	0	%100
51	CR3	PX	-0.000375	-0.000375	0	%100
52	CR4	PX	-0.000375	-0.000375	0	%100
53	CR5	PX	-0.000375	-0.000375	0	%100
54	CR6	PX	-0.000375	-0.000375	0	%100
55	FACE2	PX	-0.000152	-0.000152	0	%100

**Member Distributed Loads (BLC 20 : Maintenance (150)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	FACE1	PX	-0.000304	-0.000304	0	%100
57	FACE3	PX	-0.000304	-0.000304	0	%100
58	GRAT SUP1	PX	-0.000222	-0.000222	0	%100
59	GRAT SUP2	PX	-0.000222	-0.000222	0	%100
60	GRAT SUP3	PX	-0.000222	-0.000222	0	%100
61	GRAT SUP4	PX	-0.000222	-0.000222	0	%100
62	GRAT SUP5	PX	-0.000222	-0.000222	0	%100
63	GRAT SUP6	PX	-0.000222	-0.000222	0	%100
64	MP ALPHA1	PX	-0.000316	-0.000316	0	%100
65	MP ALPHA2	PX	-0.000316	-0.000316	0	%100
66	MP ALPHA3	PX	-0.000316	-0.000316	0	%100
67	MP BETA1	PX	-0.000316	-0.000316	0	%100
68	MP BETA2	PX	-0.000316	-0.000316	0	%100
69	MP BETA3	PX	-0.000316	-0.000316	0	%100
70	MP GAMMA1	PX	-0.000316	-0.000316	0	%100
71	MP GAMMA2	PX	-0.000316	-0.000316	0	%100
72	MP GAMMA3	PX	-0.000316	-0.000316	0	%100
73	PL2	PX	-0.001	-0.001	0	%100
74	PL1	PX	-0.000722	-0.000722	0	%100
75	PL3	PX	-0.000722	-0.000722	0	%100
76	RAIL CON2	PX	-0.001	-0.001	0	%100
77	RAIL CON1	PX	-0.000733	-0.000733	0	%100
78	RAIL CON3	PX	-0.000733	-0.000733	0	%100
79	RAIL2	PX	-0.000125	-0.000125	0	%100
80	RAIL1	PX	-0.00025	-0.00025	0	%100
81	RAIL3	PX	-0.00025	-0.00025	0	%100
82	SMPL1	PX	-0.000555	-0.000555	0	%100
83	SMPL2	PX	-0.000555	-0.000555	0	%100
84	SMPL3	PX	-0.000555	-0.000555	0	%100
85	SMPL4	PX	-0.000555	-0.000555	0	%100
86	SMPL5	PX	-0.000555	-0.000555	0	%100
87	SMPL6	PX	-0.000555	-0.000555	0	%100
88	SMPL7	PX	-0.000555	-0.000555	0	%100
89	SMPL8	PX	-0.000555	-0.000555	0	%100
90	SMPL9	PX	-0.000555	-0.000555	0	%100
91	SMPL10	PX	-0.000555	-0.000555	0	%100
92	SMPL11	PX	-0.000555	-0.000555	0	%100
93	SMPL12	PX	-0.000555	-0.000555	0	%100
94	SO1	PX	-0.000278	-0.000278	0	%100
95	SO2	PX	-0.000278	-0.000278	0	%100
96	SO3	PX	-0.000278	-0.000278	0	%100

**Member Distributed Loads (BLC 21 : Maintenance (180))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.000751	-0.000751	0	%100
2	CR2	PZ	-0.000751	-0.000751	0	%100
3	CR3	PZ	-0.000751	-0.000751	0	%100
4	CR4	PZ	-0.000751	-0.000751	0	%100
5	CR5	PZ	-0.000751	-0.000751	0	%100
6	CR6	PZ	-0.000751	-0.000751	0	%100
7	FACE2	PZ	-0.000304	-0.000304	0	%100
8	FACE1	PZ	-0.000608	-0.000608	0	%100
9	FACE3	PZ	-0.000608	-0.000608	0	%100
10	GRAT SUP1	PZ	-0.000444	-0.000444	0	%100
11	GRAT SUP2	PZ	-0.000444	-0.000444	0	%100



Company : POD  
 Designer : MMM  
 Job Number : 24-164635  
 Model Name : 826053

1/26/2024  
 4:10:27 PM  
 Checked By : \_\_\_\_\_

**Member Distributed Loads (BLC 21 : Maintenance (180)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
12	GRAT SUP3	PZ	-0.000444	-0.000444	0	%100
13	GRAT SUP4	PZ	-0.000444	-0.000444	0	%100
14	GRAT SUP5	PZ	-0.000444	-0.000444	0	%100
15	GRAT SUP6	PZ	-0.000444	-0.000444	0	%100
16	MP ALPHA1	PZ	-0.000633	-0.000633	0	%100
17	MP ALPHA2	PZ	-0.000633	-0.000633	0	%100
18	MP ALPHA3	PZ	-0.000633	-0.000633	0	%100
19	MP BETA1	PZ	-0.000633	-0.000633	0	%100
20	MP BETA2	PZ	-0.000633	-0.000633	0	%100
21	MP BETA3	PZ	-0.000633	-0.000633	0	%100
22	MP GAMMA1	PZ	-0.000633	-0.000633	0	%100
23	MP GAMMA2	PZ	-0.000633	-0.000633	0	%100
24	MP GAMMA3	PZ	-0.000633	-0.000633	0	%100
25	PL2	PZ	-0.003	-0.003	0	%100
26	PL1	PZ	-0.001	-0.001	0	%100
27	PL3	PZ	-0.001	-0.001	0	%100
28	RAIL CON2	PZ	-0.003	-0.003	0	%100
29	RAIL CON1	PZ	-0.001	-0.001	0	%100
30	RAIL CON3	PZ	-0.001	-0.001	0	%100
31	RAIL2	PZ	-0.00025	-0.00025	0	%100
32	RAIL1	PZ	-0.000499	-0.000499	0	%100
33	RAIL3	PZ	-0.000499	-0.000499	0	%100
34	SMPL1	PZ	-0.001	-0.001	0	%100
35	SMPL2	PZ	-0.001	-0.001	0	%100
36	SMPL3	PZ	-0.001	-0.001	0	%100
37	SMPL4	PZ	-0.001	-0.001	0	%100
38	SMPL5	PZ	-0.001	-0.001	0	%100
39	SMPL6	PZ	-0.001	-0.001	0	%100
40	SMPL7	PZ	-0.001	-0.001	0	%100
41	SMPL8	PZ	-0.001	-0.001	0	%100
42	SMPL9	PZ	-0.001	-0.001	0	%100
43	SMPL10	PZ	-0.001	-0.001	0	%100
44	SMPL11	PZ	-0.001	-0.001	0	%100
45	SMPL12	PZ	-0.001	-0.001	0	%100
46	SO1	PZ	-0.000555	-0.000555	0	%100
47	SO2	PZ	-0.000555	-0.000555	0	%100
48	SO3	PZ	-0.000555	-0.000555	0	%100

**Member Distributed Loads (BLC 22 : Maintenance (210))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.00065	-0.00065	0	%100
2	CR2	PZ	-0.00065	-0.00065	0	%100
3	CR3	PZ	-0.00065	-0.00065	0	%100
4	CR4	PZ	-0.00065	-0.00065	0	%100
5	CR5	PZ	-0.00065	-0.00065	0	%100
6	CR6	PZ	-0.00065	-0.00065	0	%100
7	FACE3	PZ	-0.000263	-0.000263	0	%100
8	FACE2	PZ	-0.000526	-0.000526	0	%100
9	FACE1	PZ	-0.000526	-0.000526	0	%100
10	GRAT SUP1	PZ	-0.000385	-0.000385	0	%100
11	GRAT SUP2	PZ	-0.000385	-0.000385	0	%100
12	GRAT SUP3	PZ	-0.000385	-0.000385	0	%100
13	GRAT SUP4	PZ	-0.000385	-0.000385	0	%100
14	GRAT SUP5	PZ	-0.000385	-0.000385	0	%100
15	GRAT SUP6	PZ	-0.000385	-0.000385	0	%100

**Member Distributed Loads (BLC 22 : Maintenance (210)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	MP ALPHA1	PZ	-0.000548	-0.000548	0 %100
17	MP ALPHA2	PZ	-0.000548	-0.000548	0 %100
18	MP ALPHA3	PZ	-0.000548	-0.000548	0 %100
19	MP BETA1	PZ	-0.000548	-0.000548	0 %100
20	MP BETA2	PZ	-0.000548	-0.000548	0 %100
21	MP BETA3	PZ	-0.000548	-0.000548	0 %100
22	MP GAMMA1	PZ	-0.000548	-0.000548	0 %100
23	MP GAMMA2	PZ	-0.000548	-0.000548	0 %100
24	MP GAMMA3	PZ	-0.000548	-0.000548	0 %100
25	PL3	PZ	-0.003	-0.003	0 %100
26	PL2	PZ	-0.001	-0.001	0 %100
27	PL1	PZ	-0.001	-0.001	0 %100
28	RAIL CON3	PZ	-0.003	-0.003	0 %100
29	RAIL CON2	PZ	-0.001	-0.001	0 %100
30	RAIL CON1	PZ	-0.001	-0.001	0 %100
31	RAIL3	PZ	-0.000216	-0.000216	0 %100
32	RAIL2	PZ	-0.000432	-0.000432	0 %100
33	RAIL1	PZ	-0.000432	-0.000432	0 %100
34	SMPL1	PZ	-0.000961	-0.000961	0 %100
35	SMPL2	PZ	-0.000961	-0.000961	0 %100
36	SMPL3	PZ	-0.000961	-0.000961	0 %100
37	SMPL4	PZ	-0.000961	-0.000961	0 %100
38	SMPL5	PZ	-0.000961	-0.000961	0 %100
39	SMPL6	PZ	-0.000961	-0.000961	0 %100
40	SMPL7	PZ	-0.000961	-0.000961	0 %100
41	SMPL8	PZ	-0.000961	-0.000961	0 %100
42	SMPL9	PZ	-0.000961	-0.000961	0 %100
43	SMPL10	PZ	-0.000961	-0.000961	0 %100
44	SMPL11	PZ	-0.000961	-0.000961	0 %100
45	SMPL12	PZ	-0.000961	-0.000961	0 %100
46	SO1	PZ	-0.000481	-0.000481	0 %100
47	SO2	PZ	-0.000481	-0.000481	0 %100
48	SO3	PZ	-0.000481	-0.000481	0 %100
49	CR1	PX	0.000375	0.000375	0 %100
50	CR2	PX	0.000375	0.000375	0 %100
51	CR3	PX	0.000375	0.000375	0 %100
52	CR4	PX	0.000375	0.000375	0 %100
53	CR5	PX	0.000375	0.000375	0 %100
54	CR6	PX	0.000375	0.000375	0 %100
55	FACE3	PX	0.000152	0.000152	0 %100
56	FACE2	PX	0.000304	0.000304	0 %100
57	FACE1	PX	0.000304	0.000304	0 %100
58	GRAT SUP1	PX	0.000222	0.000222	0 %100
59	GRAT SUP2	PX	0.000222	0.000222	0 %100
60	GRAT SUP3	PX	0.000222	0.000222	0 %100
61	GRAT SUP4	PX	0.000222	0.000222	0 %100
62	GRAT SUP5	PX	0.000222	0.000222	0 %100
63	GRAT SUP6	PX	0.000222	0.000222	0 %100
64	MP ALPHA1	PX	0.000316	0.000316	0 %100
65	MP ALPHA2	PX	0.000316	0.000316	0 %100
66	MP ALPHA3	PX	0.000316	0.000316	0 %100
67	MP BETA1	PX	0.000316	0.000316	0 %100
68	MP BETA2	PX	0.000316	0.000316	0 %100
69	MP BETA3	PX	0.000316	0.000316	0 %100
70	MP GAMMA1	PX	0.000316	0.000316	0 %100

**Member Distributed Loads (BLC 22 : Maintenance (210)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP GAMMA2	PX	0.000316	0.000316	0	%100
72	MP GAMMA3	PX	0.000316	0.000316	0	%100
73	PL3	PX	0.001	0.001	0	%100
74	PL2	PX	0.000722	0.000722	0	%100
75	PL1	PX	0.000722	0.000722	0	%100
76	RAIL CON3	PX	0.001	0.001	0	%100
77	RAIL CON2	PX	0.000733	0.000733	0	%100
78	RAIL CON1	PX	0.000733	0.000733	0	%100
79	RAIL3	PX	0.000125	0.000125	0	%100
80	RAIL2	PX	0.00025	0.00025	0	%100
81	RAIL1	PX	0.00025	0.00025	0	%100
82	SMPL1	PX	0.000555	0.000555	0	%100
83	SMPL2	PX	0.000555	0.000555	0	%100
84	SMPL3	PX	0.000555	0.000555	0	%100
85	SMPL4	PX	0.000555	0.000555	0	%100
86	SMPL5	PX	0.000555	0.000555	0	%100
87	SMPL6	PX	0.000555	0.000555	0	%100
88	SMPL7	PX	0.000555	0.000555	0	%100
89	SMPL8	PX	0.000555	0.000555	0	%100
90	SMPL9	PX	0.000555	0.000555	0	%100
91	SMPL10	PX	0.000555	0.000555	0	%100
92	SMPL11	PX	0.000555	0.000555	0	%100
93	SMPL12	PX	0.000555	0.000555	0	%100
94	SO1	PX	0.000278	0.000278	0	%100
95	SO2	PX	0.000278	0.000278	0	%100
96	SO3	PX	0.000278	0.000278	0	%100

**Member Distributed Loads (BLC 23 : Maintenance (240))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.000375	-0.000375	0	%100
2	CR2	PZ	-0.000375	-0.000375	0	%100
3	CR3	PZ	-0.000375	-0.000375	0	%100
4	CR4	PZ	-0.000375	-0.000375	0	%100
5	CR5	PZ	-0.000375	-0.000375	0	%100
6	CR6	PZ	-0.000375	-0.000375	0	%100
7	FACE3	PZ	-0.000152	-0.000152	0	%100
8	FACE2	PZ	-0.000304	-0.000304	0	%100
9	FACE1	PZ	-0.000304	-0.000304	0	%100
10	GRAT SUP1	PZ	-0.000222	-0.000222	0	%100
11	GRAT SUP2	PZ	-0.000222	-0.000222	0	%100
12	GRAT SUP3	PZ	-0.000222	-0.000222	0	%100
13	GRAT SUP4	PZ	-0.000222	-0.000222	0	%100
14	GRAT SUP5	PZ	-0.000222	-0.000222	0	%100
15	GRAT SUP6	PZ	-0.000222	-0.000222	0	%100
16	MP ALPHA1	PZ	-0.000316	-0.000316	0	%100
17	MP ALPHA2	PZ	-0.000316	-0.000316	0	%100
18	MP ALPHA3	PZ	-0.000316	-0.000316	0	%100
19	MP BETA1	PZ	-0.000316	-0.000316	0	%100
20	MP BETA2	PZ	-0.000316	-0.000316	0	%100
21	MP BETA3	PZ	-0.000316	-0.000316	0	%100
22	MP GAMMA1	PZ	-0.000316	-0.000316	0	%100
23	MP GAMMA2	PZ	-0.000316	-0.000316	0	%100
24	MP GAMMA3	PZ	-0.000316	-0.000316	0	%100
25	PL3	PZ	-0.001	-0.001	0	%100
26	PL2	PZ	-0.000722	-0.000722	0	%100

**Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	PL1	PZ	-0.000722	-0.000722	0 %100
28	RAIL CON3	PZ	-0.001	-0.001	0 %100
29	RAIL CON2	PZ	-0.000733	-0.000733	0 %100
30	RAIL CON1	PZ	-0.000733	-0.000733	0 %100
31	RAIL3	PZ	-0.000125	-0.000125	0 %100
32	RAIL2	PZ	-0.00025	-0.00025	0 %100
33	RAIL1	PZ	-0.00025	-0.00025	0 %100
34	SMPL1	PZ	-0.000555	-0.000555	0 %100
35	SMPL2	PZ	-0.000555	-0.000555	0 %100
36	SMPL3	PZ	-0.000555	-0.000555	0 %100
37	SMPL4	PZ	-0.000555	-0.000555	0 %100
38	SMPL5	PZ	-0.000555	-0.000555	0 %100
39	SMPL6	PZ	-0.000555	-0.000555	0 %100
40	SMPL7	PZ	-0.000555	-0.000555	0 %100
41	SMPL8	PZ	-0.000555	-0.000555	0 %100
42	SMPL9	PZ	-0.000555	-0.000555	0 %100
43	SMPL10	PZ	-0.000555	-0.000555	0 %100
44	SMPL11	PZ	-0.000555	-0.000555	0 %100
45	SMPL12	PZ	-0.000555	-0.000555	0 %100
46	SO1	PZ	-0.000278	-0.000278	0 %100
47	SO2	PZ	-0.000278	-0.000278	0 %100
48	SO3	PZ	-0.000278	-0.000278	0 %100
49	CR1	PX	0.00065	0.00065	0 %100
50	CR2	PX	0.00065	0.00065	0 %100
51	CR3	PX	0.00065	0.00065	0 %100
52	CR4	PX	0.00065	0.00065	0 %100
53	CR5	PX	0.00065	0.00065	0 %100
54	CR6	PX	0.00065	0.00065	0 %100
55	FACE3	PX	0.000263	0.000263	0 %100
56	FACE2	PX	0.000526	0.000526	0 %100
57	FACE1	PX	0.000526	0.000526	0 %100
58	GRAT SUP1	PX	0.000385	0.000385	0 %100
59	GRAT SUP2	PX	0.000385	0.000385	0 %100
60	GRAT SUP3	PX	0.000385	0.000385	0 %100
61	GRAT SUP4	PX	0.000385	0.000385	0 %100
62	GRAT SUP5	PX	0.000385	0.000385	0 %100
63	GRAT SUP6	PX	0.000385	0.000385	0 %100
64	MP ALPHA1	PX	0.000548	0.000548	0 %100
65	MP ALPHA2	PX	0.000548	0.000548	0 %100
66	MP ALPHA3	PX	0.000548	0.000548	0 %100
67	MP BETA1	PX	0.000548	0.000548	0 %100
68	MP BETA2	PX	0.000548	0.000548	0 %100
69	MP BETA3	PX	0.000548	0.000548	0 %100
70	MP GAMMA1	PX	0.000548	0.000548	0 %100
71	MP GAMMA2	PX	0.000548	0.000548	0 %100
72	MP GAMMA3	PX	0.000548	0.000548	0 %100
73	PL3	PX	0.003	0.003	0 %100
74	PL2	PX	0.001	0.001	0 %100
75	PL1	PX	0.001	0.001	0 %100
76	RAIL CON3	PX	0.003	0.003	0 %100
77	RAIL CON2	PX	0.001	0.001	0 %100
78	RAIL CON1	PX	0.001	0.001	0 %100
79	RAIL3	PX	0.000216	0.000216	0 %100
80	RAIL2	PX	0.000432	0.000432	0 %100
81	RAIL1	PX	0.000432	0.000432	0 %100



**Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
82	SMPL1	PX	0.000961	0.000961	0	%100
83	SMPL2	PX	0.000961	0.000961	0	%100
84	SMPL3	PX	0.000961	0.000961	0	%100
85	SMPL4	PX	0.000961	0.000961	0	%100
86	SMPL5	PX	0.000961	0.000961	0	%100
87	SMPL6	PX	0.000961	0.000961	0	%100
88	SMPL7	PX	0.000961	0.000961	0	%100
89	SMPL8	PX	0.000961	0.000961	0	%100
90	SMPL9	PX	0.000961	0.000961	0	%100
91	SMPL10	PX	0.000961	0.000961	0	%100
92	SMPL11	PX	0.000961	0.000961	0	%100
93	SMPL12	PX	0.000961	0.000961	0	%100
94	SO1	PX	0.000481	0.000481	0	%100
95	SO2	PX	0.000481	0.000481	0	%100
96	SO3	PX	0.000481	0.000481	0	%100

**Member Distributed Loads (BLC 24 : Maintenance (270))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PX	0.000751	0.000751	0	%100
2	CR2	PX	0.000751	0.000751	0	%100
3	CR3	PX	0.000751	0.000751	0	%100
4	CR4	PX	0.000751	0.000751	0	%100
5	CR5	PX	0.000751	0.000751	0	%100
6	CR6	PX	0.000751	0.000751	0	%100
7	FACE3	PX	0.000304	0.000304	0	%100
8	FACE2	PX	0.000608	0.000608	0	%100
9	FACE1	PX	0.000608	0.000608	0	%100
10	GRAT SUP1	PX	0.000444	0.000444	0	%100
11	GRAT SUP2	PX	0.000444	0.000444	0	%100
12	GRAT SUP3	PX	0.000444	0.000444	0	%100
13	GRAT SUP4	PX	0.000444	0.000444	0	%100
14	GRAT SUP5	PX	0.000444	0.000444	0	%100
15	GRAT SUP6	PX	0.000444	0.000444	0	%100
16	MP ALPHA1	PX	0.000633	0.000633	0	%100
17	MP ALPHA2	PX	0.000633	0.000633	0	%100
18	MP ALPHA3	PX	0.000633	0.000633	0	%100
19	MP BETA1	PX	0.000633	0.000633	0	%100
20	MP BETA2	PX	0.000633	0.000633	0	%100
21	MP BETA3	PX	0.000633	0.000633	0	%100
22	MP GAMMA1	PX	0.000633	0.000633	0	%100
23	MP GAMMA2	PX	0.000633	0.000633	0	%100
24	MP GAMMA3	PX	0.000633	0.000633	0	%100
25	PL3	PX	0.003	0.003	0	%100
26	PL2	PX	0.001	0.001	0	%100
27	PL1	PX	0.001	0.001	0	%100
28	RAIL CON3	PX	0.003	0.003	0	%100
29	RAIL CON2	PX	0.001	0.001	0	%100
30	RAIL CON1	PX	0.001	0.001	0	%100
31	RAIL3	PX	0.00025	0.00025	0	%100
32	RAIL2	PX	0.000499	0.000499	0	%100
33	RAIL1	PX	0.000499	0.000499	0	%100
34	SMPL1	PX	0.001	0.001	0	%100
35	SMPL2	PX	0.001	0.001	0	%100
36	SMPL3	PX	0.001	0.001	0	%100
37	SMPL4	PX	0.001	0.001	0	%100

