



January 17, 2025

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

Re: Notice of Exempt Modification New Cingular Wireless PCS LLC ("AT&T") Site CT2814
311 Old Gate Lane, Milford, CT 06460 (the "Property")
Latitude: 41.2340528 N Longitude: -73.0228889 W

Dear Ms. Bachman:

AT&T currently maintains (6) antennas at the 83' level on the existing 120'± monopole tower ("Tower") located at 311 Old Gate Lane, Milford, CT. The property is owned by BVS Jai Alai LLC, and the Tower is owned by Crown Castle. AT&T intends on modifying its facility by adding (3) AIR 6472 B77G/B77M antennas at the 83' level of the Tower. The height of AT&Ts existing & proposed antennas is 83' on the Tower. Antenna mount modifications are proposed per the mount analysis.

This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

The City of Milford approved an amendment to Special Permit & Site Plan approval on November 6, 1996. The AT&T Facility received CT Siting Council approval under Petition 1473 on February 24, 2021. There were no conditions that could be feasibility be violated by this modification. The AT&T modification complies with the above-mentioned approvals.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies ("R.C.S.A") §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2). In accordance with to R.C.S.A §16-50j-73, a copy of this letter is being sent the Hon. Anthony S. Giannattasio, Mayor, City of Milford, Mr. David B. Sulkis, City Planner, City of Milford, BVS Jai Alai LLC, the property owner and Crown Castle, the tower owner.

The planned modification of the facility falls squarely within those activities explicitly provided for in R.C.S.A §16-50j-72(b)(2). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing Tower.

2. The proposed modifications will not require an 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 modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications 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 Tower and foundation can support the proposed loading.

For the foregoing reasons, AT&T respectfully submits the proposed modifications to the above referenced telecommunication facility constitute an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2).

Sincerely,

Hollis M. Redding

Hollis M. Redding
SAI Communications, LLC
12 Industrial Way
Salem, NH 03079
Mobile: 860-834-6964
hredding@saigrp.com

Enclosures

Cc:
Hon. Anthony S. Giannattasio, Mayor, City of Milford
Mr. David B. Silkis, City Planner, City of Milford
BVS Jai Alai LLC, the property owner
Crown Castle, the tower owner



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Calculated Radio Frequency Emissions Report



CT2814

311 Old Gate Lane, Milford, CT

December 31, 2024

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of AT&T's antenna arrays mounted at 83' AGL on the existing monopole tower located at 311 Old Gate Lane in Milford, CT. The coordinates of the monopole tower are 41° 14' 2.59" N, 73° 1' 22.4" W.

AT&T is proposing the following:

- 1) Retain six (6) direction antennas, two (2) per sector to support its 4G LTE and 5G NR network.
- 2) Install three (3) C-Band antennas, one (1) per sector to support its 5G NR network.

This report considers the antenna configuration for AT&T's¹ proposed modification as well as existing antenna configuration^{2,3} for T-Mobile and Verizon to calculate the resulting % Maximum Permissible Exposure (MPE) at ground level around the existing facility.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm²). The general population exposure limits for the various frequency ranges are defined in the document referenced in Attachment A of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

¹ As referenced to AT&T's Radio Frequency Design Sheet updated 03/01/2024 and Construction Drawings prepared by Aerosmith Engineering dated 11/12/2024 (Rev. 1).

² As referenced to T-Mobile's Connecticut Siting Council Notice of Exempt Modification – 311 Old Gate Lane, Milford, Connecticut, dated 04/9/2021.

³ As referenced to Verizon's Connecticut Siting Council Notice of Exempt Modification – 311 Old Gate Lane, Milford, Connecticut, dated 07/13/2021.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{\text{GRF}^2 \times 1.64 \times \text{ERP}}{4\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

$R = \text{Radial Distance} = \sqrt{H^2 + V^2}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor (GRF) of 1.6

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final installations.

The percent of MPE values presented in this report reflect levels that one may encounter from one sector of a carrier's antennas. Most carriers use 3 or 4 sectors per site with azimuths approximately 90 or 120 degrees apart, respectively; therefore, one could not be standing in the main beam of all sectors at the same time. In cases where antenna models are not uniform across all sectors, the antenna model with the highest gain was used for the calculations. This results in a conservative or "worst case" assumption for percent of MPE calculations.

4. Antenna Inventory

Table 1 below outlines AT&T's proposed antenna configuration for the site. The associated data model and antenna patterns for these specific antenna models are included in Attachments C.

Operator	Sector / Azimuth	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
AT&T	Alpha / 30°	763	160	15.6	5809	TPA65R-BU8D	73	0	8	83
		2100	240	18.3	16226		66			
		2300	100	18.2	6607		60			
		739	160	15.1	5177	DMP65R-BU8D	75	0	8	83
		850	160	16	6370		64			
		1900	160	18.2	10571		68			
		3500	200	19.1	16257	AIR 6472	60	0	3	83
		3700	200	18.9	15525		60			
	Beta / 150°	763	160	15.6	5809	TPA65R-BU8D	73	0	8	83
		2100	240	18.3	16226		66			
		2300	100	18.2	6607		60			
		739	160	15.1	5177	DMP65R-BU8D	75	0	8	83
		850	160	16	6370		64			
		1900	160	18.2	10571		68			
		3500	200	19.1	16257	AIR 6472	60	0	3	83
		3700	200	18.9	15525		60			
	Gamma / 270°	763	160	15.6	5809	TPA65R-BU8D	73	0	8	83
		2100	240	18.3	16226		66			
		2300	100	18.2	6607		60			
		739	160	15.1	5177	DMP65R-BU8D	75	0	8	83
		850	160	16	6370		64			
		1900	160	18.2	10571		68			
		3500	200	19.1	16257	AIR 6472	60	0	3	83
		3700	200	18.9	15525		60			

Table 1: Proposed Antenna Inventory^{4,5}

⁴ Antenna heights are in reference to the Construction Drawings prepared by Aerosmith Engineering dated 11/12/2024 (Rev. 1).

⁵ Transmit power assumes 0 dB of cable loss.

5. Calculation Results

The calculated % MPE results for the proposed and existing antenna configuration are shown in Figure 1 below. Each frequency band and technology is calculated as well as the resulting cumulative percent of MPE. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within ± 5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

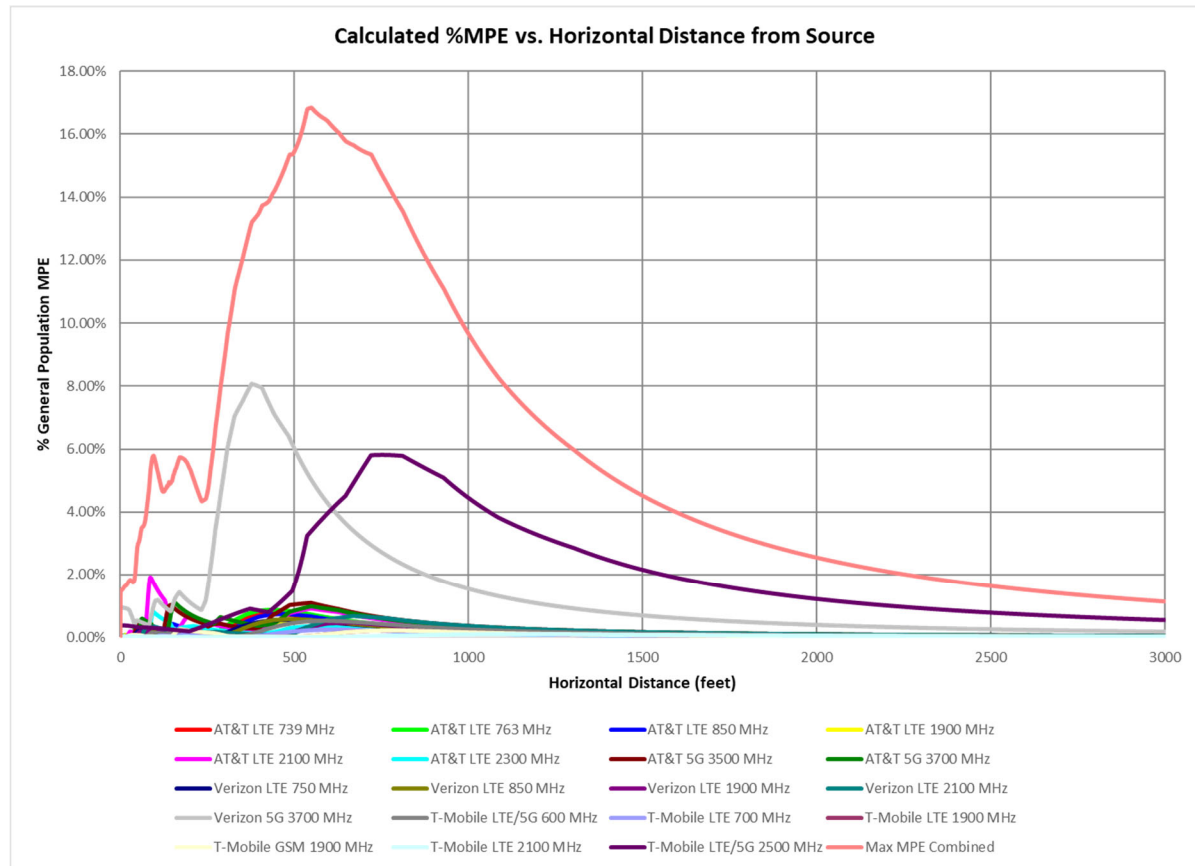


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (**16.85%** of the General Population limit) is calculated to occur at a horizontal distance of 548 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1000 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. In addition, a six foot height offset was considered in this analysis to account for average human height. As a result, the predicted signal levels are significantly higher than the actual signal levels will be from the final configuration. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the tower out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm ²)	Limit (mW/cm ²)	% MPE
AT&T 5G 3500 MHz	1	200.0	83.0	548	0.010890	1.000	1.09%
AT&T 5G 3700 MHz	1	200.0	83.0	548	0.009819	1.000	0.98%
AT&T LTE 1900 MHz	1	160.0	83.0	548	0.005335	1.000	0.53%
AT&T LTE 2100 MHz	1	240.0	83.0	548	0.009104	1.000	0.91%
AT&T LTE 2300 MHz	1	100.0	83.0	548	0.003524	1.000	0.35%
AT&T LTE 739 MHz	1	160.0	83.0	548	0.003056	0.493	0.62%
AT&T LTE 763 MHz	1	160.0	83.0	548	0.003674	0.509	0.72%
AT&T LTE 850 MHz	1	160.0	83.0	548	0.003725	0.567	0.66%
T-Mobile GSM 1900 MHz	1	120.0	120.0	548	0.000396	1.000	0.04%
T-Mobile LTE 1900 MHz	1	120.0	120.0	548	0.000396	1.000	0.04%
T-Mobile LTE 2100 MHz	1	120.0	120.0	548	0.000023	1.000	0.00%
T-Mobile LTE 700 MHz	1	60.0	120.0	548	0.001027	0.467	0.22%
T-Mobile LTE/5G 2500 MHz	1	240.0	120.0	548	0.033893	1.000	3.39%
T-Mobile LTE/5G 600 MHz	1	140.0	120.0	548	0.002017	0.400	0.50%
Verizon 5G 3700 MHz	1	200.0	100.0	548	0.050336	1.000	5.03%
Verizon LTE 1900 MHz	1	160.0	100.0	548	0.003322	1.000	0.33%
Verizon LTE 2100 MHz	1	240.0	100.0	548	0.003621	1.000	0.36%
Verizon LTE 750 MHz	1	160.0	100.0	548	0.002567	0.500	0.51%
Verizon LTE 850 MHz	1	160.0	100.0	548	0.003073	0.567	0.54%
						Total	16.85%

Table 2: Maximum Percent of General Population Exposure Values ^{6 7 8}

⁶ Frequencies listed are representative of the operating band and are not the specific operating frequency.

⁷ The total % MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

⁸ In the case where antenna pattern data was unavailable, generic antenna pattern was used based on the frequency, bandwidth and gain of the antenna.

6. Conclusion

The above analysis concludes that RF exposure levels from the site with AT&T's proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **16.85 % of the FCC limit (General Population/Uncontrolled)**. This maximum cumulative percent of MPE value is calculated to occur 548 feet away from the site.

7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.1, ANSI/IEEE Std. C95.3 and FCC OET Bulletin 65 Edition 97-01.



Report Prepared By: Ram Acharya
RF Engineer
C Squared Systems, LLC

December 30, 2024
Date



Reviewed/Approved By: Martin Lavin
Senior RF Engineer
C Squared Systems, LLC

December 31, 2024
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2019, IEEE Standard Safety Levels With Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2021, IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz-300 GHz IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure⁹

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure¹⁰

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 3: FCC Limits for Maximum Permissible Exposure

⁹ Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

¹⁰ General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

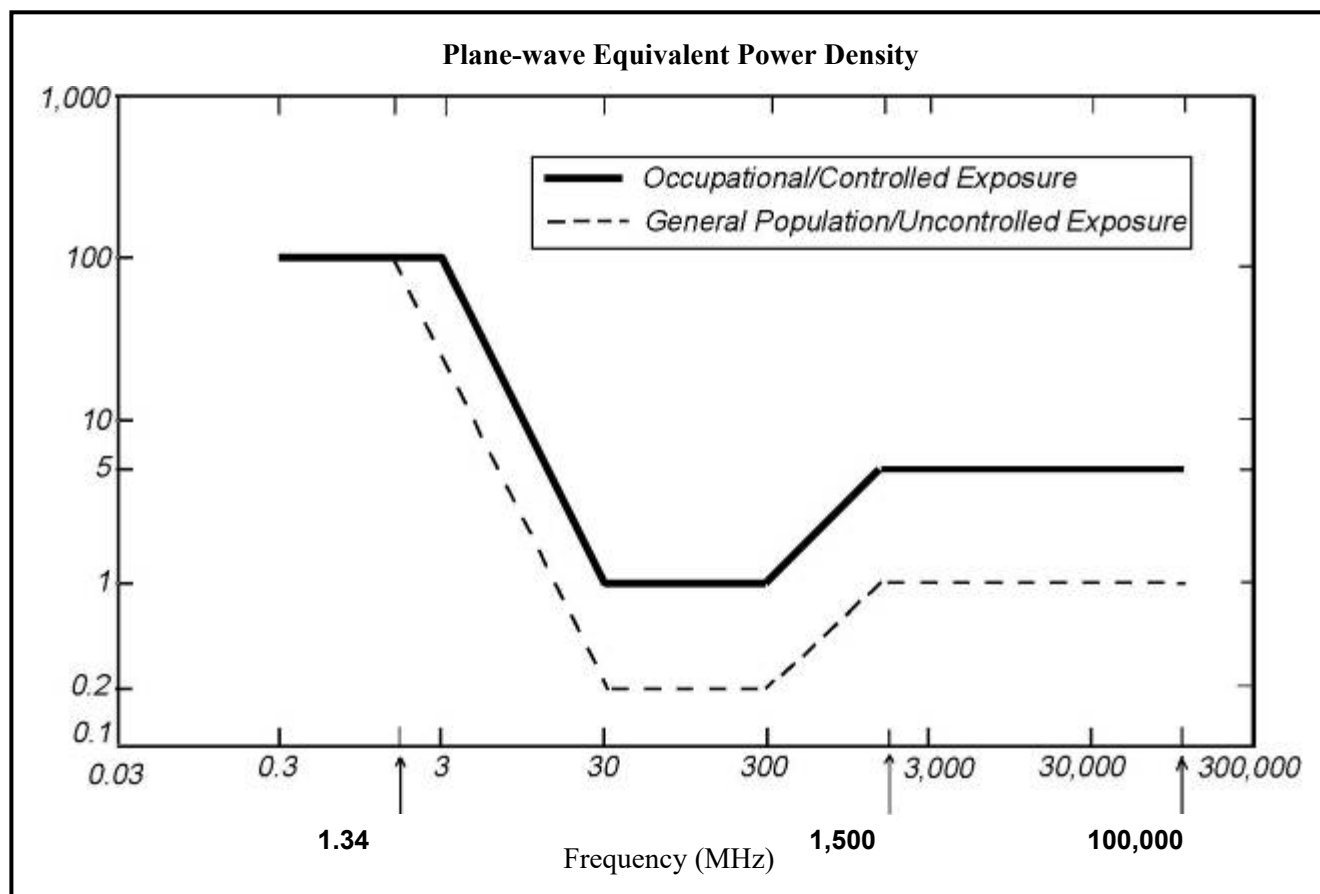
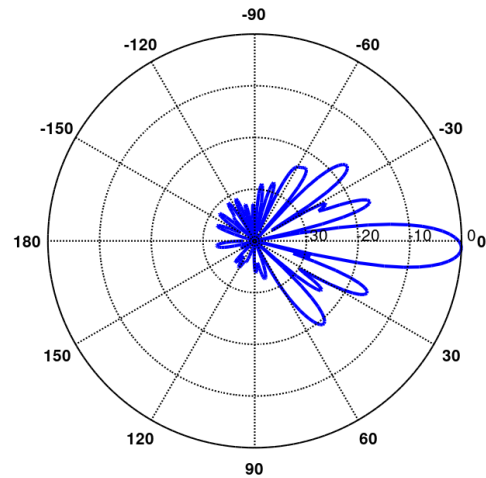


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Antenna Model Data Sheets and Electrical Patterns

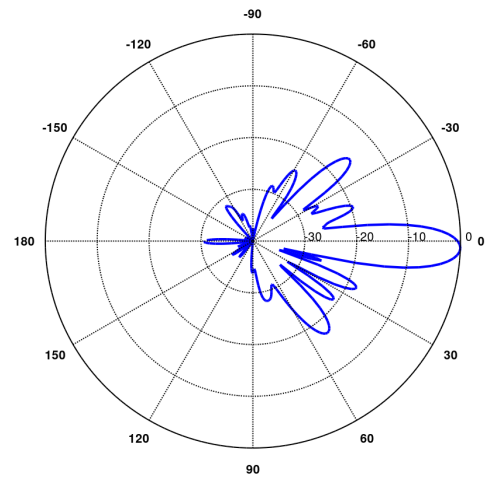
739 MHz

Manufacturer: CCI
 Model #: DMP65R-BU8D
 Frequency Band: 698-798 MHz
 Gain: 15.1 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 9.5°
 Horizontal Beamwidth: 75°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 96" x 20.7" x 7.7"



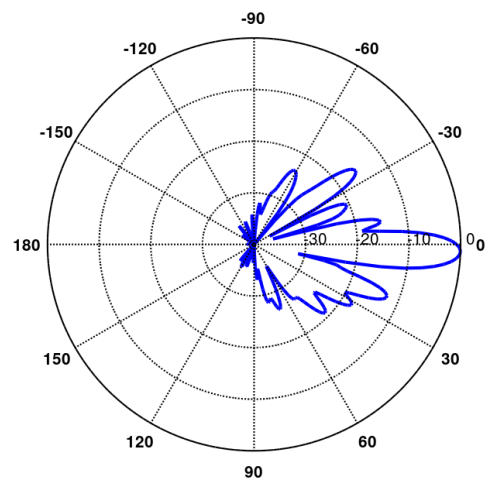
763 MHz

Manufacturer: CCI
 Model #: TPA65R-BU8D
 Frequency Band: 698-806 MHz
 Gain: 15.6 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 9.5°
 Horizontal Beamwidth: 73°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 96" x 21" x 7.8"



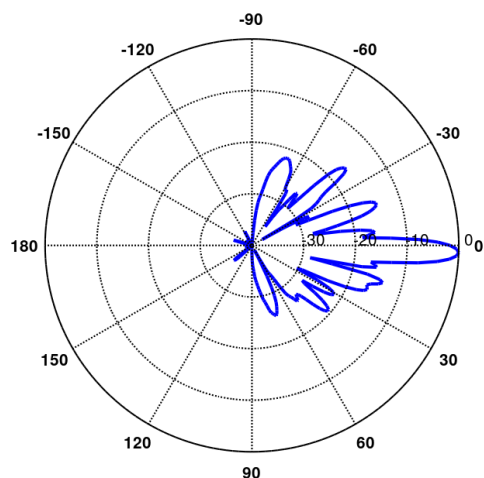
850 MHz

Manufacturer: CCI
 Model #: DMP65R-BU8D
 Frequency Band: 824-896 MHz
 Gain: 16 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 8°
 Horizontal Beamwidth: 64°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 96" x 20.7" x 7.7"



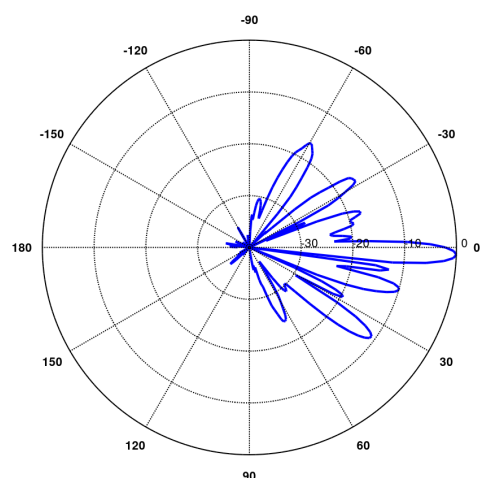
1900 MHz

Manufacturer: CCI
 Model #: DMP65R-BU8D
 Frequency Band: 1850-1990 MHz
 Gain: 18.2 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 4.8°
 Horizontal Beamwidth: 68°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 96" x 20.7" x 7.7"



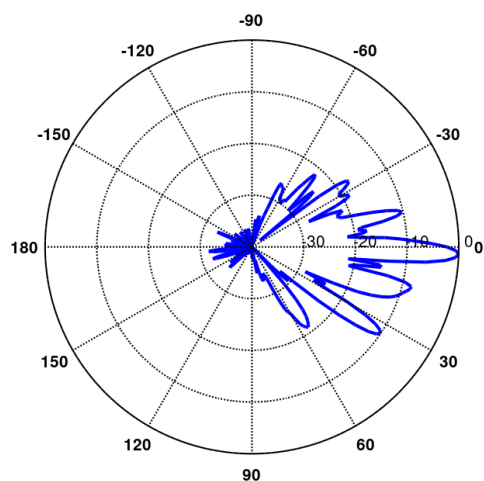
2100 MHz

Manufacturer: CCI
 Model #: TPA65R-BU8D
 Frequency Band: 1920-2180 MHz
 Gain: 18.3 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 4.8°
 Horizontal Beamwidth: 66°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 96" x 21" x 7.8"



2300 MHz

Manufacturer: CCI
 Model #: TPA65R-BU8D
 Frequency Band: 2300-2400 MHz
 Gain: 18.2 dBi
 Electrical Down-Tilt: 2°
 Vertical Beamwidth: 4.1°
 Horizontal Beamwidth: 60°
 Polarization: Dual Linear 45°
 Dimensions (L x W x D): 96" x 21" x 7.8"



GENERAL CONSTRUCTION NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)
OWNER – AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL 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 WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEViate FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S 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.
25. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING." IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. SUBCONTRACTOR SHALL REMOVED ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. ANY REQUIRED LIGHTING MUST MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL FEEDLINE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
41. NO SIGNIFICANT NOISE, SMOKE, DUST OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR).
42. NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
43. NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.
44. INSTALLER SHALL PROVIDE ALL NECESSARY CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETED INSTALLATION AND COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS.
45. INSTALLER SHALL PROVIDE ALL STRAIN RELIEF FOR ALL CABLE ASSEMBLIES ROUTING TO THE ANTENNAS.



Jacobs



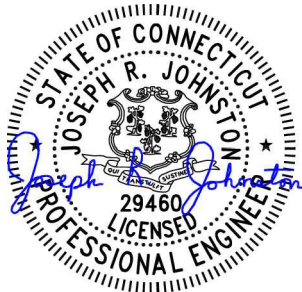
AIROSMITH DEVELOPMENT
AIROSMITH ENGINEERING

318 WEST AVE.
SARATOGA SPRINGS, NY 12866
PROJECT #: JAC MNP MCA T6

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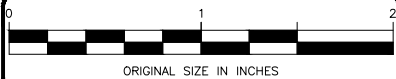
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EXP: 1/ 31/ 2025 11/12/ 2024

DRAWINGS ISSUED FOR:

REV.	DATE	DRAWN	DESCRIPTION	QA/QC
A	07/02/24	RC	FOR REVIEW	SKB
0	10/14/24	JRF	FOR PERMIT	JRF
1	11/12/24	JRF	PER COMMENTS FOR PERMIT	JRF



ORIGINAL SIZE IN INCHES

PROJECT INFORMATION:

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10546792
CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

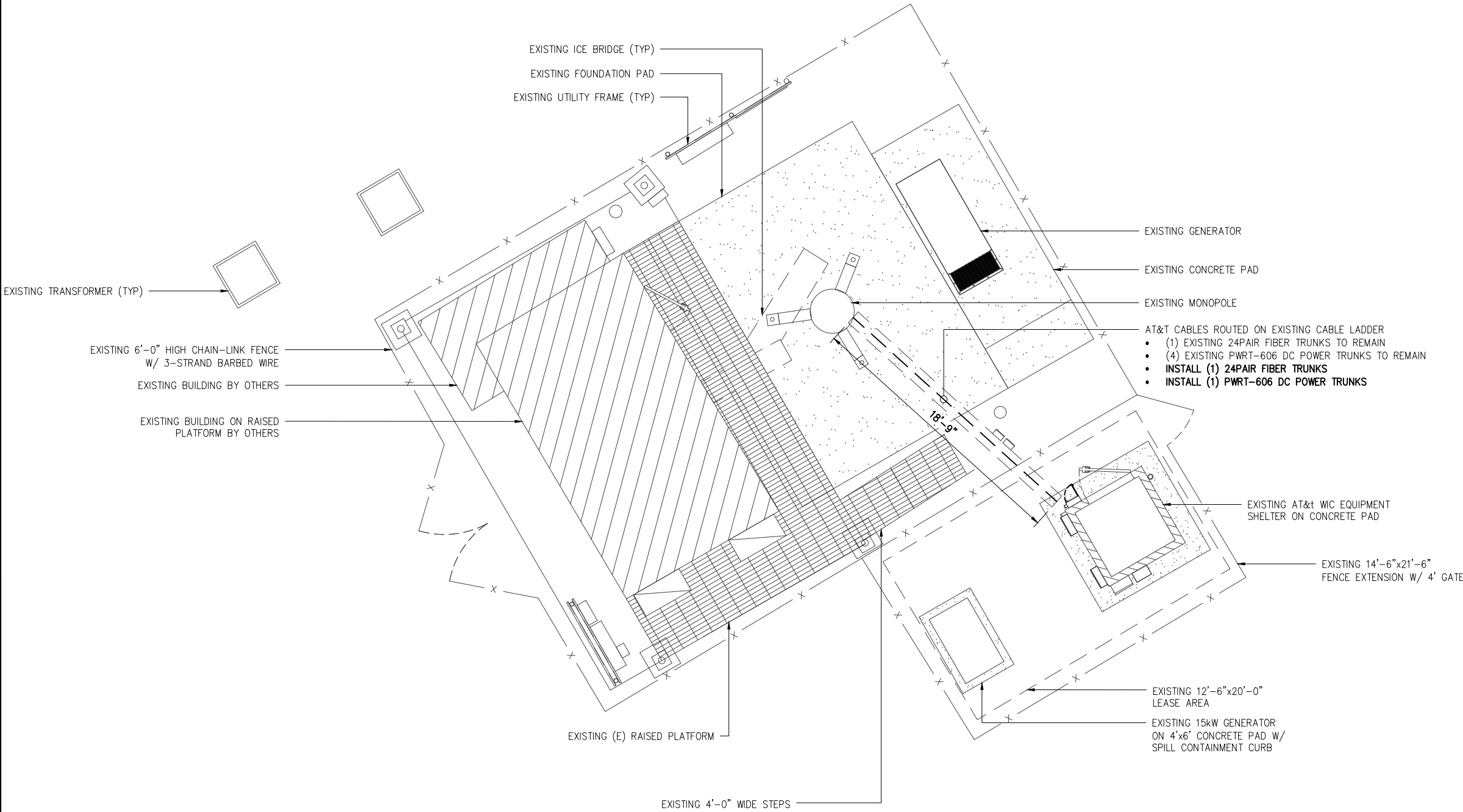
GENERAL NOTES

SHEET NUMBER:

GN01

REVISION:

1



INFORMATION CONTAINED WITHIN THESE DRAWINGS IS BASED ON PREVIOUS DRAWINGS & INFORMATION PROVIDED TO AIROSMITH BY TURF VENDOR AND DOES NOT REPRESENT A FIELD SURVEY. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

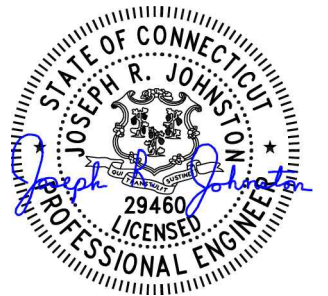


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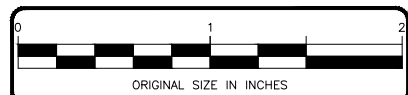
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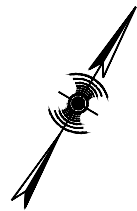
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CT2814

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NEW HAVEN COUNTY
MONOPOLE

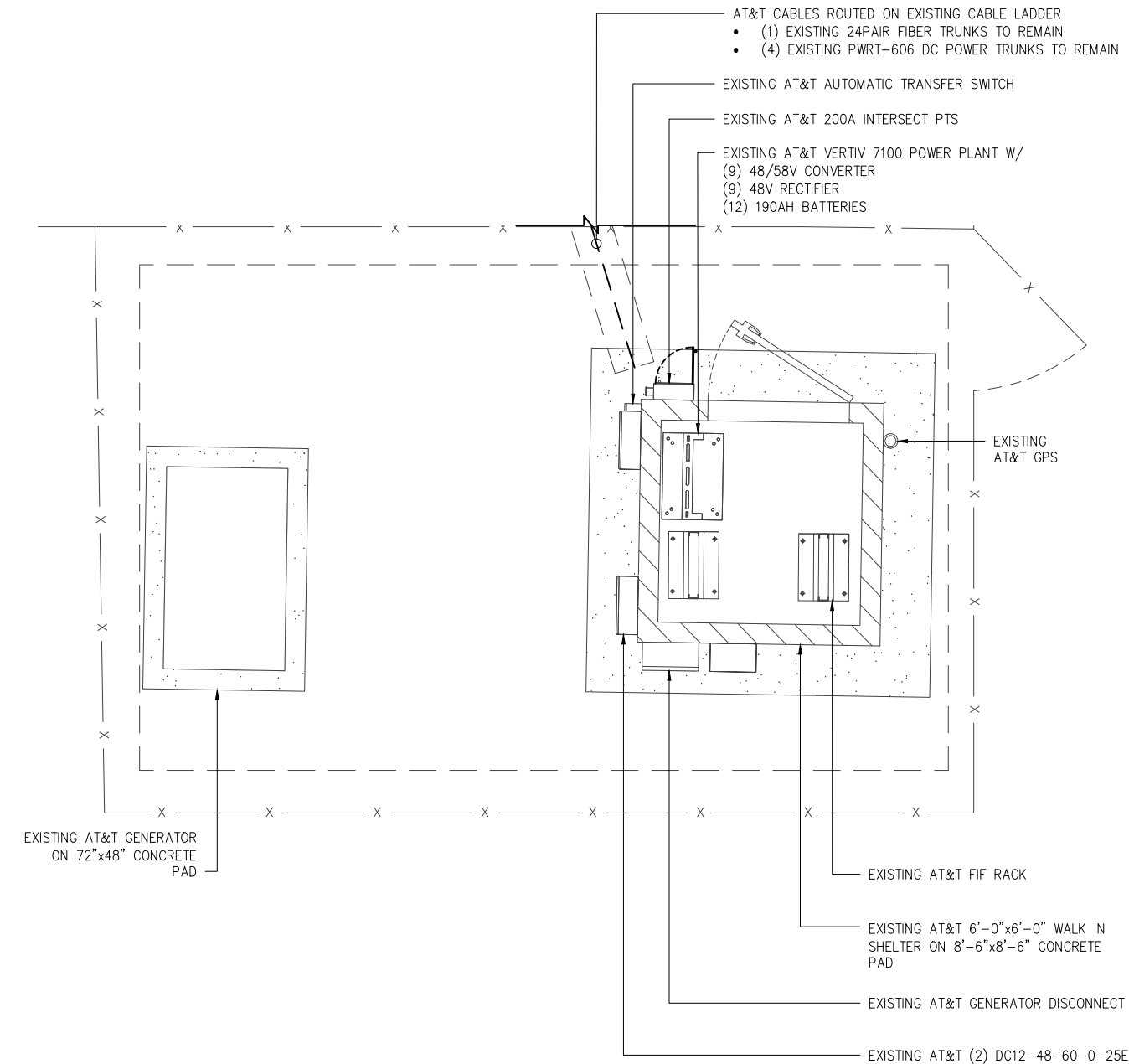
SHEET TITLE:
COMPOUND PLAN

SHEET NUMBER: A01
REVISION: 1



1 EXISTING EQUIPMENT PLAN

SCALE: 1" = 4' (11"x17"), 1" = 2' (22"x34")