**Member Distributed Loads (BLC 24 : Maintenance (270)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
38	SMPL5	PX	0.001	0.001	0	%100
39	SMPL6	PX	0.001	0.001	0	%100
40	SMPL7	PX	0.001	0.001	0	%100
41	SMPL8	PX	0.001	0.001	0	%100
42	SMPL9	PX	0.001	0.001	0	%100
43	SMPL10	PX	0.001	0.001	0	%100
44	SMPL11	PX	0.001	0.001	0	%100
45	SMPL12	PX	0.001	0.001	0	%100
46	SO1	PX	0.000555	0.000555	0	%100
47	SO2	PX	0.000555	0.000555	0	%100
48	SO3	PX	0.000555	0.000555	0	%100

**Member Distributed Loads (BLC 25 : Maintenance (300))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.000375	0.000375	0	%100
2	CR2	PZ	0.000375	0.000375	0	%100
3	CR3	PZ	0.000375	0.000375	0	%100
4	CR4	PZ	0.000375	0.000375	0	%100
5	CR5	PZ	0.000375	0.000375	0	%100
6	CR6	PZ	0.000375	0.000375	0	%100
7	FACE3	PZ	0.000152	0.000152	0	%100
8	FACE2	PZ	0.000304	0.000304	0	%100
9	FACE1	PZ	0.000304	0.000304	0	%100
10	GRAT SUP1	PZ	0.000222	0.000222	0	%100
11	GRAT SUP2	PZ	0.000222	0.000222	0	%100
12	GRAT SUP3	PZ	0.000222	0.000222	0	%100
13	GRAT SUP4	PZ	0.000222	0.000222	0	%100
14	GRAT SUP5	PZ	0.000222	0.000222	0	%100
15	GRAT SUP6	PZ	0.000222	0.000222	0	%100
16	MP ALPHA1	PZ	0.000316	0.000316	0	%100
17	MP ALPHA2	PZ	0.000316	0.000316	0	%100
18	MP ALPHA3	PZ	0.000316	0.000316	0	%100
19	MP BETA1	PZ	0.000316	0.000316	0	%100
20	MP BETA2	PZ	0.000316	0.000316	0	%100
21	MP BETA3	PZ	0.000316	0.000316	0	%100
22	MP GAMMA1	PZ	0.000316	0.000316	0	%100
23	MP GAMMA2	PZ	0.000316	0.000316	0	%100
24	MP GAMMA3	PZ	0.000316	0.000316	0	%100
25	PL3	PZ	0.001	0.001	0	%100
26	PL2	PZ	0.000722	0.000722	0	%100
27	PL1	PZ	0.000722	0.000722	0	%100
28	RAIL CON3	PZ	0.001	0.001	0	%100
29	RAIL CON2	PZ	0.000733	0.000733	0	%100
30	RAIL CON1	PZ	0.000733	0.000733	0	%100
31	RAIL3	PZ	0.000125	0.000125	0	%100
32	RAIL2	PZ	0.00025	0.00025	0	%100
33	RAIL1	PZ	0.00025	0.00025	0	%100
34	SMPL1	PZ	0.000555	0.000555	0	%100
35	SMPL2	PZ	0.000555	0.000555	0	%100
36	SMPL3	PZ	0.000555	0.000555	0	%100
37	SMPL4	PZ	0.000555	0.000555	0	%100
38	SMPL5	PZ	0.000555	0.000555	0	%100
39	SMPL6	PZ	0.000555	0.000555	0	%100
40	SMPL7	PZ	0.000555	0.000555	0	%100
41	SMPL8	PZ	0.000555	0.000555	0	%100

**Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	SMPL9	PZ	0.000555	0.000555	0	%100
43	SMPL10	PZ	0.000555	0.000555	0	%100
44	SMPL11	PZ	0.000555	0.000555	0	%100
45	SMPL12	PZ	0.000555	0.000555	0	%100
46	SO1	PZ	0.000278	0.000278	0	%100
47	SO2	PZ	0.000278	0.000278	0	%100
48	SO3	PZ	0.000278	0.000278	0	%100
49	CR1	PX	0.00065	0.00065	0	%100
50	CR2	PX	0.00065	0.00065	0	%100
51	CR3	PX	0.00065	0.00065	0	%100
52	CR4	PX	0.00065	0.00065	0	%100
53	CR5	PX	0.00065	0.00065	0	%100
54	CR6	PX	0.00065	0.00065	0	%100
55	FACE3	PX	0.000263	0.000263	0	%100
56	FACE2	PX	0.000526	0.000526	0	%100
57	FACE1	PX	0.000526	0.000526	0	%100
58	GRAT SUP1	PX	0.000385	0.000385	0	%100
59	GRAT SUP2	PX	0.000385	0.000385	0	%100
60	GRAT SUP3	PX	0.000385	0.000385	0	%100
61	GRAT SUP4	PX	0.000385	0.000385	0	%100
62	GRAT SUP5	PX	0.000385	0.000385	0	%100
63	GRAT SUP6	PX	0.000385	0.000385	0	%100
64	MP ALPHA1	PX	0.000548	0.000548	0	%100
65	MP ALPHA2	PX	0.000548	0.000548	0	%100
66	MP ALPHA3	PX	0.000548	0.000548	0	%100
67	MP BETA1	PX	0.000548	0.000548	0	%100
68	MP BETA2	PX	0.000548	0.000548	0	%100
69	MP BETA3	PX	0.000548	0.000548	0	%100
70	MP GAMMA1	PX	0.000548	0.000548	0	%100
71	MP GAMMA2	PX	0.000548	0.000548	0	%100
72	MP GAMMA3	PX	0.000548	0.000548	0	%100
73	PL3	PX	0.003	0.003	0	%100
74	PL2	PX	0.001	0.001	0	%100
75	PL1	PX	0.001	0.001	0	%100
76	RAIL CON3	PX	0.003	0.003	0	%100
77	RAIL CON2	PX	0.001	0.001	0	%100
78	RAIL CON1	PX	0.001	0.001	0	%100
79	RAIL3	PX	0.000216	0.000216	0	%100
80	RAIL2	PX	0.000432	0.000432	0	%100
81	RAIL1	PX	0.000432	0.000432	0	%100
82	SMPL1	PX	0.000961	0.000961	0	%100
83	SMPL2	PX	0.000961	0.000961	0	%100
84	SMPL3	PX	0.000961	0.000961	0	%100
85	SMPL4	PX	0.000961	0.000961	0	%100
86	SMPL5	PX	0.000961	0.000961	0	%100
87	SMPL6	PX	0.000961	0.000961	0	%100
88	SMPL7	PX	0.000961	0.000961	0	%100
89	SMPL8	PX	0.000961	0.000961	0	%100
90	SMPL9	PX	0.000961	0.000961	0	%100
91	SMPL10	PX	0.000961	0.000961	0	%100
92	SMPL11	PX	0.000961	0.000961	0	%100
93	SMPL12	PX	0.000961	0.000961	0	%100
94	SO1	PX	0.000481	0.000481	0	%100
95	SO2	PX	0.000481	0.000481	0	%100
96	SO3	PX	0.000481	0.000481	0	%100



Company : POD  
Designer : MMM  
Job Number : 24-164635  
Model Name : 826053

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***Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)***

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Member Label Direction Start Magnitude [lb/ft, F, psf, k-ft/ft] End Magnitude [lb/ft, F, psf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]

**Member Distributed Loads (BLC 26 : Maintenance (330))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.00065	0.00065	0	%100
2	CR2	PZ	0.00065	0.00065	0	%100
3	CR3	PZ	0.00065	0.00065	0	%100
4	CR4	PZ	0.00065	0.00065	0	%100
5	CR5	PZ	0.00065	0.00065	0	%100
6	CR6	PZ	0.00065	0.00065	0	%100
7	FACE1	PZ	0.000263	0.000263	0	%100
8	FACE2	PZ	0.000526	0.000526	0	%100
9	FACE3	PZ	0.000526	0.000526	0	%100
10	GRAT SUP1	PZ	0.000385	0.000385	0	%100
11	GRAT SUP2	PZ	0.000385	0.000385	0	%100
12	GRAT SUP3	PZ	0.000385	0.000385	0	%100
13	GRAT SUP4	PZ	0.000385	0.000385	0	%100
14	GRAT SUP5	PZ	0.000385	0.000385	0	%100
15	GRAT SUP6	PZ	0.000385	0.000385	0	%100
16	MP ALPHA1	PZ	0.000548	0.000548	0	%100
17	MP ALPHA2	PZ	0.000548	0.000548	0	%100
18	MP ALPHA3	PZ	0.000548	0.000548	0	%100
19	MP BETA1	PZ	0.000548	0.000548	0	%100
20	MP BETA2	PZ	0.000548	0.000548	0	%100
21	MP BETA3	PZ	0.000548	0.000548	0	%100
22	MP GAMMA1	PZ	0.000548	0.000548	0	%100
23	MP GAMMA2	PZ	0.000548	0.000548	0	%100
24	MP GAMMA3	PZ	0.000548	0.000548	0	%100
25	PL1	PZ	0.003	0.003	0	%100
26	PL2	PZ	0.001	0.001	0	%100
27	PL3	PZ	0.001	0.001	0	%100
28	RAIL CON1	PZ	0.003	0.003	0	%100
29	RAIL CON2	PZ	0.001	0.001	0	%100
30	RAIL CON3	PZ	0.001	0.001	0	%100
31	RAIL1	PZ	0.000216	0.000216	0	%100
32	RAIL2	PZ	0.000432	0.000432	0	%100
33	RAIL3	PZ	0.000432	0.000432	0	%100
34	SMPL1	PZ	0.000961	0.000961	0	%100
35	SMPL2	PZ	0.000961	0.000961	0	%100
36	SMPL3	PZ	0.000961	0.000961	0	%100
37	SMPL4	PZ	0.000961	0.000961	0	%100
38	SMPL5	PZ	0.000961	0.000961	0	%100
39	SMPL6	PZ	0.000961	0.000961	0	%100
40	SMPL7	PZ	0.000961	0.000961	0	%100
41	SMPL8	PZ	0.000961	0.000961	0	%100
42	SMPL9	PZ	0.000961	0.000961	0	%100
43	SMPL10	PZ	0.000961	0.000961	0	%100
44	SMPL11	PZ	0.000961	0.000961	0	%100
45	SMPL12	PZ	0.000961	0.000961	0	%100
46	SO1	PZ	0.000481	0.000481	0	%100
47	SO2	PZ	0.000481	0.000481	0	%100
48	SO3	PZ	0.000481	0.000481	0	%100
49	CR1	PX	0.000375	0.000375	0	%100
50	CR2	PX	0.000375	0.000375	0	%100
51	CR3	PX	0.000375	0.000375	0	%100
52	CR4	PX	0.000375	0.000375	0	%100
53	CR5	PX	0.000375	0.000375	0	%100
54	CR6	PX	0.000375	0.000375	0	%100
55	FACE1	PX	0.000152	0.000152	0	%100



Company : POD  
 Designer : MMM  
 Job Number : 24-164635  
 Model Name : 826053

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 4:10:27 PM  
 Checked By : \_\_\_\_\_

**Member Distributed Loads (BLC 26 : Maintenance (330)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	FACE2	PX	0.000304	0.000304	0	%100
57	FACE3	PX	0.000304	0.000304	0	%100
58	GRAT SUP1	PX	0.000222	0.000222	0	%100
59	GRAT SUP2	PX	0.000222	0.000222	0	%100
60	GRAT SUP3	PX	0.000222	0.000222	0	%100
61	GRAT SUP4	PX	0.000222	0.000222	0	%100
62	GRAT SUP5	PX	0.000222	0.000222	0	%100
63	GRAT SUP6	PX	0.000222	0.000222	0	%100
64	MP ALPHA1	PX	0.000316	0.000316	0	%100
65	MP ALPHA2	PX	0.000316	0.000316	0	%100
66	MP ALPHA3	PX	0.000316	0.000316	0	%100
67	MP BETA1	PX	0.000316	0.000316	0	%100
68	MP BETA2	PX	0.000316	0.000316	0	%100
69	MP BETA3	PX	0.000316	0.000316	0	%100
70	MP GAMMA1	PX	0.000316	0.000316	0	%100
71	MP GAMMA2	PX	0.000316	0.000316	0	%100
72	MP GAMMA3	PX	0.000316	0.000316	0	%100
73	PL1	PX	0.001	0.001	0	%100
74	PL2	PX	0.000722	0.000722	0	%100
75	PL3	PX	0.000722	0.000722	0	%100
76	RAIL CON1	PX	0.001	0.001	0	%100
77	RAIL CON2	PX	0.000733	0.000733	0	%100
78	RAIL CON3	PX	0.000733	0.000733	0	%100
79	RAIL1	PX	0.000125	0.000125	0	%100
80	RAIL2	PX	0.00025	0.00025	0	%100
81	RAIL3	PX	0.00025	0.00025	0	%100
82	SMPL1	PX	0.000555	0.000555	0	%100
83	SMPL2	PX	0.000555	0.000555	0	%100
84	SMPL3	PX	0.000555	0.000555	0	%100
85	SMPL4	PX	0.000555	0.000555	0	%100
86	SMPL5	PX	0.000555	0.000555	0	%100
87	SMPL6	PX	0.000555	0.000555	0	%100
88	SMPL7	PX	0.000555	0.000555	0	%100
89	SMPL8	PX	0.000555	0.000555	0	%100
90	SMPL9	PX	0.000555	0.000555	0	%100
91	SMPL10	PX	0.000555	0.000555	0	%100
92	SMPL11	PX	0.000555	0.000555	0	%100
93	SMPL12	PX	0.000555	0.000555	0	%100
94	SO1	PX	0.000278	0.000278	0	%100
95	SO2	PX	0.000278	0.000278	0	%100
96	SO3	PX	0.000278	0.000278	0	%100

**Member Distributed Loads (BLC 27 : Ice Dead Load)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	Y	-0.009	-0.009	0	%100
2	CR2	Y	-0.009	-0.009	0	%100
3	CR3	Y	-0.009	-0.009	0	%100
4	CR4	Y	-0.009	-0.009	0	%100
5	CR5	Y	-0.009	-0.009	0	%100
6	CR6	Y	-0.009	-0.009	0	%100
7	FACE1	Y	-0.007	-0.007	0	%100
8	FACE2	Y	-0.007	-0.007	0	%100
9	FACE3	Y	-0.007	-0.007	0	%100
10	GRAT SUP1	Y	-0.006	-0.006	0	%100
11	GRAT SUP2	Y	-0.006	-0.006	0	%100

**Member Distributed Loads (BLC 27 : Ice Dead Load) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
12	GRAT SUP3	Y	-0.006	-0.006	0	%100
13	GRAT SUP4	Y	-0.006	-0.006	0	%100
14	GRAT SUP5	Y	-0.006	-0.006	0	%100
15	GRAT SUP6	Y	-0.006	-0.006	0	%100
16	MP ALPHA1	Y	-0.005	-0.005	0	%100
17	MP ALPHA2	Y	-0.005	-0.005	0	%100
18	MP ALPHA3	Y	-0.005	-0.005	0	%100
19	MP BETA1	Y	-0.005	-0.005	0	%100
20	MP BETA2	Y	-0.005	-0.005	0	%100
21	MP BETA3	Y	-0.005	-0.005	0	%100
22	MP GAMMA1	Y	-0.005	-0.005	0	%100
23	MP GAMMA2	Y	-0.005	-0.005	0	%100
24	MP GAMMA3	Y	-0.005	-0.005	0	%100
25	PL1	Y	-0.009	-0.009	0	%100
26	PL2	Y	-0.009	-0.009	0	%100
27	PL3	Y	-0.009	-0.009	0	%100
28	RAIL CON1	Y	-0.01	-0.01	0	%100
29	RAIL CON2	Y	-0.01	-0.01	0	%100
30	RAIL CON3	Y	-0.01	-0.01	0	%100
31	RAIL1	Y	-0.006	-0.006	0	%100
32	RAIL2	Y	-0.006	-0.006	0	%100
33	RAIL3	Y	-0.006	-0.006	0	%100
34	SMPL1	Y	-0.008	-0.008	0	%100
35	SMPL2	Y	-0.008	-0.008	0	%100
36	SMPL3	Y	-0.008	-0.008	0	%100
37	SMPL4	Y	-0.008	-0.008	0	%100
38	SMPL5	Y	-0.008	-0.008	0	%100
39	SMPL6	Y	-0.008	-0.008	0	%100
40	SMPL7	Y	-0.008	-0.008	0	%100
41	SMPL8	Y	-0.008	-0.008	0	%100
42	SMPL9	Y	-0.008	-0.008	0	%100
43	SMPL10	Y	-0.008	-0.008	0	%100
44	SMPL11	Y	-0.008	-0.008	0	%100
45	SMPL12	Y	-0.008	-0.008	0	%100
46	SO1	Y	-0.009	-0.009	0	%100
47	SO2	Y	-0.009	-0.009	0	%100
48	SO3	Y	-0.009	-0.009	0	%100

**Member Distributed Loads (BLC 28 : Ice Wind Load (0))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.003	0.003	0	%100
2	CR2	PZ	0.003	0.003	0	%100
3	CR3	PZ	0.003	0.003	0	%100
4	CR4	PZ	0.003	0.003	0	%100
5	CR5	PZ	0.003	0.003	0	%100
6	CR6	PZ	0.003	0.003	0	%100
7	FACE1	PZ	0.002	0.002	0	%100
8	FACE2	PZ	0.003	0.003	0	%100
9	FACE3	PZ	0.003	0.003	0	%100
10	GRAT SUP1	PZ	0.002	0.002	0	%100
11	GRAT SUP2	PZ	0.002	0.002	0	%100
12	GRAT SUP3	PZ	0.002	0.002	0	%100
13	GRAT SUP4	PZ	0.002	0.002	0	%100
14	GRAT SUP5	PZ	0.002	0.002	0	%100
15	GRAT SUP6	PZ	0.002	0.002	0	%100

**Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	MP ALPHA1	PZ	0.004	0	%100
17	MP ALPHA2	PZ	0.004	0	%100
18	MP ALPHA3	PZ	0.004	0	%100
19	MP BETA1	PZ	0.004	0	%100
20	MP BETA2	PZ	0.004	0	%100
21	MP BETA3	PZ	0.004	0	%100
22	MP GAMMA1	PZ	0.004	0	%100
23	MP GAMMA2	PZ	0.004	0	%100
24	MP GAMMA3	PZ	0.004	0	%100
25	PL1	PZ	0.008	0	%100
26	PL2	PZ	0.004	0	%100
27	PL3	PZ	0.004	0	%100
28	RAIL CON1	PZ	0.009	0	%100
29	RAIL CON2	PZ	0.004	0	%100
30	RAIL CON3	PZ	0.004	0	%100
31	RAIL1	PZ	0.001	0	%100
32	RAIL2	PZ	0.003	0	%100
33	RAIL3	PZ	0.003	0	%100
34	SMPL1	PZ	0.004	0	%100
35	SMPL2	PZ	0.004	0	%100
36	SMPL3	PZ	0.004	0	%100
37	SMPL4	PZ	0.004	0	%100
38	SMPL5	PZ	0.004	0	%100
39	SMPL6	PZ	0.004	0	%100
40	SMPL7	PZ	0.004	0	%100
41	SMPL8	PZ	0.004	0	%100
42	SMPL9	PZ	0.004	0	%100
43	SMPL10	PZ	0.004	0	%100
44	SMPL11	PZ	0.004	0	%100
45	SMPL12	PZ	0.004	0	%100
46	SO1	PZ	0.002	0	%100
47	SO2	PZ	0.002	0	%100
48	SO3	PZ	0.002	0	%100

**Member Distributed Loads (BLC 29 : Ice Wind Load (30))**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.002	0	%100
2	CR2	PZ	0.002	0	%100
3	CR3	PZ	0.002	0	%100
4	CR4	PZ	0.002	0	%100
5	CR5	PZ	0.002	0	%100
6	CR6	PZ	0.002	0	%100
7	FACE1	PZ	0.001	0	%100
8	FACE2	PZ	0.003	0	%100
9	FACE3	PZ	0.003	0	%100
10	GRAT SUP1	PZ	0.002	0	%100
11	GRAT SUP2	PZ	0.002	0	%100
12	GRAT SUP3	PZ	0.002	0	%100
13	GRAT SUP4	PZ	0.002	0	%100
14	GRAT SUP5	PZ	0.002	0	%100
15	GRAT SUP6	PZ	0.002	0	%100
16	MP ALPHA1	PZ	0.003	0	%100
17	MP ALPHA2	PZ	0.003	0	%100
18	MP ALPHA3	PZ	0.003	0	%100
19	MP BETA1	PZ	0.003	0	%100



**Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
20	MP BETA2	PZ	0.003	0.003	0	%100
21	MP BETA3	PZ	0.003	0.003	0	%100
22	MP GAMMA1	PZ	0.003	0.003	0	%100
23	MP GAMMA2	PZ	0.003	0.003	0	%100
24	MP GAMMA3	PZ	0.003	0.003	0	%100
25	PL1	PZ	0.007	0.007	0	%100
26	PL2	PZ	0.004	0.004	0	%100
27	PL3	PZ	0.004	0.004	0	%100
28	RAIL CON1	PZ	0.007	0.007	0	%100
29	RAIL CON2	PZ	0.004	0.004	0	%100
30	RAIL CON3	PZ	0.004	0.004	0	%100
31	RAIL1	PZ	0.001	0.001	0	%100
32	RAIL2	PZ	0.003	0.003	0	%100
33	RAIL3	PZ	0.003	0.003	0	%100
34	SMPL1	PZ	0.003	0.003	0	%100
35	SMPL2	PZ	0.003	0.003	0	%100
36	SMPL3	PZ	0.003	0.003	0	%100
37	SMPL4	PZ	0.003	0.003	0	%100
38	SMPL5	PZ	0.003	0.003	0	%100
39	SMPL6	PZ	0.003	0.003	0	%100
40	SMPL7	PZ	0.003	0.003	0	%100
41	SMPL8	PZ	0.003	0.003	0	%100
42	SMPL9	PZ	0.003	0.003	0	%100
43	SMPL10	PZ	0.003	0.003	0	%100
44	SMPL11	PZ	0.003	0.003	0	%100
45	SMPL12	PZ	0.003	0.003	0	%100
46	SO1	PZ	0.002	0.002	0	%100
47	SO2	PZ	0.002	0.002	0	%100
48	SO3	PZ	0.002	0.002	0	%100
49	CR1	PX	-0.001	-0.001	0	%100
50	CR2	PX	-0.001	-0.001	0	%100
51	CR3	PX	-0.001	-0.001	0	%100
52	CR4	PX	-0.001	-0.001	0	%100
53	CR5	PX	-0.001	-0.001	0	%100
54	CR6	PX	-0.001	-0.001	0	%100
55	FACE1	PX	-0.000835	-0.000835	0	%100
56	FACE2	PX	-0.002	-0.002	0	%100
57	FACE3	PX	-0.002	-0.002	0	%100
58	GRAT SUP1	PX	-0.001	-0.001	0	%100
59	GRAT SUP2	PX	-0.001	-0.001	0	%100
60	GRAT SUP3	PX	-0.001	-0.001	0	%100
61	GRAT SUP4	PX	-0.001	-0.001	0	%100
62	GRAT SUP5	PX	-0.001	-0.001	0	%100
63	GRAT SUP6	PX	-0.001	-0.001	0	%100
64	MP ALPHA1	PX	-0.002	-0.002	0	%100
65	MP ALPHA2	PX	-0.002	-0.002	0	%100
66	MP ALPHA3	PX	-0.002	-0.002	0	%100
67	MP BETA1	PX	-0.002	-0.002	0	%100
68	MP BETA2	PX	-0.002	-0.002	0	%100
69	MP BETA3	PX	-0.002	-0.002	0	%100
70	MP GAMMA1	PX	-0.002	-0.002	0	%100
71	MP GAMMA2	PX	-0.002	-0.002	0	%100
72	MP GAMMA3	PX	-0.002	-0.002	0	%100
73	PL1	PX	-0.004	-0.004	0	%100
74	PL2	PX	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
75	PL3	PX	-0.002	-0.002	0	%100
76	RAIL CON1	PX	-0.004	-0.004	0	%100
77	RAIL CON2	PX	-0.002	-0.002	0	%100
78	RAIL CON3	PX	-0.002	-0.002	0	%100
79	RAIL1	PX	-0.000745	-0.000745	0	%100
80	RAIL2	PX	-0.001	-0.001	0	%100
81	RAIL3	PX	-0.001	-0.001	0	%100
82	SMPL1	PX	-0.002	-0.002	0	%100
83	SMPL2	PX	-0.002	-0.002	0	%100
84	SMPL3	PX	-0.002	-0.002	0	%100
85	SMPL4	PX	-0.002	-0.002	0	%100
86	SMPL5	PX	-0.002	-0.002	0	%100
87	SMPL6	PX	-0.002	-0.002	0	%100
88	SMPL7	PX	-0.002	-0.002	0	%100
89	SMPL8	PX	-0.002	-0.002	0	%100
90	SMPL9	PX	-0.002	-0.002	0	%100
91	SMPL10	PX	-0.002	-0.002	0	%100
92	SMPL11	PX	-0.002	-0.002	0	%100
93	SMPL12	PX	-0.002	-0.002	0	%100
94	SO1	PX	-0.000945	-0.000945	0	%100
95	SO2	PX	-0.000945	-0.000945	0	%100
96	SO3	PX	-0.000945	-0.000945	0	%100

**Member Distributed Loads (BLC 30 : Ice Wind Load (60))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.001	0.001	0	%100
2	CR2	PZ	0.001	0.001	0	%100
3	CR3	PZ	0.001	0.001	0	%100
4	CR4	PZ	0.001	0.001	0	%100
5	CR5	PZ	0.001	0.001	0	%100
6	CR6	PZ	0.001	0.001	0	%100
7	FACE1	PZ	0.000835	0.000835	0	%100
8	FACE2	PZ	0.002	0.002	0	%100
9	FACE3	PZ	0.002	0.002	0	%100
10	GRAT SUP1	PZ	0.001	0.001	0	%100
11	GRAT SUP2	PZ	0.001	0.001	0	%100
12	GRAT SUP3	PZ	0.001	0.001	0	%100
13	GRAT SUP4	PZ	0.001	0.001	0	%100
14	GRAT SUP5	PZ	0.001	0.001	0	%100
15	GRAT SUP6	PZ	0.001	0.001	0	%100
16	MP ALPHA1	PZ	0.002	0.002	0	%100
17	MP ALPHA2	PZ	0.002	0.002	0	%100
18	MP ALPHA3	PZ	0.002	0.002	0	%100
19	MP BETA1	PZ	0.002	0.002	0	%100
20	MP BETA2	PZ	0.002	0.002	0	%100
21	MP BETA3	PZ	0.002	0.002	0	%100
22	MP GAMMA1	PZ	0.002	0.002	0	%100
23	MP GAMMA2	PZ	0.002	0.002	0	%100
24	MP GAMMA3	PZ	0.002	0.002	0	%100
25	PL1	PZ	0.004	0.004	0	%100
26	PL2	PZ	0.002	0.002	0	%100
27	PL3	PZ	0.002	0.002	0	%100
28	RAIL CON1	PZ	0.004	0.004	0	%100
29	RAIL CON2	PZ	0.002	0.002	0	%100
30	RAIL CON3	PZ	0.002	0.002	0	%100

**Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
31	RAIL1	PZ	0.000745	0.000745	0	%100
32	RAIL2	PZ	0.001	0.001	0	%100
33	RAIL3	PZ	0.001	0.001	0	%100
34	SMPL1	PZ	0.002	0.002	0	%100
35	SMPL2	PZ	0.002	0.002	0	%100
36	SMPL3	PZ	0.002	0.002	0	%100
37	SMPL4	PZ	0.002	0.002	0	%100
38	SMPL5	PZ	0.002	0.002	0	%100
39	SMPL6	PZ	0.002	0.002	0	%100
40	SMPL7	PZ	0.002	0.002	0	%100
41	SMPL8	PZ	0.002	0.002	0	%100
42	SMPL9	PZ	0.002	0.002	0	%100
43	SMPL10	PZ	0.002	0.002	0	%100
44	SMPL11	PZ	0.002	0.002	0	%100
45	SMPL12	PZ	0.002	0.002	0	%100
46	SO1	PZ	0.000945	0.000945	0	%100
47	SO2	PZ	0.000945	0.000945	0	%100
48	SO3	PZ	0.000945	0.000945	0	%100
49	CR1	PX	-0.002	-0.002	0	%100
50	CR2	PX	-0.002	-0.002	0	%100
51	CR3	PX	-0.002	-0.002	0	%100
52	CR4	PX	-0.002	-0.002	0	%100
53	CR5	PX	-0.002	-0.002	0	%100
54	CR6	PX	-0.002	-0.002	0	%100
55	FACE1	PX	-0.001	-0.001	0	%100
56	FACE2	PX	-0.003	-0.003	0	%100
57	FACE3	PX	-0.003	-0.003	0	%100
58	GRAT SUP1	PX	-0.002	-0.002	0	%100
59	GRAT SUP2	PX	-0.002	-0.002	0	%100
60	GRAT SUP3	PX	-0.002	-0.002	0	%100
61	GRAT SUP4	PX	-0.002	-0.002	0	%100
62	GRAT SUP5	PX	-0.002	-0.002	0	%100
63	GRAT SUP6	PX	-0.002	-0.002	0	%100
64	MP ALPHA1	PX	-0.003	-0.003	0	%100
65	MP ALPHA2	PX	-0.003	-0.003	0	%100
66	MP ALPHA3	PX	-0.003	-0.003	0	%100
67	MP BETA1	PX	-0.003	-0.003	0	%100
68	MP BETA2	PX	-0.003	-0.003	0	%100
69	MP BETA3	PX	-0.003	-0.003	0	%100
70	MP GAMMA1	PX	-0.003	-0.003	0	%100
71	MP GAMMA2	PX	-0.003	-0.003	0	%100
72	MP GAMMA3	PX	-0.003	-0.003	0	%100
73	PL1	PX	-0.007	-0.007	0	%100
74	PL2	PX	-0.004	-0.004	0	%100
75	PL3	PX	-0.004	-0.004	0	%100
76	RAIL CON1	PX	-0.007	-0.007	0	%100
77	RAIL CON2	PX	-0.004	-0.004	0	%100
78	RAIL CON3	PX	-0.004	-0.004	0	%100
79	RAIL1	PX	-0.001	-0.001	0	%100
80	RAIL2	PX	-0.003	-0.003	0	%100
81	RAIL3	PX	-0.003	-0.003	0	%100
82	SMPL1	PX	-0.003	-0.003	0	%100
83	SMPL2	PX	-0.003	-0.003	0	%100
84	SMPL3	PX	-0.003	-0.003	0	%100
85	SMPL4	PX	-0.003	-0.003	0	%100

**Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
86	SMPL5	PX	-0.003	-0.003	0	%100
87	SMPL6	PX	-0.003	-0.003	0	%100
88	SMPL7	PX	-0.003	-0.003	0	%100
89	SMPL8	PX	-0.003	-0.003	0	%100
90	SMPL9	PX	-0.003	-0.003	0	%100
91	SMPL10	PX	-0.003	-0.003	0	%100
92	SMPL11	PX	-0.003	-0.003	0	%100
93	SMPL12	PX	-0.003	-0.003	0	%100
94	SO1	PX	-0.002	-0.002	0	%100
95	SO2	PX	-0.002	-0.002	0	%100
96	SO3	PX	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 31 : Ice Wind Load (90))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PX	-0.003	-0.003	0	%100
2	CR2	PX	-0.003	-0.003	0	%100
3	CR3	PX	-0.003	-0.003	0	%100
4	CR4	PX	-0.003	-0.003	0	%100
5	CR5	PX	-0.003	-0.003	0	%100
6	CR6	PX	-0.003	-0.003	0	%100
7	FACE2	PX	-0.002	-0.002	0	%100
8	FACE1	PX	-0.003	-0.003	0	%100
9	FACE3	PX	-0.003	-0.003	0	%100
10	GRAT SUP1	PX	-0.002	-0.002	0	%100
11	GRAT SUP2	PX	-0.002	-0.002	0	%100
12	GRAT SUP3	PX	-0.002	-0.002	0	%100
13	GRAT SUP4	PX	-0.002	-0.002	0	%100
14	GRAT SUP5	PX	-0.002	-0.002	0	%100
15	GRAT SUP6	PX	-0.002	-0.002	0	%100
16	MP ALPHA1	PX	-0.004	-0.004	0	%100
17	MP ALPHA2	PX	-0.004	-0.004	0	%100
18	MP ALPHA3	PX	-0.004	-0.004	0	%100
19	MP BETA1	PX	-0.004	-0.004	0	%100
20	MP BETA2	PX	-0.004	-0.004	0	%100
21	MP BETA3	PX	-0.004	-0.004	0	%100
22	MP GAMMA1	PX	-0.004	-0.004	0	%100
23	MP GAMMA2	PX	-0.004	-0.004	0	%100
24	MP GAMMA3	PX	-0.004	-0.004	0	%100
25	PL2	PX	-0.008	-0.008	0	%100
26	PL1	PX	-0.004	-0.004	0	%100
27	PL3	PX	-0.004	-0.004	0	%100
28	RAIL CON2	PX	-0.009	-0.009	0	%100
29	RAIL CON1	PX	-0.004	-0.004	0	%100
30	RAIL CON3	PX	-0.004	-0.004	0	%100
31	RAIL2	PX	-0.001	-0.001	0	%100
32	RAIL1	PX	-0.003	-0.003	0	%100
33	RAIL3	PX	-0.003	-0.003	0	%100
34	SMPL1	PX	-0.004	-0.004	0	%100
35	SMPL2	PX	-0.004	-0.004	0	%100
36	SMPL3	PX	-0.004	-0.004	0	%100
37	SMPL4	PX	-0.004	-0.004	0	%100
38	SMPL5	PX	-0.004	-0.004	0	%100
39	SMPL6	PX	-0.004	-0.004	0	%100
40	SMPL7	PX	-0.004	-0.004	0	%100
41	SMPL8	PX	-0.004	-0.004	0	%100

**Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	SMPL9	PX	-0.004	-0.004	0	%100
43	SMPL10	PX	-0.004	-0.004	0	%100
44	SMPL11	PX	-0.004	-0.004	0	%100
45	SMPL12	PX	-0.004	-0.004	0	%100
46	SO1	PX	-0.002	-0.002	0	%100
47	SO2	PX	-0.002	-0.002	0	%100
48	SO3	PX	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 32 : Ice Wind Load (120))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.001	-0.001	0	%100
2	CR2	PZ	-0.001	-0.001	0	%100
3	CR3	PZ	-0.001	-0.001	0	%100
4	CR4	PZ	-0.001	-0.001	0	%100
5	CR5	PZ	-0.001	-0.001	0	%100
6	CR6	PZ	-0.001	-0.001	0	%100
7	FACE2	PZ	-0.000835	-0.000835	0	%100
8	FACE1	PZ	-0.002	-0.002	0	%100
9	FACE3	PZ	-0.002	-0.002	0	%100
10	GRAT SUP1	PZ	-0.001	-0.001	0	%100
11	GRAT SUP2	PZ	-0.001	-0.001	0	%100
12	GRAT SUP3	PZ	-0.001	-0.001	0	%100
13	GRAT SUP4	PZ	-0.001	-0.001	0	%100
14	GRAT SUP5	PZ	-0.001	-0.001	0	%100
15	GRAT SUP6	PZ	-0.001	-0.001	0	%100
16	MP ALPHA1	PZ	-0.002	-0.002	0	%100
17	MP ALPHA2	PZ	-0.002	-0.002	0	%100
18	MP ALPHA3	PZ	-0.002	-0.002	0	%100
19	MP BETA1	PZ	-0.002	-0.002	0	%100
20	MP BETA2	PZ	-0.002	-0.002	0	%100
21	MP BETA3	PZ	-0.002	-0.002	0	%100
22	MP GAMMA1	PZ	-0.002	-0.002	0	%100
23	MP GAMMA2	PZ	-0.002	-0.002	0	%100
24	MP GAMMA3	PZ	-0.002	-0.002	0	%100
25	PL2	PZ	-0.004	-0.004	0	%100
26	PL1	PZ	-0.002	-0.002	0	%100
27	PL3	PZ	-0.002	-0.002	0	%100
28	RAIL CON2	PZ	-0.004	-0.004	0	%100
29	RAIL CON1	PZ	-0.002	-0.002	0	%100
30	RAIL CON3	PZ	-0.002	-0.002	0	%100
31	RAIL2	PZ	-0.000745	-0.000745	0	%100
32	RAIL1	PZ	-0.001	-0.001	0	%100
33	RAIL3	PZ	-0.001	-0.001	0	%100
34	SMPL1	PZ	-0.002	-0.002	0	%100
35	SMPL2	PZ	-0.002	-0.002	0	%100
36	SMPL3	PZ	-0.002	-0.002	0	%100
37	SMPL4	PZ	-0.002	-0.002	0	%100
38	SMPL5	PZ	-0.002	-0.002	0	%100
39	SMPL6	PZ	-0.002	-0.002	0	%100
40	SMPL7	PZ	-0.002	-0.002	0	%100
41	SMPL8	PZ	-0.002	-0.002	0	%100
42	SMPL9	PZ	-0.002	-0.002	0	%100
43	SMPL10	PZ	-0.002	-0.002	0	%100
44	SMPL11	PZ	-0.002	-0.002	0	%100
45	SMPL12	PZ	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
46	SO1	PZ	-0.000945	-0.000945	0	%100
47	SO2	PZ	-0.000945	-0.000945	0	%100
48	SO3	PZ	-0.000945	-0.000945	0	%100
49	CR1	PX	-0.002	-0.002	0	%100
50	CR2	PX	-0.002	-0.002	0	%100
51	CR3	PX	-0.002	-0.002	0	%100
52	CR4	PX	-0.002	-0.002	0	%100
53	CR5	PX	-0.002	-0.002	0	%100
54	CR6	PX	-0.002	-0.002	0	%100
55	FACE2	PX	-0.001	-0.001	0	%100
56	FACE1	PX	-0.003	-0.003	0	%100
57	FACE3	PX	-0.003	-0.003	0	%100
58	GRAT SUP1	PX	-0.002	-0.002	0	%100
59	GRAT SUP2	PX	-0.002	-0.002	0	%100
60	GRAT SUP3	PX	-0.002	-0.002	0	%100
61	GRAT SUP4	PX	-0.002	-0.002	0	%100
62	GRAT SUP5	PX	-0.002	-0.002	0	%100
63	GRAT SUP6	PX	-0.002	-0.002	0	%100
64	MP ALPHA1	PX	-0.003	-0.003	0	%100
65	MP ALPHA2	PX	-0.003	-0.003	0	%100
66	MP ALPHA3	PX	-0.003	-0.003	0	%100
67	MP BETA1	PX	-0.003	-0.003	0	%100
68	MP BETA2	PX	-0.003	-0.003	0	%100
69	MP BETA3	PX	-0.003	-0.003	0	%100
70	MP GAMMA1	PX	-0.003	-0.003	0	%100
71	MP GAMMA2	PX	-0.003	-0.003	0	%100
72	MP GAMMA3	PX	-0.003	-0.003	0	%100
73	PL2	PX	-0.007	-0.007	0	%100
74	PL1	PX	-0.004	-0.004	0	%100
75	PL3	PX	-0.004	-0.004	0	%100
76	RAIL CON2	PX	-0.007	-0.007	0	%100
77	RAIL CON1	PX	-0.004	-0.004	0	%100
78	RAIL CON3	PX	-0.004	-0.004	0	%100
79	RAIL2	PX	-0.001	-0.001	0	%100
80	RAIL1	PX	-0.003	-0.003	0	%100
81	RAIL3	PX	-0.003	-0.003	0	%100
82	SMPL1	PX	-0.003	-0.003	0	%100
83	SMPL2	PX	-0.003	-0.003	0	%100
84	SMPL3	PX	-0.003	-0.003	0	%100
85	SMPL4	PX	-0.003	-0.003	0	%100
86	SMPL5	PX	-0.003	-0.003	0	%100
87	SMPL6	PX	-0.003	-0.003	0	%100
88	SMPL7	PX	-0.003	-0.003	0	%100
89	SMPL8	PX	-0.003	-0.003	0	%100
90	SMPL9	PX	-0.003	-0.003	0	%100
91	SMPL10	PX	-0.003	-0.003	0	%100
92	SMPL11	PX	-0.003	-0.003	0	%100
93	SMPL12	PX	-0.003	-0.003	0	%100
94	SO1	PX	-0.002	-0.002	0	%100
95	SO2	PX	-0.002	-0.002	0	%100
96	SO3	PX	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 33 : Ice Wind Load (150))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.002	-0.002	0	%100
2	CR2	PZ	-0.002	-0.002	0	%100
3	CR3	PZ	-0.002	-0.002	0	%100
4	CR4	PZ	-0.002	-0.002	0	%100
5	CR5	PZ	-0.002	-0.002	0	%100
6	CR6	PZ	-0.002	-0.002	0	%100
7	FACE2	PZ	-0.001	-0.001	0	%100
8	FACE1	PZ	-0.003	-0.003	0	%100
9	FACE3	PZ	-0.003	-0.003	0	%100
10	GRAT SUP1	PZ	-0.002	-0.002	0	%100
11	GRAT SUP2	PZ	-0.002	-0.002	0	%100
12	GRAT SUP3	PZ	-0.002	-0.002	0	%100
13	GRAT SUP4	PZ	-0.002	-0.002	0	%100
14	GRAT SUP5	PZ	-0.002	-0.002	0	%100
15	GRAT SUP6	PZ	-0.002	-0.002	0	%100
16	MP ALPHA1	PZ	-0.003	-0.003	0	%100
17	MP ALPHA2	PZ	-0.003	-0.003	0	%100
18	MP ALPHA3	PZ	-0.003	-0.003	0	%100
19	MP BETA1	PZ	-0.003	-0.003	0	%100
20	MP BETA2	PZ	-0.003	-0.003	0	%100
21	MP BETA3	PZ	-0.003	-0.003	0	%100
22	MP GAMMA1	PZ	-0.003	-0.003	0	%100
23	MP GAMMA2	PZ	-0.003	-0.003	0	%100
24	MP GAMMA3	PZ	-0.003	-0.003	0	%100
25	PL2	PZ	-0.007	-0.007	0	%100
26	PL1	PZ	-0.004	-0.004	0	%100
27	PL3	PZ	-0.004	-0.004	0	%100
28	RAIL CON2	PZ	-0.007	-0.007	0	%100
29	RAIL CON1	PZ	-0.004	-0.004	0	%100
30	RAIL CON3	PZ	-0.004	-0.004	0	%100
31	RAIL2	PZ	-0.001	-0.001	0	%100
32	RAIL1	PZ	-0.003	-0.003	0	%100
33	RAIL3	PZ	-0.003	-0.003	0	%100
34	SMPL1	PZ	-0.003	-0.003	0	%100
35	SMPL2	PZ	-0.003	-0.003	0	%100
36	SMPL3	PZ	-0.003	-0.003	0	%100
37	SMPL4	PZ	-0.003	-0.003	0	%100
38	SMPL5	PZ	-0.003	-0.003	0	%100
39	SMPL6	PZ	-0.003	-0.003	0	%100
40	SMPL7	PZ	-0.003	-0.003	0	%100
41	SMPL8	PZ	-0.003	-0.003	0	%100
42	SMPL9	PZ	-0.003	-0.003	0	%100
43	SMPL10	PZ	-0.003	-0.003	0	%100
44	SMPL11	PZ	-0.003	-0.003	0	%100
45	SMPL12	PZ	-0.003	-0.003	0	%100
46	SO1	PZ	-0.002	-0.002	0	%100
47	SO2	PZ	-0.002	-0.002	0	%100
48	SO3	PZ	-0.002	-0.002	0	%100
49	CR1	PX	-0.001	-0.001	0	%100
50	CR2	PX	-0.001	-0.001	0	%100
51	CR3	PX	-0.001	-0.001	0	%100
52	CR4	PX	-0.001	-0.001	0	%100
53	CR5	PX	-0.001	-0.001	0	%100
54	CR6	PX	-0.001	-0.001	0	%100
55	FACE2	PX	-0.000835	-0.000835	0	%100