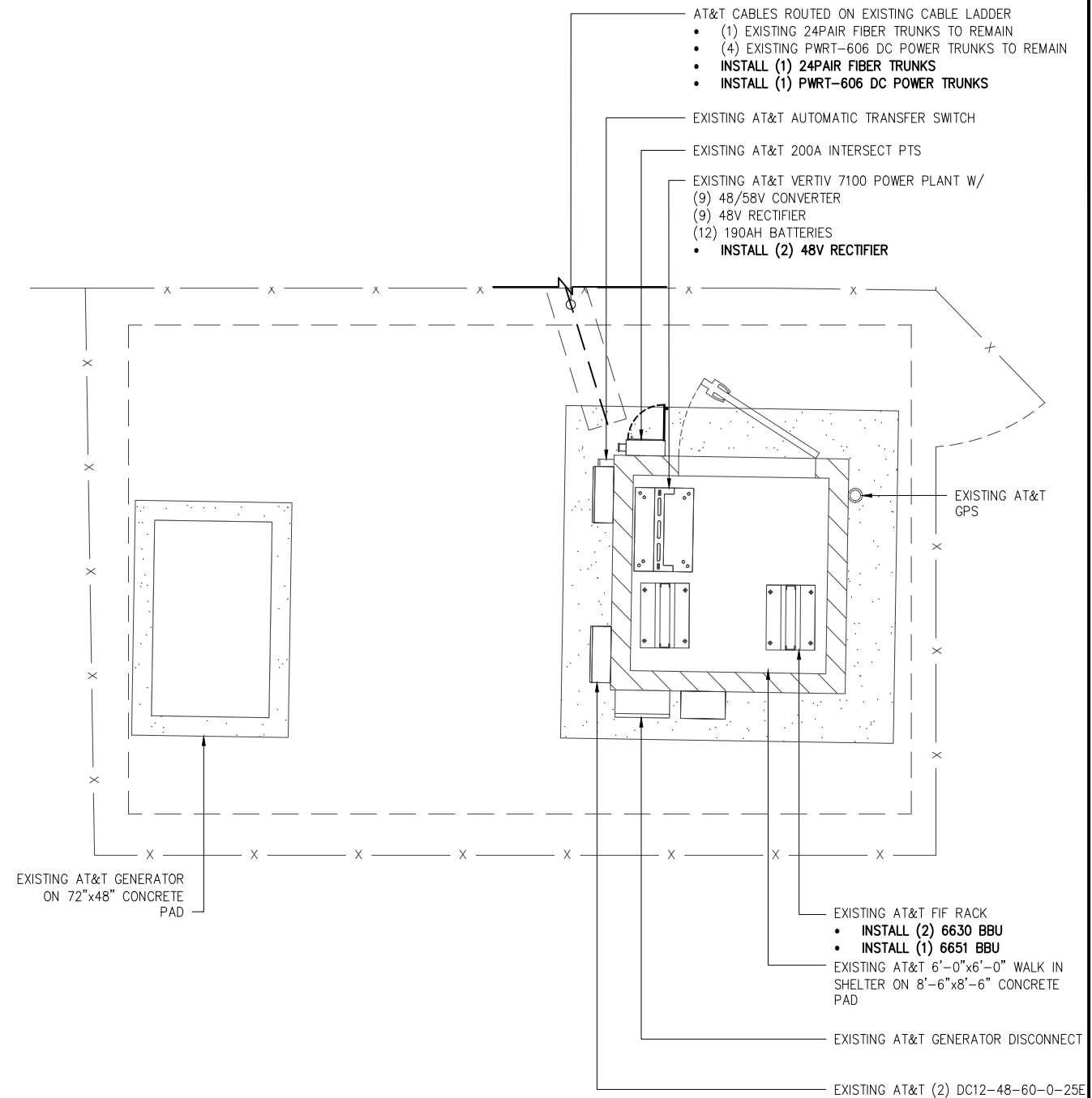


GROUND LEVEL:

- INSTALL (1) 606 DC TRUNK AND (1) 24 PAIR FIBER TO THE NEW DC9
- INSTALL (2) NEW RECTIFIERS IN THE POWER PLANT

2 PROPOSED EQUIPMENT PLAN

SCALE: 1" = 4' (11"x17"), 1" = 2' (22"x34")



Jacobs



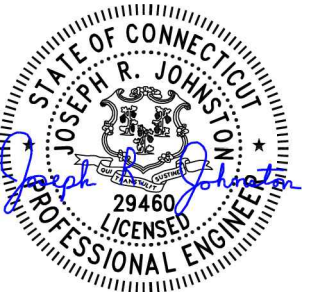
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AIROSMITH ENGINEERING

318 WEST AVE.
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10546792
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NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

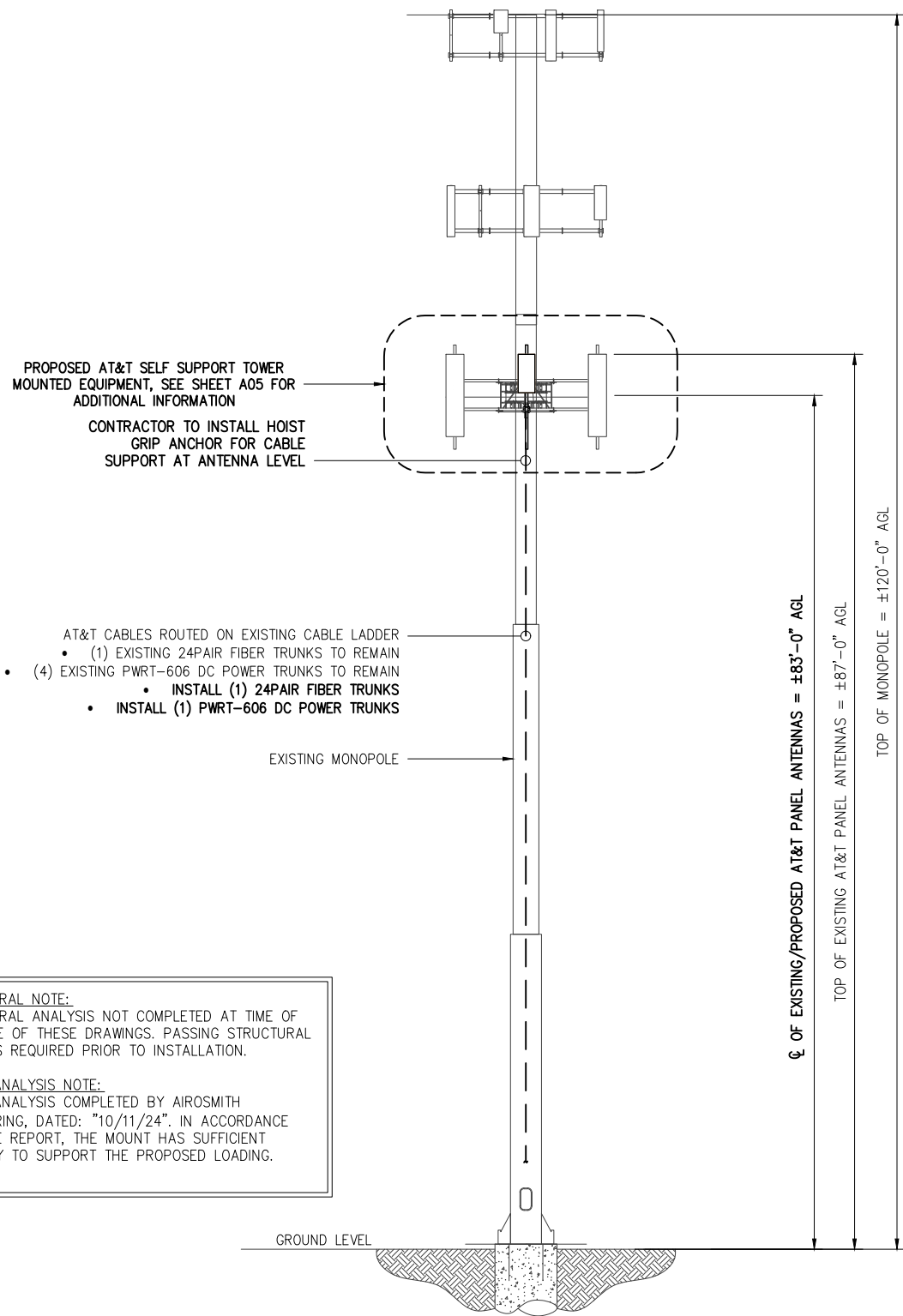
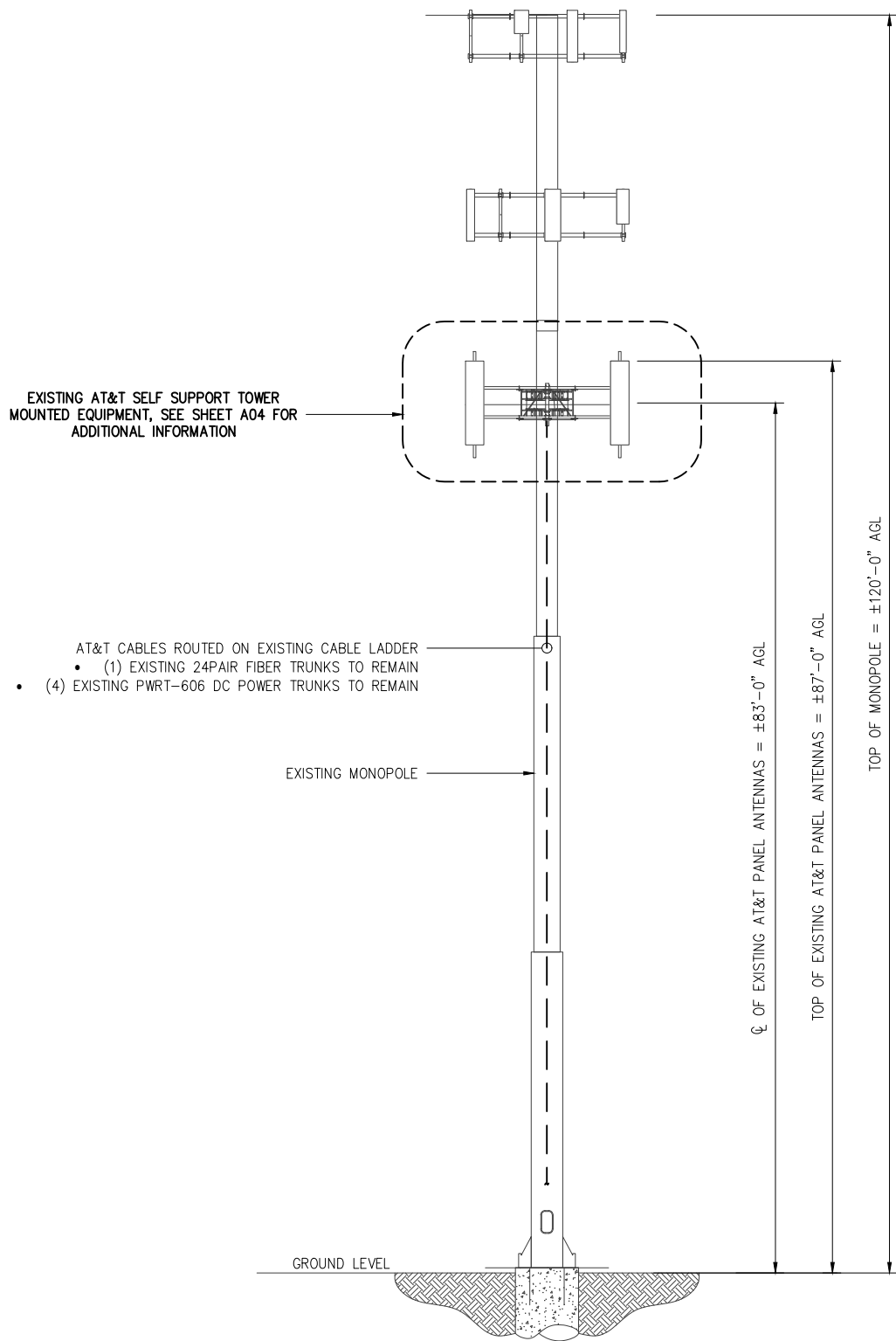
EQUIPMENT PLAN

SHEET NUMBER:

A02

REVISION:

1



STRUCTURAL NOTE:
STRUCTURAL ANALYSIS NOT COMPLETED AT TIME OF
ISSUANCE OF THESE DRAWINGS. PASSING STRUCTURAL
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MOUNT ANALYSIS NOTE:
MOUNT ANALYSIS COMPLETED BY AIROSMITH
ENGINEERING, DATED: "10/11/24". IN ACCORDANCE
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CAPACITY TO SUPPORT THE PROPOSED LOADING.



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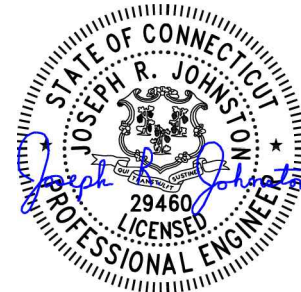
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1	11/12/24	JRF	PER COMMENTS FOR PERMIT	JRF



PROJECT INFORMATION:

SITE:
10546792
CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

ELEVATION VIEW

SHEET NUMBER:

A03

REVISION:

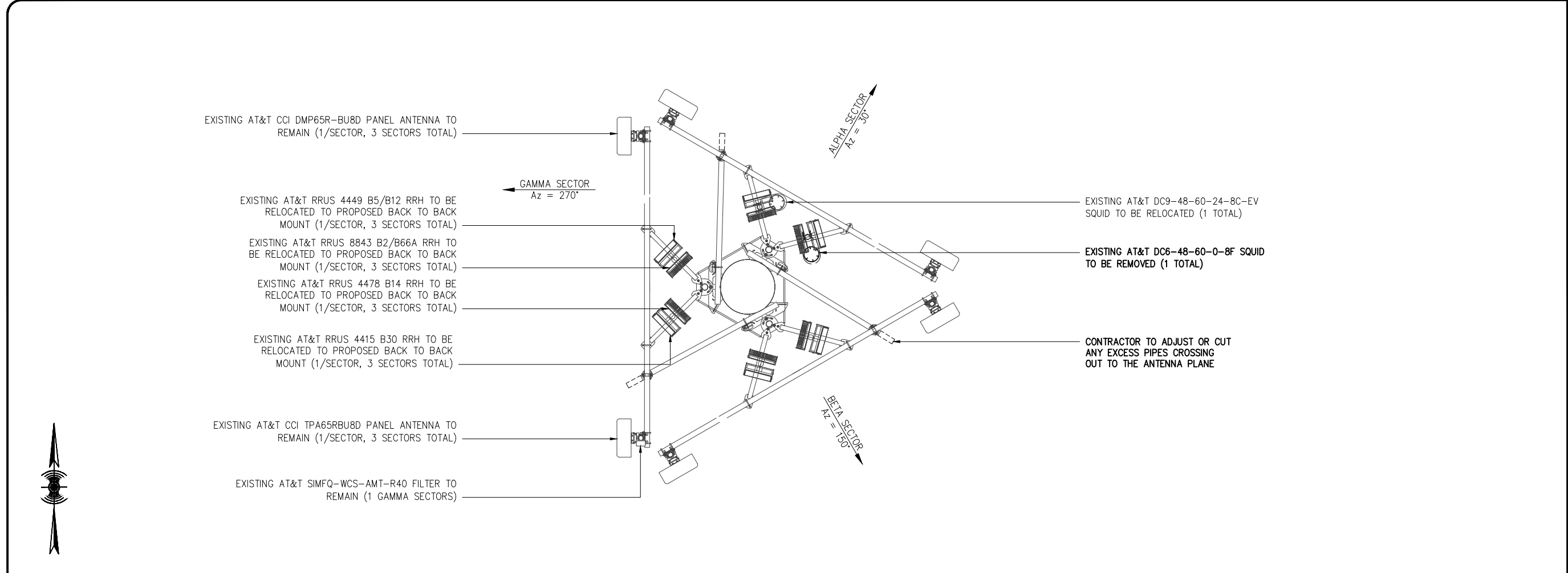
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1 EXISTING ELEVATION VIEW

SCALE: NOT TO SCALE

2 PROPOSED ELEVATION VIEW

SCALE: NOT TO SCALE



1

EXISTING ANTENNA ORIENTATION PLAN

SCALE: 1" = 5' (11"x17"), 2" = 5' (22"x34")

EXISTING ANTENNA AND RADIO MODEL NUMBERS											
SECTOR	POSITION	BAND	MODEL	RAD CENTER (AGL)	AZIMUTH	COAX CABLES	OTHER CABLES	RRU	TMA	DIPLEXER	OTHER EQUIPMENT
ALPHA	A1	LTE B14/AWS/WCS	(1) CCI TPA65RBU8D (E)	83'-0"	30°	--	(1) 24P FIBER (E) (4) PWRT-606 (E)	(1) RRUS 4478 B14 (E)	--	--	(1) DC9-48-60-24-8C-EV (E)
	A4	LTE 700BC/850/PCS	(1) CCI DMP65R-BU8D (E)		30°			(1) RRUS 4415 B30 (E)			
								(1) RRUS 4449 B5/B12 (E)			
BETA	B1	LTE B14/AWS/WCS	(1) CCI TPA65RBU8D (E)	83'-0"	150°			(1) RRUS 8843 B2/B66A (E)			
								(1) RRUS 4478 B14 (E)			
	B4	LTE 700BC/850/PCS	(1) CCI DMP65R-BU8D (E)		150°			(1) RRUS 4415 B30 (E)			
GAMMA	C1	LTE B14/AWS/WCS	(1) CCI TPA65RBU8D (E)	83'-0"	270°			(1) RRUS 4449 B5/B12 (E)			SIMFQ-WCS-AMT-R40 (FILTER)
								(1) RRUS 8843 B2/B66A (E)			
	C4	LTE 700BC/850/PCS	(1) CCI DMP65R-BU8D (E)		270°			(1) RRUS 4478 B14 (E)			

2

EXISTING RF SCHEDULE

SCALE: NOT TO SCALE

AIROSMITH DEVELOPMENT
AIROSMITH ENGINEERING
318 WEST AVE.
SARATOGA SPRINGS, NY 12866
PROJECT #: JAC MNP MCA T6

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PROJECT INFORMATION:

SITE:
10546792
CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

EXISTING ORIENTATION PLAN
& RF SCHEDULE

SHEET NUMBER:

1

REVISION:

A04

STRUCTURAL NOTE:
STRUCTURAL ANALYSIS NOT COMPLETED AT TIME OF
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MOUNT ANALYSIS NOTE:
MOUNT ANALYSIS COMPLETED BY AIROSMITH
ENGINEERING, DATED: "10/11/24". IN ACCORDANCE
WITH THE REPORT, THE MOUNT HAS SUFFICIENT
CAPACITY TO SUPPORT THE PROPOSED LOADING.

EXISTING AT&T CCI DMP65R-BU8D PANEL ANTENNA TO
REMAIN (1/SECTOR, 3 SECTORS TOTAL)

EXISTING RELOCATED AT&T RRUS 4449 B5/B12
RRH (1/SECTOR, 3 SECTORS TOTAL)

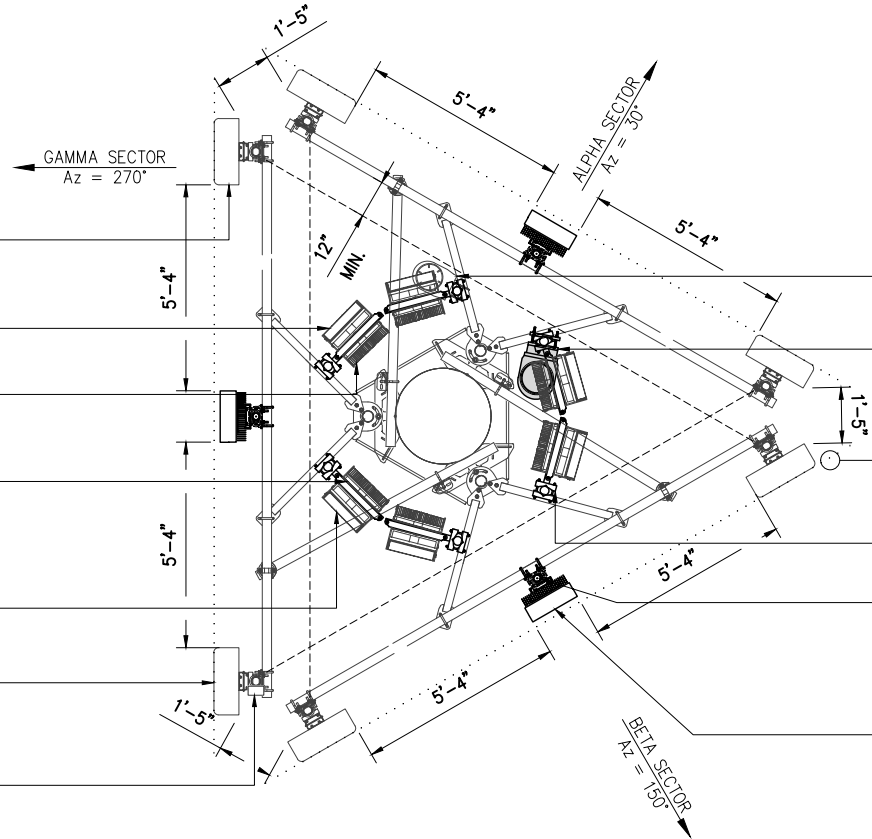
EXISTING RELOCATED AT&T RRUS 8843
B2/B66A RRH (1/SECTOR, 3 SECTORS TOTAL)

EXISTING RELOCATED AT&T RRUS 4478 B14
RRH (1/SECTOR, 3 SECTORS TOTAL)

EXISTING RELOCATED AT&T RRUS 4415
B30 RRH (1/SECTOR, 3 SECTORS TOTAL)

EXISTING AT&T CCI TPA65RBU8D PANEL ANTENNA TO
REMAIN (1/SECTOR, 3 SECTORS TOTAL)

EXISTING AT&T SIMFQ-WCS-AMT-R40 FILTER TO
REMAIN (1 GAMMA SECTORS)



EXISTING RELOCATED AT&T
DC9-48-60-24-8C-EV SQUID (1 TOTAL)

PROPOSED AT&T (1) RAYCAP DC9-48-60-24-8C-EV SURGE
SUPPRESSOR MOUNTED ON EXISTING PIPE MOUNT

CONTRACTOR TO CONFIRM ANTENNA
FACE PLANE ALIGNMENT DURING AND
AFTER ANTENNA INSTALLATION

PROPOSED AT&T (6) BACK TO BACK MOUNT
(2/SECTOR, 3 SECTORS TOTAL)

PROPOSED AT&T NEW MOUNT PIPE 3.5"OD, 10-FT LONG
(COMMSCOPE P/N: MT-547-126, CONMAT ANT. 57351) (1/SECTOR,
3 TOTAL) ATTACHED TO THE EXISTING MOUNT HORIZONTALS
UTILIZING SITEPRO1 P/N: SCX7-U (CONMAT ANT.16985)
(2/SECTOR, 6 TOTAL) IN POSITION 2 FOR ALL SECTORS.

PROPOSED AT&T ERICSSON AIR6472 B77G/B77M PANEL
ANTENNA (1/SECTOR, 3 SECTORS TOTAL)

1 PROPOSED ANTENNA ORIENTATION PLAN

SCALE: 1" = 5' (11"x17"), 2" = 5' (22"x34")

PROPOSED ANTENNA AND RADIO MODEL NUMBERS											
SECTOR	POSITION	BAND	ANTENNA	ANTENNA $\angle$	AZIMUTH	COAX CABLES	OTHER CABLES	RRU	TMA	DIPLEXER	OTHER EQUIPMENT
ALPHA	A2	LTE B14/AWS/WCS	(1) CCI TPA65RBU8D (E)	83'-0"	30°	--	(1) 24P FIBER (E) (1) 24P FIBER (P) (4) PWRT-606 (E) (1) PWRT-606 (P)	(1) RRUS 4478 B14 (E) (1) RRUS 4415 B30 (E)	--	--	(1) DC9-48-60-24-8C-EV (E) (1) DC9-48-60-24-8C-EV (P)
	A3	5G DoD	(1) ERICSSON AIR6472 B77G/B77M (P)	83'-0"	30°			--	--		
	A4	LTE 700BC/850/PCS	(1) CCI DMP65R-BU8D (E)	83'-0"	30°			(1) RRUS 4449 B5/B12 (E) (1) RRUS 8843 B2/B66A (E)	--		
BETA	B2	LTE B14/AWS/WCS	(1) CCI TPA65RBU8D (E)	83'-0"	150°			(1) RRUS 4478 B14 (E) (1) RRUS 4415 B30 (E)	--		
	B3	5G DoD	(1) ERICSSON AIR6472 B77G/B77M (P)	83'-0"	150°			--	--		
	B4	LTE 700BC/850/PCS	(1) CCI DMP65R-BU8D (E)	83'-0"	150°			(1) RRUS 4449 B5/B12 (E) (1) RRUS 8843 B2/B66A (E)	--		
GAMMA	C2	LTE B14/AWS/WCS	(1) CCI TPA65RBU8D (E)	83'-0"	270°			(1) RRUS 4478 B14 (E) (1) RRUS 4415 B30 (E)	SIMFQ-WCS-AMT-R40 (FILTER)		
	C3	5G DoD	(1) ERICSSON AIR6472 B77G/B77M (P)	83'-0"	270°			--	--		
	C4	LTE 700BC/850/PCS	(1) CCI DMP65R-BU8D (E)	83'-0"	270°			(1) RRUS 4449 B5/B12 (E) (1) RRUS 8843 B2/B66A (E)	--		SIMFQ-WCS-AMT-R40 (FILTER)

2 PROPOSED RF SCHEDULE

SCALE: NOT TO SCALE



Jacobs



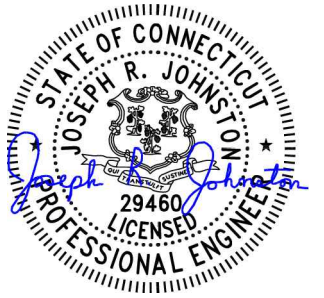
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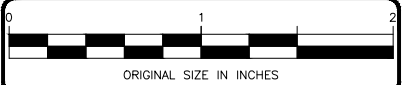
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ORIGINAL SIZE IN INCHES

PROJECT INFORMATION:

SITE:
10546792
CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

PROPOSED ORIENTATION PLAN
& RF SCHEDULE

SHEET NUMBER:

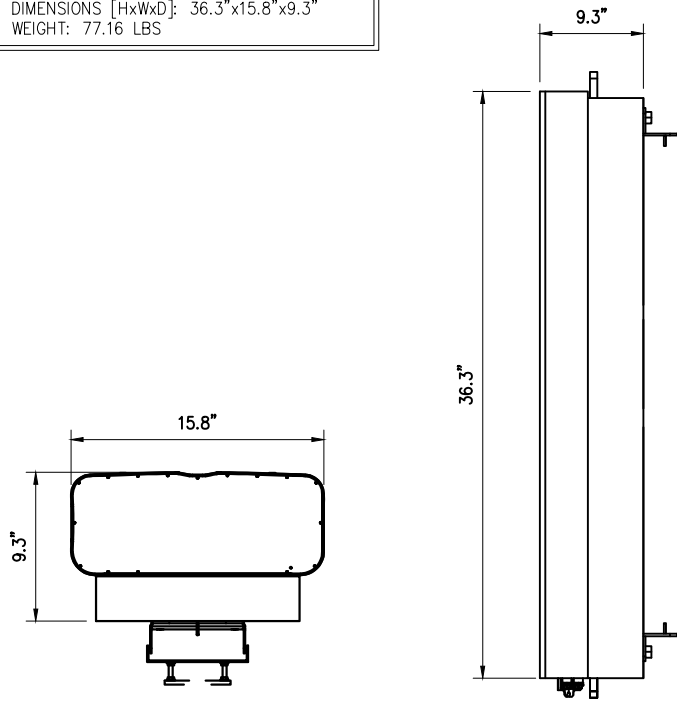
A05

REVISION:

1

ANTENNA: ERICSSON AIR6472 B77G/B77M

- DIMENSIONS [HxWxD]: 36.3"x15.8"x9.3"
- WEIGHT: 77.16 LBS

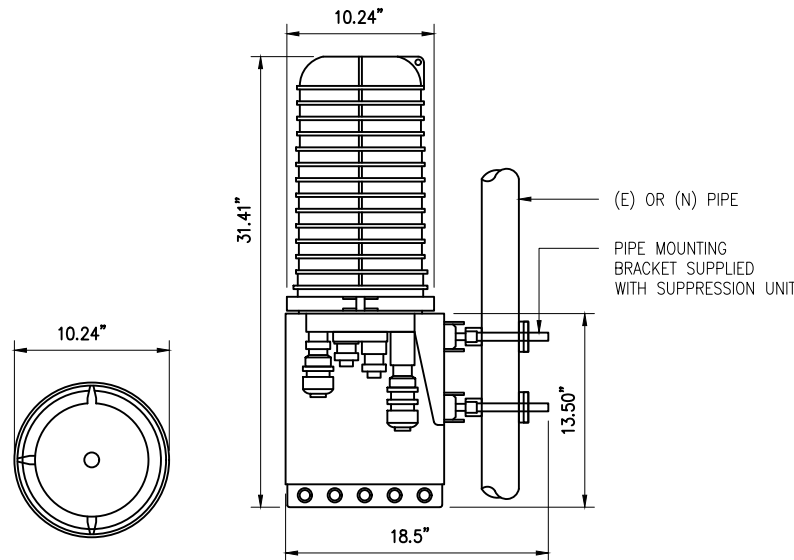


TOP VIEW

SIDE VIEW

DC SURGE: RAYCAP DC9-48-60-24-8C-EV

- DIMENSIONS [HxWxD]: 31.29"x10.24"x13.5"
- WEIGHT: 66.1 LBS

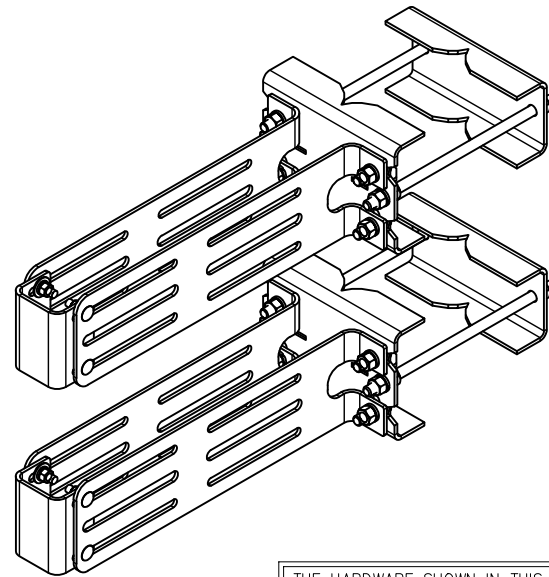


TOP VIEW

SIDE VIEW

DUAL RRU MOUNT: COMMSCOPE RR-FA2

- HxLxW, (INCHES): 16.4"x18"x6.5"
- WEIGHT (LBS): 36 LBS.
- INSTALLATION NOTE: UTILIZE (2) BRACKETS PER RRH MOUNTING LOCATION.



THE HARDWARE SHOWN IN THIS DETAIL HAS NOT BEEN STRUCTURALLY EVALUATED BY AIROSMITH. CONTACT THE MANUFACTURER FOR ADDITIONAL STRUCTURAL INFORMATION. AIROSMITH ACCEPTS NO LIABILITY FOR THE STRUCTURAL INTEGRITY OF THE PRODUCT.

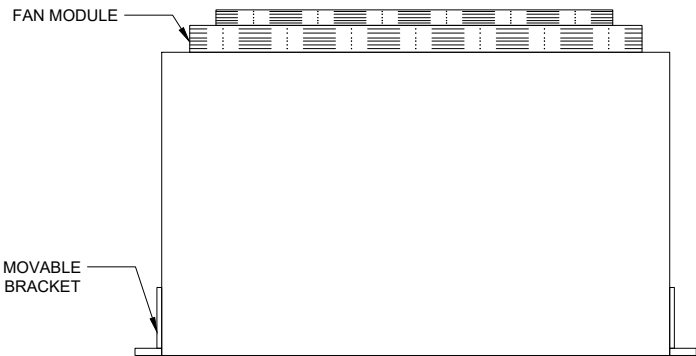
1 AIR6472 B77G/B77M DETAIL

SCALE: NOT TO SCALE

2 DC9 DETAIL

SCALE: NOT TO SCALE

3 BACK TO BACK MOUNT DETAIL



TOP VIEW

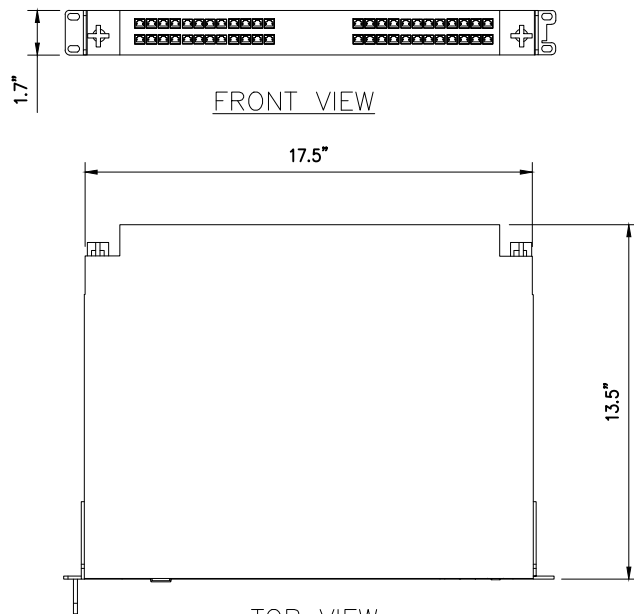
FRONT VIEW

ERICSSON BASEBAND 6630

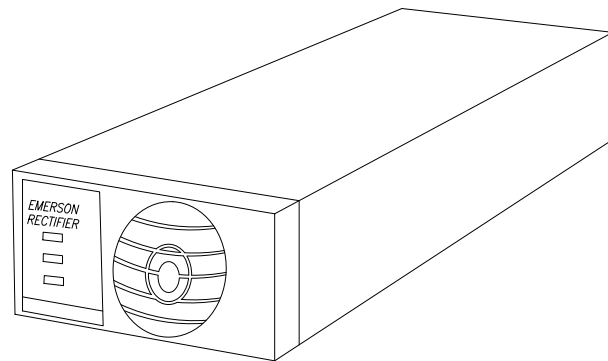
- DIMENSION, WxDxH: 19"x13.8"x1.75"
- TOTAL WEIGHT: < 14.3 lbs
- CPRI SUPPORT: 2.5 Gbps, 4.9 Gbps, and 10.1 Gbps

BBU: ERICSSON 6610

- HxLxW, (INCHES): 1.7"x17.5"x13.5"
- WEIGHT (LBS): 17.0 LBS.



TOP VIEW



NEQ.15930 1R482000E3
RECTIFIER, NETSURE™ 512 & 721, HIGH EFFICIENCY,
-48 VDC, 40 A/2000 W, 120/208/240 VAC,
SINGLE-PHASE INPUT,
DIMENSIONS (HXWXD): 1.7"x3.3"x9.9"
WEIGHT: 2.49 LBS.

4 ERICSSON 6630

SCALE: NOT TO SCALE

5 ERICSSON 6651

6 RECTIFIER DETAIL

SCALE: NOT TO SCALE



Jacobs



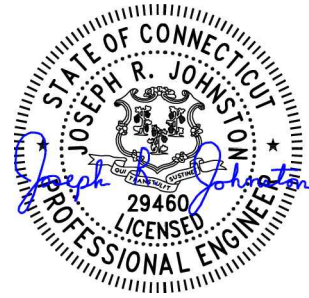
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AIROSMITH ENGINEERING

318 WEST AVE.
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1	11/12/24	JRF	PER COMMENTS FOR PERMIT	JRF



PROJECT INFORMATION:

SITE:
10546792
CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

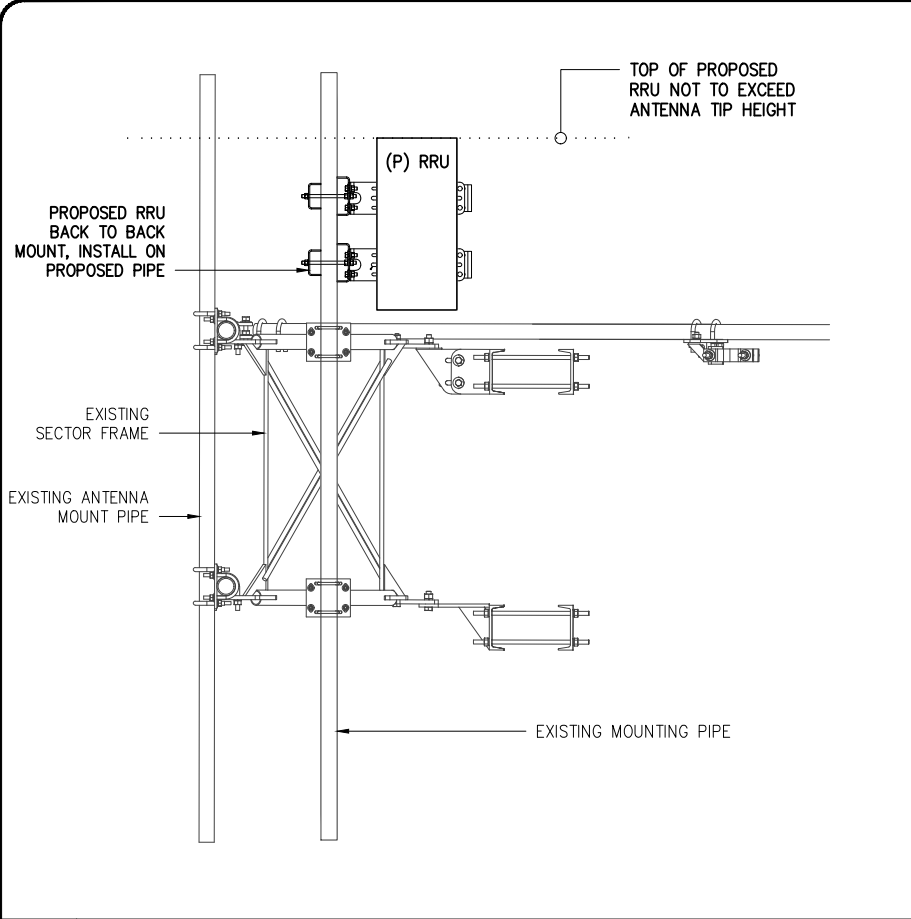
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SHEET NUMBER:

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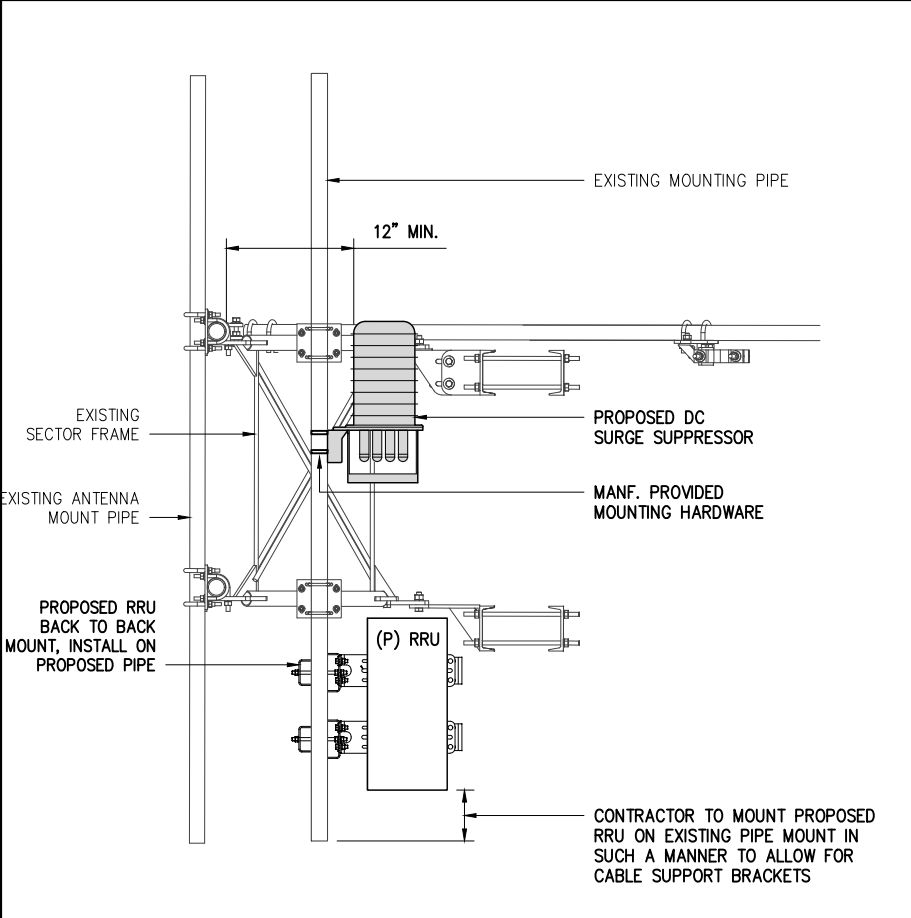
REVISION:

1



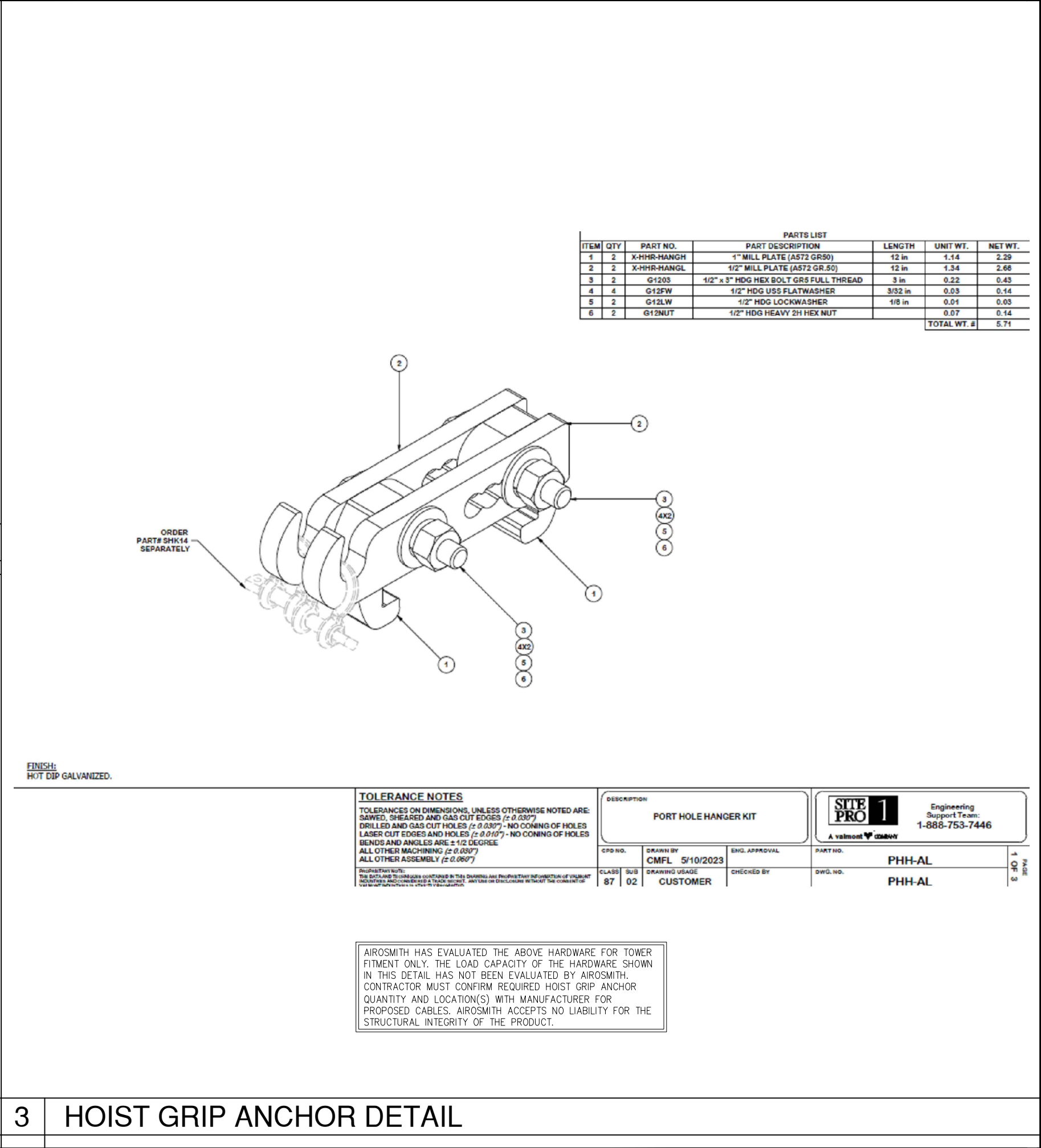
1 RRU MOUNT PIPE DETAIL

SCALE: NOT TO SCALE



2 DC SURGE MOUNTING DETAIL

SCALE: NOT TO SCALE



3 HOIST GRIP ANCHOR DETAIL

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ORIGINAL SIZE IN INCHES

PROJECT INFORMATION:

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10546792
CT2814

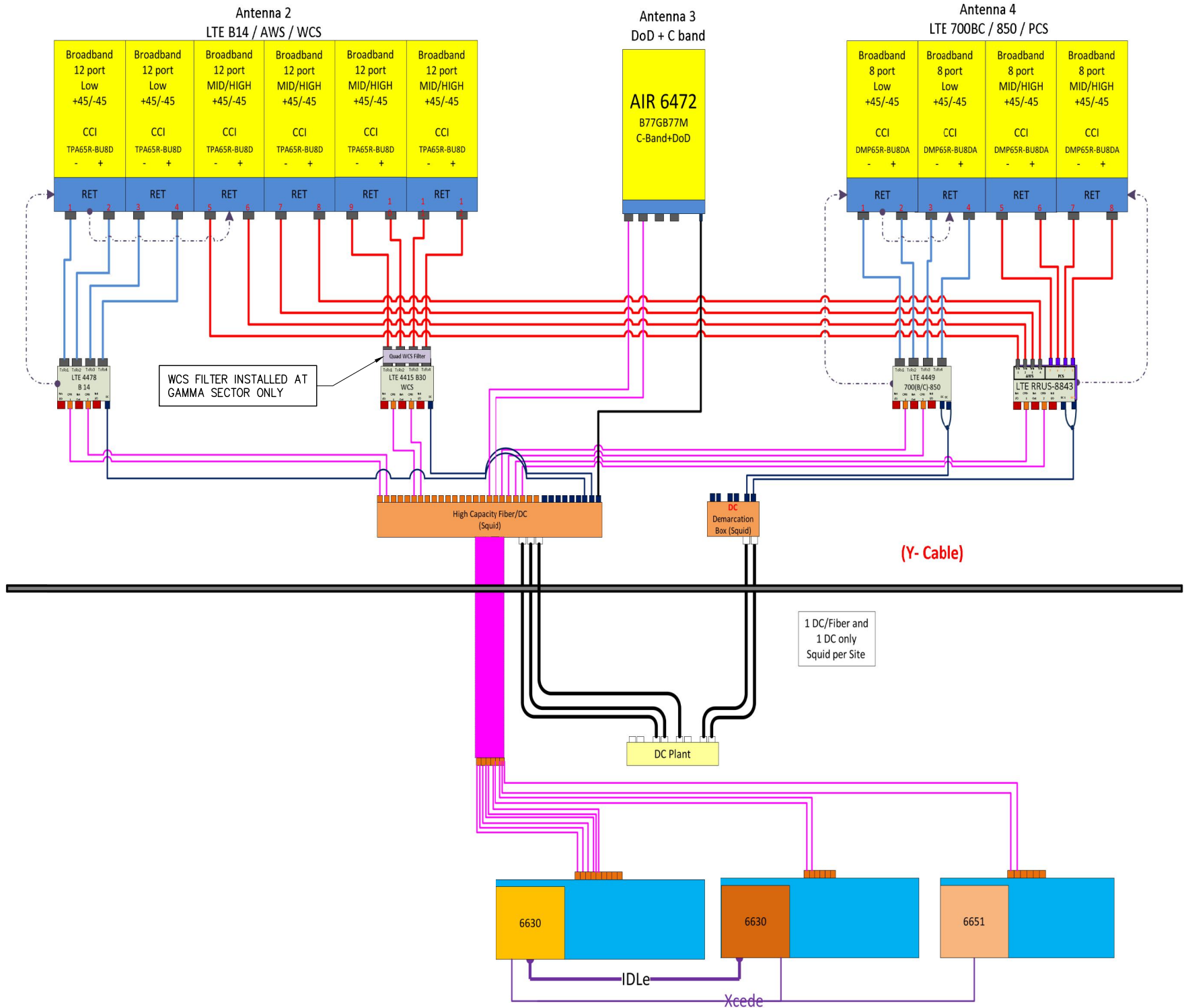
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NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

EQUIPMENT DETAILS

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1	11/12/24	JRF	PER COMMENTS FOR PERMIT	JRF

ORIGINAL SIZE IN INCHES

PROJECT INFORMATION:

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10546792
CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

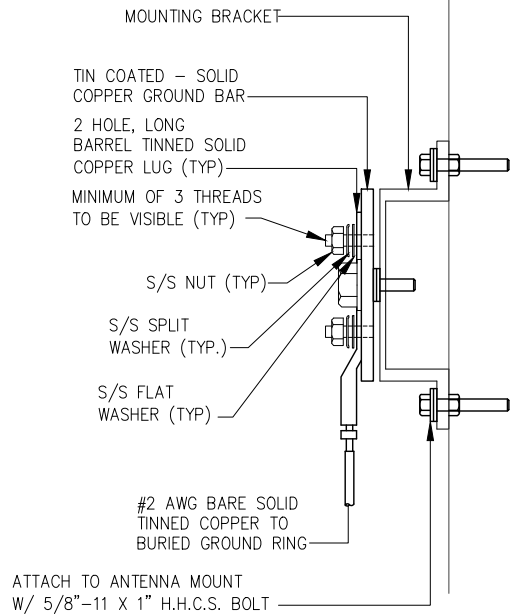
PLUMBING DIAGRAM

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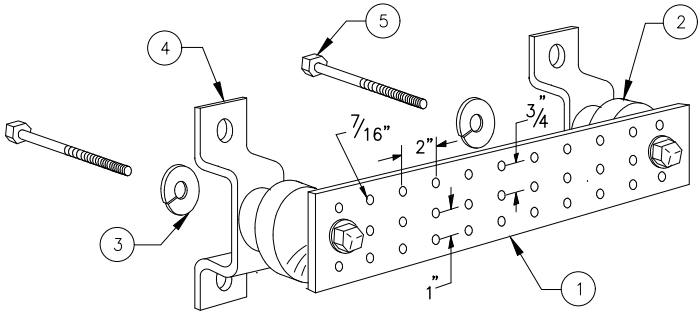
REVISION:

1



NOTE:

1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
2. COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.
3. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING. DO NOT COAT ENTIRE BAR



- LEGEND
- 1 - SOLID TINNED COPPER GROUND BAR, 1/4"x 4"x 20" MIN., NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
 - 2 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
 - 3 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
 - 4 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056
 - 5 - 5/8-11 X 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
 - 6 - GROUND BAR SHALL BE SIZED TO ACCOMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY
 - 7 - GROUND BARS SHALL NEITHER BE FIELD FABRICATED NOR NEW HOLES DRILLED
 - 8 - GROUND LUGS SHALL MATCH THE HOLE SPACING ON THE BAR
 - 9 - HARDWARE DIAMETER SHALL BE MINIMUM 3/8"

1	GROUND BAR MOUNTING DETAIL	2	GROUND BAR	3	NOT USED
	SCALE: NOT TO SCALE		SCALE: NOT TO SCALE		SCALE: NOT TO SCALE
4	NOT USED	5	NOT USED	6	NOT USED
	SCALE: NOT TO SCALE		SCALE: NOT TO SCALE		SCALE: NOT TO SCALE

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CT2814

311 OLD GATE LANE
MILFORD, CT 06460
NEW HAVEN COUNTY
MONOPOLE

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

G01

REVISION:

1

Date: **December 31, 2024**



Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Site Number: S2814
Site Name: S2814
FA Number: 10546792

Crown Castle Designation: **BU Number:** 876309
Site Name: Milford Jai-Alai
JDE Job Number: 2135634
Work Order Number: 2350782
Order Number: 689410 Rev. 0

Engineering Firm Designation: **Morrison Hershfield Project Number:** CN14-468 / 2400001

Site Data: **311 Old Gate Lane, Milford, New Haven County, CT 06460**
Latitude 41° 14' 2.59", Longitude -73° 1' 22.4"
120 Foot – Rohn Monopole Tower

Morrison Hershfield 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:

LC5: Proposed Equipment Configuration

Sufficient Capacity – 98.4%

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2022 Connecticut State Building Code. Applicable standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer

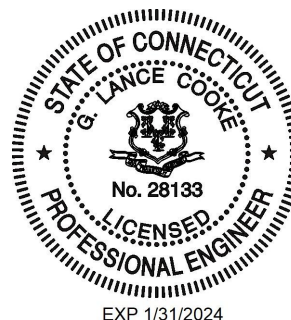


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Additional Calculations

1) INTRODUCTION

This tower is a 120 ft monopole tower designed by Rohn. The tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1 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)
81.0	85.0	3	ericsson	RRUS 4415 B30	1 4 3	15/16 7/8 3/8
		3	ericsson	RRUS 4449 B5/B12		
		2	ericsson	RRUS 4478 B14_CCIV2		
		2	ericsson	RRUS 8843 B2/B66A		
	84.0	1	ericsson	RRUS 4478 B14_CCIV2		
		1	ericsson	RRUS 8843 B2/B66A		
	82.0	3	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		3	cci antennas	TPA65R-BU8D w/ Mount Pipe		
		3	ericsson	AIR 6472 B77G B77M_20240625		
		1	commscope	SIMFQ-WCS-AMT-R40_CCIV2		
		1	raycap	DC6-48-60-0-8C		
		1	raycap	DC9-48-60-24-8C-EV		
	81.0	3	-	P3.5STD, 10' long Pipe mount [CommScope #MT-547-126]		
		1	-	Sector Mount [SM 505-3]		

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)
116.0	118.0	3	ericsson	RADIO 2212 B2	3 1	1-5/8 1/2
		3	ericsson	RADIO 4415 B66A		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		1	lucent	KS24019-L112A		
	117.0	3	ericsson	AIR6449 B41_T-MOBILE		
		3	rfs/celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
	116.0	3	rfs/celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		1	-	Platform Mount [LP 502-1]		
103.0	103.0	1	raycap	RHSDC-3315-PF-48	1	1-1/4
101.0	103.0	3	samsung telecommunications	MT6407-77A	12 1	1-5/8 1-1/4
	102.0	3	commscope	NNH4-45B-R6		
	101.0	1	raycap	RVZDC-6627-PF-48		
		3	samsung telecommunications	CBRS RT4401-48A		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4440D-13A		
		1	-	Platform Mount [LP 301-1_KCKR		
	100.0	3	antel	BXA-70063-6BF-EDIN-0		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	2221322	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	2068407	CCISITES
4-TOWER MANUFACTURER DRAWINGS	2068406	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	9875902	CCISITES
4-POST-MODIFICATION INSPECTION	10186425	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5461972	CCISITES
4-POST-MODIFICATION INSPECTION	6078054	CCISITES
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4-POST-MODIFICATION INSPECTION	3158394	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2638364	CCISITES
4-POST-MODIFICATION INSPECTION	2638363	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2217524	CCISITES

3.1) Analysis Method

tnxTower (version 8.2.4.3), 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.

TnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculation are presented in Appendix C.

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. Morrison Hershfield 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	% Capacity	Pass / Fail
L1	120 - 115	Pole	TP24x24x0.25	Pole	2.3	Pass
L2	115 - 110	Pole	TP24x24x0.25	Pole	7.8	Pass
L3	110 - 105	Pole	TP24x24x0.25	Pole	13.7	Pass
L4	105 - 100	Pole	TP24x24x0.25	Pole	22.0	Pass
L5	100 - 98.5	Pole	TP24x24x0.25	Pole	25.5	Pass
L6	98.5 - 98.25	Pole + Reinf.	TP24x24x0.3875	Reinf. 12 Tension Rupture	18.4	Pass
L7	98.25 - 93.25	Pole + Reinf.	TP24x24x0.3875	Reinf. 12 Tension Rupture	27.1	Pass
L8	93.25 - 90	Pole + Reinf.	TP24x24x0.3875	Reinf. 12 Tension Rupture	33.0	Pass
L9	90 - 89.75	Pole	TP24x24x0.375	Pole	30.1	Pass
L10	89.75 - 84.75	Pole	TP24x24x0.375	Pole	38.7	Pass
L11	84.75 - 79.75	Pole	TP24x24x0.375	Pole	50.4	Pass
L12	79.75 - 79	Pole	TP24x24x0.375	Pole	52.5	Pass
L13	79 - 78.75	Pole + Reinf.	TP24x24x0.5188	Reinf. 11 Tension Rupture	44.9	Pass
L14	78.75 - 74.04	Pole + Reinf.	TP24x24x0.5188	Reinf. 11 Tension Rupture	56.3	Pass
L15	74.04 - 73.79	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	45.0	Pass
L16	73.79 - 68.79	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	54.8	Pass
L17	68.79 - 63.79	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	64.9	Pass
L18	63.79 - 60	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	72.8	Pass
L19	60 - 59.75	Pole + Reinf.	TP30x30x0.5313	Pole	51.8	Pass
L20	59.75 - 54.75	Pole + Reinf.	TP30x30x0.5313	Pole	59.8	Pass
L21	54.75 - 49.75	Pole + Reinf.	TP30x30x0.5313	Pole	68.1	Pass
L22	49.75 - 47.83	Pole + Reinf.	TP30x30x0.5313	Pole	71.3	Pass
L23	47.83 - 47.58	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	66.1	Pass
L24	47.58 - 43	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	73.3	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L25	43 - 42.75	Pole + Reinf.	TP30x30x0.8	Reinf. 2 Tension Rupture	67.7	Pass
L26	42.75 - 37.75	Pole + Reinf.	TP30x30x0.8	Reinf. 2 Tension Rupture	75.2	Pass
L27	37.75 - 34.5	Pole + Reinf.	TP30x30x0.8	Reinf. 2 Tension Rupture	80.1	Pass
L28	34.5 - 34.25	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	87.6	Pass
L29	34.25 - 30	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	94.7	Pass
L30	30 - 29.75	Pole + Reinf.	TP36x36x0.55	Pole	70.7	Pass
L31	29.75 - 25.58	Pole + Reinf.	TP36x36x0.55	Pole	76.4	Pass
L32	25.58 - 25.33	Pole + Reinf.	TP36x36x0.65	Reinf. 9 Tension Rupture	71.2	Pass
L33	25.33 - 20.75	Pole + Reinf.	TP36x36x0.65	Reinf. 9 Tension Rupture	77.1	Pass
L34	20.75 - 20.5	Pole + Reinf.	TP36x36x0.7875	Reinf. 1 Tension Rupture	69.6	Pass
L35	20.5 - 17.58	Pole + Reinf.	TP36x36x0.7875	Reinf. 1 Tension Rupture	73.0	Pass
L36	17.58 - 17.33	Pole + Reinf.	TP36x36x0.775	Reinf. 1 Tension Rupture	75.8	Pass
L37	17.33 - 17.08	Pole + Reinf.	TP36x36x0.775	Reinf. 1 Tension Rupture	76.1	Pass
L38	17.08 - 13.67	Pole + Reinf.	TP36x36x0.775	Reinf. 1 Tension Rupture	80.3	Pass
L39	13.67 - 13.42	Pole + Reinf.	TP36x36x0.6625	Reinf. 1 Tension Rupture	88.3	Pass
L40	13.42 - 8.42	Pole + Reinf.	TP36x36x0.6625	Reinf. 1 Tension Rupture	95.2	Pass
L41	8.42 - 6.08	Pole + Reinf.	TP36x36x0.6625	Reinf. 1 Tension Rupture	98.4	Pass
L42	6.08 - 5.83	Pole + Reinf.	TP36x36x0.9625	Reinf. 1 Tension Rupture	73.7	Pass
L43	5.83 - 5.5	Pole + Reinf.	TP36x36x0.9625	Reinf. 1 Tension Rupture	74.0	Pass
L44	5.5 - 5.25	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Tension Rupture	79.8	Pass
L45	5.25 - 0.25	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Tension Rupture	85.5	Pass
L46	0.25 - 0	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Tension Rupture	85.8	Pass
					Summary	
				Pole	91.6	Pass
				Reinforcement	98.4	Pass
				Overall	98.4	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	90	40.8	Pass
1	Flange Connection	60	31.8	Pass
1	Flange Connection	30	53.6	Pass
1	Anchor Rods	0	67.4	Pass
1	Base Plate	0	28.6	Pass
1	Base Foundation (Structure)	0	30.1	Pass
1	Base Foundation (Soil Interaction)	0	92.4	Pass

Structure Rating (max from all components) =	98.4%*
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) *Rating per TIA-222-H Section 15.5.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT

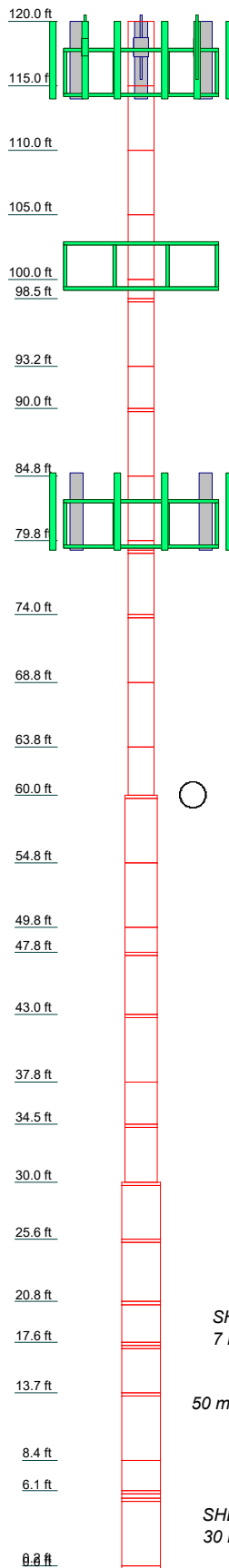
[illegible]

MATERIAL STRENGTH					
GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-42	42 ksi	63 ksi			

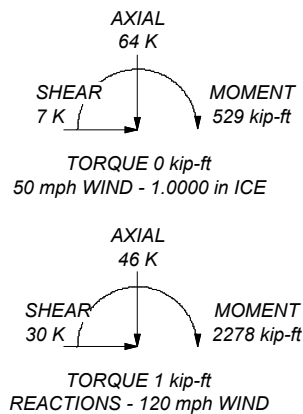
MATERIAL STRENGTH

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 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 0.00 ft
8. CCI POLE RATING: 98.4%



ALL REACTIONS
ARE FACTORED



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 New Haven County, Connecticut.
Tower base elevation above sea level: 54.00 ft.
Basic wind speed of 120 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
CCI POLE RATING: 98.4%.
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	Assume Legs Pinned	Calculate Redundant Bracing Forces
Consider Moments - Horizontals	✓ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Consider Moments - Diagonals	✓ Use Clear Spans For Wind Area	SR Leg Bolts Resist Compression
Use Moment Magnification	Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
✓ Use Code Stress Ratios	Retention Guys To Initial Tension	Offset Girt At Foundation
✓ Use Code Safety Factors - Guys	✓ Bypass Mast Stability Checks	✓ Consider Feed Line Torque
Escalate Ice	✓ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Always Use Max Kz	✓ Project Wind Area of Appurtenances	Use TIA-222-H Bracing Resist. Exemption
Use Special Wind Profile	✓ Alternative Appurt. EPA Calculation	Use TIA-222-H Tension Splice Exemption
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Poles
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	✓ Include Shear-Torsion Interaction
Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	Always Use Sub-Critical Flow
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Use Top Mounted Sockets
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Pole Without Linear Attachments
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole With Shroud Or No Appurtenances
Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules	Outside and Inside Corner Radii Are Known

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	120.00-115.00	5.00	P24x0.25	A53-B-42 (42 ksi)	
L2	115.00-110.00	5.00	P24x0.25	A53-B-42 (42 ksi)	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L3	110.00-105.00	5.00	P24x0.25	A53-B-42 (42 ksi)	
L4	105.00-100.00	5.00	P24x0.25	A53-B-42 (42 ksi)	
L5	100.00-98.50	1.50	P24x0.25	A53-B-42 (42 ksi)	
L6	98.50-98.25	0.25	P24x0.3875	A53-B-42 (42 ksi)	
L7	98.25-93.25	5.00	P24x0.3875	A53-B-42 (42 ksi)	
L8	93.25-90.00	3.25	P24x0.3875	A53-B-42 (42 ksi)	
L9	90.00-89.75	0.25	P24x0.375	A53-B-42 (42 ksi)	
L10	89.75-84.75	5.00	P24x0.375	A53-B-42 (42 ksi)	
L11	84.75-79.75	5.00	P24x0.375	A53-B-42 (42 ksi)	
L12	79.75-79.00	0.75	P24x0.375	A53-B-42 (42 ksi)	
L13	79.00-78.75	0.25	P24x0.51875	A53-B-42 (42 ksi)	
L14	78.75-74.04	4.71	P24x0.51875	A53-B-42 (42 ksi)	
L15	74.04-73.79	0.25	P24x0.675	A53-B-42 (42 ksi)	
L16	73.79-68.79	5.00	P24x0.675	A53-B-42 (42 ksi)	
L17	68.79-63.79	5.00	P24x0.675	A53-B-42 (42 ksi)	
L18	63.79-60.00	3.79	P24x0.675	A53-B-42 (42 ksi)	
L19	60.00-59.75	0.25	P30x0.53125	A53-B-42 (42 ksi)	
L20	59.75-54.75	5.00	P30x0.53125	A53-B-42 (42 ksi)	
L21	54.75-49.75	5.00	P30x0.53125	A53-B-42 (42 ksi)	
L22	49.75-47.83	1.92	P30x0.53125	A53-B-42 (42 ksi)	
L23	47.83-47.58	0.25	P30x0.65	A53-B-42 (42 ksi)	
L24	47.58-43.00	4.58	P30x0.65	A53-B-42 (42 ksi)	
L25	43.00-42.75	0.25	P30x0.8	A53-B-42 (42 ksi)	
L26	42.75-37.75	5.00	P30x0.8	A53-B-42 (42 ksi)	
L27	37.75-34.50	3.25	P30x0.8	A53-B-42 (42 ksi)	
L28	34.50-34.25	0.25	P30x0.65	A53-B-42 (42 ksi)	
L29	34.25-30.00	4.25	P30x0.65	A53-B-42 (42 ksi)	
L30	30.00-29.75	0.25	P36x0.55	A53-B-42 (42 ksi)	
L31	29.75-25.58	4.17	P36x0.55	A53-B-42 (42 ksi)	
L32	25.58-25.33	0.25	P36x0.65	A53-B-42 (42 ksi)	
L33	25.33-20.75	4.58	P36x0.65	A53-B-42 (42 ksi)	
L34	20.75-20.50	0.25	P36x0.7875	A53-B-42 (42 ksi)	
L35	20.50-17.58	2.92	P36x0.7875	A53-B-42 (42 ksi)	
L36	17.58-17.33	0.25	P36x0.775	A53-B-42 (42 ksi)	
L37	17.33-17.08	0.25	P36x0.775	A53-B-42	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L38	17.08-13.67	3.42	P36x0.775	(42 ksi) A53-B-42	
L39	13.67-13.42	0.25	P36x0.6625	(42 ksi) A53-B-42	
L40	13.42-8.42	5.00	P36x0.6625	(42 ksi) A53-B-42	
L41	8.42-6.08	2.33	P36x0.6625	(42 ksi) A53-B-42	
L42	6.08-5.83	0.25	P36x0.9625	(42 ksi) A53-B-42	
L43	5.83-5.50	0.33	P36x0.9625	(42 ksi) A53-B-42	
L44	5.50-5.25	0.25	P36x0.8875	(42 ksi) A53-B-42	
L45	5.25-0.25	5.00	P36x0.8875	(42 ksi) A53-B-42	
L46	0.25-0.00	0.25	P36x0.8875	(42 ksi) A53-B-42	

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 120.00- 115.00				1	1	1			
L2 115.00- 110.00				1	1	1			
L3 110.00- 105.00				1	1	1			
L4 105.00- 100.00				1	1	1			
L5 100.00- 98.50				1	1	1			
L6 98.50- 98.25				1	1	0.962015			
L7 98.25- 93.25				1	1	0.962015			
L8 93.25- 90.00				1	1	0.962015			
L9 90.00- 89.75				1	1	1			
L10 89.75- 84.75				1	1	1			
L11 84.75- 79.75				1	1	1			
L12 79.75- 79.00				1	1	1			
L13 79.00- 78.75				1	1	0.962504			
L14 78.75- 74.04				1	1	0.962504			
L15 74.04- 73.79				1	1	0.921761			
L16 73.79- 68.79				1	1	0.921761			
L17 68.79- 63.79				1	1	0.921761			
L18 63.79- 60.00				1	1	0.921761			
L19 60.00- 59.75				1	1	0.961544			
L20 59.75- 54.75				1	1	0.961544			
L21 54.75- 49.75				1	1	0.961544			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_r	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L22 49.75-47.83				1	1	0.961544			
L23 47.83-47.58				1	1	0.939223			
L24 47.58-43.00				1	1	0.939223			
L25 43.00-42.75				1	1	0.933109			
L26 42.75-37.75				1	1	0.933109			
L27 37.75-34.50				1	1	0.933109			
L28 34.50-34.25				1	1	0.939223			
L29 34.25-30.00				1	1	0.939223			
L30 30.00-29.75				1	1	0.961904			
L31 29.75-25.58				1	1	0.961904			
L32 25.58-25.33				1	1	0.940899			
L33 25.33-20.75				1	1	0.940899			
L34 20.75-20.50				1	1	0.930309			
L35 20.50-17.58				1	1	0.930309			
L36 17.58-17.33				1	1	1.01494			
L37 17.33-17.08				1	1	1.01494			
L38 17.08-13.67				1	1	1.01494			
L39 13.67-13.42				1	1	1.10669			
L40 13.42-8.42				1	1	1.10669			
L41 8.42-6.08				1	1	1.10669			
L42 6.08-5.83				1	1	0.924833			
L43 5.83-5.50				1	1	0.924833			
L44 5.50-5.25				1	1	0.8987			
L45 5.25-0.25				1	1	0.8987			
L46 0.25-0.00				1	1	0.8987			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf

Safety Line 3/8	C	No	Surface Ar (CaAa)	120.00 - 3.00	1	1	0.000 0.000	0.3750		0.22
Climbing Pegs	C	No	Surface Ar (CaAa)	120.00 - 3.00	1	1	0.000 0.000	0.0000		1.80

WR-VG66ST-BRD(7/8)	B	No	Surface Ar (CaAa)	81.00 - 3.00	4	4	-0.250 -0.190	0.9570		0.91
DPJ10-210-35F(3/8)	B	No	Surface Ar (CaAa)	81.00 - 3.00	1	1	-0.180 -0.180	0.4880		0.22
FB-L98B-034-XXX(3/8)	B	No	Surface Ar (CaAa)	81.00 - 3.00	1	1	-0.160 -0.160	0.3937		0.06

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
DC-D06C06-XXXFT(15/16)	B	No	Surface Ar (CaAa)	81.00 - 3.00	1	1	-0.200 -0.200	0.9380		0.58
FB-L98B-034-XXX(3/8)	B	No	Surface Ar (CaAa)	81.00 - 3.00	1	1	-0.170 -0.170	0.3937		0.06

FP 3.50 x 1.25 Reinforcement	B	No	Surface Af (CaAa)	22.00 - 0.00	1	1	0.058 0.058	3.5000	9.5000	0.00
FP 3.50 x 1.25 Reinforcement	A	No	Surface Af (CaAa)	22.00 - 0.00	1	1	0.067 0.067	3.5000	9.5000	0.00
FP 3.50 x 1.25 Reinforcement	C	No	Surface Af (CaAa)	22.00 - 0.00	1	1	0.058 0.058	3.5000	9.5000	0.00
FP 3.25 x 1.25 Reinforcement	B	No	Surface Af (CaAa)	44.00 - 30.00	1	1	0.058 0.058	3.2500	9.0000	0.00
FP 3.25 x 1.25 Reinforcement	A	No	Surface Af (CaAa)	44.00 - 30.00	1	1	0.067 0.067	3.2500	9.0000	0.00
FP 3.25 x 1.25 Reinforcement	C	No	Surface Af (CaAa)	44.00 - 30.00	1	1	0.058 0.058	3.2500	9.0000	0.00

MP3-05 Reinforcement	B	No	Surface Af (CaAa)	8.50 - 0.00	1	1	-0.500 -0.500	5.3300	14.8400	0.00
MP3-04 Reinforcement	A	No	Surface Af (CaAa)	14.88 - 4.88	1	1	0.250 0.250	4.7800	12.7800	0.00
MP3-05 Reinforcement	B	No	Surface Af (CaAa)	30.00 - 11.25	1	1	-0.500 -0.500	5.3300	14.8400	0.00
MP3-05 Reinforcement	C	No	Surface Af (CaAa)	30.00 - 0.00	1	1	-0.500 -0.500	5.3300	14.8400	0.00
MP3-05 Reinforcement	A	No	Surface Af (CaAa)	30.00 - 0.00	1	1	-0.500 -0.500	5.3300	14.8400	0.00
MP3-04 Reinforcement	C	No	Surface Af (CaAa)	60.00 - 30.00	1	1	-0.500 -0.500	4.7800	12.7800	0.00
MP3-04 Reinforcement	B	No	Surface Af (CaAa)	60.00 - 30.00	1	1	-0.500 -0.500	4.7800	12.7800	0.00
MP3-04 Reinforcement	A	No	Surface Af (CaAa)	60.00 - 30.00	1	1	-0.500 -0.500	4.7800	12.7800	0.00
MP3-03 Reinforcement	C	No	Surface Af (CaAa)	75.21 - 60.00	1	1	-0.500 -0.500	4.0600	11.2600	0.00
MP3-03 Reinforcement	B	No	Surface Af (CaAa)	76.21 - 60.00	1	1	-0.500 -0.500	4.0600	11.2600	0.00
MP3-03 Reinforcement	A	No	Surface Af (CaAa)	76.21 - 60.00	1	1	-0.500 -0.500	4.0600	11.2600	0.00

CCI-040075 Reinforcement	C	No	Surface Af (CaAa)	27.00 - 17.00	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	B	No	Surface Af (CaAa)	27.00 - 17.00	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	A	No	Surface Af (CaAa)	27.00 - 17.00	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	C	No	Surface Af (CaAa)	50.25 - 30.25	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	B	No	Surface Af (CaAa)	50.25 - 30.25	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	A	No	Surface Af (CaAa)	50.25 - 30.25	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	C	No	Surface Af (CaAa)	80.25 - 60.25	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	B	No	Surface Af (CaAa)	80.25 - 60.25	1	1	-0.125 -0.125	4.0000	9.5000	0.00
CCI-040075 Reinforcement	A	No	Surface Af (CaAa)	80.25 - 60.25	1	1	-0.125 -0.125	4.0000	9.5000	0.00
FP 5.00 X 4.75 Reinforcement	C	No	Surface Af (CaAa)	92.67 - 87.33	1	1	-0.500 -0.500	5.0000	19.5000	0.00
FP 5.00 X 4.75 Reinforcement	B	No	Surface Af (CaAa)	92.67 - 87.33	1	1	-0.500 -0.500	5.0000	19.5000	0.00
FP 5.00 X 4.75 Reinforcement	A	No	Surface Af (CaAa)	92.67 - 87.33	1	1	-0.500 -0.500	5.0000	19.5000	0.00
CCI-040075 Reinforcement	C	No	Surface Af (CaAa)	100.42 - 92.67	1	1	-0.500 -0.500	4.0000	9.5000	0.00
CCI-040075	B	No	Surface Af	100.42 -	1	1	-0.500	4.0000	9.5000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
Reinforcement CCI-040075	A	No	(CaAa) Surface Af (CaAa)	92.67 100.42 - 92.67	1	1	-0.500 -0.500 -0.500	4.0000	9.5000	0.00

CCI-040125	C	No	Surface Af (CaAa)	19.00 - 4.00	1	1	-0.292 -0.292	4.0000	10.5000	0.00
CCI-040125	B	No	Surface Af (CaAa)	19.00 - 4.00	1	1	-0.275 -0.275	4.0000	10.5000	0.00
CCI-040125	C	No	Surface Af (CaAa)	19.00 - 4.00	1	1	0.333 0.333	4.0000	10.5000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf

HB158-21U6S24-xxM_TMO(1-5/8)	A	No	No	Inside Pole	116.00 - 3.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	2.50 2.50 2.50
LDF4-50A(1/2)	A	No	No	Inside Pole	116.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.15 0.15 0.15

HFT1208-24S26(1-1/4)	B	No	No	Inside Pole	103.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.17 1.17 1.17

561(1-5/8)	B	No	No	Inside Pole	101.00 - 3.00	11	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.35 1.35 1.35
HB158-21U6S12-XXXM-01(1-5/8)	B	No	No	Inside Pole	101.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.90 1.90 1.90
HFT1208-24S26(1-1/4)	B	No	No	Inside Pole	101.00 - 3.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.17 1.17 1.17

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	120.00-115.00	A	0.000	0.000	0.000	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.188	0.000	0.01
L2	115.00-110.00	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.188	0.000	0.01
L3	110.00-105.00	A	0.000	0.000	0.000	0.000	0.04
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.188	0.000	0.01
L4	105.00-100.00	A	0.000	0.000	0.270	0.000	0.04
		B	0.000	0.000	0.270	0.000	0.02
		C	0.000	0.000	0.457	0.000	0.01
L5	100.00-98.50	A	0.000	0.000	0.964	0.000	0.01
		B	0.000	0.000	0.964	0.000	0.03
		C	0.000	0.000	1.020	0.000	0.00
L6	98.50-98.25	A	0.000	0.000	0.161	0.000	0.00

Tower Sectio n	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
		B	0.000	0.000	0.161	0.000	0.00
		C	0.000	0.000	0.170	0.000	0.00
L7	98.25-93.25	A	0.000	0.000	3.214	0.000	0.04
		B	0.000	0.000	3.214	0.000	0.10
		C	0.000	0.000	3.401	0.000	0.01
L8	93.25-90.00	A	0.000	0.000	2.015	0.000	0.02
		B	0.000	0.000	2.015	0.000	0.06
		C	0.000	0.000	2.137	0.000	0.01
L9	90.00-89.75	A	0.000	0.000	0.154	0.000	0.00
		B	0.000	0.000	0.154	0.000	0.00
		C	0.000	0.000	0.163	0.000	0.00
L10	89.75-84.75	A	0.000	0.000	1.489	0.000	0.04
		B	0.000	0.000	1.489	0.000	0.10
		C	0.000	0.000	1.676	0.000	0.01
L11	84.75-79.75	A	0.000	0.000	0.333	0.000	0.04
		B	0.000	0.000	1.089	0.000	0.10
		C	0.000	0.000	0.521	0.000	0.01
L12	79.75-79.00	A	0.000	0.000	0.500	0.000	0.01
		B	0.000	0.000	0.953	0.000	0.02
		C	0.000	0.000	0.528	0.000	0.00
L13	79.00-78.75	A	0.000	0.000	0.167	0.000	0.00
		B	0.000	0.000	0.318	0.000	0.01
		C	0.000	0.000	0.176	0.000	0.00
L14	78.75-74.04	A	0.000	0.000	4.605	0.000	0.04
		B	0.000	0.000	7.450	0.000	0.11
		C	0.000	0.000	4.105	0.000	0.01
L15	74.04-73.79	A	0.000	0.000	0.336	0.000	0.00
		B	0.000	0.000	0.487	0.000	0.01
		C	0.000	0.000	0.345	0.000	0.00
L16	73.79-68.79	A	0.000	0.000	6.717	0.000	0.04
		B	0.000	0.000	9.737	0.000	0.12
		C	0.000	0.000	6.904	0.000	0.01
L17	68.79-63.79	A	0.000	0.000	6.717	0.000	0.04
		B	0.000	0.000	9.737	0.000	0.12
		C	0.000	0.000	6.904	0.000	0.01
L18	63.79-60.00	A	0.000	0.000	4.926	0.000	0.03
		B	0.000	0.000	7.217	0.000	0.09
		C	0.000	0.000	5.068	0.000	0.01
L19	60.00-59.75	A	0.000	0.000	0.199	0.000	0.00
		B	0.000	0.000	0.350	0.000	0.01
		C	0.000	0.000	0.209	0.000	0.00
L20	59.75-54.75	A	0.000	0.000	3.983	0.000	0.04
		B	0.000	0.000	7.004	0.000	0.12
		C	0.000	0.000	4.171	0.000	0.01
L21	54.75-49.75	A	0.000	0.000	4.317	0.000	0.04
		B	0.000	0.000	7.337	0.000	0.12
		C	0.000	0.000	4.504	0.000	0.01
L22	49.75-47.83	A	0.000	0.000	2.810	0.000	0.01
		B	0.000	0.000	3.970	0.000	0.05
		C	0.000	0.000	2.882	0.000	0.00
L23	47.83-47.58	A	0.000	0.000	0.366	0.000	0.00
		B	0.000	0.000	0.517	0.000	0.01
		C	0.000	0.000	0.375	0.000	0.00
L24	47.58-43.00	A	0.000	0.000	7.244	0.000	0.04
		B	0.000	0.000	10.011	0.000	0.11
		C	0.000	0.000	7.415	0.000	0.01
L25	43.00-42.75	A	0.000	0.000	0.501	0.000	0.00
		B	0.000	0.000	0.652	0.000	0.01
		C	0.000	0.000	0.511	0.000	0.00
L26	42.75-37.75	A	0.000	0.000	10.025	0.000	0.04
		B	0.000	0.000	13.046	0.000	0.12
		C	0.000	0.000	10.213	0.000	0.01
L27	37.75-34.50	A	0.000	0.000	6.516	0.000	0.02
		B	0.000	0.000	8.480	0.000	0.08
		C	0.000	0.000	6.638	0.000	0.01
L28	34.50-34.25	A	0.000	0.000	0.501	0.000	0.00
		B	0.000	0.000	0.652	0.000	0.01
		C	0.000	0.000	0.511	0.000	0.00
L29	34.25-30.00	A	0.000	0.000	8.355	0.000	0.03

Tower Sectio n	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L30	30.00-29.75	B	0.000	0.000	10.922	0.000	0.10
		C	0.000	0.000	8.514	0.000	0.01
		A	0.000	0.000	0.222	0.000	0.00
L31	29.75-25.58	B	0.000	0.000	0.373	0.000	0.01
		C	0.000	0.000	0.231	0.000	0.00
		A	0.000	0.000	4.646	0.000	0.03
L32	25.58-25.33	B	0.000	0.000	7.164	0.000	0.10
		C	0.000	0.000	4.803	0.000	0.01
		A	0.000	0.000	0.389	0.000	0.00
L33	25.33-20.75	B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	0.398	0.000	0.00
		A	0.000	0.000	7.856	0.000	0.04
L34	20.75-20.50	B	0.000	0.000	10.625	0.000	0.11
		C	0.000	0.000	8.028	0.000	0.01
		A	0.000	0.000	0.535	0.000	0.00
L35	20.50-17.58	B	0.000	0.000	0.686	0.000	0.01
		C	0.000	0.000	0.544	0.000	0.00
		A	0.000	0.000	6.238	0.000	0.02
L36	17.58-17.33	B	0.000	0.000	8.944	0.000	0.07
		C	0.000	0.000	8.236	0.000	0.01
		A	0.000	0.000	0.535	0.000	0.00
L37	17.33-17.08	B	0.000	0.000	0.852	0.000	0.01
		C	0.000	0.000	0.877	0.000	0.00
		A	0.000	0.000	0.535	0.000	0.00
L38	17.08-13.67	B	0.000	0.000	0.852	0.000	0.01
		C	0.000	0.000	0.877	0.000	0.00
		A	0.000	0.000	6.026	0.000	0.03
L39	13.67-13.42	B	0.000	0.000	9.424	0.000	0.08
		C	0.000	0.000	9.765	0.000	0.01
		A	0.000	0.000	0.563	0.000	0.00
L40	13.42-8.42	B	0.000	0.000	0.686	0.000	0.01
		C	0.000	0.000	0.711	0.000	0.00
		A	0.000	0.000	11.261	0.000	0.04
L41	8.42-6.08	B	0.000	0.000	11.261	0.000	0.12
		C	0.000	0.000	14.212	0.000	0.01
		A	0.000	0.000	5.257	0.000	0.02
L42	6.08-5.83	B	0.000	0.000	6.153	0.000	0.06
		C	0.000	0.000	6.634	0.000	0.00
		A	0.000	0.000	0.563	0.000	0.00
L43	5.83-5.50	B	0.000	0.000	0.659	0.000	0.01
		C	0.000	0.000	0.711	0.000	0.00
		A	0.000	0.000	0.750	0.000	0.00
L44	5.50-5.25	B	0.000	0.000	0.878	0.000	0.01
		C	0.000	0.000	0.947	0.000	0.00
		A	0.000	0.000	0.563	0.000	0.00
L45	5.25-0.25	B	0.000	0.000	0.659	0.000	0.01
		C	0.000	0.000	0.711	0.000	0.00
		A	0.000	0.000	7.651	0.000	0.02
L46	0.25-0.00	B	0.000	0.000	9.019	0.000	0.05
		C	0.000	0.000	9.109	0.000	0.00
		A	0.000	0.000	0.368	0.000	0.00
		B	0.000	0.000	0.341	0.000	0.00
		C	0.000	0.000	0.368	0.000	0.00

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	120.00-115.00	A	0.965	0.000	0.000	0.000	0.000	0.01
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.118	0.000	0.02
L2	115.00-110.00	A	0.961	0.000	0.000	0.000	0.000	0.04
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.109	0.000	0.02
L3	110.00-105.00	A	0.957	0.000	0.000	0.000	0.000	0.04

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.101	0.000	0.02
L4	105.00-100.00	A	0.952	0.000	0.000	0.312	0.000	0.04
		B		0.000	0.000	0.312	0.000	0.02
		C		0.000	0.000	2.404	0.000	0.03
L5	100.00-98.50	A	0.949	0.000	0.000	1.115	0.000	0.02
		B		0.000	0.000	1.115	0.000	0.04
		C		0.000	0.000	1.740	0.000	0.01
L6	98.50-98.25	A	0.948	0.000	0.000	0.186	0.000	0.00
		B		0.000	0.000	0.186	0.000	0.01
		C		0.000	0.000	0.290	0.000	0.00
L7	98.25-93.25	A	0.946	0.000	0.000	3.713	0.000	0.06
		B		0.000	0.000	3.713	0.000	0.12
		C		0.000	0.000	5.792	0.000	0.05
L8	93.25-90.00	A	0.941	0.000	0.000	2.366	0.000	0.05
		B		0.000	0.000	2.366	0.000	0.09
		C		0.000	0.000	3.711	0.000	0.04
L9	90.00-89.75	A	0.940	0.000	0.000	0.181	0.000	0.00
		B		0.000	0.000	0.181	0.000	0.01
		C		0.000	0.000	0.284	0.000	0.00
L10	89.75-84.75	A	0.937	0.000	0.000	1.753	0.000	0.06
		B		0.000	0.000	1.753	0.000	0.12
		C		0.000	0.000	3.814	0.000	0.04
L11	84.75-79.75	A	0.931	0.000	0.000	0.426	0.000	0.04
		B		0.000	0.000	2.524	0.000	0.12
		C		0.000	0.000	2.477	0.000	0.03
L12	79.75-79.00	A	0.928	0.000	0.000	0.639	0.000	0.01
		B		0.000	0.000	1.895	0.000	0.03
		C		0.000	0.000	0.946	0.000	0.01
L13	79.00-78.75	A	0.927	0.000	0.000	0.213	0.000	0.00
		B		0.000	0.000	0.631	0.000	0.01
		C		0.000	0.000	0.315	0.000	0.00
L14	78.75-74.04	A	0.924	0.000	0.000	5.876	0.000	0.07
		B		0.000	0.000	13.742	0.000	0.20
		C		0.000	0.000	6.933	0.000	0.05
L15	74.04-73.79	A	0.921	0.000	0.000	0.428	0.000	0.00
		B		0.000	0.000	0.845	0.000	0.01
		C		0.000	0.000	0.529	0.000	0.00
L16	73.79-68.79	A	0.918	0.000	0.000	8.553	0.000	0.09
		B		0.000	0.000	16.872	0.000	0.22
		C		0.000	0.000	10.576	0.000	0.07
L17	68.79-63.79	A	0.911	0.000	0.000	8.539	0.000	0.09
		B		0.000	0.000	16.824	0.000	0.22
		C		0.000	0.000	10.550	0.000	0.07
L18	63.79-60.00	A	0.905	0.000	0.000	6.254	0.000	0.06
		B		0.000	0.000	12.510	0.000	0.17
		C		0.000	0.000	7.769	0.000	0.05
L19	60.00-59.75	A	0.902	0.000	0.000	0.244	0.000	0.00
		B		0.000	0.000	0.656	0.000	0.01
		C		0.000	0.000	0.344	0.000	0.00
L20	59.75-54.75	A	0.898	0.000	0.000	4.881	0.000	0.07
		B		0.000	0.000	13.096	0.000	0.20
		C		0.000	0.000	6.865	0.000	0.05
L21	54.75-49.75	A	0.890	0.000	0.000	5.296	0.000	0.07
		B		0.000	0.000	13.467	0.000	0.20
		C		0.000	0.000	7.263	0.000	0.05
L22	49.75-47.83	A	0.884	0.000	0.000	3.488	0.000	0.03
		B		0.000	0.000	6.614	0.000	0.08
		C		0.000	0.000	4.239	0.000	0.03
L23	47.83-47.58	A	0.882	0.000	0.000	0.454	0.000	0.00
		B		0.000	0.000	0.860	0.000	0.01
		C		0.000	0.000	0.552	0.000	0.00
L24	47.58-43.00	A	0.877	0.000	0.000	9.026	0.000	0.08
		B		0.000	0.000	16.451	0.000	0.20
		C		0.000	0.000	10.806	0.000	0.07
L25	43.00-42.75	A	0.873	0.000	0.000	0.632	0.000	0.01
		B		0.000	0.000	1.036	0.000	0.01
		C		0.000	0.000	0.729	0.000	0.00
L26	42.75-37.75	A	0.867	0.000	0.000	12.626	0.000	0.11

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
		B		0.000	0.000	20.677	0.000	0.24
		C		0.000	0.000	14.548	0.000	0.09
L27	37.75-34.50	A	0.858	0.000	0.000	8.189	0.000	0.07
		B		0.000	0.000	13.390	0.000	0.15
		C		0.000	0.000	9.426	0.000	0.06
L28	34.50-34.25	A	0.853	0.000	0.000	0.629	0.000	0.01
		B		0.000	0.000	1.028	0.000	0.01
		C		0.000	0.000	0.724	0.000	0.00
L29	34.25-30.00	A	0.848	0.000	0.000	10.474	0.000	0.09
		B		0.000	0.000	17.231	0.000	0.20
		C		0.000	0.000	12.074	0.000	0.07
L30	30.00-29.75	A	0.842	0.000	0.000	0.264	0.000	0.00
		B		0.000	0.000	0.660	0.000	0.01
		C		0.000	0.000	0.358	0.000	0.00
L31	29.75-25.58	A	0.835	0.000	0.000	5.537	0.000	0.06
		B		0.000	0.000	12.107	0.000	0.17
		C		0.000	0.000	7.085	0.000	0.05
L32	25.58-25.33	A	0.828	0.000	0.000	0.464	0.000	0.00
		B		0.000	0.000	0.857	0.000	0.01
		C		0.000	0.000	0.556	0.000	0.00
L33	25.33-20.75	A	0.820	0.000	0.000	9.434	0.000	0.08
		B		0.000	0.000	16.587	0.000	0.20
		C		0.000	0.000	11.109	0.000	0.07
L34	20.75-20.50	A	0.811	0.000	0.000	0.649	0.000	0.01
		B		0.000	0.000	1.037	0.000	0.01
		C		0.000	0.000	0.740	0.000	0.00
L35	20.50-17.58	A	0.805	0.000	0.000	7.567	0.000	0.06
		B		0.000	0.000	13.245	0.000	0.14
		C		0.000	0.000	10.961	0.000	0.06
L36	17.58-17.33	A	0.798	0.000	0.000	0.648	0.000	0.01
		B		0.000	0.000	1.239	0.000	0.01
		C		0.000	0.000	1.150	0.000	0.01
L37	17.33-17.08	A	0.796	0.000	0.000	0.648	0.000	0.01
		B		0.000	0.000	1.238	0.000	0.01
		C		0.000	0.000	1.150	0.000	0.01
L38	17.08-13.67	A	0.787	0.000	0.000	7.216	0.000	0.06
		B		0.000	0.000	14.200	0.000	0.16
		C		0.000	0.000	13.004	0.000	0.07
L39	13.67-13.42	A	0.778	0.000	0.000	0.662	0.000	0.01
		B		0.000	0.000	1.030	0.000	0.01
		C		0.000	0.000	0.944	0.000	0.01
L40	13.42-8.42	A	0.761	0.000	0.000	13.199	0.000	0.11
		B		0.000	0.000	17.593	0.000	0.21
		C		0.000	0.000	18.778	0.000	0.10
L41	8.42-6.08	A	0.730	0.000	0.000	6.126	0.000	0.05
		B		0.000	0.000	9.038	0.000	0.10
		C		0.000	0.000	8.680	0.000	0.05
L42	6.08-5.83	A	0.716	0.000	0.000	0.654	0.000	0.01
		B		0.000	0.000	0.963	0.000	0.01
		C		0.000	0.000	0.926	0.000	0.00
L43	5.83-5.50	A	0.713	0.000	0.000	0.871	0.000	0.01
		B		0.000	0.000	1.280	0.000	0.01
		C		0.000	0.000	1.231	0.000	0.01
L44	5.50-5.25	A	0.709	0.000	0.000	0.653	0.000	0.01
		B		0.000	0.000	0.960	0.000	0.01
		C		0.000	0.000	0.923	0.000	0.00
L45	5.25-0.25	A	0.663	0.000	0.000	9.004	0.000	0.06
		B		0.000	0.000	11.999	0.000	0.11
		C		0.000	0.000	11.364	0.000	0.05
L46	0.25-0.00	A	0.487	0.000	0.000	0.417	0.000	0.00
		B		0.000	0.000	0.379	0.000	0.00
		C		0.000	0.000	0.417	0.000	0.00

Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
L1	120.00-115.00	0.0000	0.3693	0.0000	1.6992
L2	115.00-110.00	0.0000	0.3693	0.0000	1.6939
L3	110.00-105.00	0.0000	0.3693	0.0000	1.6883
L4	105.00-100.00	0.0000	0.3266	0.0000	1.5840
L5	100.00-98.50	0.0000	0.1043	0.0000	0.9609
L6	98.50-98.25	0.0000	0.1043	0.0000	0.9603
L7	98.25-93.25	0.0000	0.1043	0.0000	0.9584
L8	93.25-90.00	0.0000	0.1012	0.0000	0.9242
L9	90.00-89.75	0.0000	0.1005	0.0000	0.9164
L10	89.75-84.75	0.0000	0.1352	0.0000	1.2153
L11	84.75-79.75	0.6802	-0.6765	0.8182	0.2109
L12	79.75-79.00	1.1250	-1.4758	1.6205	-1.5438
L13	79.00-78.75	1.1250	-1.4758	1.6202	-1.5437
L14	78.75-74.04	0.3176	-0.8659	1.0576	-1.2684
L15	74.04-73.79	0.5953	-0.7809	1.1817	-1.1271
L16	73.79-68.79	0.5953	-0.7809	1.1804	-1.1265
L17	68.79-63.79	0.5953	-0.7809	1.1777	-1.1253
L18	63.79-60.00	0.6070	-0.7963	1.1957	-1.1437
L19	60.00-59.75	0.8825	-1.1572	1.7543	-1.6756
L20	59.75-54.75	0.8825	-1.1572	1.7517	-1.6744
L21	54.75-49.75	0.8527	-1.1181	1.6935	-1.6212
L22	49.75-47.83	0.6538	-0.8573	1.3271	-1.2718
L23	47.83-47.58	0.6538	-0.8573	1.3261	-1.2713
L24	47.58-43.00	0.6298	-0.8250	1.2722	-1.2216
L25	43.00-42.75	0.5587	-0.7296	1.1168	-1.0760
L26	42.75-37.75	0.5587	-0.7296	1.1145	-1.0749
L27	37.75-34.50	0.5587	-0.7296	1.1105	-1.0729
L28	34.50-34.25	0.5587	-0.7296	1.1087	-1.0720
L29	34.25-30.00	0.5658	-0.7389	1.1193	-1.0835
L30	30.00-29.75	0.9209	-1.2071	1.8559	-1.7907
L31	29.75-25.58	0.8342	-1.0935	1.6930	-1.6356
L32	25.58-25.33	0.7054	-0.9246	1.4479	-1.4007
L33	25.33-20.75	0.6748	-0.8835	1.3745	-1.3331
L34	20.75-20.50	0.6073	-0.7925	1.2185	-1.1867
L35	20.50-17.58	0.4923	-0.8627	1.0518	-1.2203
L36	17.58-17.33	0.3913	-0.9244	0.9041	-1.2500
L37	17.33-17.08	0.3913	-0.9244	0.9036	-1.2497
L38	17.08-13.67	0.4141	-1.5737	0.9990	-1.8691
L39	13.67-13.42	0.3298	-2.3985	0.9011	-2.5782
L40	13.42-8.42	1.1209	-1.6800	1.6468	-1.9191
L41	8.42-6.08	0.4958	-2.2478	1.0967	-2.3816
L42	6.08-5.83	0.4958	-2.2478	1.0882	-2.3809
L43	5.83-5.50	0.4958	-2.2478	1.0861	-2.3807
L44	5.50-5.25	0.4958	-2.2478	1.0839	-2.3805
L45	5.25-0.25	0.5090	-0.4594	0.9015	-0.6069
L46	0.25-0.00	0.2668	0.2167	0.3398	0.2887