Company : POD  
 Designer : MMM  
 Job Number : 24-164635  
 Model Name : 826053

1/26/2024  
 4:10:27 PM  
 Checked By : \_\_\_\_\_

**Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	FACE1	PX	-0.002	-0.002	0	%100
57	FACE3	PX	-0.002	-0.002	0	%100
58	GRAT SUP1	PX	-0.001	-0.001	0	%100
59	GRAT SUP2	PX	-0.001	-0.001	0	%100
60	GRAT SUP3	PX	-0.001	-0.001	0	%100
61	GRAT SUP4	PX	-0.001	-0.001	0	%100
62	GRAT SUP5	PX	-0.001	-0.001	0	%100
63	GRAT SUP6	PX	-0.001	-0.001	0	%100
64	MP ALPHA1	PX	-0.002	-0.002	0	%100
65	MP ALPHA2	PX	-0.002	-0.002	0	%100
66	MP ALPHA3	PX	-0.002	-0.002	0	%100
67	MP BETA1	PX	-0.002	-0.002	0	%100
68	MP BETA2	PX	-0.002	-0.002	0	%100
69	MP BETA3	PX	-0.002	-0.002	0	%100
70	MP GAMMA1	PX	-0.002	-0.002	0	%100
71	MP GAMMA2	PX	-0.002	-0.002	0	%100
72	MP GAMMA3	PX	-0.002	-0.002	0	%100
73	PL2	PX	-0.004	-0.004	0	%100
74	PL1	PX	-0.002	-0.002	0	%100
75	PL3	PX	-0.002	-0.002	0	%100
76	RAIL CON2	PX	-0.004	-0.004	0	%100
77	RAIL CON1	PX	-0.002	-0.002	0	%100
78	RAIL CON3	PX	-0.002	-0.002	0	%100
79	RAIL2	PX	-0.000745	-0.000745	0	%100
80	RAIL1	PX	-0.001	-0.001	0	%100
81	RAIL3	PX	-0.001	-0.001	0	%100
82	SMPL1	PX	-0.002	-0.002	0	%100
83	SMPL2	PX	-0.002	-0.002	0	%100
84	SMPL3	PX	-0.002	-0.002	0	%100
85	SMPL4	PX	-0.002	-0.002	0	%100
86	SMPL5	PX	-0.002	-0.002	0	%100
87	SMPL6	PX	-0.002	-0.002	0	%100
88	SMPL7	PX	-0.002	-0.002	0	%100
89	SMPL8	PX	-0.002	-0.002	0	%100
90	SMPL9	PX	-0.002	-0.002	0	%100
91	SMPL10	PX	-0.002	-0.002	0	%100
92	SMPL11	PX	-0.002	-0.002	0	%100
93	SMPL12	PX	-0.002	-0.002	0	%100
94	SO1	PX	-0.000945	-0.000945	0	%100
95	SO2	PX	-0.000945	-0.000945	0	%100
96	SO3	PX	-0.000945	-0.000945	0	%100

**Member Distributed Loads (BLC 34 : Ice Wind Load (180))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.003	-0.003	0	%100
2	CR2	PZ	-0.003	-0.003	0	%100
3	CR3	PZ	-0.003	-0.003	0	%100
4	CR4	PZ	-0.003	-0.003	0	%100
5	CR5	PZ	-0.003	-0.003	0	%100
6	CR6	PZ	-0.003	-0.003	0	%100
7	FACE2	PZ	-0.002	-0.002	0	%100
8	FACE1	PZ	-0.003	-0.003	0	%100
9	FACE3	PZ	-0.003	-0.003	0	%100
10	GRAT SUP1	PZ	-0.002	-0.002	0	%100
11	GRAT SUP2	PZ	-0.002	-0.002	0	%100



**Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
12	GRAT SUP3	PZ	-0.002	-0.002	0	%100
13	GRAT SUP4	PZ	-0.002	-0.002	0	%100
14	GRAT SUP5	PZ	-0.002	-0.002	0	%100
15	GRAT SUP6	PZ	-0.002	-0.002	0	%100
16	MP ALPHA1	PZ	-0.004	-0.004	0	%100
17	MP ALPHA2	PZ	-0.004	-0.004	0	%100
18	MP ALPHA3	PZ	-0.004	-0.004	0	%100
19	MP BETA1	PZ	-0.004	-0.004	0	%100
20	MP BETA2	PZ	-0.004	-0.004	0	%100
21	MP BETA3	PZ	-0.004	-0.004	0	%100
22	MP GAMMA1	PZ	-0.004	-0.004	0	%100
23	MP GAMMA2	PZ	-0.004	-0.004	0	%100
24	MP GAMMA3	PZ	-0.004	-0.004	0	%100
25	PL2	PZ	-0.008	-0.008	0	%100
26	PL1	PZ	-0.004	-0.004	0	%100
27	PL3	PZ	-0.004	-0.004	0	%100
28	RAIL CON2	PZ	-0.009	-0.009	0	%100
29	RAIL CON1	PZ	-0.004	-0.004	0	%100
30	RAIL CON3	PZ	-0.004	-0.004	0	%100
31	RAIL2	PZ	-0.001	-0.001	0	%100
32	RAIL1	PZ	-0.003	-0.003	0	%100
33	RAIL3	PZ	-0.003	-0.003	0	%100
34	SMPL1	PZ	-0.004	-0.004	0	%100
35	SMPL2	PZ	-0.004	-0.004	0	%100
36	SMPL3	PZ	-0.004	-0.004	0	%100
37	SMPL4	PZ	-0.004	-0.004	0	%100
38	SMPL5	PZ	-0.004	-0.004	0	%100
39	SMPL6	PZ	-0.004	-0.004	0	%100
40	SMPL7	PZ	-0.004	-0.004	0	%100
41	SMPL8	PZ	-0.004	-0.004	0	%100
42	SMPL9	PZ	-0.004	-0.004	0	%100
43	SMPL10	PZ	-0.004	-0.004	0	%100
44	SMPL11	PZ	-0.004	-0.004	0	%100
45	SMPL12	PZ	-0.004	-0.004	0	%100
46	SO1	PZ	-0.002	-0.002	0	%100
47	SO2	PZ	-0.002	-0.002	0	%100
48	SO3	PZ	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 35 : Ice Wind Load (210))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.002	-0.002	0	%100
2	CR2	PZ	-0.002	-0.002	0	%100
3	CR3	PZ	-0.002	-0.002	0	%100
4	CR4	PZ	-0.002	-0.002	0	%100
5	CR5	PZ	-0.002	-0.002	0	%100
6	CR6	PZ	-0.002	-0.002	0	%100
7	FACE3	PZ	-0.001	-0.001	0	%100
8	FACE2	PZ	-0.003	-0.003	0	%100
9	FACE1	PZ	-0.003	-0.003	0	%100
10	GRAT SUP1	PZ	-0.002	-0.002	0	%100
11	GRAT SUP2	PZ	-0.002	-0.002	0	%100
12	GRAT SUP3	PZ	-0.002	-0.002	0	%100
13	GRAT SUP4	PZ	-0.002	-0.002	0	%100
14	GRAT SUP5	PZ	-0.002	-0.002	0	%100
15	GRAT SUP6	PZ	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
16	MP ALPHA1	PZ	-0.003	-0.003	0 %100
17	MP ALPHA2	PZ	-0.003	-0.003	0 %100
18	MP ALPHA3	PZ	-0.003	-0.003	0 %100
19	MP BETA1	PZ	-0.003	-0.003	0 %100
20	MP BETA2	PZ	-0.003	-0.003	0 %100
21	MP BETA3	PZ	-0.003	-0.003	0 %100
22	MP GAMMA1	PZ	-0.003	-0.003	0 %100
23	MP GAMMA2	PZ	-0.003	-0.003	0 %100
24	MP GAMMA3	PZ	-0.003	-0.003	0 %100
25	PL3	PZ	-0.007	-0.007	0 %100
26	PL2	PZ	-0.004	-0.004	0 %100
27	PL1	PZ	-0.004	-0.004	0 %100
28	RAIL CON3	PZ	-0.007	-0.007	0 %100
29	RAIL CON2	PZ	-0.004	-0.004	0 %100
30	RAIL CON1	PZ	-0.004	-0.004	0 %100
31	RAIL3	PZ	-0.001	-0.001	0 %100
32	RAIL2	PZ	-0.003	-0.003	0 %100
33	RAIL1	PZ	-0.003	-0.003	0 %100
34	SMPL1	PZ	-0.003	-0.003	0 %100
35	SMPL2	PZ	-0.003	-0.003	0 %100
36	SMPL3	PZ	-0.003	-0.003	0 %100
37	SMPL4	PZ	-0.003	-0.003	0 %100
38	SMPL5	PZ	-0.003	-0.003	0 %100
39	SMPL6	PZ	-0.003	-0.003	0 %100
40	SMPL7	PZ	-0.003	-0.003	0 %100
41	SMPL8	PZ	-0.003	-0.003	0 %100
42	SMPL9	PZ	-0.003	-0.003	0 %100
43	SMPL10	PZ	-0.003	-0.003	0 %100
44	SMPL11	PZ	-0.003	-0.003	0 %100
45	SMPL12	PZ	-0.003	-0.003	0 %100
46	SO1	PZ	-0.002	-0.002	0 %100
47	SO2	PZ	-0.002	-0.002	0 %100
48	SO3	PZ	-0.002	-0.002	0 %100
49	CR1	PX	0.001	0.001	0 %100
50	CR2	PX	0.001	0.001	0 %100
51	CR3	PX	0.001	0.001	0 %100
52	CR4	PX	0.001	0.001	0 %100
53	CR5	PX	0.001	0.001	0 %100
54	CR6	PX	0.001	0.001	0 %100
55	FACE3	PX	0.000835	0.000835	0 %100
56	FACE2	PX	0.002	0.002	0 %100
57	FACE1	PX	0.002	0.002	0 %100
58	GRAT SUP1	PX	0.001	0.001	0 %100
59	GRAT SUP2	PX	0.001	0.001	0 %100
60	GRAT SUP3	PX	0.001	0.001	0 %100
61	GRAT SUP4	PX	0.001	0.001	0 %100
62	GRAT SUP5	PX	0.001	0.001	0 %100
63	GRAT SUP6	PX	0.001	0.001	0 %100
64	MP ALPHA1	PX	0.002	0.002	0 %100
65	MP ALPHA2	PX	0.002	0.002	0 %100
66	MP ALPHA3	PX	0.002	0.002	0 %100
67	MP BETA1	PX	0.002	0.002	0 %100
68	MP BETA2	PX	0.002	0.002	0 %100
69	MP BETA3	PX	0.002	0.002	0 %100
70	MP GAMMA1	PX	0.002	0.002	0 %100

**Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
71	MP GAMMA2	PX	0.002	0.002	0	%100
72	MP GAMMA3	PX	0.002	0.002	0	%100
73	PL3	PX	0.004	0.004	0	%100
74	PL2	PX	0.002	0.002	0	%100
75	PL1	PX	0.002	0.002	0	%100
76	RAIL CON3	PX	0.004	0.004	0	%100
77	RAIL CON2	PX	0.002	0.002	0	%100
78	RAIL CON1	PX	0.002	0.002	0	%100
79	RAIL3	PX	0.000745	0.000745	0	%100
80	RAIL2	PX	0.001	0.001	0	%100
81	RAIL1	PX	0.001	0.001	0	%100
82	SMPL1	PX	0.002	0.002	0	%100
83	SMPL2	PX	0.002	0.002	0	%100
84	SMPL3	PX	0.002	0.002	0	%100
85	SMPL4	PX	0.002	0.002	0	%100
86	SMPL5	PX	0.002	0.002	0	%100
87	SMPL6	PX	0.002	0.002	0	%100
88	SMPL7	PX	0.002	0.002	0	%100
89	SMPL8	PX	0.002	0.002	0	%100
90	SMPL9	PX	0.002	0.002	0	%100
91	SMPL10	PX	0.002	0.002	0	%100
92	SMPL11	PX	0.002	0.002	0	%100
93	SMPL12	PX	0.002	0.002	0	%100
94	SO1	PX	0.000945	0.000945	0	%100
95	SO2	PX	0.000945	0.000945	0	%100
96	SO3	PX	0.000945	0.000945	0	%100

**Member Distributed Loads (BLC 36 : Ice Wind Load (240))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	-0.001	-0.001	0	%100
2	CR2	PZ	-0.001	-0.001	0	%100
3	CR3	PZ	-0.001	-0.001	0	%100
4	CR4	PZ	-0.001	-0.001	0	%100
5	CR5	PZ	-0.001	-0.001	0	%100
6	CR6	PZ	-0.001	-0.001	0	%100
7	FACE3	PZ	-0.000835	-0.000835	0	%100
8	FACE2	PZ	-0.002	-0.002	0	%100
9	FACE1	PZ	-0.002	-0.002	0	%100
10	GRAT SUP1	PZ	-0.001	-0.001	0	%100
11	GRAT SUP2	PZ	-0.001	-0.001	0	%100
12	GRAT SUP3	PZ	-0.001	-0.001	0	%100
13	GRAT SUP4	PZ	-0.001	-0.001	0	%100
14	GRAT SUP5	PZ	-0.001	-0.001	0	%100
15	GRAT SUP6	PZ	-0.001	-0.001	0	%100
16	MP ALPHA1	PZ	-0.002	-0.002	0	%100
17	MP ALPHA2	PZ	-0.002	-0.002	0	%100
18	MP ALPHA3	PZ	-0.002	-0.002	0	%100
19	MP BETA1	PZ	-0.002	-0.002	0	%100
20	MP BETA2	PZ	-0.002	-0.002	0	%100
21	MP BETA3	PZ	-0.002	-0.002	0	%100
22	MP GAMMA1	PZ	-0.002	-0.002	0	%100
23	MP GAMMA2	PZ	-0.002	-0.002	0	%100
24	MP GAMMA3	PZ	-0.002	-0.002	0	%100
25	PL3	PZ	-0.004	-0.004	0	%100
26	PL2	PZ	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)**

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	PL1	PZ	-0.002	-0.002	0 %100
28	RAIL CON3	PZ	-0.004	-0.004	0 %100
29	RAIL CON2	PZ	-0.002	-0.002	0 %100
30	RAIL CON1	PZ	-0.002	-0.002	0 %100
31	RAIL3	PZ	-0.000745	-0.000745	0 %100
32	RAIL2	PZ	-0.001	-0.001	0 %100
33	RAIL1	PZ	-0.001	-0.001	0 %100
34	SMPL1	PZ	-0.002	-0.002	0 %100
35	SMPL2	PZ	-0.002	-0.002	0 %100
36	SMPL3	PZ	-0.002	-0.002	0 %100
37	SMPL4	PZ	-0.002	-0.002	0 %100
38	SMPL5	PZ	-0.002	-0.002	0 %100
39	SMPL6	PZ	-0.002	-0.002	0 %100
40	SMPL7	PZ	-0.002	-0.002	0 %100
41	SMPL8	PZ	-0.002	-0.002	0 %100
42	SMPL9	PZ	-0.002	-0.002	0 %100
43	SMPL10	PZ	-0.002	-0.002	0 %100
44	SMPL11	PZ	-0.002	-0.002	0 %100
45	SMPL12	PZ	-0.002	-0.002	0 %100
46	SO1	PZ	-0.000945	-0.000945	0 %100
47	SO2	PZ	-0.000945	-0.000945	0 %100
48	SO3	PZ	-0.000945	-0.000945	0 %100
49	CR1	PX	0.002	0.002	0 %100
50	CR2	PX	0.002	0.002	0 %100
51	CR3	PX	0.002	0.002	0 %100
52	CR4	PX	0.002	0.002	0 %100
53	CR5	PX	0.002	0.002	0 %100
54	CR6	PX	0.002	0.002	0 %100
55	FACE3	PX	0.001	0.001	0 %100
56	FACE2	PX	0.003	0.003	0 %100
57	FACE1	PX	0.003	0.003	0 %100
58	GRAT SUP1	PX	0.002	0.002	0 %100
59	GRAT SUP2	PX	0.002	0.002	0 %100
60	GRAT SUP3	PX	0.002	0.002	0 %100
61	GRAT SUP4	PX	0.002	0.002	0 %100
62	GRAT SUP5	PX	0.002	0.002	0 %100
63	GRAT SUP6	PX	0.002	0.002	0 %100
64	MP ALPHA1	PX	0.003	0.003	0 %100
65	MP ALPHA2	PX	0.003	0.003	0 %100
66	MP ALPHA3	PX	0.003	0.003	0 %100
67	MP BETA1	PX	0.003	0.003	0 %100
68	MP BETA2	PX	0.003	0.003	0 %100
69	MP BETA3	PX	0.003	0.003	0 %100
70	MP GAMMA1	PX	0.003	0.003	0 %100
71	MP GAMMA2	PX	0.003	0.003	0 %100
72	MP GAMMA3	PX	0.003	0.003	0 %100
73	PL3	PX	0.007	0.007	0 %100
74	PL2	PX	0.004	0.004	0 %100
75	PL1	PX	0.004	0.004	0 %100
76	RAIL CON3	PX	0.007	0.007	0 %100
77	RAIL CON2	PX	0.004	0.004	0 %100
78	RAIL CON1	PX	0.004	0.004	0 %100
79	RAIL3	PX	0.001	0.001	0 %100
80	RAIL2	PX	0.003	0.003	0 %100
81	RAIL1	PX	0.003	0.003	0 %100

**Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
82	SMPL1	PX	0.003	0.003	0	%100
83	SMPL2	PX	0.003	0.003	0	%100
84	SMPL3	PX	0.003	0.003	0	%100
85	SMPL4	PX	0.003	0.003	0	%100
86	SMPL5	PX	0.003	0.003	0	%100
87	SMPL6	PX	0.003	0.003	0	%100
88	SMPL7	PX	0.003	0.003	0	%100
89	SMPL8	PX	0.003	0.003	0	%100
90	SMPL9	PX	0.003	0.003	0	%100
91	SMPL10	PX	0.003	0.003	0	%100
92	SMPL11	PX	0.003	0.003	0	%100
93	SMPL12	PX	0.003	0.003	0	%100
94	SO1	PX	0.002	0.002	0	%100
95	SO2	PX	0.002	0.002	0	%100
96	SO3	PX	0.002	0.002	0	%100