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	2	Safety Line 3/8	115.00 - 120.00	1.0000	1.0000
L1	3	Climbing Pegs	115.00 - 120.00	1.0000	1.0000
L2	2	Safety Line 3/8	110.00 - 115.00	1.0000	1.0000
L2	3	Climbing Pegs	110.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			115.00		
L3	2	Safety Line 3/8	105.00 - 110.00	1.0000	1.0000
L3	3	Climbing Pegs	105.00 - 110.00	1.0000	1.0000
L4	2	Safety Line 3/8	100.00 - 105.00	1.0000	1.0000
L4	3	Climbing Pegs	100.00 - 105.00	1.0000	1.0000
L4	52	CCI-040075 Reinforcement	100.00 - 100.42	1.0000	1.0000
L4	53	CCI-040075 Reinforcement	100.00 - 100.42	1.0000	1.0000
L4	54	CCI-040075 Reinforcement	100.00 - 100.42	1.0000	1.0000
L5	2	Safety Line 3/8	98.50 - 100.00	1.0000	1.0000
L5	3	Climbing Pegs	98.50 - 100.00	1.0000	1.0000
L5	52	CCI-040075 Reinforcement	98.50 - 100.00	1.0000	1.0000
L5	53	CCI-040075 Reinforcement	98.50 - 100.00	1.0000	1.0000
L5	54	CCI-040075 Reinforcement	98.50 - 100.00	1.0000	1.0000
L6	2	Safety Line 3/8	98.25 - 98.50	1.0000	1.0000
L6	3	Climbing Pegs	98.25 - 98.50	1.0000	1.0000
L6	52	CCI-040075 Reinforcement	98.25 - 98.50	1.0000	1.0000
L6	53	CCI-040075 Reinforcement	98.25 - 98.50	1.0000	1.0000
L6	54	CCI-040075 Reinforcement	98.25 - 98.50	1.0000	1.0000
L7	2	Safety Line 3/8	93.25 - 98.25	1.0000	1.0000
L7	3	Climbing Pegs	93.25 - 98.25	1.0000	1.0000
L7	52	CCI-040075 Reinforcement	93.25 - 98.25	1.0000	1.0000
L7	53	CCI-040075 Reinforcement	93.25 - 98.25	1.0000	1.0000
L7	54	CCI-040075 Reinforcement	93.25 - 98.25	1.0000	1.0000
L8	2	Safety Line 3/8	90.00 - 93.25	1.0000	1.0000
L8	3	Climbing Pegs	90.00 - 93.25	1.0000	1.0000
L8	49	FP 5.00 X 4.75 Reinforcement	90.00 - 92.67	1.0000	1.0000
L8	50	FP 5.00 X 4.75 Reinforcement	90.00 - 92.67	1.0000	1.0000
L8	51	FP 5.00 X 4.75 Reinforcement	90.00 - 92.67	1.0000	1.0000
L8	52	CCI-040075 Reinforcement	92.67 - 93.25	1.0000	1.0000
L8	53	CCI-040075 Reinforcement	92.67 - 93.25	1.0000	1.0000
L8	54	CCI-040075 Reinforcement	92.67 - 93.25	1.0000	1.0000
L9	2	Safety Line 3/8	89.75 - 90.00	1.0000	1.0000
L9	3	Climbing Pegs	89.75 - 90.00	1.0000	1.0000
L9	49	FP 5.00 X 4.75 Reinforcement	89.75 - 90.00	1.0000	1.0000
L9	50	FP 5.00 X 4.75 Reinforcement	89.75 - 90.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L9	51	FP 5.00 X 4.75 Reinforcement	89.75 - 90.00	1.0000	1.0000
L10	2	Safety Line 3/8	84.75 - 89.75	1.0000	1.0000
L10	3	Climbing Pegs	84.75 - 89.75	1.0000	1.0000
L10	49	FP 5.00 X 4.75 Reinforcement	87.33 - 89.75	1.0000	1.0000
L10	50	FP 5.00 X 4.75 Reinforcement	87.33 - 89.75	1.0000	1.0000
L10	51	FP 5.00 X 4.75 Reinforcement	87.33 - 89.75	1.0000	1.0000
L11	2	Safety Line 3/8	79.75 - 84.75	1.0000	1.0000
L11	3	Climbing Pegs	79.75 - 84.75	1.0000	1.0000
L11	14	WR-VG66ST-BRD(7/8)	79.75 - 81.00	1.0000	1.0000
L11	15	DPJ10-210-35F(3/8)	79.75 - 81.00	1.0000	1.0000
L11	16	FB-L98B-034-XXX(3/8)	79.75 - 81.00	1.0000	1.0000
L11	18	DC-D06C06-XXXFT(15/16)	79.75 - 81.00	1.0000	1.0000
L11	19	FB-L98B-034-XXX(3/8)	79.75 - 81.00	1.0000	1.0000
L11	46	CCI-040075 Reinforcement	79.75 - 80.25	1.0000	1.0000
L11	47	CCI-040075 Reinforcement	79.75 - 80.25	1.0000	1.0000
L11	48	CCI-040075 Reinforcement	79.75 - 80.25	1.0000	1.0000
L12	2	Safety Line 3/8	79.00 - 79.75	1.0000	1.0000
L12	3	Climbing Pegs	79.00 - 79.75	1.0000	1.0000
L12	14	WR-VG66ST-BRD(7/8)	79.00 - 79.75	1.0000	1.0000
L12	15	DPJ10-210-35F(3/8)	79.00 - 79.75	1.0000	1.0000
L12	16	FB-L98B-034-XXX(3/8)	79.00 - 79.75	1.0000	1.0000
L12	18	DC-D06C06-XXXFT(15/16)	79.00 - 79.75	1.0000	1.0000
L12	19	FB-L98B-034-XXX(3/8)	79.00 - 79.75	1.0000	1.0000
L12	46	CCI-040075 Reinforcement	79.00 - 79.75	1.0000	1.0000
L12	47	CCI-040075 Reinforcement	79.00 - 79.75	1.0000	1.0000
L12	48	CCI-040075 Reinforcement	79.00 - 79.75	1.0000	1.0000
L13	2	Safety Line 3/8	78.75 - 79.00	1.0000	1.0000
L13	3	Climbing Pegs	78.75 - 79.00	1.0000	1.0000
L13	14	WR-VG66ST-BRD(7/8)	78.75 - 79.00	1.0000	1.0000
L13	15	DPJ10-210-35F(3/8)	78.75 - 79.00	1.0000	1.0000
L13	16	FB-L98B-034-XXX(3/8)	78.75 - 79.00	1.0000	1.0000
L13	18	DC-D06C06-XXXFT(15/16)	78.75 - 79.00	1.0000	1.0000
L13	19	FB-L98B-034-XXX(3/8)	78.75 - 79.00	1.0000	1.0000
L13	46	CCI-040075 Reinforcement	78.75 - 79.00	1.0000	1.0000
L13	47	CCI-040075	78.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L13	48	Reinforcement CCI-040075	79.00 78.75 -	1.0000	1.0000
L14	2	Reinforcement Safety Line 3/8	79.00 74.04 -	1.0000	1.0000
L14	3	Climbing Pegs	78.75 74.04 -	1.0000	1.0000
L14	14	WR-VG66ST-BRD(7/8)	78.75 74.04 -	1.0000	1.0000
L14	15	DPJ10-210-35F(3/8)	78.75 74.04 -	1.0000	1.0000
L14	16	FB-L98B-034-XXX(3/8)	78.75 74.04 -	1.0000	1.0000
L14	18	DC-D06C06-XXXFT(15/16)	78.75 74.04 -	1.0000	1.0000
L14	19	FB-L98B-034-XXX(3/8)	78.75 74.04 -	1.0000	1.0000
L14	36	MP3-03 Reinforcement	78.75 74.04 -	1.0000	1.0000
L14	37	MP3-03 Reinforcement	75.21 74.04 -	1.0000	1.0000
L14	38	MP3-03 Reinforcement	76.21 74.04 -	1.0000	1.0000
L14	46	CCI-040075 Reinforcement	76.21 74.04 -	1.0000	1.0000
L14	47	CCI-040075 Reinforcement	78.75 74.04 -	1.0000	1.0000
L14	48	CCI-040075 Reinforcement	78.75 74.04 -	1.0000	1.0000
L15	2	Safety Line 3/8	78.75 73.79 -	1.0000	1.0000
L15	3	Climbing Pegs	74.04 73.79 -	1.0000	1.0000
L15	14	WR-VG66ST-BRD(7/8)	74.04 73.79 -	1.0000	1.0000
L15	15	DPJ10-210-35F(3/8)	74.04 73.79 -	1.0000	1.0000
L15	16	FB-L98B-034-XXX(3/8)	74.04 73.79 -	1.0000	1.0000
L15	18	DC-D06C06-XXXFT(15/16)	74.04 73.79 -	1.0000	1.0000
L15	19	FB-L98B-034-XXX(3/8)	74.04 73.79 -	1.0000	1.0000
L15	36	MP3-03 Reinforcement	74.04 73.79 -	1.0000	1.0000
L15	37	MP3-03 Reinforcement	74.04 73.79 -	1.0000	1.0000
L15	38	MP3-03 Reinforcement	74.04 73.79 -	1.0000	1.0000
L15	46	CCI-040075 Reinforcement	74.04 73.79 -	1.0000	1.0000
L15	47	CCI-040075 Reinforcement	74.04 73.79 -	1.0000	1.0000
L15	48	CCI-040075 Reinforcement	74.04 73.79 -	1.0000	1.0000
L16	2	Safety Line 3/8	74.04 68.79 -	1.0000	1.0000
L16	3	Climbing Pegs	73.79 68.79 -	1.0000	1.0000
L16	14	WR-VG66ST-BRD(7/8)	73.79 68.79 -	1.0000	1.0000
L16	15	DPJ10-210-35F(3/8)	73.79 68.79 -	1.0000	1.0000
L16	16	FB-L98B-034-XXX(3/8)	73.79 68.79 -	1.0000	1.0000
L16	18	DC-D06C06-XXXFT(15/16)	73.79 68.79 -	1.0000	1.0000
L16	19	FB-L98B-034-XXX(3/8)	73.79 68.79 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L16	36	MP3-03 Reinforcement	68.79 - 73.79	1.0000	1.0000
L16	37	MP3-03 Reinforcement	68.79 - 73.79	1.0000	1.0000
L16	38	MP3-03 Reinforcement	68.79 - 73.79	1.0000	1.0000
L16	46	CCI-040075 Reinforcement	68.79 - 73.79	1.0000	1.0000
L16	47	CCI-040075 Reinforcement	68.79 - 73.79	1.0000	1.0000
L16	48	CCI-040075 Reinforcement	68.79 - 73.79	1.0000	1.0000
L17	2	Safety Line 3/8	63.79 - 68.79	1.0000	1.0000
L17	3	Climbing Pegs	63.79 - 68.79	1.0000	1.0000
L17	14	WR-VG66ST-BRD(7/8)	63.79 - 68.79	1.0000	1.0000
L17	15	DPJ10-210-35F(3/8)	63.79 - 68.79	1.0000	1.0000
L17	16	FB-L98B-034-XXX(3/8)	63.79 - 68.79	1.0000	1.0000
L17	18	DC-D06C06-XXXFT(15/16)	63.79 - 68.79	1.0000	1.0000
L17	19	FB-L98B-034-XXX(3/8)	63.79 - 68.79	1.0000	1.0000
L17	36	MP3-03 Reinforcement	63.79 - 68.79	1.0000	1.0000
L17	37	MP3-03 Reinforcement	63.79 - 68.79	1.0000	1.0000
L17	38	MP3-03 Reinforcement	63.79 - 68.79	1.0000	1.0000
L17	46	CCI-040075 Reinforcement	63.79 - 68.79	1.0000	1.0000
L17	47	CCI-040075 Reinforcement	63.79 - 68.79	1.0000	1.0000
L17	48	CCI-040075 Reinforcement	63.79 - 68.79	1.0000	1.0000
L18	2	Safety Line 3/8	60.00 - 63.79	1.0000	1.0000
L18	3	Climbing Pegs	60.00 - 63.79	1.0000	1.0000
L18	14	WR-VG66ST-BRD(7/8)	60.00 - 63.79	1.0000	1.0000
L18	15	DPJ10-210-35F(3/8)	60.00 - 63.79	1.0000	1.0000
L18	16	FB-L98B-034-XXX(3/8)	60.00 - 63.79	1.0000	1.0000
L18	18	DC-D06C06-XXXFT(15/16)	60.00 - 63.79	1.0000	1.0000
L18	19	FB-L98B-034-XXX(3/8)	60.00 - 63.79	1.0000	1.0000
L18	36	MP3-03 Reinforcement	60.00 - 63.79	1.0000	1.0000
L18	37	MP3-03 Reinforcement	60.00 - 63.79	1.0000	1.0000
L18	38	MP3-03 Reinforcement	60.00 - 63.79	1.0000	1.0000
L18	46	CCI-040075 Reinforcement	60.25 - 63.79	1.0000	1.0000
L18	47	CCI-040075 Reinforcement	60.25 - 63.79	1.0000	1.0000
L18	48	CCI-040075 Reinforcement	60.25 - 63.79	1.0000	1.0000
L19	2	Safety Line 3/8	59.75 - 60.00	1.0000	1.0000
L19	3	Climbing Pegs	59.75 - 60.00	1.0000	1.0000
L19	14	WR-VG66ST-BRD(7/8)	59.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L19	15	DPJ10-210-35F(3/8)	60.00 59.75 -	1.0000	1.0000
L19	16	FB-L98B-034-XXX(3/8)	60.00 59.75 -	1.0000	1.0000
L19	18	DC-D06C06-XXXFT(15/16)	60.00 59.75 -	1.0000	1.0000
L19	19	FB-L98B-034-XXX(3/8)	60.00 59.75 -	1.0000	1.0000
L19	33	MP3-04 Reinforcement	60.00 59.75 -	1.0000	1.0000
L19	34	MP3-04 Reinforcement	60.00 59.75 -	1.0000	1.0000
L19	35	MP3-04 Reinforcement	60.00 59.75 -	1.0000	1.0000
L20	2	Safety Line 3/8	59.75 54.75 -	1.0000	1.0000
L20	3	Climbing Pegs	59.75 54.75 -	1.0000	1.0000
L20	14	WR-VG66ST-BRD(7/8)	59.75 54.75 -	1.0000	1.0000
L20	15	DPJ10-210-35F(3/8)	59.75 54.75 -	1.0000	1.0000
L20	16	FB-L98B-034-XXX(3/8)	59.75 54.75 -	1.0000	1.0000
L20	18	DC-D06C06-XXXFT(15/16)	59.75 54.75 -	1.0000	1.0000
L20	19	FB-L98B-034-XXX(3/8)	59.75 54.75 -	1.0000	1.0000
L20	33	MP3-04 Reinforcement	59.75 54.75 -	1.0000	1.0000
L20	34	MP3-04 Reinforcement	59.75 54.75 -	1.0000	1.0000
L20	35	MP3-04 Reinforcement	59.75 54.75 -	1.0000	1.0000
L21	2	Safety Line 3/8	54.75 49.75 -	1.0000	1.0000
L21	3	Climbing Pegs	54.75 49.75 -	1.0000	1.0000
L21	14	WR-VG66ST-BRD(7/8)	54.75 49.75 -	1.0000	1.0000
L21	15	DPJ10-210-35F(3/8)	54.75 49.75 -	1.0000	1.0000
L21	16	FB-L98B-034-XXX(3/8)	54.75 49.75 -	1.0000	1.0000
L21	18	DC-D06C06-XXXFT(15/16)	54.75 49.75 -	1.0000	1.0000
L21	19	FB-L98B-034-XXX(3/8)	54.75 49.75 -	1.0000	1.0000
L21	33	MP3-04 Reinforcement	54.75 49.75 -	1.0000	1.0000
L21	34	MP3-04 Reinforcement	54.75 49.75 -	1.0000	1.0000
L21	35	MP3-04 Reinforcement	54.75 49.75 -	1.0000	1.0000
L21	43	CCI-040075 Reinforcement	54.75 50.25	1.0000	1.0000
L21	44	CCI-040075 Reinforcement	50.25 49.75 -	1.0000	1.0000
L21	45	CCI-040075 Reinforcement	50.25 49.75 -	1.0000	1.0000
L22	2	Safety Line 3/8	50.25 47.83 -	1.0000	1.0000
L22	3	Climbing Pegs	49.75 47.83 -	1.0000	1.0000
L22	14	WR-VG66ST-BRD(7/8)	49.75 47.83 -	1.0000	1.0000
L22	15	DPJ10-210-35F(3/8)	49.75 47.83 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L22	16	FB-L98B-034-XXX(3/8)	47.83 - 49.75	1.0000	1.0000
L22	18	DC-D06C06- XXXFT(15/16)	47.83 - 49.75	1.0000	1.0000
L22	19	FB-L98B-034-XXX(3/8)	47.83 - 49.75	1.0000	1.0000
L22	33	MP3-04 Reinforcement	47.83 - 49.75	1.0000	1.0000
L22	34	MP3-04 Reinforcement	47.83 - 49.75	1.0000	1.0000
L22	35	MP3-04 Reinforcement	47.83 - 49.75	1.0000	1.0000
L22	43	CCI-040075 Reinforcement	47.83 - 49.75	1.0000	1.0000
L22	44	CCI-040075 Reinforcement	47.83 - 49.75	1.0000	1.0000
L22	45	CCI-040075 Reinforcement	47.83 - 49.75	1.0000	1.0000
L23	2	Safety Line 3/8	47.58 - 47.83	1.0000	1.0000
L23	3	Climbing Pegs	47.58 - 47.83	1.0000	1.0000
L23	14	WR-VG66ST-BRD(7/8)	47.58 - 47.83	1.0000	1.0000
L23	15	DPJ10-210-35F(3/8)	47.58 - 47.83	1.0000	1.0000
L23	16	FB-L98B-034-XXX(3/8)	47.58 - 47.83	1.0000	1.0000
L23	18	DC-D06C06- XXXFT(15/16)	47.58 - 47.83	1.0000	1.0000
L23	19	FB-L98B-034-XXX(3/8)	47.58 - 47.83	1.0000	1.0000
L23	33	MP3-04 Reinforcement	47.58 - 47.83	1.0000	1.0000
L23	34	MP3-04 Reinforcement	47.58 - 47.83	1.0000	1.0000
L23	35	MP3-04 Reinforcement	47.58 - 47.83	1.0000	1.0000
L23	43	CCI-040075 Reinforcement	47.58 - 47.83	1.0000	1.0000
L23	44	CCI-040075 Reinforcement	47.58 - 47.83	1.0000	1.0000
L23	45	CCI-040075 Reinforcement	47.58 - 47.83	1.0000	1.0000
L24	2	Safety Line 3/8	43.00 - 47.58	1.0000	1.0000
L24	3	Climbing Pegs	43.00 - 47.58	1.0000	1.0000
L24	14	WR-VG66ST-BRD(7/8)	43.00 - 47.58	1.0000	1.0000
L24	15	DPJ10-210-35F(3/8)	43.00 - 47.58	1.0000	1.0000
L24	16	FB-L98B-034-XXX(3/8)	43.00 - 47.58	1.0000	1.0000
L24	18	DC-D06C06- XXXFT(15/16)	43.00 - 47.58	1.0000	1.0000
L24	19	FB-L98B-034-XXX(3/8)	43.00 - 47.58	1.0000	1.0000
L24	24	FP 3.25 x 1.25 Reinforcement	43.00 - 44.00	1.0000	1.0000
L24	25	FP 3.25 x 1.25 Reinforcement	43.00 - 44.00	1.0000	1.0000
L24	26	FP 3.25 x 1.25 Reinforcement	43.00 - 44.00	1.0000	1.0000
L24	33	MP3-04 Reinforcement	43.00 - 47.58	1.0000	1.0000
L24	34	MP3-04 Reinforcement	43.00 - 47.58	1.0000	1.0000
L24	35	MP3-04 Reinforcement	43.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			47.58		
L24	43	CCI-040075	43.00 -	1.0000	1.0000
		Reinforcement	47.58		
L24	44	CCI-040075	43.00 -	1.0000	1.0000
		Reinforcement	47.58		
L24	45	CCI-040075	43.00 -	1.0000	1.0000
		Reinforcement	47.58		
L25	2	Safety Line 3/8	42.75 -	1.0000	1.0000
			43.00		
L25	3	Climbing Pegs	42.75 -	1.0000	1.0000
			43.00		
L25	14	WR-VG66ST-BRD(7/8)	42.75 -	1.0000	1.0000
			43.00		
L25	15	DPJ10-210-35F(3/8)	42.75 -	1.0000	1.0000
			43.00		
L25	16	FB-L98B-034-XXX(3/8)	42.75 -	1.0000	1.0000
			43.00		
L25	18	DC-D06C06-XXXFT(15/16)	42.75 -	1.0000	1.0000
			43.00		
L25	19	FB-L98B-034-XXX(3/8)	42.75 -	1.0000	1.0000
			43.00		
L25	24	FP 3.25 x 1.25	42.75 -	1.0000	1.0000
		Reinforcement	43.00		
L25	25	FP 3.25 x 1.25	42.75 -	1.0000	1.0000
		Reinforcement	43.00		
L25	26	FP 3.25 x 1.25	42.75 -	1.0000	1.0000
		Reinforcement	43.00		
L25	33	MP3-04 Reinforcement	42.75 -	1.0000	1.0000
			43.00		
L25	34	MP3-04 Reinforcement	42.75 -	1.0000	1.0000
			43.00		
L25	35	MP3-04 Reinforcement	42.75 -	1.0000	1.0000
			43.00		
L25	43	CCI-040075	42.75 -	1.0000	1.0000
		Reinforcement	43.00		
L25	44	CCI-040075	42.75 -	1.0000	1.0000
		Reinforcement	43.00		
L25	45	CCI-040075	42.75 -	1.0000	1.0000
		Reinforcement	43.00		
L26	2	Safety Line 3/8	37.75 -	1.0000	1.0000
			42.75		
L26	3	Climbing Pegs	37.75 -	1.0000	1.0000
			42.75		
L26	14	WR-VG66ST-BRD(7/8)	37.75 -	1.0000	1.0000
			42.75		
L26	15	DPJ10-210-35F(3/8)	37.75 -	1.0000	1.0000
			42.75		
L26	16	FB-L98B-034-XXX(3/8)	37.75 -	1.0000	1.0000
			42.75		
L26	18	DC-D06C06-XXXFT(15/16)	37.75 -	1.0000	1.0000
			42.75		
L26	19	FB-L98B-034-XXX(3/8)	37.75 -	1.0000	1.0000
			42.75		
L26	24	FP 3.25 x 1.25	37.75 -	1.0000	1.0000
		Reinforcement	42.75		
L26	25	FP 3.25 x 1.25	37.75 -	1.0000	1.0000
		Reinforcement	42.75		
L26	26	FP 3.25 x 1.25	37.75 -	1.0000	1.0000
		Reinforcement	42.75		
L26	33	MP3-04 Reinforcement	37.75 -	1.0000	1.0000
			42.75		
L26	34	MP3-04 Reinforcement	37.75 -	1.0000	1.0000
			42.75		
L26	35	MP3-04 Reinforcement	37.75 -	1.0000	1.0000
			42.75		
L26	43	CCI-040075	37.75 -	1.0000	1.0000
		Reinforcement	42.75		
L26	44	CCI-040075	37.75 -	1.0000	1.0000
		Reinforcement	42.75		