**Member Distributed Loads (BLC 37 : Ice Wind Load (270))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PX	0.003	0.003	0	%100
2	CR2	PX	0.003	0.003	0	%100
3	CR3	PX	0.003	0.003	0	%100
4	CR4	PX	0.003	0.003	0	%100
5	CR5	PX	0.003	0.003	0	%100
6	CR6	PX	0.003	0.003	0	%100
7	FACE3	PX	0.002	0.002	0	%100
8	FACE2	PX	0.003	0.003	0	%100
9	FACE1	PX	0.003	0.003	0	%100
10	GRAT SUP1	PX	0.002	0.002	0	%100
11	GRAT SUP2	PX	0.002	0.002	0	%100
12	GRAT SUP3	PX	0.002	0.002	0	%100
13	GRAT SUP4	PX	0.002	0.002	0	%100
14	GRAT SUP5	PX	0.002	0.002	0	%100
15	GRAT SUP6	PX	0.002	0.002	0	%100
16	MP ALPHA1	PX	0.004	0.004	0	%100
17	MP ALPHA2	PX	0.004	0.004	0	%100
18	MP ALPHA3	PX	0.004	0.004	0	%100
19	MP BETA1	PX	0.004	0.004	0	%100
20	MP BETA2	PX	0.004	0.004	0	%100
21	MP BETA3	PX	0.004	0.004	0	%100
22	MP GAMMA1	PX	0.004	0.004	0	%100
23	MP GAMMA2	PX	0.004	0.004	0	%100
24	MP GAMMA3	PX	0.004	0.004	0	%100
25	PL3	PX	0.008	0.008	0	%100
26	PL2	PX	0.004	0.004	0	%100
27	PL1	PX	0.004	0.004	0	%100
28	RAIL CON3	PX	0.009	0.009	0	%100
29	RAIL CON2	PX	0.004	0.004	0	%100
30	RAIL CON1	PX	0.004	0.004	0	%100
31	RAIL3	PX	0.001	0.001	0	%100
32	RAIL2	PX	0.003	0.003	0	%100
33	RAIL1	PX	0.003	0.003	0	%100
34	SMPL1	PX	0.004	0.004	0	%100
35	SMPL2	PX	0.004	0.004	0	%100
36	SMPL3	PX	0.004	0.004	0	%100
37	SMPL4	PX	0.004	0.004	0	%100

**Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
38	SMPL5	PX	0.004	0.004	0	%100
39	SMPL6	PX	0.004	0.004	0	%100
40	SMPL7	PX	0.004	0.004	0	%100
41	SMPL8	PX	0.004	0.004	0	%100
42	SMPL9	PX	0.004	0.004	0	%100
43	SMPL10	PX	0.004	0.004	0	%100
44	SMPL11	PX	0.004	0.004	0	%100
45	SMPL12	PX	0.004	0.004	0	%100
46	SO1	PX	0.002	0.002	0	%100
47	SO2	PX	0.002	0.002	0	%100
48	SO3	PX	0.002	0.002	0	%100

**Member Distributed Loads (BLC 38 : Ice Wind Load (300))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.001	0.001	0	%100
2	CR2	PZ	0.001	0.001	0	%100
3	CR3	PZ	0.001	0.001	0	%100
4	CR4	PZ	0.001	0.001	0	%100
5	CR5	PZ	0.001	0.001	0	%100
6	CR6	PZ	0.001	0.001	0	%100
7	FACE3	PZ	0.000835	0.000835	0	%100
8	FACE2	PZ	0.002	0.002	0	%100
9	FACE1	PZ	0.002	0.002	0	%100
10	GRAT SUP1	PZ	0.001	0.001	0	%100
11	GRAT SUP2	PZ	0.001	0.001	0	%100
12	GRAT SUP3	PZ	0.001	0.001	0	%100
13	GRAT SUP4	PZ	0.001	0.001	0	%100
14	GRAT SUP5	PZ	0.001	0.001	0	%100
15	GRAT SUP6	PZ	0.001	0.001	0	%100
16	MP ALPHA1	PZ	0.002	0.002	0	%100
17	MP ALPHA2	PZ	0.002	0.002	0	%100
18	MP ALPHA3	PZ	0.002	0.002	0	%100
19	MP BETA1	PZ	0.002	0.002	0	%100
20	MP BETA2	PZ	0.002	0.002	0	%100
21	MP BETA3	PZ	0.002	0.002	0	%100
22	MP GAMMA1	PZ	0.002	0.002	0	%100
23	MP GAMMA2	PZ	0.002	0.002	0	%100
24	MP GAMMA3	PZ	0.002	0.002	0	%100
25	PL3	PZ	0.004	0.004	0	%100
26	PL2	PZ	0.002	0.002	0	%100
27	PL1	PZ	0.002	0.002	0	%100
28	RAIL CON3	PZ	0.004	0.004	0	%100
29	RAIL CON2	PZ	0.002	0.002	0	%100
30	RAIL CON1	PZ	0.002	0.002	0	%100
31	RAIL3	PZ	0.000745	0.000745	0	%100
32	RAIL2	PZ	0.001	0.001	0	%100
33	RAIL1	PZ	0.001	0.001	0	%100
34	SMPL1	PZ	0.002	0.002	0	%100
35	SMPL2	PZ	0.002	0.002	0	%100
36	SMPL3	PZ	0.002	0.002	0	%100
37	SMPL4	PZ	0.002	0.002	0	%100
38	SMPL5	PZ	0.002	0.002	0	%100
39	SMPL6	PZ	0.002	0.002	0	%100
40	SMPL7	PZ	0.002	0.002	0	%100
41	SMPL8	PZ	0.002	0.002	0	%100

**Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	SMPL9	PZ	0.002	0.002	0	%100
43	SMPL10	PZ	0.002	0.002	0	%100
44	SMPL11	PZ	0.002	0.002	0	%100
45	SMPL12	PZ	0.002	0.002	0	%100
46	SO1	PZ	0.000945	0.000945	0	%100
47	SO2	PZ	0.000945	0.000945	0	%100
48	SO3	PZ	0.000945	0.000945	0	%100
49	CR1	PX	0.002	0.002	0	%100
50	CR2	PX	0.002	0.002	0	%100
51	CR3	PX	0.002	0.002	0	%100
52	CR4	PX	0.002	0.002	0	%100
53	CR5	PX	0.002	0.002	0	%100
54	CR6	PX	0.002	0.002	0	%100
55	FACE3	PX	0.001	0.001	0	%100
56	FACE2	PX	0.003	0.003	0	%100
57	FACE1	PX	0.003	0.003	0	%100
58	GRAT SUP1	PX	0.002	0.002	0	%100
59	GRAT SUP2	PX	0.002	0.002	0	%100
60	GRAT SUP3	PX	0.002	0.002	0	%100
61	GRAT SUP4	PX	0.002	0.002	0	%100
62	GRAT SUP5	PX	0.002	0.002	0	%100
63	GRAT SUP6	PX	0.002	0.002	0	%100
64	MP ALPHA1	PX	0.003	0.003	0	%100
65	MP ALPHA2	PX	0.003	0.003	0	%100
66	MP ALPHA3	PX	0.003	0.003	0	%100
67	MP BETA1	PX	0.003	0.003	0	%100
68	MP BETA2	PX	0.003	0.003	0	%100
69	MP BETA3	PX	0.003	0.003	0	%100
70	MP GAMMA1	PX	0.003	0.003	0	%100
71	MP GAMMA2	PX	0.003	0.003	0	%100
72	MP GAMMA3	PX	0.003	0.003	0	%100
73	PL3	PX	0.007	0.007	0	%100
74	PL2	PX	0.004	0.004	0	%100
75	PL1	PX	0.004	0.004	0	%100
76	RAIL CON3	PX	0.007	0.007	0	%100
77	RAIL CON2	PX	0.004	0.004	0	%100
78	RAIL CON1	PX	0.004	0.004	0	%100
79	RAIL3	PX	0.001	0.001	0	%100
80	RAIL2	PX	0.003	0.003	0	%100
81	RAIL1	PX	0.003	0.003	0	%100
82	SMPL1	PX	0.003	0.003	0	%100
83	SMPL2	PX	0.003	0.003	0	%100
84	SMPL3	PX	0.003	0.003	0	%100
85	SMPL4	PX	0.003	0.003	0	%100
86	SMPL5	PX	0.003	0.003	0	%100
87	SMPL6	PX	0.003	0.003	0	%100
88	SMPL7	PX	0.003	0.003	0	%100
89	SMPL8	PX	0.003	0.003	0	%100
90	SMPL9	PX	0.003	0.003	0	%100
91	SMPL10	PX	0.003	0.003	0	%100
92	SMPL11	PX	0.003	0.003	0	%100
93	SMPL12	PX	0.003	0.003	0	%100
94	SO1	PX	0.002	0.002	0	%100
95	SO2	PX	0.002	0.002	0	%100
96	SO3	PX	0.002	0.002	0	%100



Company : POD  
Designer : MMM  
Job Number : 24-164635  
Model Name : 826053

1/26/2024  
4:10:27 PM  
Checked By : \_\_\_\_\_

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***Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)***

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Member Label Direction Start Magnitude [lb/ft, F, psf, k-ft/ft] End Magnitude [lb/ft, F, psf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]



**Member Distributed Loads (BLC 39 : Ice Wind Load (330))**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	CR1	PZ	0.002	0.002	0	%100
2	CR2	PZ	0.002	0.002	0	%100
3	CR3	PZ	0.002	0.002	0	%100
4	CR4	PZ	0.002	0.002	0	%100
5	CR5	PZ	0.002	0.002	0	%100
6	CR6	PZ	0.002	0.002	0	%100
7	FACE1	PZ	0.001	0.001	0	%100
8	FACE2	PZ	0.003	0.003	0	%100
9	FACE3	PZ	0.003	0.003	0	%100
10	GRAT SUP1	PZ	0.002	0.002	0	%100
11	GRAT SUP2	PZ	0.002	0.002	0	%100
12	GRAT SUP3	PZ	0.002	0.002	0	%100
13	GRAT SUP4	PZ	0.002	0.002	0	%100
14	GRAT SUP5	PZ	0.002	0.002	0	%100
15	GRAT SUP6	PZ	0.002	0.002	0	%100
16	MP ALPHA1	PZ	0.003	0.003	0	%100
17	MP ALPHA2	PZ	0.003	0.003	0	%100
18	MP ALPHA3	PZ	0.003	0.003	0	%100
19	MP BETA1	PZ	0.003	0.003	0	%100
20	MP BETA2	PZ	0.003	0.003	0	%100
21	MP BETA3	PZ	0.003	0.003	0	%100
22	MP GAMMA1	PZ	0.003	0.003	0	%100
23	MP GAMMA2	PZ	0.003	0.003	0	%100
24	MP GAMMA3	PZ	0.003	0.003	0	%100
25	PL1	PZ	0.007	0.007	0	%100
26	PL2	PZ	0.004	0.004	0	%100
27	PL3	PZ	0.004	0.004	0	%100
28	RAIL CON1	PZ	0.007	0.007	0	%100
29	RAIL CON2	PZ	0.004	0.004	0	%100
30	RAIL CON3	PZ	0.004	0.004	0	%100
31	RAIL1	PZ	0.001	0.001	0	%100
32	RAIL2	PZ	0.003	0.003	0	%100
33	RAIL3	PZ	0.003	0.003	0	%100
34	SMPL1	PZ	0.003	0.003	0	%100
35	SMPL2	PZ	0.003	0.003	0	%100
36	SMPL3	PZ	0.003	0.003	0	%100
37	SMPL4	PZ	0.003	0.003	0	%100
38	SMPL5	PZ	0.003	0.003	0	%100
39	SMPL6	PZ	0.003	0.003	0	%100
40	SMPL7	PZ	0.003	0.003	0	%100
41	SMPL8	PZ	0.003	0.003	0	%100
42	SMPL9	PZ	0.003	0.003	0	%100
43	SMPL10	PZ	0.003	0.003	0	%100
44	SMPL11	PZ	0.003	0.003	0	%100
45	SMPL12	PZ	0.003	0.003	0	%100
46	SO1	PZ	0.002	0.002	0	%100
47	SO2	PZ	0.002	0.002	0	%100
48	SO3	PZ	0.002	0.002	0	%100
49	CR1	PX	0.001	0.001	0	%100
50	CR2	PX	0.001	0.001	0	%100
51	CR3	PX	0.001	0.001	0	%100
52	CR4	PX	0.001	0.001	0	%100
53	CR5	PX	0.001	0.001	0	%100
54	CR6	PX	0.001	0.001	0	%100
55	FACE1	PX	0.000835	0.000835	0	%100

**Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)**

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/ft]	End Magnitude [lb/ft, F, psf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
56	FACE2	PX	0.002	0.002	0	%100
57	FACE3	PX	0.002	0.002	0	%100
58	GRAT SUP1	PX	0.001	0.001	0	%100
59	GRAT SUP2	PX	0.001	0.001	0	%100
60	GRAT SUP3	PX	0.001	0.001	0	%100
61	GRAT SUP4	PX	0.001	0.001	0	%100
62	GRAT SUP5	PX	0.001	0.001	0	%100
63	GRAT SUP6	PX	0.001	0.001	0	%100
64	MP ALPHA1	PX	0.002	0.002	0	%100
65	MP ALPHA2	PX	0.002	0.002	0	%100
66	MP ALPHA3	PX	0.002	0.002	0	%100
67	MP BETA1	PX	0.002	0.002	0	%100
68	MP BETA2	PX	0.002	0.002	0	%100
69	MP BETA3	PX	0.002	0.002	0	%100
70	MP GAMMA1	PX	0.002	0.002	0	%100
71	MP GAMMA2	PX	0.002	0.002	0	%100
72	MP GAMMA3	PX	0.002	0.002	0	%100
73	PL1	PX	0.004	0.004	0	%100
74	PL2	PX	0.002	0.002	0	%100
75	PL3	PX	0.002	0.002	0	%100
76	RAIL CON1	PX	0.004	0.004	0	%100
77	RAIL CON2	PX	0.002	0.002	0	%100
78	RAIL CON3	PX	0.002	0.002	0	%100
79	RAIL1	PX	0.000745	0.000745	0	%100
80	RAIL2	PX	0.001	0.001	0	%100
81	RAIL3	PX	0.001	0.001	0	%100
82	SMPL1	PX	0.002	0.002	0	%100
83	SMPL2	PX	0.002	0.002	0	%100
84	SMPL3	PX	0.002	0.002	0	%100
85	SMPL4	PX	0.002	0.002	0	%100
86	SMPL5	PX	0.002	0.002	0	%100
87	SMPL6	PX	0.002	0.002	0	%100
88	SMPL7	PX	0.002	0.002	0	%100
89	SMPL8	PX	0.002	0.002	0	%100
90	SMPL9	PX	0.002	0.002	0	%100
91	SMPL10	PX	0.002	0.002	0	%100
92	SMPL11	PX	0.002	0.002	0	%100
93	SMPL12	PX	0.002	0.002	0	%100
94	SO1	PX	0.000945	0.000945	0	%100
95	SO2	PX	0.000945	0.000945	0	%100
96	SO3	PX	0.000945	0.000945	0	%100

**Member Area Loads**

No Data to Print...													
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**Envelope Node Reactions**

Node	Label		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
0	P24	max	0.371	5	1.347	32	0.638	23	0.291	17	0.98	5	2.695	32
1		min	-0.303	26	0.126	14	-0.717	5	-2.218	35	-0.86	23	0.003	14
2	P13	max	0.561	14	1.33	8	0.867	17	0.094	23	1.281	17	-0.112	29
3		min	-0.5	32	0.203	26	-0.771	35	-1.613	5	-1.186	35	-2.996	11
4	P1	max	0.595	8	1.359	20	0.227	20	3.369	20	0.802	29	0.662	26
5		min	-0.657	29	0.1	2	-0.218	2	-0.104	2	-0.786	8	-0.377	11
6	Totals:	max	1.349	11	3.189	30	1.49	20						

**Envelope Node Reactions (Continued)**

Node Label	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
7	min	-1.289	29	2.23	11	-1.406	2					

**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
1	Live Load	DL					
2	Wind Load (0)	DL				17	48
3	Dead Load	DL		-1.1		15	
4	Wind Load (30)	DL				31	96
5	Wind Load (60)	DL				31	96
6	Wind Load (90)	DL				17	48
7	Wind Load (120)	DL				31	96
8	Wind Load (150)	DL				31	96
9	Wind Load (180)	DL				17	48
10	Wind Load (210)	DL				31	96
11	Wind Load (240)	DL				31	96
12	Wind Load (270)	DL				17	48
13	Wind Load (300)	DL				31	96
14	Wind Load (330)	DL				31	96
15	Maintenance (0)	DL				17	48
16	Maintenance (30)	DL				31	96
17	Maintenance (60)	DL				31	96
18	Maintenance (90)	DL				17	48
19	Maintenance (120)	DL				31	96
20	Maintenance (150)	DL				31	96
21	Maintenance (180)	DL				17	48
22	Maintenance (210)	DL				31	96
23	Maintenance (240)	DL				31	96
24	Maintenance (270)	DL				17	48
25	Maintenance (300)	DL				31	96
26	Maintenance (330)	DL				31	96
27	Ice Dead Load	DL				15	48
28	Ice Wind Load (0)	DL				17	48
29	Ice Wind Load (30)	DL				31	96
30	Ice Wind Load (60)	DL				31	96
31	Ice Wind Load (90)	DL				17	48
32	Ice Wind Load (120)	DL				31	96
33	Ice Wind Load (150)	DL				31	96
34	Ice Wind Load (180)	DL				17	48
35	Ice Wind Load (210)	DL				31	96
36	Ice Wind Load (240)	DL				31	96
37	Ice Wind Load (270)	DL				17	48
38	Ice Wind Load (300)	DL				31	96
39	Ice Wind Load (330)	DL				31	96
40	Earthquake (x-direction)	DL	-0.125			15	
41	Earthquake (y-direction)	DL		-0.05		15	
42	Earthquake (z-direction)	DL			0.125	15	

**Load Combinations**

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4D	Yes	Y	3	1.4						
2	1.2D + 1.0W(0)	Yes	Y	3	1.2	2	1				
3	1.2D + 1.0Di + 1.0Wi(0)	Yes	Y	3	1.2	27	1	28	1		
4	1.2D + 1.5L + 1.0Wi(0)	Yes	Y	3	1.2	1	1.5	15	1		



**Load Combinations (Continued)**

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
5	1.2D + 1.0W(30)	Yes	Y	3	1.2	4	1				
6	1.2D + 1.0Di + 1.0Wi(30)	Yes	Y	3	1.2	27	1	29	1		
7	1.2D + 1.5L + 1.0Wi(30)	Yes	Y	3	1.2	1	1.5	16	1		
8	1.2D + 1.0W(60)	Yes	Y	3	1.2	5	1				
9	1.2D + 1.0Di + 1.0Wi(60)	Yes	Y	3	1.2	27	1	30	1		
10	1.2D + 1.5L + 1.0Wi(60)	Yes	Y	3	1.2	1	1.5	17	1		
11	1.2D + 1.0W(90)	Yes	Y	3	1.2	6	1				
12	1.2D + 1.0Di + 1.0Wi(90)	Yes	Y	3	1.2	27	1	31	1		
13	1.2D + 1.5L + 1.0Wi(90)	Yes	Y	3	1.2	1	1.5	18	1		
14	1.2D + 1.0W(120)	Yes	Y	3	1.2	7	1				
15	1.2D + 1.0Di + 1.0Wi(120)	Yes	Y	3	1.2	27	1	32	1		
16	1.2D + 1.5L + 1.0Wi(120)	Yes	Y	3	1.2	1	1.5	19	1		
17	1.2D + 1.0W(150)	Yes	Y	3	1.2	8	1				
18	1.2D + 1.0Di + 1.0Wi(150)	Yes	Y	3	1.2	27	1	33	1		
19	1.2D + 1.5L + 1.0Wi(150)	Yes	Y	3	1.2	1	1.5	20	1		
20	1.2D + 1.0W(180)	Yes	Y	3	1.2	9	1				
21	1.2D + 1.0Di + 1.0Wi(180)	Yes	Y	3	1.2	27	1	34	1		
22	1.2D + 1.5L + 1.0Wi(180)	Yes	Y	3	1.2	1	1.5	21	1		
23	1.2D + 1.0W(210)	Yes	Y	3	1.2	10	1				
24	1.2D + 1.0Di + 1.0Wi(210)	Yes	Y	3	1.2	27	1	35	1		
25	1.2D + 1.5L + 1.0Wi(210)	Yes	Y	3	1.2	1	1.5	22	1		
26	1.2D + 1.0W(240)	Yes	Y	3	1.2	11	1				
27	1.2D + 1.0Di + 1.0Wi(240)	Yes	Y	3	1.2	27	1	36	1		
28	1.2D + 1.5L + 1.0Wi(240)	Yes	Y	3	1.2	1	1.5	23	1		
29	1.2D + 1.0W(270)	Yes	Y	3	1.2	12	1				
30	1.2D + 1.0Di + 1.0Wi(270)	Yes	Y	3	1.2	27	1	37	1		
31	1.2D + 1.5L + 1.0Wi(270)	Yes	Y	3	1.2	1	1.5	24	1		
32	1.2D + 1.0W(300)	Yes	Y	3	1.2	13	1				
33	1.2D + 1.0Di + 1.0Wi(300)	Yes	Y	3	1.2	27	1	38	1		
34	1.2D + 1.5L + 1.0Wi(300)	Yes	Y	3	1.2	1	1.5	25	1		
35	1.2D + 1.0W(330)	Yes	Y	3	1.2	14	1				
36	1.2D + 1.0Di + 1.0Wi(330)	Yes	Y	3	1.2	27	1	39	1		
37	1.2D + 1.5L + 1.0Wi(330)	Yes	Y	3	1.2	1	1.5	26	1		
38	1.2D + 1.0E(x) + 1.0E(y) + L	Yes	Y	3	1.2	40	1	41	1	1	1
39	1.2D + 1.0E(z) + 1.0E(y) + L	Yes	Y	3	1.2	42	1	41	1	1	1
40	1.2D - 1.0E(x) + 1.0E(y) + L	Yes	Y	3	1.2	40	-1	41	1	1	1
41	1.2D - 1.0E(z) + 1.0E(y) + L	Yes	Y	3	1.2	42	-1	41	1	1	1