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L26	45	CCI-040075 Reinforcement	37.75 - 42.75	1.0000	1.0000
L27	2	Safety Line 3/8	34.50 - 37.75	1.0000	1.0000
L27	3	Climbing Pegs	34.50 - 37.75	1.0000	1.0000
L27	14	WR-VG66ST-BRD(7/8)	34.50 - 37.75	1.0000	1.0000
L27	15	DPJ10-210-35F(3/8)	34.50 - 37.75	1.0000	1.0000
L27	16	FB-L98B-034-XXX(3/8)	34.50 - 37.75	1.0000	1.0000
L27	18	DC-D06C06-XXXFT(15/16)	34.50 - 37.75	1.0000	1.0000
L27	19	FB-L98B-034-XXX(3/8)	34.50 - 37.75	1.0000	1.0000
L27	24	FP 3.25 x 1.25 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	25	FP 3.25 x 1.25 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	26	FP 3.25 x 1.25 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	33	MP3-04 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	34	MP3-04 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	35	MP3-04 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	43	CCI-040075 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	44	CCI-040075 Reinforcement	34.50 - 37.75	1.0000	1.0000
L27	45	CCI-040075 Reinforcement	34.50 - 37.75	1.0000	1.0000
L28	2	Safety Line 3/8	34.25 - 34.50	1.0000	1.0000
L28	3	Climbing Pegs	34.25 - 34.50	1.0000	1.0000
L28	14	WR-VG66ST-BRD(7/8)	34.25 - 34.50	1.0000	1.0000
L28	15	DPJ10-210-35F(3/8)	34.25 - 34.50	1.0000	1.0000
L28	16	FB-L98B-034-XXX(3/8)	34.25 - 34.50	1.0000	1.0000
L28	18	DC-D06C06-XXXFT(15/16)	34.25 - 34.50	1.0000	1.0000
L28	19	FB-L98B-034-XXX(3/8)	34.25 - 34.50	1.0000	1.0000
L28	24	FP 3.25 x 1.25 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	25	FP 3.25 x 1.25 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	26	FP 3.25 x 1.25 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	33	MP3-04 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	34	MP3-04 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	35	MP3-04 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	43	CCI-040075 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	44	CCI-040075 Reinforcement	34.25 - 34.50	1.0000	1.0000
L28	45	CCI-040075 Reinforcement	34.25 - 34.50	1.0000	1.0000
L29	2	Safety Line 3/8	30.00 - 34.25	1.0000	1.0000
L29	3	Climbing Pegs	30.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L29	14	WR-VG66ST-BRD(7/8)	34.25 30.00 -	1.0000	1.0000
L29	15	DPJ10-210-35F(3/8)	34.25 30.00 -	1.0000	1.0000
L29	16	FB-L98B-034-XXX(3/8)	34.25 30.00 -	1.0000	1.0000
L29	18	DC-D06C06-XXXFT(15/16)	34.25 30.00 -	1.0000	1.0000
L29	19	FB-L98B-034-XXX(3/8)	34.25 30.00 -	1.0000	1.0000
L29	24	FP 3.25 x 1.25 Reinforcement	34.25 30.00 -	1.0000	1.0000
L29	25	FP 3.25 x 1.25 Reinforcement	34.25 30.00 -	1.0000	1.0000
L29	26	FP 3.25 x 1.25 Reinforcement	34.25 30.00 -	1.0000	1.0000
L29	33	MP3-04 Reinforcement	34.25 30.00 -	1.0000	1.0000
L29	34	MP3-04 Reinforcement	34.25 30.00 -	1.0000	1.0000
L29	35	MP3-04 Reinforcement	34.25 30.00 -	1.0000	1.0000
L29	43	CCI-040075 Reinforcement	34.25 30.25 -	1.0000	1.0000
L29	44	CCI-040075 Reinforcement	34.25 30.25 -	1.0000	1.0000
L29	45	CCI-040075 Reinforcement	34.25 30.25 -	1.0000	1.0000
L30	2	Safety Line 3/8	34.25 29.75 -	1.0000	1.0000
L30	3	Climbing Pegs	30.00 29.75 -	1.0000	1.0000
L30	14	WR-VG66ST-BRD(7/8)	30.00 29.75 -	1.0000	1.0000
L30	15	DPJ10-210-35F(3/8)	30.00 29.75 -	1.0000	1.0000
L30	16	FB-L98B-034-XXX(3/8)	30.00 29.75 -	1.0000	1.0000
L30	18	DC-D06C06-XXXFT(15/16)	30.00 29.75 -	1.0000	1.0000
L30	19	FB-L98B-034-XXX(3/8)	30.00 29.75 -	1.0000	1.0000
L30	30	MP3-05 Reinforcement	30.00 29.75 -	1.0000	1.0000
L30	31	MP3-05 Reinforcement	30.00 29.75 -	1.0000	1.0000
L30	32	MP3-05 Reinforcement	30.00 29.75 -	1.0000	1.0000
L31	2	Safety Line 3/8	25.58 - 29.75	1.0000	1.0000
L31	3	Climbing Pegs	25.58 - 29.75	1.0000	1.0000
L31	14	WR-VG66ST-BRD(7/8)	25.58 - 29.75	1.0000	1.0000
L31	15	DPJ10-210-35F(3/8)	25.58 - 29.75	1.0000	1.0000
L31	16	FB-L98B-034-XXX(3/8)	25.58 - 29.75	1.0000	1.0000
L31	18	DC-D06C06-XXXFT(15/16)	25.58 - 29.75	1.0000	1.0000
L31	19	FB-L98B-034-XXX(3/8)	25.58 - 29.75	1.0000	1.0000
L31	30	MP3-05 Reinforcement	25.58 - 29.75	1.0000	1.0000
L31	31	MP3-05 Reinforcement	25.58 - 29.75	1.0000	1.0000
L31	32	MP3-05 Reinforcement	25.58 - 29.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L31	40	CCI-040075 Reinforcement	25.58 - 27.00	1.0000	1.0000
L31	41	CCI-040075 Reinforcement	25.58 - 27.00	1.0000	1.0000
L31	42	CCI-040075 Reinforcement	25.58 - 27.00	1.0000	1.0000
L32	2	Safety Line 3/8	25.33 - 25.58	1.0000	1.0000
L32	3	Climbing Pegs	25.33 - 25.58	1.0000	1.0000
L32	14	WR-VG66ST-BRD(7/8)	25.33 - 25.58	1.0000	1.0000
L32	15	DPJ10-210-35F(3/8)	25.33 - 25.58	1.0000	1.0000
L32	16	FB-L98B-034-XXX(3/8)	25.33 - 25.58	1.0000	1.0000
L32	18	DC-D06C06-XXXFT(15/16)	25.33 - 25.58	1.0000	1.0000
L32	19	FB-L98B-034-XXX(3/8)	25.33 - 25.58	1.0000	1.0000
L32	30	MP3-05 Reinforcement	25.33 - 25.58	1.0000	1.0000
L32	31	MP3-05 Reinforcement	25.33 - 25.58	1.0000	1.0000
L32	32	MP3-05 Reinforcement	25.33 - 25.58	1.0000	1.0000
L32	40	CCI-040075 Reinforcement	25.33 - 25.58	1.0000	1.0000
L32	41	CCI-040075 Reinforcement	25.33 - 25.58	1.0000	1.0000
L32	42	CCI-040075 Reinforcement	25.33 - 25.58	1.0000	1.0000
L33	2	Safety Line 3/8	20.75 - 25.33	1.0000	1.0000
L33	3	Climbing Pegs	20.75 - 25.33	1.0000	1.0000
L33	14	WR-VG66ST-BRD(7/8)	20.75 - 25.33	1.0000	1.0000
L33	15	DPJ10-210-35F(3/8)	20.75 - 25.33	1.0000	1.0000
L33	16	FB-L98B-034-XXX(3/8)	20.75 - 25.33	1.0000	1.0000
L33	18	DC-D06C06-XXXFT(15/16)	20.75 - 25.33	1.0000	1.0000
L33	19	FB-L98B-034-XXX(3/8)	20.75 - 25.33	1.0000	1.0000
L33	21	FP 3.50 x 1.25 Reinforcement	20.75 - 22.00	1.0000	1.0000
L33	22	FP 3.50 x 1.25 Reinforcement	20.75 - 22.00	1.0000	1.0000
L33	23	FP 3.50 x 1.25 Reinforcement	20.75 - 22.00	1.0000	1.0000
L33	30	MP3-05 Reinforcement	20.75 - 25.33	1.0000	1.0000
L33	31	MP3-05 Reinforcement	20.75 - 25.33	1.0000	1.0000
L33	32	MP3-05 Reinforcement	20.75 - 25.33	1.0000	1.0000
L33	40	CCI-040075 Reinforcement	20.75 - 25.33	1.0000	1.0000
L33	41	CCI-040075 Reinforcement	20.75 - 25.33	1.0000	1.0000
L33	42	CCI-040075 Reinforcement	20.75 - 25.33	1.0000	1.0000
L34	2	Safety Line 3/8	20.50 - 20.75	1.0000	1.0000
L34	3	Climbing Pegs	20.50 - 20.75	1.0000	1.0000
L34	14	WR-VG66ST-BRD(7/8)	20.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L34	15	DPJ10-210-35F(3/8)	20.75 20.50 -	1.0000	1.0000
L34	16	FB-L98B-034-XXX(3/8)	20.75 20.50 -	1.0000	1.0000
L34	18	DC-D06C06-XXXFT(15/16)	20.75 20.50 -	1.0000	1.0000
L34	19	FB-L98B-034-XXX(3/8)	20.75 20.50 -	1.0000	1.0000
L34	21	FP 3.50 x 1.25 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	22	FP 3.50 x 1.25 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	23	FP 3.50 x 1.25 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	30	MP3-05 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	31	MP3-05 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	32	MP3-05 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	40	CCI-040075 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	41	CCI-040075 Reinforcement	20.75 20.50 -	1.0000	1.0000
L34	42	CCI-040075 Reinforcement	20.75 20.50 -	1.0000	1.0000
L35	2	Safety Line 3/8	20.50 17.58 -	1.0000	1.0000
L35	3	Climbing Pegs	20.50 17.58 -	1.0000	1.0000
L35	14	WR-VG66ST-BRD(7/8)	20.50 17.58 -	1.0000	1.0000
L35	15	DPJ10-210-35F(3/8)	20.50 17.58 -	1.0000	1.0000
L35	16	FB-L98B-034-XXX(3/8)	20.50 17.58 -	1.0000	1.0000
L35	18	DC-D06C06-XXXFT(15/16)	20.50 17.58 -	1.0000	1.0000
L35	19	FB-L98B-034-XXX(3/8)	20.50 17.58 -	1.0000	1.0000
L35	21	FP 3.50 x 1.25 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	22	FP 3.50 x 1.25 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	23	FP 3.50 x 1.25 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	30	MP3-05 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	31	MP3-05 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	32	MP3-05 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	40	CCI-040075 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	41	CCI-040075 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	42	CCI-040075 Reinforcement	20.50 17.58 -	1.0000	1.0000
L35	56	CCI-040125	19.00 17.58 -	1.0000	1.0000
L35	57	CCI-040125	19.00 17.58 -	1.0000	1.0000
L35	58	CCI-040125	19.00 17.58 -	1.0000	1.0000
L36	2	Safety Line 3/8	17.58 17.33 -	1.0000	1.0000
L36	3	Climbing Pegs	17.58 17.33 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L36	14	WR-VG66ST-BRD(7/8)	17.33 - 17.58	1.0000	1.0000
L36	15	DPJ10-210-35F(3/8)	17.33 - 17.58	1.0000	1.0000
L36	16	FB-L98B-034-XXX(3/8)	17.33 - 17.58	1.0000	1.0000
L36	18	DC-D06C06-XXXFT(15/16)	17.33 - 17.58	1.0000	1.0000
L36	19	FB-L98B-034-XXX(3/8)	17.33 - 17.58	1.0000	1.0000
L36	21	FP 3.50 x 1.25 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	22	FP 3.50 x 1.25 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	23	FP 3.50 x 1.25 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	30	MP3-05 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	31	MP3-05 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	32	MP3-05 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	40	CCI-040075 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	41	CCI-040075 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	42	CCI-040075 Reinforcement	17.33 - 17.58	1.0000	1.0000
L36	56	CCI-040125	17.33 - 17.58	1.0000	1.0000
L36	57	CCI-040125	17.33 - 17.58	1.0000	1.0000
L36	58	CCI-040125	17.33 - 17.58	1.0000	1.0000
L37	2	Safety Line 3/8	17.08 - 17.33	1.0000	1.0000
L37	3	Climbing Pegs	17.08 - 17.33	1.0000	1.0000
L37	14	WR-VG66ST-BRD(7/8)	17.08 - 17.33	1.0000	1.0000
L37	15	DPJ10-210-35F(3/8)	17.08 - 17.33	1.0000	1.0000
L37	16	FB-L98B-034-XXX(3/8)	17.08 - 17.33	1.0000	1.0000
L37	18	DC-D06C06-XXXFT(15/16)	17.08 - 17.33	1.0000	1.0000
L37	19	FB-L98B-034-XXX(3/8)	17.08 - 17.33	1.0000	1.0000
L37	21	FP 3.50 x 1.25 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	22	FP 3.50 x 1.25 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	23	FP 3.50 x 1.25 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	30	MP3-05 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	31	MP3-05 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	32	MP3-05 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	40	CCI-040075 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	41	CCI-040075 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	42	CCI-040075 Reinforcement	17.08 - 17.33	1.0000	1.0000
L37	56	CCI-040125	17.08 - 17.33	1.0000	1.0000
L37	57	CCI-040125	17.08 - 17.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L37	58	CCI-040125	17.33 17.08 - 17.33	1.0000	1.0000
L38	2	Safety Line 3/8	13.67 - 17.08	1.0000	1.0000
L38	3	Climbing Pegs	13.67 - 17.08	1.0000	1.0000
L38	14	WR-VG66ST-BRD(7/8)	13.67 - 17.08	1.0000	1.0000
L38	15	DPJ10-210-35F(3/8)	13.67 - 17.08	1.0000	1.0000
L38	16	FB-L98B-034-XXX(3/8)	13.67 - 17.08	1.0000	1.0000
L38	18	DC-D06C06-XXXFT(15/16)	13.67 - 17.08	1.0000	1.0000
L38	19	FB-L98B-034-XXX(3/8)	13.67 - 17.08	1.0000	1.0000
L38	21	FP 3.50 x 1.25 Reinforcement	13.67 - 17.08	1.0000	1.0000
L38	22	FP 3.50 x 1.25 Reinforcement	13.67 - 17.08	1.0000	1.0000
L38	23	FP 3.50 x 1.25 Reinforcement	13.67 - 17.08	1.0000	1.0000
L38	29	MP3-04 Reinforcement	13.67 - 14.88	1.0000	1.0000
L38	30	MP3-05 Reinforcement	13.67 - 17.08	1.0000	1.0000
L38	31	MP3-05 Reinforcement	13.67 - 17.08	1.0000	1.0000
L38	32	MP3-05 Reinforcement	13.67 - 17.08	1.0000	1.0000
L38	40	CCI-040075 Reinforcement	17.00 - 17.08	1.0000	1.0000
L38	41	CCI-040075 Reinforcement	17.00 - 17.08	1.0000	1.0000
L38	42	CCI-040075 Reinforcement	17.00 - 17.08	1.0000	1.0000
L38	56	CCI-040125	13.67 - 17.08	1.0000	1.0000
L38	57	CCI-040125	13.67 - 17.08	1.0000	1.0000
L38	58	CCI-040125	13.67 - 17.08	1.0000	1.0000
L39	2	Safety Line 3/8	13.42 - 13.67	1.0000	1.0000
L39	3	Climbing Pegs	13.42 - 13.67	1.0000	1.0000
L39	14	WR-VG66ST-BRD(7/8)	13.42 - 13.67	1.0000	1.0000
L39	15	DPJ10-210-35F(3/8)	13.42 - 13.67	1.0000	1.0000
L39	16	FB-L98B-034-XXX(3/8)	13.42 - 13.67	1.0000	1.0000
L39	18	DC-D06C06-XXXFT(15/16)	13.42 - 13.67	1.0000	1.0000
L39	19	FB-L98B-034-XXX(3/8)	13.42 - 13.67	1.0000	1.0000
L39	21	FP 3.50 x 1.25 Reinforcement	13.42 - 13.67	1.0000	1.0000
L39	22	FP 3.50 x 1.25 Reinforcement	13.42 - 13.67	1.0000	1.0000
L39	23	FP 3.50 x 1.25 Reinforcement	13.42 - 13.67	1.0000	1.0000
L39	29	MP3-04 Reinforcement	13.42 - 13.67	1.0000	1.0000
L39	30	MP3-05 Reinforcement	13.42 - 13.67	1.0000	1.0000
L39	31	MP3-05 Reinforcement	13.42 - 13.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L39	32	MP3-05 Reinforcement	13.42 - 13.67	1.0000	1.0000
L39	56	CCI-040125	13.42 - 13.67	1.0000	1.0000
L39	57	CCI-040125	13.42 - 13.67	1.0000	1.0000
L39	58	CCI-040125	13.42 - 13.67	1.0000	1.0000
L40	2	Safety Line 3/8	8.42 - 13.42	1.0000	1.0000
L40	3	Climbing Pegs	8.42 - 13.42	1.0000	1.0000
L40	14	WR-VG66ST-BRD(7/8)	8.42 - 13.42	1.0000	1.0000
L40	15	DPJ10-210-35F(3/8)	8.42 - 13.42	1.0000	1.0000
L40	16	FB-L98B-034-XXX(3/8)	8.42 - 13.42	1.0000	1.0000
L40	18	DC-D06C06-XXXFT(15/16)	8.42 - 13.42	1.0000	1.0000
L40	19	FB-L98B-034-XXX(3/8)	8.42 - 13.42	1.0000	1.0000
L40	21	FP 3.50 x 1.25 Reinforcement	8.42 - 13.42	1.0000	1.0000
L40	22	FP 3.50 x 1.25 Reinforcement	8.42 - 13.42	1.0000	1.0000
L40	23	FP 3.50 x 1.25 Reinforcement	8.42 - 13.42	1.0000	1.0000
L40	28	MP3-05 Reinforcement	8.42 - 8.50	1.0000	1.0000
L40	29	MP3-04 Reinforcement	8.42 - 13.42	1.0000	1.0000
L40	30	MP3-05 Reinforcement	11.25 - 13.42	1.0000	1.0000
L40	31	MP3-05 Reinforcement	8.42 - 13.42	1.0000	1.0000
L40	32	MP3-05 Reinforcement	8.42 - 13.42	1.0000	1.0000
L40	56	CCI-040125	8.42 - 13.42	1.0000	1.0000
L40	57	CCI-040125	8.42 - 13.42	1.0000	1.0000
L40	58	CCI-040125	8.42 - 13.42	1.0000	1.0000
L41	2	Safety Line 3/8	6.08 - 8.42	1.0000	1.0000
L41	3	Climbing Pegs	6.08 - 8.42	1.0000	1.0000
L41	14	WR-VG66ST-BRD(7/8)	6.08 - 8.42	1.0000	1.0000
L41	15	DPJ10-210-35F(3/8)	6.08 - 8.42	1.0000	1.0000
L41	16	FB-L98B-034-XXX(3/8)	6.08 - 8.42	1.0000	1.0000
L41	18	DC-D06C06-XXXFT(15/16)	6.08 - 8.42	1.0000	1.0000
L41	19	FB-L98B-034-XXX(3/8)	6.08 - 8.42	1.0000	1.0000
L41	21	FP 3.50 x 1.25 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	22	FP 3.50 x 1.25 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	23	FP 3.50 x 1.25 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	28	MP3-05 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	29	MP3-04 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	31	MP3-05 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	32	MP3-05 Reinforcement	6.08 - 8.42	1.0000	1.0000
L41	56	CCI-040125	6.08 - 8.42	1.0000	1.0000
L41	57	CCI-040125	6.08 - 8.42	1.0000	1.0000
L41	58	CCI-040125	6.08 - 8.42	1.0000	1.0000
L42	2	Safety Line 3/8	5.83 - 6.08	1.0000	1.0000
L42	3	Climbing Pegs	5.83 - 6.08	1.0000	1.0000
L42	14	WR-VG66ST-BRD(7/8)	5.83 - 6.08	1.0000	1.0000
L42	15	DPJ10-210-35F(3/8)	5.83 - 6.08	1.0000	1.0000
L42	16	FB-L98B-034-XXX(3/8)	5.83 - 6.08	1.0000	1.0000
L42	18	DC-D06C06-XXXFT(15/16)	5.83 - 6.08	1.0000	1.0000
L42	19	FB-L98B-034-XXX(3/8)	5.83 - 6.08	1.0000	1.0000
L42	21	FP 3.50 x 1.25 Reinforcement	5.83 - 6.08	1.0000	1.0000
L42	22	FP 3.50 x 1.25 Reinforcement	5.83 - 6.08	1.0000	1.0000
L42	23	FP 3.50 x 1.25 Reinforcement	5.83 - 6.08	1.0000	1.0000
L42	28	MP3-05 Reinforcement	5.83 - 6.08	1.0000	1.0000
L42	29	MP3-04 Reinforcement	5.83 - 6.08	1.0000	1.0000
L42	31	MP3-05 Reinforcement	5.83 - 6.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L42	32	MP3-05 Reinforcement	5.83 - 6.08	1.0000	1.0000
L42	56	CCI-040125	5.83 - 6.08	1.0000	1.0000
L42	57	CCI-040125	5.83 - 6.08	1.0000	1.0000
L42	58	CCI-040125	5.83 - 6.08	1.0000	1.0000
L43	2	Safety Line 3/8	5.50 - 5.83	1.0000	1.0000
L43	3	Climbing Pegs	5.50 - 5.83	1.0000	1.0000
L43	14	WR-VG66ST-BRD(7/8)	5.50 - 5.83	1.0000	1.0000
L43	15	DPJ10-210-35F(3/8)	5.50 - 5.83	1.0000	1.0000
L43	16	FB-L98B-034-XXX(3/8)	5.50 - 5.83	1.0000	1.0000
L43	18	DC-D06C06-XXXFT(15/16)	5.50 - 5.83	1.0000	1.0000
L43	19	FB-L98B-034-XXX(3/8)	5.50 - 5.83	1.0000	1.0000
L43	21	FP 3.50 x 1.25 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	22	FP 3.50 x 1.25 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	23	FP 3.50 x 1.25 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	28	MP3-05 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	29	MP3-04 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	31	MP3-05 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	32	MP3-05 Reinforcement	5.50 - 5.83	1.0000	1.0000
L43	56	CCI-040125	5.50 - 5.83	1.0000	1.0000
L43	57	CCI-040125	5.50 - 5.83	1.0000	1.0000
L43	58	CCI-040125	5.50 - 5.83	1.0000	1.0000
L44	2	Safety Line 3/8	5.25 - 5.50	1.0000	1.0000
L44	3	Climbing Pegs	5.25 - 5.50	1.0000	1.0000
L44	14	WR-VG66ST-BRD(7/8)	5.25 - 5.50	1.0000	1.0000
L44	15	DPJ10-210-35F(3/8)	5.25 - 5.50	1.0000	1.0000
L44	16	FB-L98B-034-XXX(3/8)	5.25 - 5.50	1.0000	1.0000
L44	18	DC-D06C06-XXXFT(15/16)	5.25 - 5.50	1.0000	1.0000
L44	19	FB-L98B-034-XXX(3/8)	5.25 - 5.50	1.0000	1.0000
L44	21	FP 3.50 x 1.25 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	22	FP 3.50 x 1.25 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	23	FP 3.50 x 1.25 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	28	MP3-05 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	29	MP3-04 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	31	MP3-05 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	32	MP3-05 Reinforcement	5.25 - 5.50	1.0000	1.0000
L44	56	CCI-040125	5.25 - 5.50	1.0000	1.0000
L44	57	CCI-040125	5.25 - 5.50	1.0000	1.0000
L44	58	CCI-040125	5.25 - 5.50	1.0000	1.0000
L45	2	Safety Line 3/8	3.00 - 5.25	1.0000	1.0000
L45	3	Climbing Pegs	3.00 - 5.25	1.0000	1.0000
L45	14	WR-VG66ST-BRD(7/8)	3.00 - 5.25	1.0000	1.0000
L45	15	DPJ10-210-35F(3/8)	3.00 - 5.25	1.0000	1.0000
L45	16	FB-L98B-034-XXX(3/8)	3.00 - 5.25	1.0000	1.0000
L45	18	DC-D06C06-XXXFT(15/16)	3.00 - 5.25	1.0000	1.0000
L45	19	FB-L98B-034-XXX(3/8)	3.00 - 5.25	1.0000	1.0000
L45	21	FP 3.50 x 1.25 Reinforcement	0.25 - 5.25	1.0000	1.0000
L45	22	FP 3.50 x 1.25 Reinforcement	0.25 - 5.25	1.0000	1.0000
L45	23	FP 3.50 x 1.25 Reinforcement	0.25 - 5.25	1.0000	1.0000
L45	28	MP3-05 Reinforcement	0.25 - 5.25	1.0000	1.0000
L45	29	MP3-04 Reinforcement	4.88 - 5.25	1.0000	1.0000
L45	31	MP3-05 Reinforcement	0.25 - 5.25	1.0000	1.0000
L45	32	MP3-05 Reinforcement	0.25 - 5.25	1.0000	1.0000
L45	56	CCI-040125	4.00 - 5.25	1.0000	1.0000
L45	57	CCI-040125	4.00 - 5.25	1.0000	1.0000
L45	58	CCI-040125	4.00 - 5.25	1.0000	1.0000
L46	21	FP 3.50 x 1.25 Reinforcement	0.00 - 0.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L46	22	FP 3.50 x 1.25 Reinforcement	0.00 - 0.25	1.0000	1.0000
L46	23	FP 3.50 x 1.25 Reinforcement	0.00 - 0.25	1.0000	1.0000
L46	28	MP3-05 Reinforcement	0.00 - 0.25	1.0000	1.0000
L46	31	MP3-05 Reinforcement	0.00 - 0.25	1.0000	1.0000
L46	32	MP3-05 Reinforcement	0.00 - 0.25	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L4	52	CCI-040075 Reinforcement	100.00 - 100.42	Auto	1.0000
L4	53	CCI-040075 Reinforcement	100.00 - 100.42	Auto	1.0000
L4	54	CCI-040075 Reinforcement	100.00 - 100.42	Auto	1.0000
L5	52	CCI-040075 Reinforcement	98.50 - 100.00	Auto	1.0000
L5	53	CCI-040075 Reinforcement	98.50 - 100.00	Auto	1.0000
L5	54	CCI-040075 Reinforcement	98.50 - 100.00	Auto	1.0000
L6	52	CCI-040075 Reinforcement	98.25 - 98.50	Auto	1.0000
L6	53	CCI-040075 Reinforcement	98.25 - 98.50	Auto	1.0000
L6	54	CCI-040075 Reinforcement	98.25 - 98.50	Auto	1.0000
L7	52	CCI-040075 Reinforcement	93.25 - 98.25	Auto	1.0000
L7	53	CCI-040075 Reinforcement	93.25 - 98.25	Auto	1.0000
L7	54	CCI-040075 Reinforcement	93.25 - 98.25	Auto	1.0000
L8	49	FP 5.00 X 4.75 Reinforcement	90.00 - 92.67	Auto	1.0000
L8	50	FP 5.00 X 4.75 Reinforcement	90.00 - 92.67	Auto	1.0000
L8	51	FP 5.00 X 4.75 Reinforcement	90.00 - 92.67	Auto	1.0000
L8	52	CCI-040075 Reinforcement	92.67 - 93.25	Auto	1.0000
L8	53	CCI-040075 Reinforcement	92.67 - 93.25	Auto	1.0000
L8	54	CCI-040075 Reinforcement	92.67 - 93.25	Auto	1.0000
L9	49	FP 5.00 X 4.75 Reinforcement	89.75 - 90.00	Auto	1.0000
L9	50	FP 5.00 X 4.75 Reinforcement	89.75 - 90.00	Auto	1.0000
L9	51	FP 5.00 X 4.75 Reinforcement	89.75 - 90.00	Auto	1.0000
L10	49	FP 5.00 X 4.75 Reinforcement	87.33 - 89.75	Auto	1.0000
L10	50	FP 5.00 X 4.75 Reinforcement	87.33 - 89.75	Auto	1.0000
L10	51	FP 5.00 X 4.75 Reinforcement	87.33 - 89.75	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L11	46	Reinforcement CCI-040075	89.75 79.75 - 80.25	Auto	1.0000
L11	47	Reinforcement CCI-040075	80.25 79.75 - 80.25	Auto	1.0000
L11	48	Reinforcement CCI-040075	80.25 79.75 - 80.25	Auto	1.0000
L12	46	Reinforcement CCI-040075	79.00 - 79.75	Auto	1.0000
L12	47	Reinforcement CCI-040075	79.00 - 79.75	Auto	1.0000
L12	48	Reinforcement CCI-040075	79.00 - 79.75	Auto	1.0000
L13	46	Reinforcement CCI-040075	78.75 - 79.00	Auto	1.0000
L13	47	Reinforcement CCI-040075	78.75 - 79.00	Auto	1.0000
L13	48	Reinforcement CCI-040075	78.75 - 79.00	Auto	1.0000
L14	36	MP3-03 Reinforcement	74.04 - 75.21	Auto	1.0000
L14	37	MP3-03 Reinforcement	74.04 - 76.21	Auto	1.0000
L14	38	MP3-03 Reinforcement	74.04 - 76.21	Auto	1.0000
L14	46	CCI-040075 Reinforcement	74.04 - 78.75	Auto	1.0000
L14	47	CCI-040075 Reinforcement	74.04 - 78.75	Auto	1.0000
L14	48	CCI-040075 Reinforcement	74.04 - 78.75	Auto	1.0000
L15	36	MP3-03 Reinforcement	73.79 - 74.04	Auto	1.0000
L15	37	MP3-03 Reinforcement	73.79 - 74.04	Auto	1.0000
L15	38	MP3-03 Reinforcement	73.79 - 74.04	Auto	1.0000
L15	46	CCI-040075 Reinforcement	73.79 - 74.04	Auto	1.0000
L15	47	CCI-040075 Reinforcement	73.79 - 74.04	Auto	1.0000
L15	48	CCI-040075 Reinforcement	73.79 - 74.04	Auto	1.0000
L16	36	MP3-03 Reinforcement	68.79 - 73.79	Auto	1.0000
L16	37	MP3-03 Reinforcement	68.79 - 73.79	Auto	1.0000
L16	38	MP3-03 Reinforcement	68.79 - 73.79	Auto	1.0000
L16	46	CCI-040075 Reinforcement	68.79 - 73.79	Auto	1.0000
L16	47	CCI-040075 Reinforcement	68.79 - 73.79	Auto	1.0000
L16	48	CCI-040075 Reinforcement	68.79 - 73.79	Auto	1.0000
L17	36	MP3-03 Reinforcement	63.79 - 68.79	Auto	1.0000
L17	37	MP3-03 Reinforcement	63.79 - 68.79	Auto	1.0000
L17	38	MP3-03 Reinforcement	63.79 - 68.79	Auto	1.0000
L17	46	CCI-040075 Reinforcement	63.79 - 68.79	Auto	1.0000
L17	47	CCI-040075 Reinforcement	63.79 - 68.79	Auto	1.0000
L17	48	CCI-040075 Reinforcement	63.79 - 68.79	Auto	1.0000
L18	36	MP3-03 Reinforcement	60.00 -	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L18	37	MP3-03 Reinforcement	63.79 60.00 - 63.79	Auto	1.0000
L18	38	MP3-03 Reinforcement	63.79 60.00 - 63.79	Auto	1.0000
L18	46	CCI-040075 Reinforcement	60.25 - 63.79	Auto	1.0000
L18	47	CCI-040075 Reinforcement	60.25 - 63.79	Auto	1.0000
L18	48	CCI-040075 Reinforcement	60.25 - 63.79	Auto	1.0000
L19	33	MP3-04 Reinforcement	59.75 - 60.00	Auto	1.0000
L19	34	MP3-04 Reinforcement	59.75 - 60.00	Auto	1.0000
L19	35	MP3-04 Reinforcement	59.75 - 60.00	Auto	1.0000
L20	33	MP3-04 Reinforcement	54.75 - 59.75	Auto	1.0000
L20	34	MP3-04 Reinforcement	54.75 - 59.75	Auto	1.0000
L20	35	MP3-04 Reinforcement	54.75 - 59.75	Auto	1.0000
L21	33	MP3-04 Reinforcement	49.75 - 54.75	Auto	1.0000
L21	34	MP3-04 Reinforcement	49.75 - 54.75	Auto	1.0000
L21	35	MP3-04 Reinforcement	49.75 - 54.75	Auto	1.0000
L21	43	CCI-040075 Reinforcement	49.75 - 50.25	Auto	1.0000
L21	44	CCI-040075 Reinforcement	49.75 - 50.25	Auto	1.0000
L21	45	CCI-040075 Reinforcement	49.75 - 50.25	Auto	1.0000
L22	33	MP3-04 Reinforcement	47.83 - 49.75	Auto	1.0000
L22	34	MP3-04 Reinforcement	47.83 - 49.75	Auto	1.0000
L22	35	MP3-04 Reinforcement	47.83 - 49.75	Auto	1.0000
L22	43	CCI-040075 Reinforcement	47.83 - 49.75	Auto	1.0000
L22	44	CCI-040075 Reinforcement	47.83 - 49.75	Auto	1.0000
L22	45	CCI-040075 Reinforcement	47.83 - 49.75	Auto	1.0000
L23	33	MP3-04 Reinforcement	47.58 - 47.83	Auto	1.0000
L23	34	MP3-04 Reinforcement	47.58 - 47.83	Auto	1.0000
L23	35	MP3-04 Reinforcement	47.58 - 47.83	Auto	1.0000
L23	43	CCI-040075 Reinforcement	47.58 - 47.83	Auto	1.0000
L23	44	CCI-040075 Reinforcement	47.58 - 47.83	Auto	1.0000
L23	45	CCI-040075 Reinforcement	47.58 - 47.83	Auto	1.0000
L24	24	FP 3.25 x 1.25 Reinforcement	43.00 - 44.00	Auto	1.0000
L24	25	FP 3.25 x 1.25 Reinforcement	43.00 - 44.00	Auto	1.0000
L24	26	FP 3.25 x 1.25 Reinforcement	43.00 - 44.00	Auto	1.0000
L24	33	MP3-04 Reinforcement	43.00 - 47.58	Auto	1.0000
L24	34	MP3-04 Reinforcement	43.00 - 47.58	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L24	35	MP3-04 Reinforcement	47.58 43.00 - 47.58	Auto	1.0000
L24	43	CCI-040075 Reinforcement	43.00 - 47.58	Auto	1.0000
L24	44	CCI-040075 Reinforcement	43.00 - 47.58	Auto	1.0000
L24	45	CCI-040075 Reinforcement	43.00 - 47.58	Auto	1.0000
L25	24	FP 3.25 x 1.25 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	25	FP 3.25 x 1.25 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	26	FP 3.25 x 1.25 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	33	MP3-04 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	34	MP3-04 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	35	MP3-04 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	43	CCI-040075 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	44	CCI-040075 Reinforcement	42.75 - 43.00	Auto	1.0000
L25	45	CCI-040075 Reinforcement	42.75 - 43.00	Auto	1.0000
L26	24	FP 3.25 x 1.25 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	25	FP 3.25 x 1.25 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	26	FP 3.25 x 1.25 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	33	MP3-04 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	34	MP3-04 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	35	MP3-04 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	43	CCI-040075 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	44	CCI-040075 Reinforcement	37.75 - 42.75	Auto	1.0000
L26	45	CCI-040075 Reinforcement	37.75 - 42.75	Auto	1.0000
L27	24	FP 3.25 x 1.25 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	25	FP 3.25 x 1.25 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	26	FP 3.25 x 1.25 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	33	MP3-04 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	34	MP3-04 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	35	MP3-04 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	43	CCI-040075 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	44	CCI-040075 Reinforcement	34.50 - 37.75	Auto	1.0000
L27	45	CCI-040075 Reinforcement	34.50 - 37.75	Auto	1.0000
L28	24	FP 3.25 x 1.25 Reinforcement	34.25 - 34.50	Auto	1.0000
L28	25	FP 3.25 x 1.25 Reinforcement	34.25 - 34.50	Auto	1.0000
L28	26	FP 3.25 x 1.25 Reinforcement	34.25 -	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L28	33	Reinforcement MP3-04 Reinforcement	34.50 34.25 - 34.50	Auto	1.0000
L28	34	MP3-04 Reinforcement	34.25 - 34.50	Auto	1.0000
L28	35	MP3-04 Reinforcement	34.25 - 34.50	Auto	1.0000
L28	43	CCI-040075 Reinforcement	34.25 - 34.50	Auto	1.0000
L28	44	CCI-040075 Reinforcement	34.25 - 34.50	Auto	1.0000
L28	45	CCI-040075 Reinforcement	34.25 - 34.50	Auto	1.0000
L29	24	FP 3.25 x 1.25 Reinforcement	30.00 - 34.25	Auto	1.0000
L29	25	FP 3.25 x 1.25 Reinforcement	30.00 - 34.25	Auto	1.0000
L29	26	FP 3.25 x 1.25 Reinforcement	30.00 - 34.25	Auto	1.0000
L29	33	MP3-04 Reinforcement	30.00 - 34.25	Auto	1.0000
L29	34	MP3-04 Reinforcement	30.00 - 34.25	Auto	1.0000
L29	35	MP3-04 Reinforcement	30.00 - 34.25	Auto	1.0000
L29	43	CCI-040075 Reinforcement	30.25 - 34.25	Auto	1.0000
L29	44	CCI-040075 Reinforcement	30.25 - 34.25	Auto	1.0000
L29	45	CCI-040075 Reinforcement	30.25 - 34.25	Auto	1.0000
L30	30	MP3-05 Reinforcement	29.75 - 30.00	Auto	1.0000
L30	31	MP3-05 Reinforcement	29.75 - 30.00	Auto	1.0000
L30	32	MP3-05 Reinforcement	29.75 - 30.00	Auto	1.0000
L31	30	MP3-05 Reinforcement	25.58 - 29.75	Auto	1.0000
L31	31	MP3-05 Reinforcement	25.58 - 29.75	Auto	1.0000
L31	32	MP3-05 Reinforcement	25.58 - 29.75	Auto	1.0000
L31	40	CCI-040075 Reinforcement	25.58 - 27.00	Auto	1.0000
L31	41	CCI-040075 Reinforcement	25.58 - 27.00	Auto	1.0000
L31	42	CCI-040075 Reinforcement	25.58 - 27.00	Auto	1.0000
L32	30	MP3-05 Reinforcement	25.33 - 25.58	Auto	1.0000
L32	31	MP3-05 Reinforcement	25.33 - 25.58	Auto	1.0000
L32	32	MP3-05 Reinforcement	25.33 - 25.58	Auto	1.0000
L32	40	CCI-040075 Reinforcement	25.33 - 25.58	Auto	1.0000
L32	41	CCI-040075 Reinforcement	25.33 - 25.58	Auto	1.0000
L32	42	CCI-040075 Reinforcement	25.33 - 25.58	Auto	1.0000
L33	21	FP 3.50 x 1.25 Reinforcement	20.75 - 22.00	Auto	1.0000
L33	22	FP 3.50 x 1.25 Reinforcement	20.75 - 22.00	Auto	1.0000
L33	23	FP 3.50 x 1.25 Reinforcement	20.75 - 22.00	Auto	1.0000
L33	30	MP3-05 Reinforcement	20.75 -	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L33	31	MP3-05 Reinforcement	25.33 20.75 - 25.33	Auto	1.0000
L33	32	MP3-05 Reinforcement	20.75 - 25.33	Auto	1.0000
L33	40	CCI-040075 Reinforcement	20.75 - 25.33	Auto	1.0000
L33	41	CCI-040075 Reinforcement	20.75 - 25.33	Auto	1.0000
L33	42	CCI-040075 Reinforcement	20.75 - 25.33	Auto	1.0000
L34	21	FP 3.50 x 1.25 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	22	FP 3.50 x 1.25 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	23	FP 3.50 x 1.25 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	30	MP3-05 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	31	MP3-05 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	32	MP3-05 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	40	CCI-040075 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	41	CCI-040075 Reinforcement	20.50 - 20.75	Auto	1.0000
L34	42	CCI-040075 Reinforcement	20.50 - 20.75	Auto	1.0000
L35	21	FP 3.50 x 1.25 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	22	FP 3.50 x 1.25 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	23	FP 3.50 x 1.25 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	30	MP3-05 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	31	MP3-05 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	32	MP3-05 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	40	CCI-040075 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	41	CCI-040075 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	42	CCI-040075 Reinforcement	17.58 - 20.50	Auto	1.0000
L35	56	CCI-040125	17.58 - 19.00	Auto	1.0000
L35	57	CCI-040125	17.58 - 19.00	Auto	1.0000
L35	58	CCI-040125	17.58 - 19.00	Auto	1.0000
L36	21	FP 3.50 x 1.25 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	22	FP 3.50 x 1.25 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	23	FP 3.50 x 1.25 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	30	MP3-05 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	31	MP3-05 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	32	MP3-05 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	40	CCI-040075 Reinforcement	17.33 - 17.58	Auto	1.0000
L36	41	CCI-040075	17.33 -	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L36	42	Reinforcement	17.58		
		CCI-040075	17.33 -	Auto	1.0000
L36	56	Reinforcement	17.58		
		CCI-040125	17.33 -	Auto	1.0000
L36	57		17.58		
		CCI-040125	17.33 -	Auto	1.0000
L36	58		17.58		
		CCI-040125	17.33 -	Auto	1.0000
L37	21	FP 3.50 x 1.25	17.08 -	Auto	1.0000
L37	22	Reinforcement	17.33		
		FP 3.50 x 1.25	17.08 -	Auto	1.0000
L37	23	Reinforcement	17.33		
		FP 3.50 x 1.25	17.08 -	Auto	1.0000
L37	30	MP3-05 Reinforcement	17.33		
			17.08 -	Auto	1.0000
L37	31	MP3-05 Reinforcement	17.33		
			17.08 -	Auto	1.0000
L37	32	MP3-05 Reinforcement	17.33		
			17.08 -	Auto	1.0000
L37	40	CCI-040075	17.08 -	Auto	1.0000
		Reinforcement	17.33		
L37	41	CCI-040075	17.08 -	Auto	1.0000
		Reinforcement	17.33		
L37	42	CCI-040075	17.08 -	Auto	1.0000
		Reinforcement	17.33		
L37	56	CCI-040125	17.08 -	Auto	1.0000
			17.33		
L37	57	CCI-040125	17.08 -	Auto	1.0000
			17.33		
L37	58	CCI-040125	17.08 -	Auto	1.0000
			17.33		
L38	21	FP 3.50 x 1.25	13.67 -	Auto	1.0000
		Reinforcement	17.08		
L38	22	FP 3.50 x 1.25	13.67 -	Auto	1.0000
		Reinforcement	17.08		
L38	23	FP 3.50 x 1.25	13.67 -	Auto	1.0000
		Reinforcement	17.08		
L38	29	MP3-04 Reinforcement	13.67 -	Auto	1.0000
			14.88		
L38	30	MP3-05 Reinforcement	13.67 -	Auto	1.0000
			17.08		
L38	31	MP3-05 Reinforcement	13.67 -	Auto	1.0000
			17.08		
L38	32	MP3-05 Reinforcement	13.67 -	Auto	1.0000
			17.08		
L38	40	CCI-040075	17.00 -	Auto	1.0000
		Reinforcement	17.08		
L38	41	CCI-040075	17.00 -	Auto	1.0000
		Reinforcement	17.08		
L38	42	CCI-040075	17.00 -	Auto	1.0000
		Reinforcement	17.08		
L38	56	CCI-040125	13.67 -	Auto	1.0000
			17.08		
L38	57	CCI-040125	13.67 -	Auto	1.0000
			17.08		
L38	58	CCI-040125	13.67 -	Auto	1.0000
			17.08		
L39	21	FP 3.50 x 1.25	13.42 -	Auto	1.0000
		Reinforcement	13.67		
L39	22	FP 3.50 x 1.25	13.42 -	Auto	1.0000
		Reinforcement	13.67		
L39	23	FP 3.50 x 1.25	13.42 -	Auto	1.0000
		Reinforcement	13.67		
L39	29	MP3-04 Reinforcement	13.42 -	Auto	1.0000
			13.67		
L39	30	MP3-05 Reinforcement	13.42 -	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L39	31	MP3-05 Reinforcement	13.67 13.42 - 13.67	Auto	1.0000
L39	32	MP3-05 Reinforcement	13.42 - 13.67	Auto	1.0000
L39	56	CCI-040125	13.42 - 13.67	Auto	1.0000
L39	57	CCI-040125	13.42 - 13.67	Auto	1.0000
L39	58	CCI-040125	13.42 - 13.67	Auto	1.0000
L40	21	FP 3.50 x 1.25 Reinforcement	8.42 - 13.42	Auto	1.0000
L40	22	FP 3.50 x 1.25 Reinforcement	8.42 - 13.42	Auto	1.0000
L40	23	FP 3.50 x 1.25 Reinforcement	8.42 - 13.42	Auto	1.0000
L40	28	MP3-05 Reinforcement	8.42 - 8.50	Auto	1.0000
L40	29	MP3-04 Reinforcement	8.42 - 13.42	Auto	1.0000
L40	30	MP3-05 Reinforcement	11.25 - 13.42	Auto	1.0000
L40	31	MP3-05 Reinforcement	8.42 - 13.42	Auto	1.0000
L40	32	MP3-05 Reinforcement	8.42 - 13.42	Auto	1.0000
L40	56	CCI-040125	8.42 - 13.42	Auto	1.0000
L40	57	CCI-040125	8.42 - 13.42	Auto	1.0000
L40	58	CCI-040125	8.42 - 13.42	Auto	1.0000
L41	21	FP 3.50 x 1.25 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	22	FP 3.50 x 1.25 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	23	FP 3.50 x 1.25 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	28	MP3-05 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	29	MP3-04 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	31	MP3-05 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	32	MP3-05 Reinforcement	6.08 - 8.42	Auto	1.0000
L41	56	CCI-040125	6.08 - 8.42	Auto	1.0000
L41	57	CCI-040125	6.08 - 8.42	Auto	1.0000
L41	58	CCI-040125	6.08 - 8.42	Auto	1.0000
L42	21	FP 3.50 x 1.25 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	22	FP 3.50 x 1.25 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	23	FP 3.50 x 1.25 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	28	MP3-05 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	29	MP3-04 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	31	MP3-05 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	32	MP3-05 Reinforcement	5.83 - 6.08	Auto	1.0000
L42	56	CCI-040125	5.83 - 6.08	Auto	1.0000
L42	57	CCI-040125	5.83 - 6.08	Auto	1.0000
L42	58	CCI-040125	5.83 - 6.08	Auto	1.0000
L43	21	FP 3.50 x 1.25 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	22	FP 3.50 x 1.25 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	23	FP 3.50 x 1.25 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	28	MP3-05 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	29	MP3-04 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	31	MP3-05 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	32	MP3-05 Reinforcement	5.50 - 5.83	Auto	1.0000
L43	56	CCI-040125	5.50 - 5.83	Auto	1.0000
L43	57	CCI-040125	5.50 - 5.83	Auto	1.0000
L43	58	CCI-040125	5.50 - 5.83	Auto	1.0000
L44	21	FP 3.50 x 1.25 Reinforcement	5.25 - 5.50	Auto	1.0000
L44	22	FP 3.50 x 1.25	5.25 - 5.50	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L44	23	Reinforcement FP 3.50 x 1.25	5.25 - 5.50	Auto	1.0000
L44	28	MP3-05 Reinforcement	5.25 - 5.50	Auto	1.0000
L44	29	MP3-04 Reinforcement	5.25 - 5.50	Auto	1.0000
L44	31	MP3-05 Reinforcement	5.25 - 5.50	Auto	1.0000
L44	32	MP3-05 Reinforcement	5.25 - 5.50	Auto	1.0000
L44	56	CCI-040125	5.25 - 5.50	Auto	1.0000
L44	57	CCI-040125	5.25 - 5.50	Auto	1.0000
L44	58	CCI-040125	5.25 - 5.50	Auto	1.0000
L45	21	FP 3.50 x 1.25 Reinforcement	0.25 - 5.25	Auto	1.0000
L45	22	FP 3.50 x 1.25 Reinforcement	0.25 - 5.25	Auto	1.0000
L45	23	FP 3.50 x 1.25 Reinforcement	0.25 - 5.25	Auto	1.0000
L45	28	MP3-05 Reinforcement	0.25 - 5.25	Auto	1.0000
L45	29	MP3-04 Reinforcement	4.88 - 5.25	Auto	1.0000
L45	31	MP3-05 Reinforcement	0.25 - 5.25	Auto	1.0000
L45	32	MP3-05 Reinforcement	0.25 - 5.25	Auto	1.0000
L45	56	CCI-040125	4.00 - 5.25	Auto	1.0000
L45	57	CCI-040125	4.00 - 5.25	Auto	1.0000
L45	58	CCI-040125	4.00 - 5.25	Auto	1.0000
L46	21	FP 3.50 x 1.25 Reinforcement	0.00 - 0.25	Auto	1.0000
L46	22	FP 3.50 x 1.25 Reinforcement	0.00 - 0.25	Auto	1.0000
L46	23	FP 3.50 x 1.25 Reinforcement	0.00 - 0.25	Auto	1.0000
L46	28	MP3-05 Reinforcement	0.00 - 0.25	Auto	1.0000
L46	31	MP3-05 Reinforcement	0.00 - 0.25	Auto	1.0000
L46	32	MP3-05 Reinforcement	0.00 - 0.25	Auto	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K

APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.00	0.0000	116.00	No Ice	6.29	2.76	0.06
			0.00			1/2"	6.86	3.27	0.11
			1.00			Ice	7.45	3.79	0.16
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	6.29	2.76	0.06
			1.00			1/2"	6.86	3.27	0.11
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.00	0.0000	116.00	Ice	7.45	3.79	0.16
			0.00			1" Ice			
			1.00			No Ice	6.29	2.76	0.06
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00	0.0000	116.00	1/2"	6.86	3.27	0.11
			0.00			Ice	7.45	3.79	0.16
			0.00			1" Ice			
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00	0.0000	116.00	No Ice	14.69	6.87	0.18
			0.00			1/2"	15.46	7.55	0.31
			0.00			Ice	16.23	8.25	0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	14.69	6.87	0.18
			0.00			1/2"	15.46	7.55	0.31

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.00			Ice	16.23	8.25	0.45
AIR6449 B41_T-MOBILE	A	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	5.27	2.03	0.11
			1.00			1/2"	5.70	2.36	0.15
						Ice	6.14	2.70	0.20
AIR6449 B41_T-MOBILE	B	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	5.27	2.03	0.11
			1.00			1/2"	5.70	2.36	0.15
						Ice	6.14	2.70	0.20
AIR6449 B41_T-MOBILE	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	5.27	2.03	0.11
			1.00			1/2"	5.70	2.36	0.15
						Ice	6.14	2.70	0.20
KS24019-L112A	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	0.14	0.14	0.01
			2.00			1/2"	0.20	0.20	0.01
						Ice	0.26	0.26	0.01
RADIO 4415 B66A	A	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.86	0.87	0.05
			2.00			1/2"	2.03	1.00	0.06
						Ice	2.20	1.13	0.08
RADIO 4415 B66A	B	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.86	0.87	0.05
			2.00			1/2"	2.03	1.00	0.06
						Ice	2.20	1.13	0.08
RADIO 4415 B66A	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.86	0.87	0.05
			2.00			1/2"	2.03	1.00	0.06
						Ice	2.20	1.13	0.08
RADIO 2212 B2	A	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.86	0.87	0.04
			2.00			1/2"	2.03	1.00	0.06
						Ice	2.20	1.14	0.07
RADIO 2212 B2	B	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.86	0.87	0.04
			2.00			1/2"	2.03	1.00	0.06
						Ice	2.20	1.14	0.07
RADIO 2212 B2	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.86	0.87	0.04
			2.00			1/2"	2.03	1.00	0.06
						Ice	2.20	1.14	0.07
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.97	1.59	0.07
			2.00			1/2"	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.97	1.59	0.07
			2.00			1/2"	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.97	1.59	0.07
			2.00			1/2"	2.15	1.75	0.09
						Ice	2.33	1.92	0.12
(2) 5' x 2" Pipe Mount	A	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.19	1.19	0.02
			2.00			1/2"	1.50	1.50	0.03
						Ice	1.81	1.81	0.04
(2) 5' x 2" Pipe Mount	B	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.19	1.19	0.02
			2.00			1/2"	1.50	1.50	0.03
						Ice	1.81	1.81	0.04
(2) 5' x 2" Pipe Mount	C	From Leg	4.00	0.0000	116.00	1" Ice			
			0.00			No Ice	1.19	1.19	0.02
			2.00			1/2"	1.50	1.50	0.03
						Ice	1.81	1.81	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Platform Mount [LP 502-1]	C	None		0.0000	116.00	1" Ice No Ice 1/2" Ice 1" Ice	18.28 23.54 28.53	18.28 23.54 28.53	0.93 1.43 2.07