**Envelope AISC 14TH (360-10): LRFD Member Steel Code Checks**

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
0	SMPL7	5X1/2	0.044	0.124	20	0.309	0	y	2	80.545	81	0.844	8.438	1.683	H1-1b
1	SMPL9	5X1/2	0.045	0.124	32	0.244	0	y	14	80.545	81	0.844	8.438	1.687	H1-1b
2	MP ALPHA3	PIPE 2.0	0.27	5	32	0.214	5	y	23	14.916	32.13	1.872	1.872	1	H1-1b
3	SMPL11	5X1/2	0.04	0.124	8	0.21	0	y	23	80.545	81	0.844	8.438	1.695	H1-1b
4	PL2	PL6.5X.375	0.156	1.595	35	0.206	2.858	y	23	4.402	78.975	0.617	8.728	1.415	H1-1b
5	SMPL8	5X1/2	0.026	0	35	0.197	0	y	2	80.545	81	0.844	8.438	1.669	H1-1b
6	SMPL10	5X1/2	0.023	0.124	20	0.184	0	y	14	80.545	81	0.844	8.438	1.668	H1-1b
7	RAIL2	PIPE 2.5	0.129	1.458	14	0.171	1.354	y	32	22.748	66.654	4.727	4.727	1	H1-1b
8	RAIL1	PIPE 2.5	0.127	1.458	14	0.17	8.646	y	20	22.748	66.654	4.727	4.727	1	H1-1b
9	RAIL3	PIPE 2.5	0.112	1.562	2	0.161	1.354	y	8	22.748	66.654	4.727	4.727	1	H1-1b
10	SMPL12	5X1/2	0.029	0.124	32	0.157	0	y	26	80.545	81	0.844	8.438	1.668	H1-1b
11	PL3	PL6.5X.375	0.138	1.595	11	0.118	1.595	y	35	4.402	78.975	0.617	8.689	1.409	H1-1b
12	SMPL4	5X1/2	0.13	0	11	0.114	0	y	2	80.541	81	0.844	8.438	1.668	H1-1b
13	SMPL6	5X1/2	0.14	0	23	0.112	0	y	14	80.541	81	0.844	8.438	1.668	H1-1b
14	SMPL1	5X1/2	0.129	0	14	0.111	0	y	2	80.541	81	0.844	8.438	1.676	H1-1b

**Envelope AISC 14TH (360-10): LRFD Member Steel Code Checks (Continued)**

Member	Shape	Code Check	Loc [ft]	LC	Shear Check	Loc [ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
15	SMPL3	5X1/2	0.131	0	23	0.106	0	y	11	80.541	81	0.844	8.438	1.67	H1-1b
16	SMPL5	5X1/2	0.125	0	35	0.102	0	y	26	80.541	81	0.844	8.438	1.668	H1-1b
17	PL1	PL6.5X.375	0.147	1.595	23	0.1	1.595	y	11	4.402	78.975	0.617	8.585	1.392	H1-1b
18	SMPL2	5X1/2	0.135	0	2	0.099	0	y	23	80.541	81	0.844	8.438	1.675	H1-1b
19	SO3	HSS4X4X4	0.223	0	32	0.089	0	y	2	133.179	139.518	16.181	16.181	1.887	H1-1b
20	CR3	C3.38X2.06X0.25	0.205	0	8	0.085	0	y	17	47.76	56.7	2.203	5.752	1.609	H1-1b
21	SO2	HSS4X4X4	0.235	0	11	0.082	0	y	14	133.179	139.518	16.181	16.181	1.887	H1-1b
22	CR5	C3.38X2.06X0.25	0.208	0	32	0.078	0	y	5	47.76	56.7	2.203	5.752	1.61	H1-1b
23	MP ALPHA1	PIPE 2.0	0.334	5	2	0.077	5	y	35	14.916	32.13	1.872	1.872	1	H1-1b
24	SO1	HSS4X4X4	0.226	0	23	0.076	0	y	26	133.179	139.518	16.181	16.181	1.885	H1-1b
25	CR1	C3.38X2.06X0.25	0.215	0	20	0.074	0	y	29	47.76	56.7	2.203	5.752	1.605	H1-1b
26	CR4	C3.38X2.06X0.25	0.182	0	8	0.073	0	y	32	47.76	56.7	2.203	5.752	1.605	H1-1b
27	CR6	C3.38X2.06X0.25	0.193	0	35	0.072	0	y	20	47.76	56.7	2.203	5.752	1.581	H1-1b
28	MP BETA2	PIPE 2.0	0.279	1.5	23	0.071	1.5	y	23	14.916	32.13	1.872	1.872	1	H1-1b
29	CR2	C3.38X2.06X0.25	0.195	0	20	0.068	0	y	8	47.76	56.7	2.203	5.752	1.603	H1-1b
30	MP ALPHA2	PIPE 2.0	0.283	1.5	11	0.067	1.5	y	11	14.916	32.13	1.872	1.872	1	H1-1b
31	MP BETA1	PIPE 2.0	0.315	5	14	0.065	5	y	14	14.916	32.13	1.872	1.872	1	H1-1b
32	MP GAMMA3	PIPE 2.0	0.231	5	20	0.064	1.5	y	20	14.916	32.13	1.872	1.872	1	H1-1b
33	MP GAMMA1	PIPE 2.0	0.305	5	26	0.059	5	y	26	14.916	32.13	1.872	1.872	1	H1-1b
34	MP GAMMA2	PIPE 2.0	0.25	1.5	2	0.057	1.5	y	35	14.916	32.13	1.872	1.872	1	H1-1b
35	MP BETA3	PIPE 2.0	0.229	5	8	0.054	1.5	y	8	14.916	32.13	1.872	1.872	1	H1-1b
36	FACE2	PIPE 3.0	0.06	7.5	20	0.037	5.417	y	17	54.629	85.698	7.555	7.555	1	H1-1b
37	FACE1	PIPE 3.0	0.065	2.667	14	0.035	7.667	y	2	54.629	85.698	7.555	7.555	1	H1-1b
38	FACE3	PIPE 3.0	0.056	2.667	2	0.028	7.5	y	26	54.629	85.698	7.555	7.555	1	H1-1b
39	RAIL CON3	L6.6X4.46X0.25	0.308	0	14	0.028	3.5	z	14	50.616	87.561	2.465	7.125	1.5	H2-1
40	RAIL CON2	L6.6X4.46X0.25	0.254	0	2	0.025	3.5	z	2	50.616	87.561	2.465	7.125	1.5	H2-1
41	RAIL CON1	L6.6X4.46X0.25	0.224	0	26	0.021	3.5	z	26	50.616	87.561	2.465	7.125	1.5	H2-1
42	GRAT SUP5	L2X2X4	0.109	2.275	23	0.014	0	z	20	23.539	30.586	0.691	1.577	1.5	H2-1
43	GRAT SUP2	L2X2X4	0.008	1.137	26	0.006	2.275	y	14	23.539	30.586	0.691	1.577	1.136	H2-1
44	GRAT SUP4	L2X2X4	0.009	1.137	14	0.005	2.275	y	2	23.539	30.586	0.691	1.577	1.136	H2-1
45	GRAT SUP6	L2X2X4	0.008	1.137	2	0.004	2.275	y	26	23.539	30.586	0.691	1.577	1.136	H2-1
46	GRAT SUP1	L2X2X4	0.006	1.137	20	0.004	2.275	z	2	23.539	30.586	0.691	1.577	1.136	H2-1
47	GRAT SUP3	L2X2X4	0.007	1.137	35	0.003	2.275	z	26	23.539	30.586	0.691	1.577	1.136	H2-1

**APPENDIX D**  
**Additional Calculations**

**POD Job #** 24-164635  
**Site Number** 826053  
**Site Name** Monroe-1/Rt 25

Calculations Based on TIA-222-H

**Reactions from RISA-3D**

Torque	-0.741 ft-kip
Moment (y-y)	1.169 ft-kip
Moment (z-z)	2.55 ft-kip
Axial	-0.113 kips
Shear (y)	1.055 kips
Shear (z)	-0.927 kips

**RISA Members to Check**

SO1
SO2
SO3

**Capacities**

<b>Bolts</b>	<b>3.3%</b>
<b>Flange Plate</b>	<b>52.5%</b>
Load Combination	14
Member	SO2

**Bolt Information**

Grade	A325
Threads in Shear Plane	Included
Diameter	0.625 in.
Bolt Spacing (y)	7 in.
Bolt Spacing (z)	7 in.
Number of Rods	4

**Flange Plate Information**

Width (y)	9 in.
Width (z)	9 in.
Thickness	0.625 in.
Grade	A36

**Standoff Information**

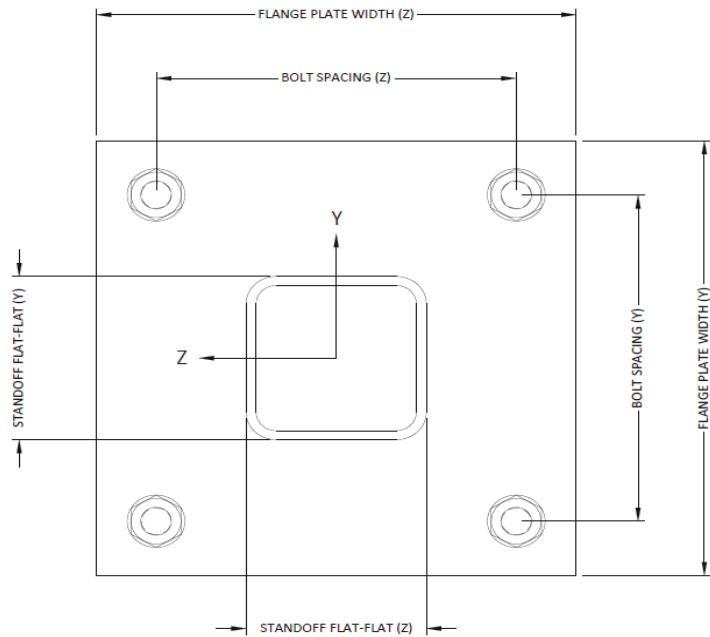
Standoff Member	HSS
Thickness	0.25 in.
Flat-Flat (y)	4 in.
Flat-Flat (z)	4 in.

**Bolt Calculations**

$\phi$	0.75
$A_{nt}$	0.226 in <sup>2</sup>
$A_b$	0.307 in <sup>2</sup>
$F_u$	120 ksi
$\phi R_{nV}$	13.81 kips
$\phi R_{nt}$	20.34 kips
$V$	0.99 kips
$F$	3.43 kips
Capacity	3.3%

**Flange Plate Calculations**

$\phi$	0.9
$F_y$	36 ksi
$t_{min}$	0.21 in
$W$	8.75 in
$Z$	0.9 in <sup>3</sup>
$\phi M_n$	27.7 in-kip
$M_u$	14.5 in-kip
Capacity	52.5%





## RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

Dish Existing Facility

Site ID: NJJER01091A

NJJER01091A  
88 Main Street  
Monroe, Connecticut 06468

**February 7, 2024**

**EBI Project Number: 006844**

Site Compliance Summary	
Compliance Status:	<b>COMPLIANT</b>
Site total MPE% of FCC general population allowable limit:	<b>0.59%</b>



February 7, 2024

Attn: DISH Wireless

Emissions Analysis for Site: NJJER01091A - NJJER01091A

EBI Consulting was directed to analyze the proposed Dish facility located at **88 Main Street** in **Monroe, Connecticut** for the purpose of determining whether the emissions from the Proposed Dish Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately  $400 \mu\text{W}/\text{cm}^2$  and  $467 \mu\text{W}/\text{cm}^2$ , respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is  $1000 \mu\text{W}/\text{cm}^2$ . Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.



Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

## CALCULATIONS

Calculations were done for the proposed Dish Wireless antenna facility located at 88 Main Street in Monroe, Connecticut using the equipment information listed below. Modeling of the antennas and associated equipment was completed using RoofMaster™ software, which is a widely-used predictive modeling program that has been developed to predict RF power density values for rooftop and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. Using the computational methods set forth in Federal Communications (FCC) Office of Engineering & Technology (OET) Bulletin 65, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields” (OET-65), RoofMaster™ calculates predicted power density in a scalable grid based on the contributions of all RF sources characterized in the study scenario. At each grid location, the cumulative power density is expressed as a percentage of the FCC limits. Manufacturer antenna pattern data is utilized in these calculations. RoofMaster™ models consist of the Far Field model as specified in OET-65 and an implementation of the OET-65 Cylindrical Model (Sula9). The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

Since Dish is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer’s supplied specifications was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, telecommunications equipment was modeled using the following assumptions:

- 1) 4 n71 channels (600 MHz Band) were considered for each sector of the existing installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 4 n29 channels (700 MHz Band) were considered for each sector of the existing installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 4 n70 channels (2007 MHz Band) were considered for each sector of the existing installation. This Channel has a transmit power of 40 Watts.
- 4) 4 n66 channels (2100 MHz Band) were considered for each sector of the existing installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 1 microwave backhaul channel (11 GHz) was considered for the proposed facility. This channel has a transmit power of 0.5 Watts.
- 6) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antennas used in this modeling are the COMMSCOPE FFVV-65B-R2 NJ 600 for the 600 MHz / 600 MHz / 700 MHz / 2000 MHz channel(s), the COMMSCOPE VHLP2-11 11000 for the 11000 MHz channel(s) in Sector A, the COMMSCOPE FFVV-65B-R2 NJ 600 for the 600 MHz / 700 MHz / 2000 MHz / 2100 MHz channel(s) in Sector B, the COMMSCOPE FFVV-65B-R2 NJ 600 for the 600 MHz / 700 MHz / 2000 MHz / 2100 MHz channel(s) in Sector C. Modeling also included calculations for the proposed 11 GHz microwave backhaul antenna. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.



# EBI Consulting

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- 9) The antenna mounting height centerline of the proposed antennas (both microwave and panel antennas) is 147 feet above ground level (AGL).
- 10) Emissions values for additional carriers were calculated in Far Field utilizing the antenna models provided in the structural analysis.
- 11) All calculations were done in Far Field mode with respect to uncontrolled / general population threshold limits.

## Dish Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	COMMSCOPE FFVY-65B-R2 NJ 600	Make / Model:	COMMSCOPE FFVY-65B-R2 NJ 600	Make / Model:	COMMSCOPE FFVY-65B-R2 NJ 600
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 2000 MHz	Frequency Bands:	600 MHz / 700 MHz / 2000 MHz / 2100 MHz	Frequency Bands:	600 MHz / 700 MHz / 2000 MHz / 2100 MHz
Gain:	12.46 dBd / 12.46 dBd / 16.66 dBd / 16.66 dBd	Gain:	12.46 dBd / 12.46 dBd / 16.66 dBd / 16.66 dBd	Gain:	12.46 dBd / 12.46 dBd / 16.66 dBd / 16.66 dBd
Height (AGL):	147 feet	Height (AGL):	147 feet	Height (AGL):	147 feet
Channel Count:	16	Channel Count:	16	Channel Count:	16
Total TX Power (W):	560.00 Watts	Total TX Power (W):	560.00 Watts	Total TX Power (W):	560.00 Watts
ERP (W):	16,986.39	ERP (W):	16,986.39	ERP (W):	17,792.78
Antenna A1 MPE %:	<b>3.97%</b>	Antenna B1 MPE %:	<b>3.97%</b>	Antenna C1 MPE %:	<b>4.12%</b>
Antenna #:	<b>2</b>				
Make / Model:	COMMSCOPE VHLP2-11 11000				
Frequency Bands:	11000 MHz				
Gain:	32.35 dBd				
Height (AGL):	147 feet				
Channel Count:	1				
Total TX Power (W):	0.50 Watts				
ERP (W):	765.54				
Antenna A2 MPE %:	<b>0.14%</b>				

Site Composite MPE %	
Carrier	MPE %
Dish (Combined Sectors):	0.03%
T-Mobile	0.18%
AT&T	0.07%
Verizon	0.31%
<b>Site Total MPE % :</b>	<b>0.59%</b>

Dish MPE % Per Sector	
Dish Sector A Total:	0.03%
Dish Sector B Total:	0.02%
Dish Sector C Total:	0.03%
Dish Total MPE % :	0.03%

Dish Maximum MPE Power Values (Sector A)							
Dish Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Frequency (MHz)	Allowable MPE ( $\mu\text{W}/\text{cm}^2$ )	Calculated % MPE
Dish 600 MHz n71	4	471.1088413	147	3.407685939	600 MHz n71	400.0	0.85%
Dish 700 MHz n29	4	471.1088413	147	3.407685939	700 MHz n29	467.0	0.73%
Dish 2000 MHz n70	4	1652.190008	147	11.95083633	2000 MHz n70	1000.0	1.20%
Dish 2100 MHz n66	4	1652.190008	147	11.95083633	2100 MHz n66	1000.0	1.20%
Dish 11000 MHz MW	1	765.5437308	147	1.384357699	11000 MHz MW	1000.0	0.14%
						<b>Dish Total:</b>	<b>0.03%</b>

- NOTE: Total Dish MPE values reflect all Dish antennas as reported by RoofMaster™ combined modeling.
- NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.



## Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the Dish facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Dish Sector	Power Density Value (%)
Sector A:	0.03%
Sector B:	0.02%
Sector C:	0.03%
Dish Maximum MPE % (Sector A):	0.03%
Dish Combined Sectors MPE %:	0.03%
Site Total:	0.59%
Site Compliance Status:	<b>COMPLIANT</b>

The anticipated composite MPE value for this site assuming all carriers present is **0.59%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions or documents available on the Connecticut Siting Council website.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



DISH Wireless L.L.C. SITE ID:  
**NJJER01091A**

DISH Wireless L.L.C. SITE ADDRESS:  
**88 MAIN ST  
MONROE, CT 06468**

**CONNECTICUT CODE OF COMPLIANCE**

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CONNECTICUT CODES AND ANY AMENDMENTS TO THESE CODES.  
 CODE TYPE: ELECTRICAL  
 BUILDING CODE: 2022 CT STATE BUILDING CODE/2021 IBC W/ CT AMENDMENTS  
 MECHANICAL CODE: 2022 CT STATE BUILDING CODE/2020 NEC W/ CT AMENDMENTS  
 ELECTRICAL CODE: 2022 CT STATE BUILDING CODE/2020 NEC W/ CT AMENDMENTS

**SHEET INDEX**

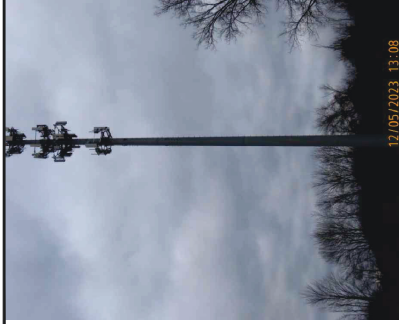
SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL SITE PLAN
A-2.1	EXISTING AND PROPOSED ELEVATIONS
A-2.2	ANTENNA LAYOUT AND SCHEDULE
A-3	EQUIPMENT DETAILS
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE (SPECIFICATIONS PROVIDED BY OTHERS)
GN-1	LEGEND AND ABBREVIATIONS
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES
GN-5	GENERAL NOTES

**SCOPE OF WORK**

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIPMENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

- TOWER SCOPE OF WORK:
- INSTALL (1) MICROWAVE DISH
  - INSTALL (1) FIBER CABLE
  - INSTALL (1) POWER CABLE
  - INSTALL (1) FIBER CABLE
- GROUND SCOPE OF WORK:
- NONE

**SITE PHOTO**



UNDERGROUND SERVICE ALERT (UBA) 811  
 UTILITY NOTIFICATION CENTER OF CONNECTICUT  
 (800) 922-4455  
 WWW.CBYD.COM  
 CALL 2 WEEKS DATE UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

**GENERAL NOTES**

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON THE ENVIRONMENT. SIGNAGE SHALL BE INSTALLED AT THE JOB SITE. SIGNAGE SHALL BE INSTALLED PRIOR TO CONSTRUCTION. SIGNAGE IS PROPOSED.