RHSDC-3315-PF-48	A	From Leg	1.00 0.00 0.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice	3.71 3.95 4.20	2.19 2.39 2.61	0.03 0.06 0.10

MT6407-77A	A	From Leg	4.00 0.00 2.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	6.74 7.36 8.00	2.34 2.83 3.35	0.08 0.11 0.14
MT6407-77A	B	From Leg	4.00 0.00 2.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	6.74 7.36 8.00	2.34 2.83 3.35	0.08 0.11 0.14
MT6407-77A	C	From Leg	4.00 0.00 2.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	6.74 7.36 8.00	2.34 2.83 3.35	0.08 0.11 0.14
NNH4-45B-R6	A	From Leg	4.00 0.00 1.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	8.25 8.83 9.42	3.22 3.73 4.25	0.10 0.17 0.24
NNH4-45B-R6	B	From Leg	4.00 0.00 1.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	8.25 8.83 9.42	3.22 3.73 4.25	0.10 0.17 0.24
NNH4-45B-R6	C	From Leg	4.00 0.00 1.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	8.25 8.83 9.42	3.22 3.73 4.25	0.10 0.17 0.24
BXA-70063-6BF-EDIN-0	A	From Leg	4.00 0.00 -1.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	7.05 7.79 8.54	3.36 4.04 4.74	0.03 0.08 0.12
BXA-70063-6BF-EDIN-0	B	From Leg	4.00 0.00 -1.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	7.05 7.79 8.54	3.36 4.04 4.74	0.03 0.08 0.12
BXA-70063-6BF-EDIN-0	C	From Leg	4.00 0.00 -1.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	7.05 7.79 8.54	3.36 4.04 4.74	0.03 0.08 0.12
RF4439D-25A	A	From Leg	4.00 0.00 0.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.25 1.39 1.54	0.07 0.09 0.11
RF4439D-25A	B	From Leg	4.00 0.00 0.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.25 1.39 1.54	0.07 0.09 0.11
RF4439D-25A	C	From Leg	4.00 0.00 0.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.25 1.39 1.54	0.07 0.09 0.11
RF4440D-13A	A	From Leg	4.00 0.00 0.00	0.0000	101.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.13 1.27 1.41	0.07 0.09 0.11
RF4440D-13A	B	From Leg	4.00 0.00	0.0000	101.00	No Ice 1/2"	1.87 2.03	1.13 1.27	0.07 0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.00			Ice	2.21	1.41	0.11
RF4440D-13A	C	From Leg	4.00	0.0000	101.00	1" Ice			
			0.00			No Ice	1.87	1.13	0.07
			0.00			1/2"	2.03	1.27	0.09
			0.00			Ice	2.21	1.41	0.11
CBRS RT4401-48A	A	From Leg	4.00	0.0000	101.00	1" Ice			
			0.00			No Ice	0.99	0.50	0.02
			0.00			1/2"	1.12	0.60	0.03
			0.00			Ice	1.26	0.70	0.04
CBRS RT4401-48A	B	From Leg	4.00	0.0000	101.00	1" Ice			
			0.00			No Ice	0.99	0.50	0.02
			0.00			1/2"	1.12	0.60	0.03
			0.00			Ice	1.26	0.70	0.04
CBRS RT4401-48A	C	From Leg	4.00	0.0000	101.00	1" Ice			
			0.00			No Ice	0.99	0.50	0.02
			0.00			1/2"	1.12	0.60	0.03
			0.00			Ice	1.26	0.70	0.04
RVZDC-6627-PF-48	A	From Leg	4.00	0.0000	101.00	1" Ice			
			0.00			No Ice	3.79	2.51	0.03
			0.00			1/2"	4.04	2.73	0.06
			0.00			Ice	4.30	2.95	0.10
Platform Mount [LP 301-1_KCKR]	C	None		0.0000	101.00	1" Ice			
						No Ice	35.03	35.03	1.86
						1/2"	44.46	44.46	2.52
						Ice	53.72	53.72	3.33

DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	15.89	7.89	0.14
			1.00			1/2"	16.81	8.74	0.25
						Ice	17.76	9.60	0.38
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	15.89	7.89	0.14
			1.00			1/2"	16.81	8.74	0.25
						Ice	17.76	9.60	0.38
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	15.89	7.89	0.14
			1.00			1/2"	16.81	8.74	0.25
						Ice	17.76	9.60	0.38
TPA65R-BU8D w/ Mount Pipe	A	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	15.94	7.91	0.12
			1.00			1/2"	16.87	8.76	0.24
						Ice	17.82	9.63	0.36
TPA65R-BU8D w/ Mount Pipe	B	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	15.94	7.91	0.12
			1.00			1/2"	16.87	8.76	0.24
						Ice	17.82	9.63	0.36
TPA65R-BU8D w/ Mount Pipe	C	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	15.94	7.91	0.12
			1.00			1/2"	16.87	8.76	0.24
						Ice	17.82	9.63	0.36
RRUS 4415 B30	A	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.84	0.82	0.05
			4.00			1/2"	2.01	0.94	0.06
						Ice	2.19	1.07	0.08
RRUS 4415 B30	B	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.84	0.82	0.05
			4.00			1/2"	2.01	0.94	0.06
						Ice	2.19	1.07	0.08
RRUS 4415 B30	C	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.84	0.82	0.05
			4.00			1/2"	2.01	0.94	0.06
						Ice	2.19	1.07	0.08
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.97	1.41	0.07
						1/2"	2.14	1.56	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			4.00			Ice	2.33	1.73	0.11
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			4.00			Ice	2.33	1.73	0.11
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	1.97	1.41	0.07
			0.00			1/2"	2.14	1.56	0.09
			4.00			Ice	2.33	1.73	0.11
RRUS 4478 B14_CCIV2	A	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	2.02	1.25	0.06
			0.00			1/2"	2.20	1.40	0.08
			3.00			Ice	2.39	1.55	0.10
RRUS 4478 B14_CCIV2	B	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	2.02	1.25	0.06
			0.00			1/2"	2.20	1.40	0.08
			4.00			Ice	2.39	1.55	0.10
RRUS 4478 B14_CCIV2	C	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	2.02	1.25	0.06
			0.00			1/2"	2.20	1.40	0.08
			4.00			Ice	2.39	1.55	0.10
RRUS 8843 B2/B66A	A	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			4.00			Ice	1.97	1.65	0.11
RRUS 8843 B2/B66A	B	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			4.00			Ice	1.97	1.65	0.11
RRUS 8843 B2/B66A	C	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	1.64	1.35	0.07
			0.00			1/2"	1.80	1.50	0.09
			3.00			Ice	1.97	1.65	0.11
DC9-48-60-24-8C-EV	B	From Leg	4.00	0.0000	81.00	1" Ice			
			4.00			No Ice	2.74	4.78	0.03
			0.00			1/2"	2.96	5.06	0.06
			1.00			Ice	3.20	5.35	0.10
4' x 3.5" Mount Pipe	A	From Leg	0.50	0.0000	81.00	1" Ice			
			0.00			No Ice	1.11	1.11	0.03
			0.00			1/2"	1.36	1.36	0.04
			0.00			Ice	1.62	1.62	0.05
4' x 3.5" Mount Pipe	B	From Leg	0.50	0.0000	81.00	1" Ice			
			0.00			No Ice	1.11	1.11	0.03
			0.00			1/2"	1.36	1.36	0.04
			0.00			Ice	1.62	1.62	0.05
4' x 3.5" Mount Pipe	C	From Leg	0.50	0.0000	81.00	1" Ice			
			0.00			No Ice	1.11	1.11	0.03
			0.00			1/2"	1.36	1.36	0.04
			0.00			Ice	1.62	1.62	0.05
(2) 6' x 2.5" Schedule 40 Pipe	A	From Leg	2.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.73	1.73	0.04
			0.00			1/2"	2.09	2.09	0.05
			0.00			Ice	2.46	2.46	0.06
(2) 6' x 2.5" Schedule 40 Pipe	B	From Leg	2.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.73	1.73	0.04
			0.00			1/2"	2.09	2.09	0.05
			0.00			Ice	2.46	2.46	0.06
(2) 6' x 2.5" Schedule 40 Pipe	C	From Leg	2.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.73	1.73	0.04
			0.00			1/2"	2.09	2.09	0.05
			0.00			Ice	2.46	2.46	0.06
6' x 2" Horizontal Mount Pipe	A	From Leg	4.00	0.0000	81.00	1" Ice			
			0.00			No Ice	1.14	0.01	0.02
			0.00			1/2"	1.76	0.04	0.03
			0.00			Ice	2.14	0.09	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
6' x 2" Horizontal Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	1.14 1.76 2.14	0.01 0.04 0.09	0.02 0.03 0.04
6' x 2" Horizontal Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	1.14 1.76 2.14	0.01 0.04 0.09	0.02 0.03 0.04
Sector Mount [SM 505-3]	C	None		0.0000	81.00	1" Ice No Ice 1/2" Ice 1" Ice	31.66 44.64 57.44	31.66 44.64 57.44	1.73 2.36 3.19

AIR 6472 B77G B77M_20240625	A	From Leg	4.00 0.00 1.00	0.0000	81.00	No Ice 1/2" Ice	4.78 5.07 5.37	2.44 2.68 2.92	0.07 0.10 0.14
AIR 6472 B77G B77M_20240625	B	From Leg	4.00 0.00 1.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	4.78 5.07 5.37	2.44 2.68 2.92	0.07 0.10 0.14
AIR 6472 B77G B77M_20240625	C	From Leg	4.00 0.00 1.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	4.78 5.07 5.37	2.44 2.68 2.92	0.07 0.10 0.14
SIMFQ-WCS-AMT- R40_CCIV2	C	From Leg	4.00 0.00 1.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	0.43 0.52 0.61	0.36 0.44 0.52	0.02 0.02 0.03
DC6-48-60-0-8C	A	From Leg	4.00 0.00 1.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	2.04 2.23 2.42	2.04 2.23 2.42	0.02 0.04 0.06
P3.5STD, 10' long Pipe mount [CommScope #MT- 547-126]	A	From Leg	4.00 0.00 0.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	3.67 4.76 5.68	3.67 4.76 5.68	0.08 0.11 0.14
P3.5STD, 10' long Pipe mount [CommScope #MT- 547-126]	B	From Leg	4.00 0.00 0.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	3.67 4.76 5.68	3.67 4.76 5.68	0.08 0.11 0.14
P3.5STD, 10' long Pipe mount [CommScope #MT- 547-126]	C	From Leg	4.00 0.00 0.00	0.0000	81.00	1" Ice No Ice 1/2" Ice	3.67 4.76 5.68	3.67 4.76 5.68	0.08 0.11 0.14

Bridge Stiffener (96" x 16" x 1.25")	A	From Leg	0.00 0.00 0.00	30.0000	30.00	1" Ice No Ice 1/2" Ice	14.46 15.07 15.68	1.67 2.57 3.49	0.51 0.57 0.63
Bridge Stiffener (96" x 16" x 1.25")	B	From Leg	0.00 0.00 0.00	30.0000	30.00	1" Ice No Ice 1/2" Ice	14.46 15.07 15.68	1.67 2.57 3.49	0.51 0.57 0.63
Bridge Stiffener (96" x 16" x 1.25")	C	From Leg	0.00 0.00 0.00	30.0000	30.00	1" Ice No Ice 1/2" Ice	14.46 15.07 15.68	1.67 2.57 3.49	0.51 0.57 0.63
Bridge Stiffener (96" x 16" x 1.25")	A	From Leg	0.00 0.00 0.00	30.0000	60.00	1" Ice No Ice 1/2" Ice	14.46 15.07 15.68	1.67 2.57 3.49	0.51 0.57 0.63
Bridge Stiffener (96" x 16" x 1.25")	B	From Leg	0.00 0.00	30.0000	60.00	1" Ice No Ice 1/2"	14.46 15.07	1.67 2.57	0.51 0.57

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
			0.00			Ice	15.68	3.49	0.63
						1" Ice			
Bridge Stiffener (96" x 16" x 1.25")	C	From Leg	0.00	30.0000	60.00	No Ice	14.46	1.67	0.51
			0.00			1/2"	15.07	2.57	0.57
			0.00			Ice	15.68	3.49	0.63
						1" Ice			

Bridge Stiffener (58.75" x 14.3125" x 1.25")	A	From Leg	0.00	60.0000	30.00	No Ice	7.42	1.02	0.22
			0.00			1/2"	7.82	1.58	0.25
			0.00			Ice	8.22	2.09	0.29
						1" Ice			
Bridge Stiffener (58.75" x 14.3125" x 1.25")	B	From Leg	0.00	60.0000	30.00	No Ice	7.42	1.02	0.22
			0.00			1/2"	7.82	1.58	0.25
			0.00			Ice	8.22	2.09	0.29
						1" Ice			
Bridge Stiffener (58.75" x 14.3125" x 1.25")	C	From Leg	0.00	60.0000	30.00	No Ice	7.42	1.02	0.22
			0.00			1/2"	7.82	1.58	0.25
			0.00			Ice	8.22	2.09	0.29
						1" Ice			
Bridge Stiffener (58.75" x 14.3125" x 1.25")	A	From Leg	0.00	60.0000	60.00	No Ice	7.42	1.02	0.22
			0.00			1/2"	7.82	1.58	0.25
			0.00			Ice	8.22	2.09	0.29
						1" Ice			
Bridge Stiffener (58.75" x 14.3125" x 1.25")	B	From Leg	0.00	60.0000	60.00	No Ice	7.42	1.02	0.22
			0.00			1/2"	7.82	1.58	0.25
			0.00			Ice	8.22	2.09	0.29
						1" Ice			
Bridge Stiffener (58.75" x 14.3125" x 1.25")	C	From Leg	0.00	60.0000	60.00	No Ice	7.42	1.02	0.22
			0.00			1/2"	7.82	1.58	0.25
			0.00			Ice	8.22	2.09	0.29
						1" Ice			

Bridge Stiffener (93" x 16" x 1.25")	A	From Leg	0.00	-30.0000	30.00	No Ice	13.92	1.61	0.35
			0.00			1/2"	14.51	2.49	0.41
			0.00			Ice	15.11	3.38	0.47
						1" Ice			
Bridge Stiffener (93" x 16" x 1.25")	B	From Leg	0.00	-30.0000	30.00	No Ice	13.92	1.61	0.35
			0.00			1/2"	14.51	2.49	0.41
			0.00			Ice	15.11	3.38	0.47
						1" Ice			
Bridge Stiffener (93" x 16" x 1.25")	C	From Leg	0.00	-30.0000	30.00	No Ice	13.92	1.61	0.35
			0.00			1/2"	14.51	2.49	0.41
			0.00			Ice	15.11	3.38	0.47
						1" Ice			

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

Comb. No.	Description
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
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	120 - 115	Pole	Max Tension	39	0.00	0.00	-0.00
			Max. Compression	26	-6.52	0.04	-0.05
			Max. Mx	20	-3.23	7.40	-0.03
			Max. My	14	-3.22	0.02	-7.40
			Max. Vy	20	-4.37	7.40	-0.03
			Max. Vx	2	-4.38	0.02	7.36
			Max. Torque	24			0.03
L2	115 - 110	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-7.12	0.04	-0.08
			Max. Mx	20	-3.64	30.02	-0.04
			Max. My	14	-3.64	0.02	-30.05
			Max. Vy	20	-4.68	30.02	-0.04
			Max. Vx	2	-4.69	0.02	30.03
			Max. Torque	24			0.03
L3	110 - 105	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-7.71	0.04	-0.10
			Max. Mx	20	-4.07	54.21	-0.05
			Max. My	2	-4.05	0.02	54.26
			Max. Vy	20	-4.99	54.21	-0.05
			Max. Vx	2	-5.00	0.02	54.26

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L4	105 - 100	Pole	Max. Torque	24			0.03
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-14.64	0.04	0.58
			Max. Mx	20	-7.91	85.42	0.15
			Max. My	2	-7.87	0.01	86.05
			Max. Vy	20	-9.51	85.42	0.15
L5	100 - 98.5	Pole	Max. Vx	2	-9.65	0.01	86.05
			Max. Torque	20			-0.67
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-14.87	0.04	0.57
			Max. Mx	20	-8.07	99.74	0.14
			Max. My	2	-8.03	0.01	100.65
L6	98.5 - 98.25	Pole	Max. Vy	20	-9.60	99.74	0.14
			Max. Vx	2	-9.82	0.01	100.65
			Max. Torque	20			-0.67
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-14.92	0.04	0.57
			Max. Mx	20	-8.11	102.15	0.14
L7	98.25 - 93.25	Pole	Max. My	2	-8.06	0.01	103.11
			Max. Vy	20	-9.61	102.15	0.14
			Max. Vx	2	-9.85	0.01	103.11
			Max. Torque	20			-0.67
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-15.89	0.04	0.54
L8	93.25 - 90	Pole	Max. Mx	20	-8.84	150.98	0.13
			Max. My	2	-8.78	0.01	153.83
			Max. Vy	20	-9.92	150.98	0.13
			Max. Vx	2	-10.44	0.01	153.83
			Max. Torque	20			-0.67
			Max Tension	1	0.00	0.00	0.00
L9	90 - 89.75	Pole	Max. Compression	26	-16.55	0.04	0.53
			Max. Mx	20	-9.31	183.84	0.12
			Max. My	2	-9.24	0.00	188.42
			Max. Vy	20	-10.30	183.84	0.12
			Max. Vx	2	-10.85	0.00	188.42
			Max. Torque	20			-0.67
L10	89.75 - 84.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.60	0.04	0.53
			Max. Mx	20	-9.35	186.42	0.12
			Max. My	2	-9.28	0.00	191.14
			Max. Vy	20	-10.34	186.42	0.12
			Max. Vx	2	-10.89	0.00	191.14
L11	84.75 - 79.75	Pole	Max. Torque	20			-0.67
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.55	0.04	0.50
			Max. Mx	20	-10.09	238.85	0.11
			Max. My	2	-10.01	-0.01	247.00
			Max. Vy	20	-10.64	238.85	0.11
L12	79.75 - 79	Pole	Max. Vx	2	-11.46	-0.01	247.00
			Max. Torque	20			-0.67
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.29	-0.28	0.46
			Max. Mx	8	-15.47	-306.34	0.18
			Max. My	2	-15.36	-0.10	318.67
L13	79 - 78.75	Pole	Max. Vy	20	-17.32	306.32	0.01
			Max. Vx	2	-18.19	-0.10	318.67
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.45	-0.29	0.47
			Max. Mx	8	-15.59	-319.34	0.21
			Max. My	2	-15.49	-0.13	332.32
			Max. Vy	20	-17.39	319.32	-0.02
			Max. Vx	2	-18.22	-0.13	332.32
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.51	-0.30	0.47

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L14	78.75 - 74.0413	Pole	Max. Mx	8	-15.65	-323.68	0.22
			Max. My	2	-15.54	-0.14	336.88
			Max. Vy	20	-17.42	323.67	-0.02
			Max. Vx	2	-18.24	-0.14	336.88
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-28.70	-0.36	0.49
			Max. Mx	20	-16.56	406.84	-0.18
			Max. My	2	-16.46	-0.33	423.93
			Max. Vy	20	-17.92	406.84	-0.18
L15	74.0413 - 73.7913	Pole	Max. Vx	2	-18.74	-0.33	423.93
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-28.77	-0.37	0.49
			Max. Mx	20	-16.62	411.32	-0.19
			Max. My	2	-16.53	-0.34	428.61
			Max. Vy	20	-17.94	411.32	-0.19
			Max. Vx	2	-18.77	-0.34	428.61
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
L16	73.7913 - 68.7913	Pole	Max. Compression	26	-30.26	-0.44	0.51
			Max. Mx	20	-17.78	502.39	-0.35
			Max. My	2	-17.69	-0.53	523.85
			Max. Vy	20	-18.50	502.39	-0.35
			Max. Vx	2	-19.33	-0.53	523.85
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-31.74	-0.51	0.53
			Max. Mx	20	-18.96	596.14	-0.51
			Max. My	2	-18.87	-0.73	621.81
L17	68.7913 - 63.7913	Pole	Max. Vy	20	-19.02	596.14	-0.51
			Max. Vx	2	-19.86	-0.73	621.81
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-32.86	-0.57	0.54
			Max. Mx	20	-19.86	668.92	-0.64
			Max. My	2	-19.78	-0.88	697.81
			Max. Vy	20	-19.40	668.92	-0.64
			Max. Vx	2	-20.25	-0.88	697.81
			Max. Torque	12			0.85
L18	63.7913 - 60	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-36.08	-0.57	0.54
			Max. Mx	20	-22.49	674.17	-0.64
			Max. My	2	-22.40	-0.89	703.29
			Max. Vy	20	-21.05	674.17	-0.64
			Max. Vx	2	-21.92	-0.89	703.29
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.57	-0.66	0.56
			Max. Mx	20	-23.70	780.07	-0.81
L19	60 - 59.75	Pole	Max. My	2	-23.61	-1.09	814.37
			Max. Vy	20	-21.33	780.07	-0.81
			Max. Vx	2	-22.52	-1.09	814.37
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.06	-0.75	0.58
			Max. Mx	20	-24.94	887.30	-0.97
			Max. My	2	-24.84	-1.29	928.35
			Max. Vy	20	-21.59	887.30	-0.97
			Max. Vx	2	-23.09	-1.29	928.35
L20	59.75 - 54.75	Pole	Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.57	-0.66	0.56
			Max. Mx	20	-23.70	780.07	-0.81
			Max. My	2	-23.61	-1.09	814.37
			Max. Vy	20	-21.33	780.07	-0.81
			Max. Vx	2	-22.52	-1.09	814.37
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.06	-0.75	0.58
L21	54.75 - 49.75	Pole	Max. Mx	20	-24.94	887.30	-0.97
			Max. My	2	-24.84	-1.29	928.35
			Max. Vy	20	-21.59	887.30	-0.97
			Max. Vx	2	-23.09	-1.29	928.35
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.06	-0.75	0.58
			Max. Mx	20	-24.94	887.30	-0.97
			Max. My	2	-24.84	-1.29	928.35
			Max. Vy	20	-21.59	887.30	-0.97
L22	49.75 - 47.83	Pole	Max. Vx	2	-23.09	-1.29	928.35
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.06	-0.75	0.58
			Max. Mx	20	-24.94	887.30	-0.97
			Max. My	2	-24.84	-1.29	928.35
			Max. Vy	20	-21.59	887.30	-0.97
			Max. Vx	2	-23.09	-1.29	928.35
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L23	47.83 - 47.58	Pole	Max. Compression	26	-39.65	-0.78	0.59
			Max. Mx	20	-25.40	928.93	-1.04
			Max. My	2	-25.31	-1.37	972.87
			Max. Vy	20	-21.81	928.93	-1.04
			Max. Vx	2	-23.32	-1.37	972.87
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.74	-0.79	0.59
L24	47.58 - 43	Pole	Max. Mx	20	-25.49	934.38	-1.04
			Max. My	2	-25.39	-1.38	978.70
			Max. Vy	20	-21.82	934.38	-1.04
			Max. Vx	2	-23.33	-1.38	978.70
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.33	-0.87	0.61
			Max. Mx	20	-26.77	1035.47	-1.20
L25	43 - 42.75	Pole	Max. My	2	-26.69	-1.57	1086.73
			Max. Vy	20	-22.35	1035.47	-1.20
			Max. Vx	2	-23.86	-1.57	1086.73
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.43	-0.87	0.61
			Max. Mx	20	-26.86	1041.05	-1.20
			Max. My	2	-26.78	-1.58	1092.69
L26	42.75 - 37.75	Pole	Max. Vy	20	-22.37	1041.05	-1.20
			Max. Vx	2	-23.88	-1.58	1092.69
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.46	-0.96	0.64
			Max. Mx	20	-28.52	1154.27	-1.37
			Max. My	2	-28.44	-1.78	1213.52
			Max. Vy	20	-22.94	1154.27	-1.37
L27	37.75 - 34.5	Pole	Max. Vx	2	-24.46	-1.78	1213.52
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.78	-1.02	0.65
			Max. Mx	20	-29.60	1229.35	-1.47
			Max. My	2	-29.53	-1.91	1293.56
			Max. Vy	20	-23.29	1229.35	-1.47
			Max. Vx	2	-24.82	-1.91	1293.56
L28	34.5 - 34.25	Pole	Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.87	-1.02	0.65
			Max. Mx	20	-29.68	1235.17	-1.48
			Max. My	2	-29.61	-1.92	1299.76
			Max. Vy	20	-23.31	1235.17	-1.48
			Max. Vx	2	-24.83	-1.92	1299.76
			Max. Torque	12			0.85
L29	34.25 - 30	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-46.37	-1.09	0.67
			Max. Mx	20	-30.90	1335.05	-1.62
			Max. My	2	-30.84	-2.09	1406.14
			Max. Vy	20	-23.72	1335.05	-1.62
			Max. Vx	2	-25.25	-2.09	1406.14
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
L30	30 - 29.75	Pole	Max. Compression	26	-51.13	-1.10	0.67
			Max. Mx	20	-34.83	1341.53	-1.63
			Max. My	2	-34.77	-2.10	1413.01
			Max. Vy	20	-25.96	1341.53	-1.63
			Max. Vx	2	-27.50	-2.10	1413.01
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.59	-1.18	0.69
L31	29.75 - 25.583	Pole	Max. Mx	20	-36.06	1450.59	-1.77
			Max. My	2	-36.00	-2.27	1528.55
			Max. Vy	2			

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L32	25.583 - 25.333	Pole	Max. Vy	20	-26.42	1450.59	-1.77
			Max. Vx	2	-27.97	-2.27	1528.55
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.69	-1.19	0.69
L33	25.333 - 20.75	Pole	Max. Mx	20	-36.15	1457.19	-1.78
			Max. My	2	-36.09	-2.28	1535.55
			Max. Vy	20	-26.43	1457.19	-1.78
			Max. Vx	2	-27.99	-2.28	1535.55
			Max. Torque	12			0.85
L34	20.75 - 20.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.52	-1.28	0.71
			Max. Mx	20	-37.67	1579.42	-1.92
			Max. My	2	-37.62	-2.46	1664.95
			Max. Vy	20	-26.94	1579.42	-1.92
L35	20.5 - 17.583	Pole	Max. Vx	2	-28.50	-2.46	1664.95
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.63	-1.28	0.71
			Max. Mx	20	-37.77	1586.15	-1.93
L36	17.583 - 17.333	Pole	Max. My	2	-37.73	-2.48	1672.07
			Max. Vy	20	-26.95	1586.15	-1.93
			Max. Vx	2	-28.51	-2.48	1672.07
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
L37	17.333 - 17.083	Pole	Max. Compression	26	-55.99	-1.34	0.72
			Max. Mx	20	-38.89	1665.21	-2.03
			Max. My	2	-38.84	-2.59	1755.71
			Max. Vy	20	-27.29	1665.21	-2.03
			Max. Vx	2	-28.85	-2.59	1755.71
L38	17.083 - 13.667	Pole	Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.11	-1.35	0.72
			Max. Mx	20	-39.00	1672.03	-2.04
			Max. My	2	-38.96	-2.60	1762.93
L39	13.667 - 13.417	Pole	Max. Vy	20	-27.30	1672.03	-2.04
			Max. Vx	2	-28.87	-2.60	1762.93
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.23	-1.35	0.72
L40	13.417 - 8.417	Pole	Max. Mx	20	-39.10	1678.86	-2.04
			Max. My	2	-39.06	-2.61	1770.15
			Max. Vy	20	-27.33	1678.86	-2.04
			Max. Vx	2	-28.90	-2.61	1770.15
			Max. Torque	12			0.85
L40	13.417 - 8.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.89	-1.42	0.72
			Max. Mx	20	-40.50	1772.75	-2.16
			Max. My	2	-40.47	-2.75	1869.45
			Max. Vy	20	-27.68	1772.75	-2.16
L40	13.417 - 8.417	Pole	Max. Vx	2	-29.26	-2.75	1869.45
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.00	-1.43	0.72
			Max. Mx	20	-40.61	1779.67	-2.16
L40	13.417 - 8.417	Pole	Max. My	2	-40.57	-2.76	1876.76
			Max. Vy	20	-27.69	1779.67	-2.16
			Max. Vx	2	-29.27	-2.76	1876.76
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
L40	13.417 - 8.417	Pole	Max. Compression	26	-60.29	-1.51	0.71

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L41	8.417 - 6.083	Pole	Max. Mx	20	-42.56	1919.20	-2.33
			Max. My	2	-42.54	-2.96	2024.28
			Max. Vy	20	-28.15	1919.20	-2.33
			Max. Vx	2	-29.75	-2.96	2024.28
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.35	-1.54	0.72
			Max. Mx	20	-43.49	1985.09	-2.40
			Max. My	2	-43.47	-3.06	2093.92
			Max. Vy	20	-28.36	1985.09	-2.40
L42	6.083 - 5.833	Pole	Max. Vx	2	-29.96	-3.06	2093.92
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.48	-1.55	0.72
			Max. Mx	20	-43.61	1992.18	-2.41
			Max. My	2	-43.60	-3.07	2101.41
			Max. Vy	20	-28.36	1992.18	-2.41
			Max. Vx	2	-29.97	-3.07	2101.41
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
L43	5.833 - 5.5	Pole	Max. Compression	26	-61.65	-1.55	0.72
			Max. Mx	20	-43.76	2001.62	-2.42
			Max. My	2	-43.75	-3.08	2111.39
			Max. Vy	20	-28.40	2001.62	-2.42
			Max. Vx	2	-30.00	-3.08	2111.39
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.77	-1.56	0.72
			Max. Mx	20	-43.87	2008.72	-2.43
			Max. My	2	-43.86	-3.09	2118.89
L44	5.5 - 5.25	Pole	Max. Vy	20	-28.42	2008.72	-2.43
			Max. Vx	2	-30.02	-3.09	2118.89
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.96	-1.60	0.73
			Max. Mx	20	-45.84	2151.85	-2.59
			Max. My	2	-45.84	-3.27	2270.09
			Max. Vy	20	-28.86	2151.85	-2.59
			Max. Vx	2	-30.47	-3.27	2270.09
			Max. Torque	12			0.85
L45	5.25 - 0.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.06	-1.60	0.73
			Max. Mx	20	-45.95	2159.06	-2.60
			Max. My	2	-45.95	-3.28	2277.71
			Max. Vy	20	-28.86	2159.06	-2.60
			Max. Vx	2	-30.48	-3.28	2277.71
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.06	-1.60	0.73
			Max. Mx	20	-45.95	2159.06	-2.60
L46	0.25 - 0	Pole	Max. My	2	-45.95	-3.28	2277.71
			Max. Vy	20	-28.86	2159.06	-2.60
			Max. Vx	2	-30.48	-3.28	2277.71
			Max. Torque	12			0.85
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.06	-1.60	0.73
			Max. Mx	20	-45.95	2159.06	-2.60
			Max. My	2	-45.95	-3.28	2277.71
			Max. Vy	20	-28.86	2159.06	-2.60
			Max. Vx	2	-30.48	-3.28	2277.71

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	64.06	0.00	0.00
	Max. H _x	20	45.95	28.86	-0.03
	Max. H _z	2	45.95	-0.03	30.48
	Max. M _x	2	2277.71	-0.03	30.48
	Max. M _z	8	2146.90	-28.54	0.03
	Max. Torsion	12	0.85	-14.39	-25.09
	Min. Vert	3	34.46	-0.03	30.48
	Min. H _x	8	45.95	-28.54	0.03
	Min. H _z	14	45.95	0.03	-28.80
	Min. M _x	14	-2167.50	0.03	-28.80

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. M _z	20	-2159.06	28.86	-0.03
	Min. Torsion	24	-0.85	14.24	24.82

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	38.29	0.00	0.00	-0.13	-0.42	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	45.95	0.03	-30.48	-2277.71	-3.28	0.65
0.9 Dead+1.0 Wind 0 deg - No Ice	34.46	0.03	-30.48	-2256.88	-3.12	0.65
1.2 Dead+1.0 Wind 30 deg - No Ice	45.95	14.46	-25.14	-1884.40	-1082.23	0.28
0.9 Dead+1.0 Wind 30 deg - No Ice	34.46	14.46	-25.14	-1867.08	-1072.19	0.28
1.2 Dead+1.0 Wind 60 deg - No Ice	45.95	24.79	-14.41	-1086.20	-1865.42	-0.17
0.9 Dead+1.0 Wind 60 deg - No Ice	34.46	24.79	-14.41	-1076.18	-1848.17	-0.17
1.2 Dead+1.0 Wind 90 deg - No Ice	45.95	28.54	-0.03	-2.91	-2146.90	-0.57
0.9 Dead+1.0 Wind 90 deg - No Ice	34.46	28.54	-0.03	-2.85	-2127.05	-0.57
1.2 Dead+1.0 Wind 120 deg - No Ice	45.95	26.23	15.20	1136.32	-1958.30	-0.82
0.9 Dead+1.0 Wind 120 deg - No Ice	34.46	26.23	15.20	1125.99	-1940.31	-0.82
1.2 Dead+1.0 Wind 150 deg - No Ice	45.95	14.39	25.09	1881.04	-1077.29	-0.85
0.9 Dead+1.0 Wind 150 deg - No Ice	34.46	14.39	25.09	1863.83	-1067.30	-0.85
1.2 Dead+1.0 Wind 180 deg - No Ice	45.95	-0.03	28.80	2167.50	2.23	-0.65
0.9 Dead+1.0 Wind 180 deg - No Ice	34.46	-0.03	28.80	2147.64	2.34	-0.65
1.2 Dead+1.0 Wind 210 deg - No Ice	45.95	-14.29	24.85	1872.11	1074.27	-0.28
0.9 Dead+1.0 Wind 210 deg - No Ice	34.46	-14.29	24.85	1854.94	1064.54	-0.28
1.2 Dead+1.0 Wind 240 deg - No Ice	45.95	-26.24	15.24	1140.76	1959.42	0.17
0.9 Dead+1.0 Wind 240 deg - No Ice	34.46	-26.24	15.24	1130.39	1941.68	0.17
1.2 Dead+1.0 Wind 270 deg - No Ice	45.95	-28.86	0.03	2.60	2159.06	0.57
0.9 Dead+1.0 Wind 270 deg - No Ice	34.46	-28.86	0.03	2.62	2139.42	0.57
1.2 Dead+1.0 Wind 300 deg - No Ice	45.95	-24.76	-14.35	-1081.22	1861.27	0.82
0.9 Dead+1.0 Wind 300 deg - No Ice	34.46	-24.76	-14.35	-1071.25	1844.32	0.82
1.2 Dead+1.0 Wind 330 deg - No Ice	45.95	-14.24	-24.82	-1869.44	1069.37	0.85
0.9 Dead+1.0 Wind 330 deg - No Ice	34.46	-14.24	-24.82	-1852.22	1059.68	0.85
1.2 Dead+1.0 Ice+1.0 Temp	64.06	0.00	0.00	-0.73	-1.60	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	64.06	0.01	-6.59	-528.98	-2.21	0.12
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	64.06	3.27	-5.68	-456.74	-263.78	0.04
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	64.06	5.65	-3.28	-264.40	-455.23	-0.05
1.2 Dead+1.0 Wind 90	64.06	6.52	-0.01	-1.32	-524.77	-0.13