**11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED**

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

**SITE INFORMATION**

PROPERTY OWNER: STEPHEN V D CO  
 ADDRESS: 88 MAIN ST  
 MONROE, CT 06468

TOWER TYPE: MONOPOLE

TOWER CO SITE ID: 826053

TOWER APP NUMBER: 660834

COUNTY: FAIRFIELD

LATITUDE (NAD 83): 41° 18' 6.06" N  
 41,301683° N

LONGITUDE (NAD 83): 73° 15' 2.92" W  
 73,250911° W

ZONING JURISDICTION: TOWN OF MONROE

ZONING DISTRICT: IT

PARCEL NUMBER: 012 019 00

OCCUPANCY GROUP: U

CONSTRUCTION TYPE: II-B

POWER COMPANY: NORTHEAST UTILITIES

TELEPHONE COMPANY: VERIZON

**PROJECT DIRECTORY**

APPLICANT: DISH Wireless L.L.C.  
 5701 SOUTH SANTA FE DRIVE  
 LITTLETON, CO 80120

TOWER OWNER: CROWN CASTLE USA, INC.  
 2000 CORPORATE DR  
 CANONSBURG, PA 15317

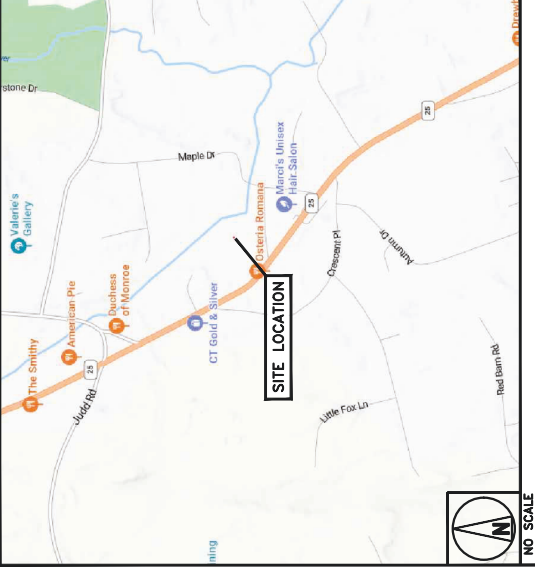
SITE DESIGNER: POD  
 11490 BLUEGRASS PARKWAY  
 LOUISVILLE, KY 40299  
 (502) 437-5252

SITE ACQUISITION: DAVID SOEDER  
 DAVID.SOEDER@CROWNCASTLE.COM

**DIRECTIONS**

DIRECTIONS FROM 3 ADP BLVD, ROSELAND, NJ:  
 1. TAKE RIGHT TURN ON LIVINGSTON AVE  
 2. CONTINUE ON I-260 E  
 3. TAKE GARDEN STATE PKW  
 4. TAKE RIGHT TURN ON I-95 N  
 5. TAKE CT-25 IN MONROE  
 6. CONTINUE ON MAIN ST, DESTINATION ON THE RIGHT

**VICINITY MAP**



5701 SOUTH SANTA FE DRIVE  
 LITTLETON, CO 80120



01/18/2024  
 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: [blank] CHECKED BY: [blank] APPROVED BY: [blank]

**CONSTRUCTION DOCUMENTS**

REV#	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

SUBMITTALS

AAE PROJECT NUMBER: 826053

PROJECT INFORMATION:  
 DISH Wireless L.L.C.  
 NJJER01091A  
 88 MAIN ST  
 MONROE, CT 06468

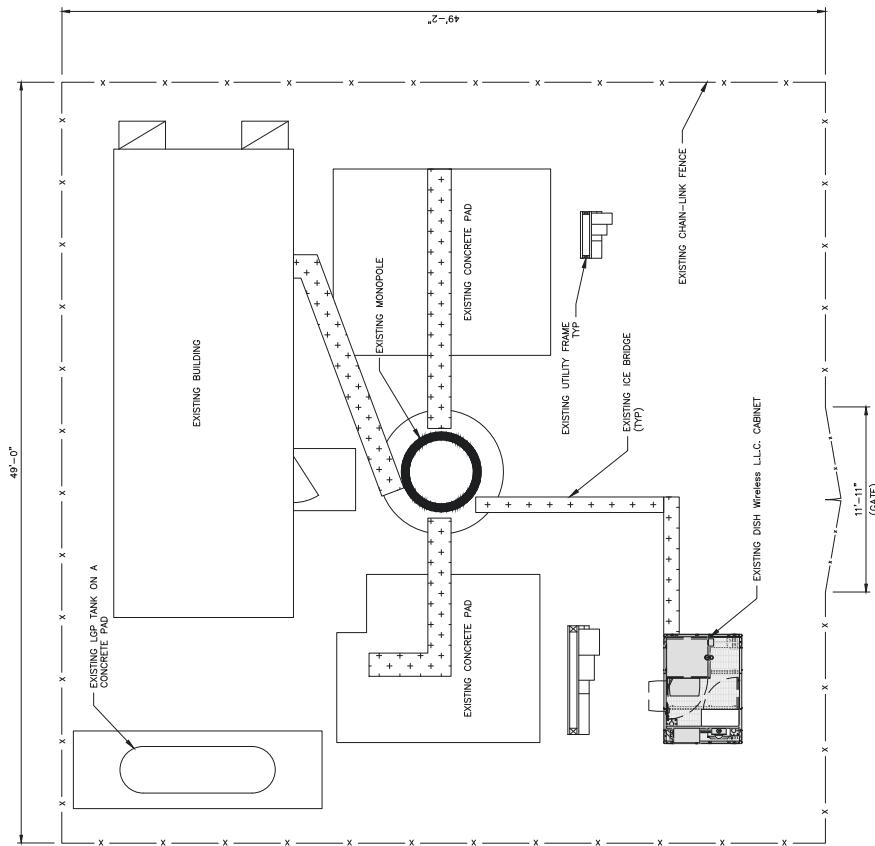
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SHEET NUMBER: T-1



**NOTES**

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120

1140 BLAUGRASS PKWY  
LOUISVILLE, KY 40299

01/18/2024

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

AWM	ECW	AH

DRAWN BY: CHECKED BY: APPROVED BY:

**CONSTRUCTION DOCUMENTS**

REV#	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

A&E PROJECT NUMBER  
**826053**

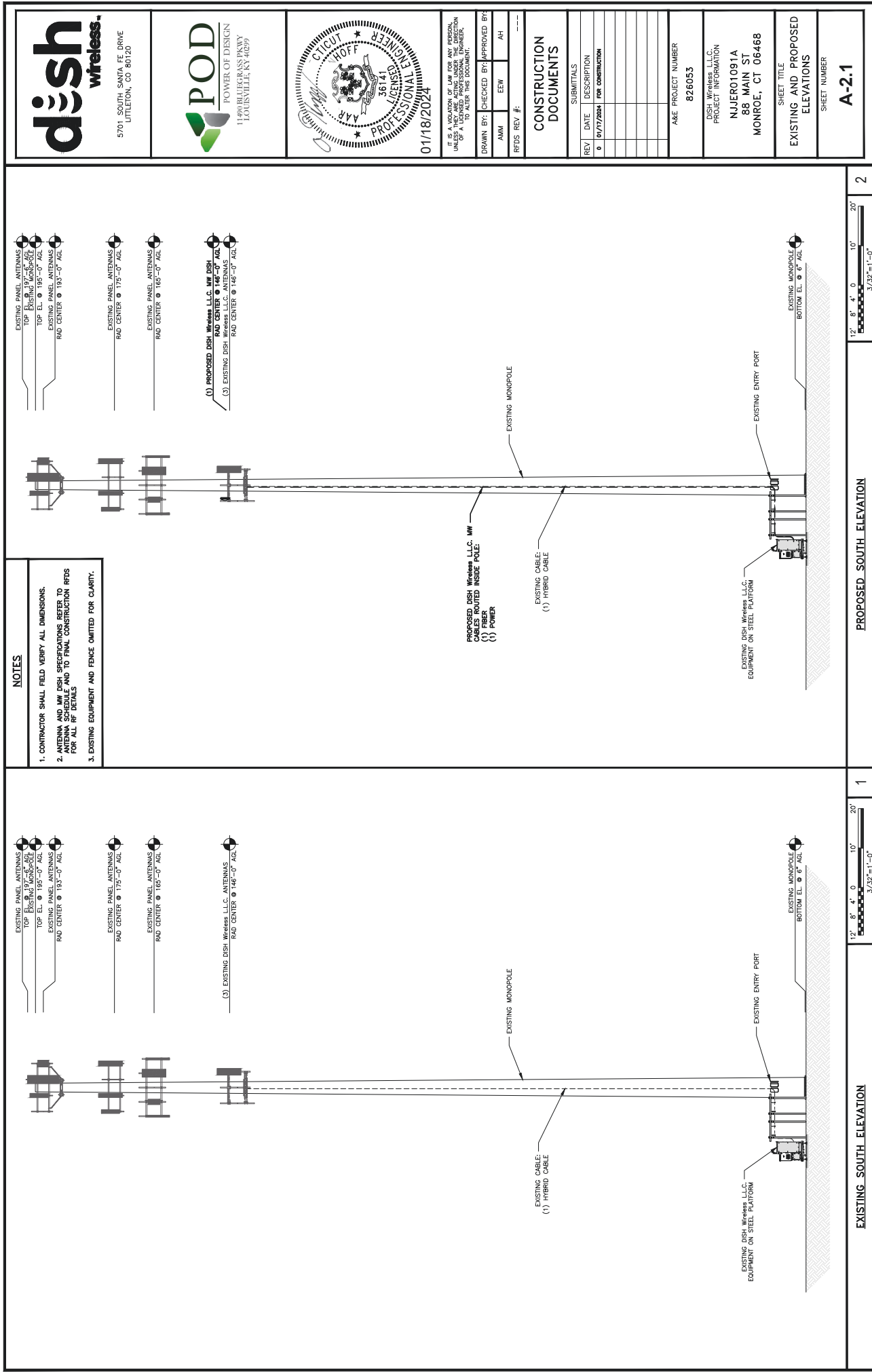
DISH Wireless L.L.C.  
PROJECT INFORMATION  
**NJJERO1091A**  
**88 MAIN ST**  
**MONROE, CT 06468**

SHEET TITLE  
**OVERALL SITE PLAN**

SHEET NUMBER  
**A-1**

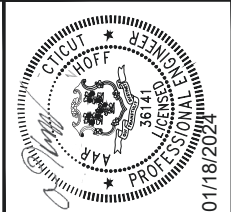


**OVERALL SITE PLAN**



**NOTES**

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.



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DRAWN BY:	ECW	APPROVED BY:	AH
RFDS REV #:			

**CONSTRUCTION DOCUMENTS**

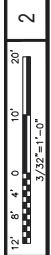
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AA&E PROJECT NUMBER  
826053

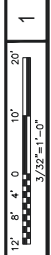
DISH Wireless LLC  
PROJECT INFORMATION  
NJJERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
EXISTING AND PROPOSED  
ELEVATIONS

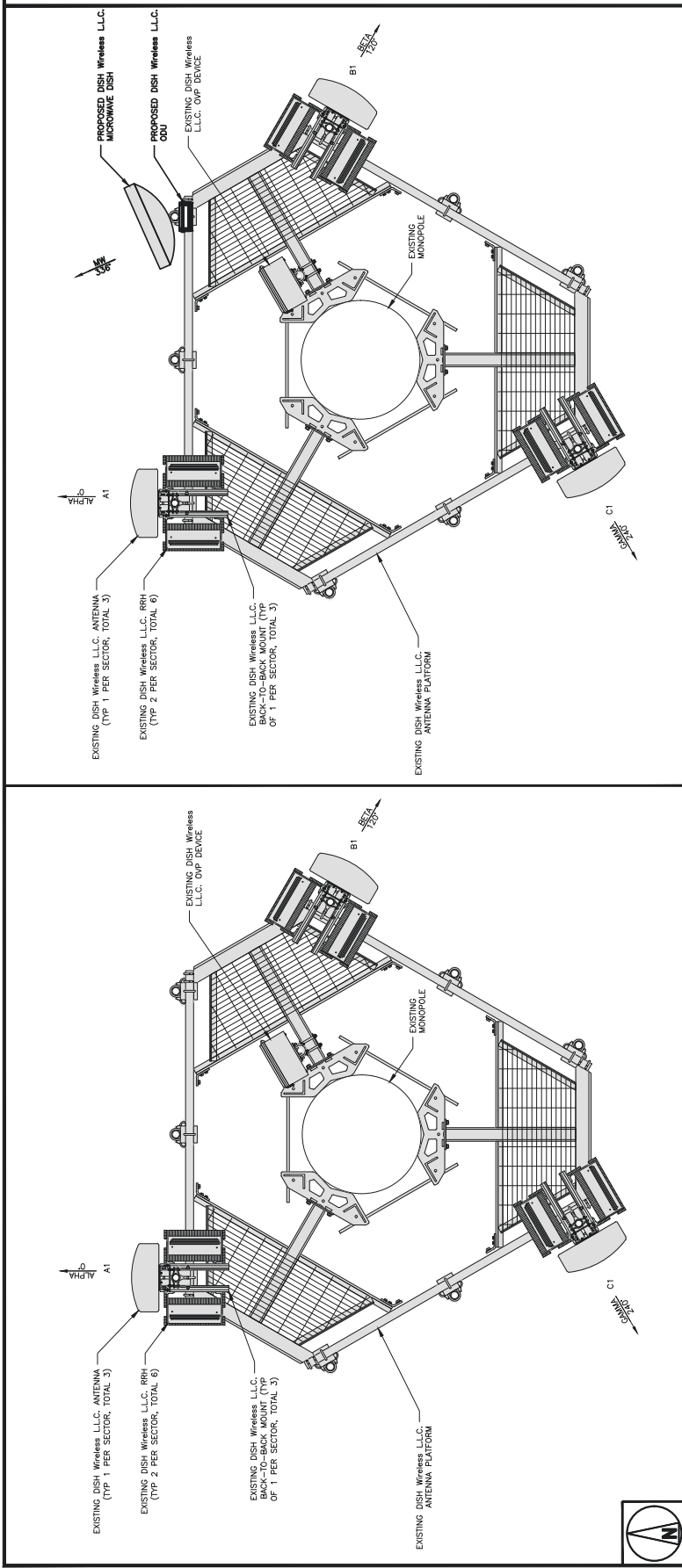
SHEET NUMBER  
A-2.1



PROPOSED SOUTH ELEVATION



EXISTING SOUTH ELEVATION

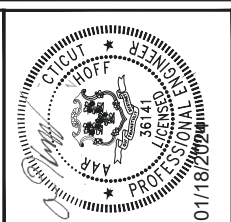


**EXISTING ANTENNA LAYOUT** **FINAL ANTENNA LAYOUT**

SECTOR POS.	EXISTING OR NEW	ANTENNA MANUFACTURER - MODEL NUMBER	AZIMUTH	TECH	RAD CENTER	TRANSMISSION CABLE FEED LINE TYPE AND LENGTH	RRH MANUFACTURER - MODEL NUMBER	TECH	POS.	OVP MANUFACTURER MODEL
A1	EXISTING	JMA - MK08FR0685-21	0°	5G	146'-0"	(1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE (1) FIBER CABLE	FLUTSU - T408025-8604	5G	A1	RAYCAP R09C-9181-PF-48
A2	NEW	COMSCOPE - VLP2-11W/A	336°	---	147'-0"		CEPAGON - IP-50C	5G	A1	
A3	EXISTING	JMA - MK08FR0685-21	120°	5G	146'-0"	SHARED W/ALPHA	FLUTSU - T408025-8604	5G	B1	SHARED W/ALPHA
B1	EXISTING	JMA - MK08FR0685-21	240°	5G	146'-0"	SHARED W/ALPHA	FLUTSU - T408025-8604	5G	B1	SHARED W/ALPHA
B2										
B3										
C1										
C2										
C3										

**NOTES**

- CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
- ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY, ALL CHANGES TO BE MADE IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.



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DRAWN BY: CHECKED BY: APPROVED BY:

RFDS REV #:

AMM	ECW	AH
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**CONSTRUCTION DOCUMENTS**

**SUBMITTALS**

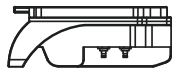
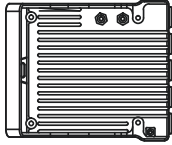
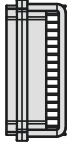
REV	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AAE PROJECT NUMBER: 826053

DISH Wireless L.L.C.  
PROJECT INFORMATION  
NJJERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE: ANTENNA LAYOUT AND SCHEDULE  
SHEET NUMBER: A-2.2

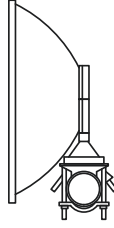
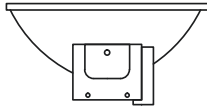
<b>CERAGON IP-50C</b>	
DIMENSIONS (HxWxD)	12.67"x10.62"x3.38"
WEIGHT	13.2 lb



**BASE STATION DETAIL**

NO SCALE

1



**MICROWAVE DETAIL**

NO SCALE

2

**NOT USED**

NO SCALE

3

5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120

POWER OF DESIGN  
1140 BLAUGRASS PKWY  
LOUISVILLE, KY 40299

APR 36141  
CICUT HOFF  
PROFESSIONAL ENGINEER  
01/18/2024

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DRAWN BY:	CHECKED BY:	APPROVED BY:
AMM	EEW	AH

RFDS REV #:

**CONSTRUCTION DOCUMENTS**

NO SCALE

4

**NOT USED**

NO SCALE

5

**NOT USED**

NO SCALE

6

REV#	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AA&E PROJECT NUMBER  
826053

DISH Wireless LLC  
PROJECT INFORMATION  
NJJERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
**EQUIPMENT DETAILS**

SHEET NUMBER

**A-3**

**NOT USED**

NO SCALE

7

**NOT USED**

NO SCALE

8

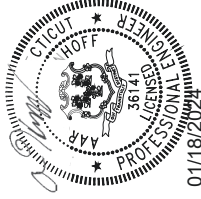
**NOT USED**

NO SCALE

9



5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120



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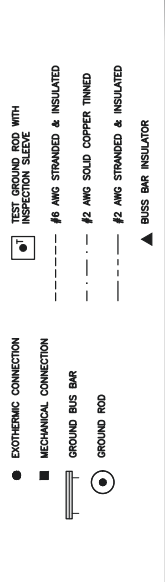
DRAWN BY	AMM	ECW	AH
CHECKED BY			
APPROVED BY			

**CONSTRUCTION DOCUMENTS**

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PROJECT NUMBER	826053
PROJECT INFORMATION	DISH Wireless LLC
	NJUR01091A
	88 MAIN ST
	MONROE, CT 06468

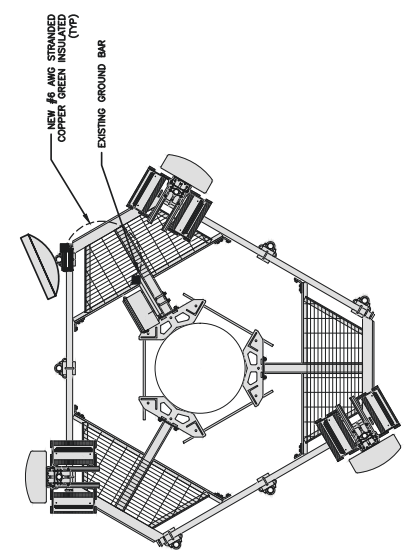
SHEET TITLE	GROUNDING PLANS AND NOTES
SHEET NUMBER	G-1



- GROUNDING KEY NOTES**
- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
  - CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND DISH Wireless LLC GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURERS SPECIFICATIONS.
  - ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

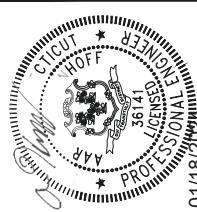
- GROUNDING KEY NOTES**
- EXTERIOR GROUND RING: #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE OR 6 INCHES BELOW THE FIRST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.
  - TOWER GROUND RINGS: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS, AND/OR GUY ANCHORS, WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE GROUND RING SYSTEM. THE GROUND RING SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.
  - INTERIOR GROUND RING: #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE INTERIOR PERIMETER OF THE BUILDING. THE GROUND RING SHALL BE INSTALLED WITHIN A SITE SHALL BE GROUND TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.
  - BAND TO INTERIOR GROUND RING: #2 AWG SOLID TINNER COPPER WIRE PRIMARY BARS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.
  - GROUND BARS IN LATER COPPER BUS STEEL: MINIMUM 1/2" DIAMETER AT EACH FEET LONG. GROUND BARS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
  - CELL REFERENCE GROUND BARS: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BARS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
  - MATCH PLATE GROUND BARS: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. THE CRB MUST BE CONNECTED TO THE MATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.
  - EXTERIOR CABLE ENTRY LOCK GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING, BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.
  - TELECOM GROUND BARS: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
  - FRAME BONDINGS: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENT'S METAL FRAMEWORK.
  - INTERIOR UNIT BONDING: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.
  - FENCE AND GATE GROUNDING: METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BOND TO THE EXTERIOR GROUND RING SHALL BE BOND TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
  - EXTERIOR UNIT BONDING: METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BOND TO THE EXTERIOR GROUND RING, USING #2 TINNED SOLID COPPER WIRE.
  - ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BOND TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
  - DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND BATTERY CHARGERS, ALL DC POWER SYSTEMS SHALL BE DE-ENERGIZED. ALL DC POWER SYSTEMS SHALL BE GROUND CONDUCTORS FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR.
  - TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO TOWER STEEL.
- REFER TO DISH Wireless LLC GROUNDING NOTES.

- NOT USED**
- NO SCALE
- 1
- NOTES**
- ANTENNAS AND GUY SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THIS DRAWING IS FOR UPPER TOWER BLOSSOMBAR SHALL BE INSTALLED WITHOUT INSULATORS



- NO SCALE
- 2
- TYPICAL ANTENNA GROUNDING PLAN**

- NO SCALE
- 3
- GROUNDING KEY NOTES**



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DRAWN BY: [ ]  
CHECKED BY: [ ]  
APPROVED BY: [ ]

AMM: [ ]  
ECW: [ ]  
AH: [ ]

**CONSTRUCTION DOCUMENTS**

REV#	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AA&E PROJECT NUMBER  
826053

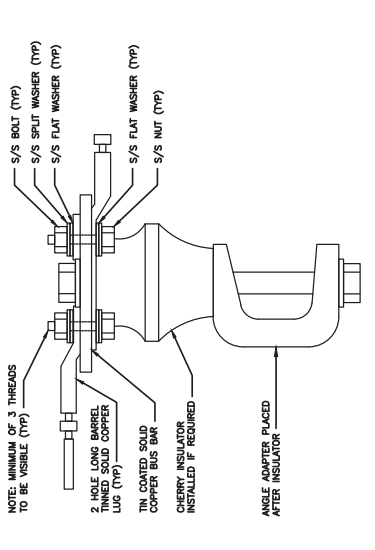
DISH Wireless, LLC  
PROJECT INFORMATION  
NJJERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
GROUNDING DETAILS

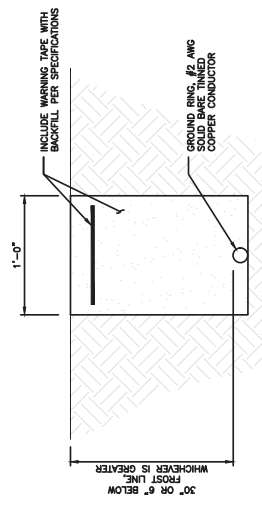
SHEET NUMBER  
G-2

- EXOTHERMIC WELD (2) TWO #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL, EXOTHERMIC WELD.
- ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
- ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINNERS).

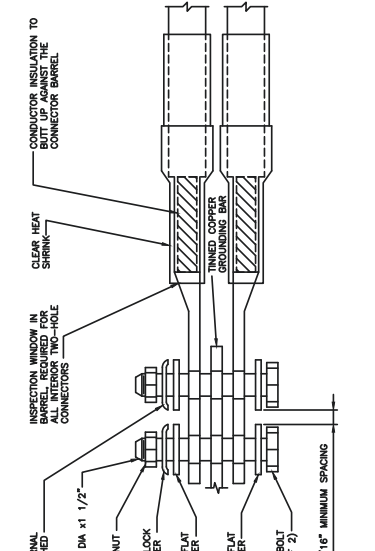
**TYPICAL GROUNDING NOTES**



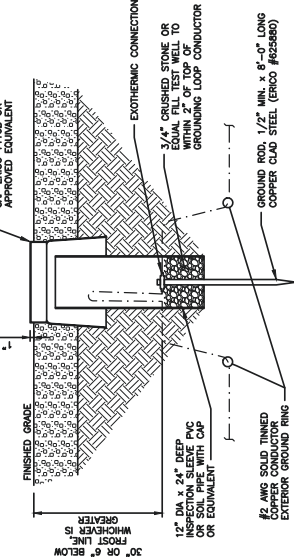
**LUG DETAIL**



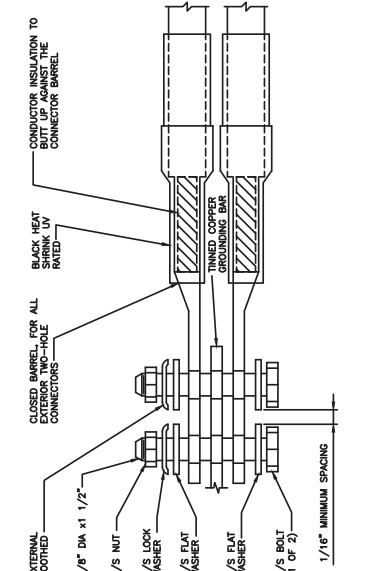
**TYPICAL GROUND RING TRENCH**



**TYPICAL INTERIOR TWO HOLE LUG**



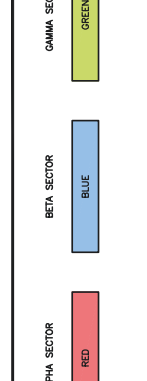
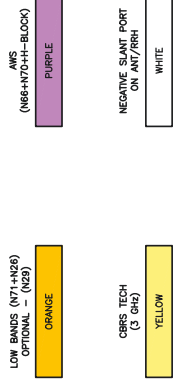
**TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE**



**TYPICAL EXTERIOR TWO HOLE LUG**

NO SCALE	NO SCALE	NO SCALE	NO SCALE	NO SCALE	NO SCALE
3	2	1	4	5	6
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
9	8	7	7	8	9

HYBRID/DISCREET CABLES		3/4" TAPE WIDTHS WITH 3/4" SPACING	
<p>LOW-BAND RRH (600 MHz N71 BASEBAND) + (700 MHz N29 BAND) - OPTIONAL PER MARKET</p> <p>ADD FREQUENCY COLOR TO SECTOR BAND (CABLES WILL USE YELLOW BAND)</p>	<p>ALPHA RRH</p> <p>PORT 1 - SLANT + SLANT</p> <p>PORT 2 - SLANT + SLANT</p> <p>PORT 3 - SLANT + SLANT</p> <p>PORT 4 - SLANT + SLANT</p>	<p>BETA RRH</p> <p>PORT 1 - SLANT + SLANT</p> <p>PORT 2 - SLANT + SLANT</p> <p>PORT 3 - SLANT + SLANT</p> <p>PORT 4 - SLANT + SLANT</p>	<p>GAMMA RRH</p> <p>PORT 1 - SLANT + SLANT</p> <p>PORT 2 - SLANT + SLANT</p> <p>PORT 3 - SLANT + SLANT</p> <p>PORT 4 - SLANT + SLANT</p>
<p>MID-BAND RRH (AWS BANDS N66+N70)</p> <p>ADD FREQUENCY COLOR TO SECTOR BAND (CABLES WILL USE YELLOW BANDS)</p>	<p>ALPHA RRH</p> <p>PORT 1 - SLANT + SLANT</p> <p>PORT 2 - SLANT + SLANT</p> <p>PORT 3 - SLANT + SLANT</p> <p>PORT 4 - SLANT + SLANT</p>	<p>BETA RRH</p> <p>PORT 1 - SLANT + SLANT</p> <p>PORT 2 - SLANT + SLANT</p> <p>PORT 3 - SLANT + SLANT</p> <p>PORT 4 - SLANT + SLANT</p>	<p>GAMMA RRH</p> <p>PORT 1 - SLANT + SLANT</p> <p>PORT 2 - SLANT + SLANT</p> <p>PORT 3 - SLANT + SLANT</p> <p>PORT 4 - SLANT + SLANT</p>
<p><b>HYBRID/DISCREET CABLES</b></p> <p>INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS.</p> <p>EXAMPLE 1 - HYBRID, OR DISCREET, SUPPORTS MID-BANDS AND LOW-BANDS.</p> <p>EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS CABLES ONLY, ALL SECTORS.</p> <p>EXAMPLE 3 - MAIN COAX WITH GROUND MOUNTED RRHS.</p>	<p>EXAMPLE 1</p> <p>COAX #1 COAX #2</p>	<p>EXAMPLE 2</p> <p>COAX #1 COAX #2</p>	<p>EXAMPLE 3</p> <p>COAX #1 COAX #2</p>
<p><b>FIBER JUMPERS TO RRHS</b></p> <p>LOW-BAND RRH FIBER CABLES HAVE SECTOR STRIPE ONLY.</p>	<p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p>	<p>MID BAND RRH</p> <p>MID BAND RRH</p> <p>MID BAND RRH</p> <p>MID BAND RRH</p>	<p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p>
<p><b>POWER CABLES TO RRHS</b></p> <p>LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY.</p>	<p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p>	<p>MID BAND RRH</p> <p>MID BAND RRH</p> <p>MID BAND RRH</p> <p>MID BAND RRH</p>	<p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p> <p>LOW BAND RRH</p>
<p><b>RET MOTORS AT ANTENNAS</b></p> <p>RET CONTROL IS HANDLED BY THE MID-BAND ANTENNA. ONE SET OF RET PORTS EXIST ON EACH ANTENNA.</p> <p>SEPARATE RET CABLES ARE USED WHEN ANTENNA PORTS PROVIDE INPUTS FOR BOTH LOW AND MID BANDS.</p>	<p>ANTENNA 1 ANTENNA 1</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p>	<p>ANTENNA 1 ANTENNA 1</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p>	<p>ANTENNA 1 ANTENNA 1</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p> <p>MID BAND LOW BAND</p>
<p><b>MICROWAVE RADIO LINKS</b></p> <p>LINKS WITH WHICH COLOR OVERLAPPING IN THE MIDDLE. COLOR BANDS FOR EACH ADDITIONAL MTR RADIO. MICROWAVE CABLES WILL REQUIRE 6-TOUGH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE IDs.</p>	<p>FORWARD AZIMUTH OF 0-120 DEGREES</p> <p>PRIMARY SECONDARY</p>	<p>FORWARD AZIMUTH OF 120-240 DEGREES</p> <p>PRIMARY SECONDARY</p>	<p>FORWARD AZIMUTH OF 240-360 DEGREES</p> <p>PRIMARY SECONDARY</p>

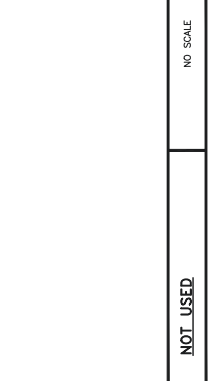


**COLOR IDENTIFIER**

NO SCALE

2

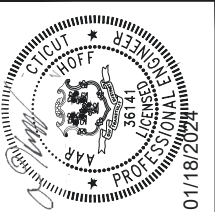
NOTE: THE RF DESIGN OR ANY ASSOCIATED INFORMATION ON THIS SHEET HAS BEEN PREPARED AND CHECKED BY THE DESIGN GROUP. DO NOT DESIGN OR PREPARE ANY RF.



**RF CABLE COLOR CODES**

NO SCALE

1



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: [ ] CHECKED BY: [ ] APPROVED BY: [ ]

AWM: [ ] EEW: [ ] AH: [ ]

**CONSTRUCTION DOCUMENTS**

REV	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

A&E PROJECT NUMBER: 826053

DISH Wireless LLC  
PROJECT INFORMATION  
NJUR01091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE: RF

CABLE COLOR CODES

SHEET NUMBER: RF-1

CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AA&E PROJECT NUMBER  
826053

DISH Wireless LLC  
PROJECT INFORMATION  
NJJERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
LEGEND AND ABBREVIATIONS  
SHEET NUMBER  
GN-1

AB	ANCHOR BOLT	IN	INCH
ABV	ABOVE	INT	INTERIOR
AC	ALTERNATING CURRENT	LF	LONG FEET
ADDL	ADDITIONAL	LTE	LONG TERM EVOLUTION
AFP	ABOVE FINISHED FLOOR	MAS	MASONRY
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AGL	ABOVE GROUND LEVEL	MCH	MACHINE BOLT
AGL	MESSAGE INTERRUPTION CAPACITY	MCH	MECHANICAL
ALUM	ALUMINUM	MFR	MANUFACTURER
ALT	ALTERNATE	MGR	MASTER GROUND BAR
ANT	ANTENNA	MN	MINIMUM
APPROX	APPROXIMATE	MIS	MISCELLANEOUS
ARCH	ARCHITECTURAL	MTC	METAL
ATS	AUTOMATIC TRANSFER SWITCH	MTS	MANUAL TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE	MW	MICROWAVE
BATT	BATTERY	NEC	NATIONAL ELECTRIC CODE
BLDG	BUILDING	NM	NEWTON METERS
BLK	BLOCK	#	NUMBER
BLKG	BLOCKING	#	NUMBER
BM	BEAM	NTS	NOT TO SCALE
BTC	BARE TINNED COPPER CONDUCTOR	OC	ON-CENTER
BOF	BOTTOM OF FOOTING	OC	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P/C	PRECAST CONCRETE
CHG	CHARGING	PCS	PERSONAL COMMUNICATION SERVICES
CHG	CEILING	PCU	PRIMARY CONTROL UNIT
CLG	CLEAR	PRC	PRIMARY RADIO CABINET
CLG	CLEAR	PP	POLARIZING PRESERVING
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
COM	COMMON	PT	PRESSURE TREATED
CONC	CONCRETE	PWR	POWER CABINET
CONSTR	CONSTRUCTION	QTY	QUANTITY
DBL	DOUBLE	RAD	RADIUS
DEPT	DEPTH	REF	REFERENCE
DF	DEPARTMENT	REIN	REINFORCEMENT
DIAM	DIAMETER	REIN	REINFORCEMENT
DIA	DIAGONAL	REQD	REQUIRED
DIM	DIMENSION	RET	REMOTE ELECTRIC TILT
DWG	DRAWING	RF	RADIO FREQUENCY
ENL	ENLARGED	RIG	RIGID METALLIC CONDUIT
ENL	EACH	RMH	REMOTE RADIO HEAD
EL	ELECTRICAL	RRY	REMOTE RADIO UNIT
ELC	ELECTRICAL CONDUCTOR	RWY	RACEWAY
ELEC	ELECTRICAL	SCH	SCHEDULE
EMT	ELECTRICAL METALLIC TUBING	SHT	SHEET
ENG	ENGINEER	SHD	SMART INTEGRATED ACCESS DEVICE
EQ	EQUAL	SIM	SIMILAR
EXP	EXPANSION	SPEC	SPECIFICATION
EXT	EXTERIOR	SS	STAINLESS STEEL
EW	EACH WAY	STD	STANDARD
FAB	FABRICATION	STL	STEEL
FF	FINISH GRADE	TD	THICKNESS
FF	FINISH GRADE	TK	TOPER MOUNTED AMPLIFIER
FN	FINISH(ED)	TK	TOP OF ANTENNA
FLR	FLOOR	TK	TOP OF CABIN
FDN	FOUNDATION	TOF	TOP OF FOUNDATION
FOC	FACE OF CONCRETE	TOP	TOP OF PLATE (PARAPET)
FOM	FACE OF MASONRY	TOP	TOP OF STEEL
FOS	FACE OF STUD	TOP	TOP OF WALL
FOW	FACE OF WALL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FS	FINISH SURFACE	UL	UNDERGROUND
FT	FOOT	UL	UNDERGROUND
FTG	FOOTING	UNO	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
GA	GENERATOR	UPS	UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
GEN	GENERATOR	VF	VERIFIED IN FIELD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	W	WITH
GLB	GLUE LAMINATED BEAM	W/P	WOOD WEATHERPROOF
GLV	GLUE LAMINATED BEAM	WT	WEIGHT
GPS	GLOBAL POSITIONING SYSTEM		
GND	GROUND		
GSM	GLOBAL SYSTEM FOR MOBILE		
HGD	HOT DIPPED GALVANIZED		
HDR	HANGER		
HWC	HEAT/VENTILATION/AIR CONDITIONING		
HT	HEIGHT		
IGR	INTERIOR GROUND RING		

EXOTHERMIC CONNECTION	
MECHANICAL CONNECTION	
BUSS BAR INSULATOR	
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	
EXOTHERMIC WITH INSPECTION SLEEVE	
GROUNDING BAR	
GROUND ROD	
TEST GROUND ROD WITH INSPECTION SLEEVE	
SINGLE POLE SWITCH	
DUPLEX RECEPTACLE	
DUPLEX GFCI RECEPTACLE	
FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48-78	
SMOKE DETECTION (DC)	
EMERGENCY LIGHTING (DC)	
SECURITY LIGHT W/PHOTOCELL UTHONIA ALWX LED-1-25M400/51K-SR4-120-PE-DB878D	
CHAIN LINK FENCE	
WOOD/WROUGHT IRON FENCE	
WALL STRUCTURE	
LEASE AREA	
PROPERTY LINE (PL)	
SETBACKS	
ICE BRIDGE	
CABLE TRAY	
WATER LINE	
UNDERGROUND POWER	
OVERHEAD TELCO	
UNDERGROUND TELCO	
OVERHEAD POWER	
UNDERGROUND POWER	
ABOVE GROUND TELCO	
ABOVE GROUND TELCO/POWER	
WORKPOINT	
SECTION REFERENCE	
DETAIL REFERENCE	

LEGEND

ABBREVIATIONS



# INFORMATION

**This is an access point to an area with transmitting antennas.**

**Obey all signs and barriers beyond this point.  
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874**

Site ID: \_\_\_\_\_

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

SIGN TYPES	
TYPE INFORMATION	COLOR CODE PURPOSE GREEN SIGNAGE: ADVISES OTHERS OF SITE ONSESSURE & CONTACT NUMBER AND POTENTIAL RF EXPOSURE. NOTICE BEYOND THIS POINT: RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW SIGNAGE: ADVISES OTHERS OF SITE ONSESSURE & CONTACT NUMBER AND POTENTIAL RF EXPOSURE. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED SIGNAGE: ADVISES OTHERS OF SITE ONSESSURE & CONTACT NUMBER AND POTENTIAL RF EXPOSURE. OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)


**SIGN PLACEMENT:**

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH Wireless L.L.C.
- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH Wireless L.L.C. EQUIPMENT.
  - A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C. H-FRAME WITH A SECURE ATTACH METHOD.
  - B) IF THE INFORMATION SIGN IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DISH Wireless L.L.C. CONSTRUCTION MANAGER FOR FURTHER INSTRUCTION ON HOW TO PROCEED.

**NOTES:**

1. FOR DISH Wireless L.L.C. LOGO, SEE DISH Wireless L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH Wireless L.L.C.)
2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED)
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH Wireless L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREENS
6. ALL SIGNS TO BE 0.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

# WARNING



**Transmitting Antennae(s)**

Radio frequency fields beyond this point **EXCEED** the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.


Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

Site ID: \_\_\_\_\_

**dish**

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

# CAUTION



**Transmitting Antennae(s)**

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Site ID: \_\_\_\_\_

**dish**

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# NOTICE



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Site ID: \_\_\_\_\_

**dish**


THIS SIGN IS FOR REFERENCE PURPOSES ONLY



5701 SOUTH SANTA FE DRIVE  
LITTLETON, CO 80120



POWER OF DESIGN  
1140 BILBEGRASS PKWY  
LOUISVILLE, KY 40299



01/18/2024

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY:	CHECKED BY:	APPROVED BY:
AMM	EEW	AH

RFDS REV #:

**CONSTRUCTION DOCUMENTS**

REV#	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AAE PROJECT NUMBER  
826053

DISH Wireless L.L.C.  
PROJECT INFORMATION  
NJUERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
RF SIGNAGE

SHEET NUMBER  
GN-2

**SITE ACTIVITY REQUIREMENTS:**

- NOTICE TO PROCEED - NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.
- "LOOK UP" - DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY. ON THE DAY OF CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10 FEET CLEARANCE FROM THE SAFETY CLIMB AND ITS SUPPORTS. DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR IMPACT TO THE ANCHORAGE POINTS IN ANY WAY OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ON-SITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING, BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION), FEDERAL, STATE, AND LOCAL REGULATIONS, AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH Wireless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).

ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION E) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.

- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS CONYAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

**GENERAL NOTES:**

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
CONTRACTOR-GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION  
CARRIER-DISH Wireless L.L.C.  
TOWER OWNER-TOWER OWNER

THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS, NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.

NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.

ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

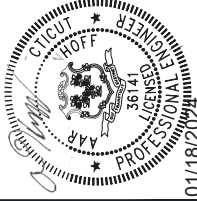
CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.

THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



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AMM	EEW	AH

RFDS REV #:

**CONSTRUCTION DOCUMENTS**

REV	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AAE PROJECT NUMBER  
826053

DISH Wireless L.L.C.  
PROJECT INFORMATION  
NJUER01091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
GN-3

- CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:
  - ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 308, ACI 310, ACI 315, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
  - UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
  - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90° AT TIME OF PLACEMENT.
  - CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINMENT AMOUNTS AS SPECIFIED IN THE CONTRACT DOCUMENTS. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (w/c) OF 0.45.
  - ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
    - #4 BARS AND SMALLER 40 ksi
    - #5 BARS AND LARGER 60 ksi
  - THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
    - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
    - CONCRETE EXPOSED TO EARTH OR WEATHER:
      - #6 BARS AND LARGER 2"
      - #5 BARS AND SMALLER 1-1/2"
    - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      - SLAB AND WALLS 3/4"
      - BEAMS AND COLUMNS 1-1/2"
  - A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

**ELECTRICAL INSTALLATION NOTES:**

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
  - ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE
  - ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT AVAILABLE AT THE POINT OF INSTALLATION. THE SHORT CIRCUIT CURRENT RATING SHALL BE EXCEEDED BY THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- THE WRAPS ARE NOT ALLOWED.
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE. COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

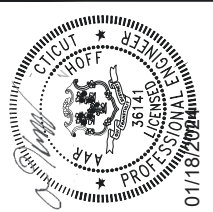
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREFOLD SPECIMATE WIREWAY).
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (RANDUIT TYPE E OR EQUAL).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED WITH PLASTIC. CONDUITS SHALL BE FINISHED TO PREVENT PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET METAL SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH WIRELESS L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH WIRELESS L.L.C."
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



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**CONSTRUCTION DOCUMENTS**

REV	DATE	DESCRIPTION
0	07/17/2024	FOR CONSTRUCTION

SUBMITALS

AAE PROJECT NUMBER  
826053

DISH Wireless L.L.C.  
PROJECT INFORMATION

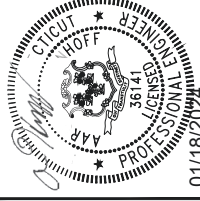
NJUR01091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
GN-4

**GROUNDING NOTES:**

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GESS'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES; #6 STRANDED COPPER OR LARGER FOR INDOOR BITS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BITS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC STRUCTURES THAT FORM A RING AROUND THE CONDUCTOR SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS, OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS. NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED, WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM. THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.



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**CONSTRUCTION DOCUMENTS**

REV	DATE	DESCRIPTION
0	01/17/2024	FOR CONSTRUCTION

AA&E PROJECT NUMBER	826053
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DISH Wireless, LLC  
PROJECT INFORMATION

NJJERO1091A  
88 MAIN ST  
MONROE, CT 06468

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
GN-5