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120	64.06	5.68	3.29	262.84	-456.35	-0.17
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 150	64.06	3.25	5.67	454.57	-262.86	-0.17
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 180	64.06	-0.01	6.56	525.56	-1.18	-0.12
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210	64.06	-3.26	5.67	454.79	260.19	-0.04
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 240	64.06	-5.68	3.30	263.68	453.38	0.05
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270	64.06	-6.52	0.01	-0.29	521.65	0.13
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	64.06	-5.65	-3.27	-263.47	451.25	0.17
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	64.06	-3.25	-5.67	-455.84	259.27	0.17
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	38.29	0.01	-7.18	-533.53	-1.08	0.15
Dead+Wind 30 deg - Service	38.29	3.40	-5.92	-441.38	-253.75	0.07
Dead+Wind 60 deg - Service	38.29	5.84	-3.39	-254.45	-437.15	-0.04
Dead+Wind 90 deg - Service	38.29	6.72	-0.01	-0.78	-503.06	-0.14
Dead+Wind 120 deg - Service	38.29	6.17	3.58	266.03	-458.94	-0.19
Dead+Wind 150 deg - Service	38.29	3.39	5.91	440.40	-252.59	-0.20
Dead+Wind 180 deg - Service	38.29	-0.01	6.78	507.48	0.21	-0.15
Dead+Wind 210 deg - Service	38.29	-3.36	5.85	438.31	251.26	-0.07
Dead+Wind 240 deg - Service	38.29	-6.18	3.59	267.07	458.58	0.04
Dead+Wind 270 deg - Service	38.29	-6.80	0.01	0.51	505.29	0.14
Dead+Wind 300 deg - Service	38.29	-5.83	-3.38	-253.29	435.55	0.19
Dead+Wind 330 deg - Service	38.29	-3.35	-5.84	-437.87	250.11	0.20

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	0.00	-38.29	0.00	0.00	38.29	0.00	0.000%
2	0.03	-45.95	-30.48	-0.03	45.95	30.48	0.000%
3	0.03	-34.46	-30.48	-0.03	34.46	30.48	0.000%
4	14.46	-45.95	-25.14	-14.46	45.95	25.14	0.000%
5	14.46	-34.46	-25.14	-14.46	34.46	25.14	0.000%
6	24.79	-45.95	-14.41	-24.79	45.95	14.41	0.000%
7	24.79	-34.46	-14.41	-24.79	34.46	14.41	0.000%
8	28.54	-45.95	-0.03	-28.54	45.95	0.03	0.000%
9	28.54	-34.46	-0.03	-28.54	34.46	0.03	0.000%
10	26.23	-45.95	15.20	-26.23	45.95	-15.20	0.000%
11	26.23	-34.46	15.20	-26.23	34.46	-15.20	0.000%
12	14.39	-45.95	25.09	-14.39	45.95	-25.09	0.000%
13	14.39	-34.46	25.09	-14.39	34.46	-25.09	0.000%
14	-0.03	-45.95	28.80	0.03	45.95	-28.80	0.000%
15	-0.03	-34.46	28.80	0.03	34.46	-28.80	0.000%
16	-14.29	-45.95	24.85	14.29	45.95	-24.85	0.000%
17	-14.29	-34.46	24.85	14.29	34.46	-24.85	0.000%
18	-26.24	-45.95	15.24	26.24	45.95	-15.24	0.000%
19	-26.24	-34.46	15.24	26.24	34.46	-15.24	0.000%
20	-28.86	-45.95	0.03	28.86	45.95	-0.03	0.000%
21	-28.86	-34.46	0.03	28.86	34.46	-0.03	0.000%
22	-24.76	-45.95	-14.35	24.76	45.95	14.35	0.000%
23	-24.76	-34.46	-14.35	24.76	34.46	14.35	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
24	-14.24	-45.95	-24.82	14.24	45.95	24.82	0.000%
25	-14.24	-34.46	-24.82	14.24	34.46	24.82	0.000%
26	0.00	-64.06	0.00	0.00	64.06	0.00	0.000%
27	0.01	-64.06	-6.59	-0.01	64.06	6.59	0.000%
28	3.27	-64.06	-5.68	-3.27	64.06	5.68	0.000%
29	5.65	-64.06	-3.28	-5.65	64.06	3.28	0.000%
30	6.52	-64.06	-0.01	-6.52	64.06	0.01	0.000%
31	5.68	-64.06	3.29	-5.68	64.06	-3.29	0.000%
32	3.25	-64.06	5.67	-3.25	64.06	-5.67	0.000%
33	-0.01	-64.06	6.56	0.01	64.06	-6.56	0.000%
34	-3.26	-64.06	5.67	3.26	64.06	-5.67	0.000%
35	-5.68	-64.06	3.30	5.68	64.06	-3.30	0.000%
36	-6.52	-64.06	0.01	6.52	64.06	-0.01	0.000%
37	-5.65	-64.06	-3.27	5.65	64.06	3.27	0.000%
38	-3.25	-64.06	-5.67	3.25	64.06	5.67	0.000%
39	0.01	-38.29	-7.18	-0.01	38.29	7.18	0.000%
40	3.40	-38.29	-5.92	-3.40	38.29	5.92	0.000%
41	5.84	-38.29	-3.39	-5.84	38.29	3.39	0.000%
42	6.72	-38.29	-0.01	-6.72	38.29	0.01	0.000%
43	6.17	-38.29	3.58	-6.17	38.29	-3.58	0.000%
44	3.39	-38.29	5.91	-3.39	38.29	-5.91	0.000%
45	-0.01	-38.29	6.78	0.01	38.29	-6.78	0.000%
46	-3.36	-38.29	5.85	3.36	38.29	-5.85	0.000%
47	-6.18	-38.29	3.59	6.18	38.29	-3.59	0.000%
48	-6.80	-38.29	0.01	6.80	38.29	-0.01	0.000%
49	-5.83	-38.29	-3.38	5.83	38.29	3.38	0.000%
50	-3.35	-38.29	-5.84	3.35	38.29	5.84	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	0.00023695
3	Yes	5	0.00000001	0.00010968
4	Yes	6	0.00000001	0.00024893
5	Yes	6	0.00000001	0.00008447
6	Yes	6	0.00000001	0.00024880
7	Yes	6	0.00000001	0.00008453
8	Yes	5	0.00000001	0.00024914
9	Yes	5	0.00000001	0.00011668
10	Yes	6	0.00000001	0.00025966
11	Yes	6	0.00000001	0.00008681
12	Yes	6	0.00000001	0.00025300
13	Yes	6	0.00000001	0.00008609
14	Yes	5	0.00000001	0.00020320
15	Yes	5	0.00000001	0.00009428
16	Yes	6	0.00000001	0.00024411
17	Yes	6	0.00000001	0.00008288
18	Yes	6	0.00000001	0.00026530
19	Yes	6	0.00000001	0.00008882
20	Yes	5	0.00000001	0.00021920
21	Yes	5	0.00000001	0.00010186
22	Yes	6	0.00000001	0.00025219
23	Yes	6	0.00000001	0.00008593
24	Yes	6	0.00000001	0.00023778
25	Yes	6	0.00000001	0.00008064
26	Yes	4	0.00000001	0.00000001
27	Yes	6	0.00000001	0.00015263
28	Yes	6	0.00000001	0.00017054
29	Yes	6	0.00000001	0.00017024
30	Yes	6	0.00000001	0.00015137
31	Yes	6	0.00000001	0.00016927
32	Yes	6	0.00000001	0.00016957
33	Yes	6	0.00000001	0.00015136

34	Yes	6	0.00000001	0.00016851
35	Yes	6	0.00000001	0.00016868
36	Yes	6	0.00000001	0.00015042
37	Yes	6	0.00000001	0.00016903
38	Yes	6	0.00000001	0.00016884
39	Yes	4	0.00000001	0.00052289
40	Yes	5	0.00000001	0.00008301
41	Yes	5	0.00000001	0.00008314
42	Yes	4	0.00000001	0.00051061
43	Yes	5	0.00000001	0.00008407
44	Yes	5	0.00000001	0.00008809
45	Yes	4	0.00000001	0.00049711
46	Yes	5	0.00000001	0.00007903
47	Yes	5	0.00000001	0.00008793
48	Yes	4	0.00000001	0.00050592
49	Yes	5	0.00000001	0.00008760
50	Yes	5	0.00000001	0.00007479

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	120 - 115	14.981	39	1.0018	0.0016
L2	115 - 110	13.932	39	1.0015	0.0016
L3	110 - 105	12.885	39	0.9969	0.0016
L4	105 - 100	11.847	39	0.9863	0.0016
L5	100 - 98.5	10.822	39	0.9691	0.0015
L6	98.5 - 98.25	10.519	39	0.9620	0.0015
L7	98.25 - 93.25	10.469	39	0.9611	0.0015
L8	93.25 - 90	9.472	39	0.9398	0.0013
L9	90 - 89.75	8.839	39	0.9213	0.0013
L10	89.75 - 84.75	8.791	39	0.9197	0.0012
L11	84.75 - 79.75	7.846	39	0.8822	0.0011
L12	79.75 - 79	6.946	39	0.8346	0.0010
L13	79 - 78.75	6.816	39	0.8262	0.0010
L14	78.75 - 74.0413	6.773	39	0.8241	0.0010
L15	74.0413 - 73.7913	5.982	39	0.7790	0.0008
L16	73.7913 - 68.7913	5.941	39	0.7769	0.0008
L17	68.7913 - 63.7913	5.151	39	0.7299	0.0007
L18	63.7913 - 60	4.415	39	0.6734	0.0006
L19	60 - 59.75	3.900	39	0.6240	0.0005
L20	59.75 - 54.75	3.867	39	0.6218	0.0005
L21	54.75 - 49.75	3.240	39	0.5746	0.0005
L22	49.75 - 47.83	2.666	39	0.5204	0.0004
L23	47.83 - 47.58	2.462	39	0.4976	0.0004
L24	47.58 - 43	2.436	39	0.4951	0.0004
L25	43 - 42.75	1.984	39	0.4464	0.0003
L26	42.75 - 37.75	1.960	39	0.4441	0.0003
L27	37.75 - 34.5	1.521	39	0.3951	0.0003
L28	34.5 - 34.25	1.263	39	0.3605	0.0002
L29	34.25 - 30	1.245	39	0.3572	0.0002
L30	30 - 29.75	0.953	39	0.2979	0.0002
L31	29.75 - 25.583	0.937	39	0.2955	0.0002
L32	25.583 - 25.333	0.697	39	0.2531	0.0001
L33	25.333 - 20.75	0.684	39	0.2509	0.0001
L34	20.75 - 20.5	0.464	39	0.2076	0.0001
L35	20.5 - 17.583	0.453	39	0.2056	0.0001
L36	17.583 - 17.333	0.335	39	0.1809	0.0001
L37	17.333 - 17.083	0.326	39	0.1787	0.0001
L38	17.083 - 13.667	0.316	39	0.1765	0.0001
L39	13.667 - 13.417	0.201	39	0.1454	0.0001
L40	13.417 - 8.417	0.193	39	0.1427	0.0001
L41	8.417 - 6.083	0.073	39	0.0862	0.0000
L42	6.083 - 5.833	0.038	39	0.0583	0.0000

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L43	5.833 - 5.5	0.035	39	0.0561	0.0000
L44	5.5 - 5.25	0.031	39	0.0533	0.0000
L45	5.25 - 0.25	0.028	39	0.0509	0.0000
L46	0.25 - 0	0.000	1	0.0000	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
116.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	39	14.142	1.0018	0.0016	132579
103.00	RHSDC-3315-PF-48	39	11.435	0.9808	0.0016	17240
101.00	MT6407-77A	39	11.026	0.9737	0.0016	15081
81.00	DMP65R-BU8D w/ Mount Pipe	39	7.167	0.8485	0.0011	5920
60.00	Bridge Stiffener (96" x 16" x 1.25")	39	3.900	0.6240	0.0005	5150
30.00	Bridge Stiffener (96" x 16" x 1.25")	39	0.953	0.2979	0.0002	4766

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	120 - 115	64.019	2	4.2843	0.0066
L2	115 - 110	59.537	2	4.2830	0.0066
L3	110 - 105	55.065	2	4.2629	0.0066
L4	105 - 100	50.626	2	4.2175	0.0066
L5	100 - 98.5	46.249	2	4.1441	0.0064
L6	98.5 - 98.25	44.953	2	4.1138	0.0061
L7	98.25 - 93.25	44.738	2	4.1102	0.0061
L8	93.25 - 90	40.482	2	4.0192	0.0056
L9	90 - 89.75	37.774	2	3.9402	0.0053
L10	89.75 - 84.75	37.568	2	3.9333	0.0052
L11	84.75 - 79.75	33.533	2	3.7730	0.0047
L12	79.75 - 79	29.687	2	3.5692	0.0043
L13	79 - 78.75	29.129	2	3.5335	0.0042
L14	78.75 - 74.0413	28.945	2	3.5244	0.0041
L15	74.0413 - 73.7913	25.562	2	3.3314	0.0036
L16	73.7913 - 68.7913	25.388	2	3.3224	0.0035
L17	68.7913 - 63.7913	22.013	2	3.1213	0.0031
L18	63.7913 - 60	18.869	2	2.8793	0.0026
L19	60 - 59.75	16.666	2	2.6680	0.0023
L20	59.75 - 54.75	16.526	2	2.6586	0.0023
L21	54.75 - 49.75	13.846	2	2.4566	0.0020
L22	49.75 - 47.83	11.393	2	2.2245	0.0017
L23	47.83 - 47.58	10.518	2	2.1273	0.0016
L24	47.58 - 43	10.407	2	2.1166	0.0015
L25	43 - 42.75	8.476	2	1.9082	0.0013
L26	42.75 - 37.75	8.376	2	1.8983	0.0013
L27	37.75 - 34.5	6.496	2	1.6888	0.0011
L28	34.5 - 34.25	5.397	2	1.5407	0.0010
L29	34.25 - 30	5.316	2	1.5264	0.0010
L30	30 - 29.75	4.069	2	1.2731	0.0008
L31	29.75 - 25.583	4.003	2	1.2627	0.0008
L32	25.583 - 25.333	2.979	2	1.0815	0.0006
L33	25.333 - 20.75	2.922	2	1.0719	0.0006

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L34	20.75 - 20.5	1.981	2	0.8869	0.0005
L35	20.5 - 17.583	1.935	2	0.8781	0.0005
L36	17.583 - 17.333	1.430	2	0.7728	0.0004
L37	17.333 - 17.083	1.390	2	0.7634	0.0004
L38	17.083 - 13.667	1.351	2	0.7540	0.0004
L39	13.667 - 13.417	0.858	2	0.6211	0.0003
L40	13.417 - 8.417	0.826	2	0.6095	0.0003
L41	8.417 - 6.083	0.313	2	0.3679	0.0002
L42	6.083 - 5.833	0.162	2	0.2489	0.0001
L43	5.833 - 5.5	0.149	2	0.2397	0.0001
L44	5.5 - 5.25	0.133	2	0.2274	0.0001
L45	5.25 - 0.25	0.121	2	0.2175	0.0001
L46	0.25 - 0	0.000	2	0.0107	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
116.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	2	60.433	4.2842	0.0066	31615
103.00	RHSDC-3315-PF-48	2	48.866	4.1940	0.0067	4070
101.00	MT6407-77A	2	47.118	4.1636	0.0066	3567
81.00	DMP65R-BU8D w/ Mount Pipe	2	30.628	3.6287	0.0045	1394
60.00	Bridge Stiffener (96" x 16" x 1.25")	2	16.666	2.6680	0.0023	1208
30.00	Bridge Stiffener (96" x 16" x 1.25")	2	4.069	1.2731	0.0008	1115

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	120 - 115 (1)	P24x0.25	5.00	0.00	0.0	18.653 2	-3.21	662.26	0.005
L2	115 - 110 (2)	P24x0.25	5.00	0.00	0.0	18.653 2	-3.63	662.26	0.005
L3	110 - 105 (3)	P24x0.25	5.00	0.00	0.0	18.653 2	-4.05	662.26	0.006
L4	105 - 100 (4)	P24x0.25	5.00	0.00	0.0	18.653 2	-7.87	662.26	0.012
L5	100 - 98.5 (5)	P24x0.25	1.50	0.00	0.0	18.653 2	-8.03	662.26	0.012
L6	98.5 - 98.25 (6)	P24x0.3875	0.25	0.00	0.0	28.745 1	-8.06	1086.56	0.007
L7	98.25 - 93.25 (7)	P24x0.3875	5.00	0.00	0.0	28.745 1	-8.78	1086.56	0.008
L8	93.25 - 90 (8)	P24x0.3875	3.25	0.00	0.0	28.745 1	-9.24	1086.56	0.009
L9	90 - 89.75 (9)	P24x0.375	0.25	0.00	0.0	27.832 5	-9.28	1052.07	0.009
L10	89.75 - 84.75 (10)	P24x0.375	5.00	0.00	0.0	27.832 5	-10.01	1052.07	0.010
L11	84.75 - 79.75 (11)	P24x0.375	5.00	0.00	0.0	27.832 5	-15.36	1052.07	0.015
L12	79.75 - 79 (12)	P24x0.375	0.75	0.00	0.0	27.832 5	-15.49	1052.07	0.015

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L13	79 - 78.75 (13)	P24x0.51875	0.25	0.00	0.0	38.267 4	-15.54	1446.51	0.011
L14	78.75 - 74.0413 (14)	P24x0.51875	4.71	0.00	0.0	38.267 4	-16.46	1446.51	0.011
L15	74.0413 - 73.7913 (15)	P24x0.675	0.25	0.00	0.0	49.462 4	-16.53	1869.68	0.009
L16	73.7913 - 68.7913 (16)	P24x0.675	5.00	0.00	0.0	49.462 4	-17.69	1869.68	0.009
L17	68.7913 - 63.7913 (17)	P24x0.675	5.00	0.00	0.0	49.462 4	-18.87	1869.68	0.010
L18	63.7913 - 60 (18)	P24x0.675	3.79	0.00	0.0	49.462 4	-19.77	1869.68	0.011
L19	60 - 59.75 (19)	P30x0.53125	0.25	0.00	0.0	49.182 5	-22.40	1859.10	0.012
L20	59.75 - 54.75 (20)	P30x0.53125	5.00	0.00	0.0	49.182 5	-23.61	1859.10	0.013
L21	54.75 - 49.75 (21)	P30x0.53125	5.00	0.00	0.0	49.182 5	-24.84	1859.10	0.013
L22	49.75 - 47.83 (22)	P30x0.53125	1.92	0.00	0.0	49.182 5	-25.31	1859.10	0.014
L23	47.83 - 47.58 (23)	P30x0.65	0.25	0.00	0.0	59.933 7	-25.39	2265.50	0.011
L24	47.58 - 43 (24)	P30x0.65	4.58	0.00	0.0	59.933 7	-26.69	2265.50	0.012
L25	43 - 42.75 (25)	P30x0.8	0.25	0.00	0.0	73.387 6	-26.78	2774.05	0.010
L26	42.75 - 37.75 (26)	P30x0.8	5.00	0.00	0.0	73.387 6	-28.44	2774.05	0.010
L27	37.75 - 34.5 (27)	P30x0.8	3.25	0.00	0.0	73.387 6	-29.53	2774.05	0.011
L28	34.5 - 34.25 (28)	P30x0.65	0.25	0.00	0.0	59.933 7	-29.61	2265.50	0.013
L29	34.25 - 30 (29)	P30x0.65	4.25	0.00	0.0	59.933 7	-30.84	2265.50	0.014
L30	30 - 29.75 (30)	P36x0.55	0.25	0.00	0.0	61.253 2	-34.77	2315.37	0.015
L31	29.75 - 25.583 (31)	P36x0.55	4.17	0.00	0.0	61.253 2	-36.00	2315.37	0.016
L32	25.583 - 25.333 (32)	P36x0.65	0.25	0.00	0.0	72.185 9	-36.09	2728.63	0.013
L33	25.333 - 20.75 (33)	P36x0.65	4.58	0.00	0.0	72.185 9	-37.62	2728.63	0.014
L34	20.75 - 20.5 (34)	P36x0.7875	0.25	0.00	0.0	87.115 9	-37.73	3292.98	0.011
L35	20.5 - 17.583 (35)	P36x0.7875	2.92	0.00	0.0	87.115 9	-38.84	3292.98	0.012
L36	17.583 - 17.333 (36)	P36x0.775	0.25	0.00	0.0	85.763 5	-38.96	3241.86	0.012
L37	17.333 - 17.083 (37)	P36x0.775	0.25	0.00	0.0	85.763 5	-39.06	3241.86	0.012
L38	17.083 - 13.667 (38)	P36x0.775	3.42	0.00	0.0	85.763 5	-40.47	3241.86	0.012
L39	13.667 - 13.417 (39)	P36x0.6625	0.25	0.00	0.0	73.548 1	-40.57	2780.12	0.015
L40	13.417 - 8.417 (40)	P36x0.6625	5.00	0.00	0.0	73.548 1	-42.54	2780.12	0.015
L41	8.417 - 6.083 (41)	P36x0.6625	2.33	0.00	0.0	73.548 1	-43.47	2780.12	0.016
L42	6.083 - 5.833 (42)	P36x0.9625	0.25	0.00	0.0	105.94 60	-43.60	4004.75	0.011
L43	5.833 - 5.5 (43)	P36x0.9625	0.33	0.00	0.0	105.94 60	-43.75	4004.75	0.011
L44	5.5 - 5.25 (44)	P36x0.8875	0.25	0.00	0.0	97.899 4	-43.86	3700.60	0.012
L45	5.25 - 0.25 (45)	P36x0.8875	5.00	0.00	0.0	97.899 4	-45.84	3700.60	0.012
L46	0.25 - 0 (46)	P36x0.8875	0.25	0.00	0.0	97.899 4	-45.95	3700.60	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	120 - 115 (1)	P24x0.25	7.42	396.68	0.019	0.00	396.68	0.000
L2	115 - 110 (2)	P24x0.25	30.10	396.68	0.076	0.00	396.68	0.000
L3	110 - 105 (3)	P24x0.25	54.34	396.68	0.137	0.00	396.68	0.000
L4	105 - 100 (4)	P24x0.25	86.05	396.68	0.217	0.00	396.68	0.000
L5	100 - 98.5 (5)	P24x0.25	100.65	396.68	0.254	0.00	396.68	0.000
L6	98.5 - 98.25 (6)	P24x0.3875	103.11	647.41	0.159	0.00	647.41	0.000
L7	98.25 - 93.25 (7)	P24x0.3875	153.83	647.41	0.238	0.00	647.41	0.000
L8	93.25 - 90 (8)	P24x0.3875	188.42	647.41	0.291	0.00	647.41	0.000
L9	90 - 89.75 (9)	P24x0.375	191.14	623.72	0.306	0.00	623.72	0.000
L10	89.75 - 84.75 (10)	P24x0.375	247.00	623.72	0.396	0.00	623.72	0.000
L11	84.75 - 79.75 (11)	P24x0.375	318.67	623.72	0.511	0.00	623.72	0.000
L12	79.75 - 79 (12)	P24x0.375	332.32	623.72	0.533	0.00	623.72	0.000
L13	79 - 78.75 (13)	P24x0.51875	336.88	901.12	0.374	0.00	901.12	0.000
L14	78.75 - 74.0413 (14)	P24x0.51875	423.93	901.12	0.470	0.00	901.12	0.000
L15	74.0413 - 73.7913 (15)	P24x0.675	428.61	1157.12	0.370	0.00	1157.12	0.000
L16	73.7913 - 68.7913 (16)	P24x0.675	523.85	1157.12	0.453	0.00	1157.12	0.000
L17	68.7913 - 63.7913 (17)	P24x0.675	621.81	1157.12	0.537	0.00	1157.12	0.000
L18	63.7913 - 60 (18)	P24x0.675	697.82	1157.12	0.603	0.00	1157.12	0.000
L19	60 - 59.75 (19)	P30x0.53125	703.29	1405.38	0.500	0.00	1405.38	0.000
L20	59.75 - 54.75 (20)	P30x0.53125	814.37	1405.38	0.579	0.00	1405.38	0.000
L21	54.75 - 49.75 (21)	P30x0.53125	928.36	1405.38	0.661	0.00	1405.38	0.000
L22	49.75 - 47.83 (22)	P30x0.53125	972.88	1405.38	0.692	0.00	1405.38	0.000
L23	47.83 - 47.58 (23)	P30x0.65	978.70	1764.05	0.555	0.00	1764.05	0.000
L24	47.58 - 43 (24)	P30x0.65	1086.72	1764.05	0.616	0.00	1764.05	0.000
L25	43 - 42.75 (25)	P30x0.8	1092.69	2149.19	0.508	0.00	2149.19	0.000
L26	42.75 - 37.75 (26)	P30x0.8	1213.52	2149.19	0.565	0.00	2149.19	0.000
L27	37.75 - 34.5 (27)	P30x0.8	1293.56	2149.19	0.602	0.00	2149.19	0.000
L28	34.5 - 34.25 (28)	P30x0.65	1299.76	1764.05	0.737	0.00	1764.05	0.000
L29	34.25 - 30 (29)	P30x0.65	1406.13	1764.05	0.797	0.00	1764.05	0.000
L30	30 - 29.75 (30)	P36x0.55	1413.01	2052.07	0.689	0.00	2052.07	0.000
L31	29.75 - 25.583 (31)	P36x0.55	1528.56	2052.07	0.745	0.00	2052.07	0.000
L32	25.583 - 25.333 (32)	P36x0.65	1535.55	2483.30	0.618	0.00	2483.30	0.000
L33	25.333 - 20.75 (33)	P36x0.65	1664.95	2483.30	0.670	0.00	2483.30	0.000
L34	20.75 - 20.5 (34)	P36x0.7875	1672.08	3076.29	0.544	0.00	3076.29	0.000
L35	20.5 - 17.583 (35)	P36x0.7875	1755.72	3076.29	0.571	0.00	3076.29	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L36	17.583 - 17.333 (36)	P36x0.775	1762.92	3029.59	0.582	0.00	3029.59	0.000
L37	17.333 - 17.083 (37)	P36x0.775	1770.15	3029.59	0.584	0.00	3029.59	0.000
L38	17.083 - 13.667 (38)	P36x0.775	1869.45	3029.59	0.617	0.00	3029.59	0.000
L39	13.667 - 13.417 (39)	P36x0.6625	1876.77	2538.38	0.739	0.00	2538.38	0.000
L40	13.417 - 8.417 (40)	P36x0.6625	2024.28	2538.38	0.797	0.00	2538.38	0.000
L41	8.417 - 6.083 (41)	P36x0.6625	2093.92	2538.38	0.825	0.00	2538.38	0.000
L42	6.083 - 5.833 (42)	P36x0.9625	2101.41	3722.95	0.564	0.00	3722.95	0.000
L43	5.833 - 5.5 (43)	P36x0.9625	2111.39	3722.95	0.567	0.00	3722.95	0.000
L44	5.5 - 5.25 (44)	P36x0.8875	2118.89	3447.43	0.615	0.00	3447.43	0.000
L45	5.25 - 0.25 (45)	P36x0.8875	2270.09	3447.43	0.658	0.00	3447.43	0.000
L46	0.25 - 0 (46)	P36x0.8875	2277.71	3447.43	0.661	0.00	3447.43	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	120 - 115 (1)	P24x0.25	4.38	201.86	0.022	0.00	324.23	0.000
L2	115 - 110 (2)	P24x0.25	4.69	201.86	0.023	0.00	324.23	0.000
L3	110 - 105 (3)	P24x0.25	5.00	201.86	0.025	0.00	324.23	0.000
L4	105 - 100 (4)	P24x0.25	9.65	201.86	0.048	0.03	324.23	0.000
L5	100 - 98.5 (5)	P24x0.25	9.82	201.86	0.049	0.03	324.23	0.000
L6	98.5 - 98.25 (6)	P24x0.3875	9.85	325.97	0.030	0.03	676.70	0.000
L7	98.25 - 93.25 (7)	P24x0.3875	10.44	325.97	0.032	0.03	676.70	0.000
L8	93.25 - 90 (8)	P24x0.3875	10.85	325.97	0.033	0.03	676.70	0.000
L9	90 - 89.75 (9)	P24x0.375	10.89	315.62	0.034	0.03	655.57	0.000
L10	89.75 - 84.75 (10)	P24x0.375	11.46	315.62	0.036	0.03	655.57	0.000
L11	84.75 - 79.75 (11)	P24x0.375	18.19	315.62	0.058	0.65	655.57	0.001
L12	79.75 - 79 (12)	P24x0.375	18.23	315.62	0.058	0.65	655.57	0.001
L13	79 - 78.75 (13)	P24x0.51875	18.24	433.95	0.042	0.65	895.87	0.001
L14	78.75 - 74.0413 (14)	P24x0.51875	18.74	433.95	0.043	0.65	895.87	0.001
L15	74.0413 - 73.7913 (15)	P24x0.675	18.77	560.90	0.033	0.65	1150.24	0.001
L16	73.7913 - 68.7913 (16)	P24x0.675	19.33	560.90	0.034	0.65	1150.24	0.001
L17	68.7913 - 63.7913 (17)	P24x0.675	19.86	560.90	0.035	0.65	1150.24	0.001
L18	63.7913 - 60 (18)	P24x0.675	20.25	560.90	0.036	0.65	1150.24	0.001
L19	60 - 59.75 (19)	P30x0.53125	21.92	557.73	0.039	0.65	1444.99	0.000
L20	59.75 - 54.75 (20)	P30x0.53125	22.52	557.73	0.040	0.65	1444.99	0.000
L21	54.75 - 49.75 (21)	P30x0.53125	23.09	557.73	0.041	0.65	1444.99	0.000
L22	49.75 - 47.83 (22)	P30x0.53125	23.32	557.73	0.042	0.65	1444.99	0.000
L23	47.83 - 47.58 (23)	P30x0.65	23.33	679.65	0.034	0.65	1753.77	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L24	47.58 - 43 (24)	P30x0.65	23.86	679.65	0.035	0.65	1753.77	0.000
L25	43 - 42.75 (25)	P30x0.8	23.88	832.22	0.029	0.65	2136.47	0.000
L26	42.75 - 37.75 (26)	P30x0.8	24.46	832.22	0.029	0.65	2136.47	0.000
L27	37.75 - 34.5 (27)	P30x0.8	24.82	832.22	0.030	0.65	2136.47	0.000
L28	34.5 - 34.25 (28)	P30x0.65	24.83	679.65	0.037	0.65	1753.77	0.000
L29	34.25 - 30 (29)	P30x0.65	25.25	679.65	0.037	0.65	1753.77	0.000
L30	30 - 29.75 (30)	P36x0.55	27.50	694.61	0.040	0.65	2164.90	0.000
L31	29.75 - 25.583 (31)	P36x0.55	27.97	694.61	0.040	0.65	2164.90	0.000
L32	25.583 - 25.333 (32)	P36x0.65	27.99	818.59	0.034	0.65	2544.10	0.000
L33	25.333 - 20.75 (33)	P36x0.65	28.50	818.59	0.035	0.65	2544.10	0.000
L34	20.75 - 20.5 (34)	P36x0.7875	28.51	987.89	0.029	0.65	3058.35	0.000
L35	20.5 - 17.583 (35)	P36x0.7875	28.85	987.89	0.029	0.65	3058.35	0.000
L36	17.583 - 17.333 (36)	P36x0.775	28.87	972.56	0.030	0.65	3011.94	0.000
L37	17.333 - 17.083 (37)	P36x0.775	28.90	972.56	0.030	0.65	3011.94	0.000
L38	17.083 - 13.667 (38)	P36x0.775	29.26	972.56	0.030	0.65	3011.94	0.000
L39	13.667 - 13.417 (39)	P36x0.6625	29.27	834.04	0.035	0.65	2591.19	0.000
L40	13.417 - 8.417 (40)	P36x0.6625	29.75	834.04	0.036	0.65	2591.19	0.000
L41	8.417 - 6.083 (41)	P36x0.6625	29.96	834.04	0.036	0.65	2591.19	0.000
L42	6.083 - 5.833 (42)	P36x0.9625	29.97	1201.43	0.025	0.65	3700.92	0.000
L43	5.833 - 5.5 (43)	P36x0.9625	30.00	1201.43	0.025	0.65	3700.92	0.000
L44	5.5 - 5.25 (44)	P36x0.8875	30.02	1110.18	0.027	0.65	3427.16	0.000
L45	5.25 - 0.25 (45)	P36x0.8875	30.47	1110.18	0.027	0.65	3427.16	0.000
L46	0.25 - 0 (46)	P36x0.8875	30.48	1110.18	0.027	0.65	3427.16	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	120 - 115 (1)	0.005	0.019	0.000	0.022	0.000	0.024	1.050	
L2	115 - 110 (2)	0.005	0.076	0.000	0.023	0.000	0.082	1.050	
L3	110 - 105 (3)	0.006	0.137	0.000	0.025	0.000	0.144	1.050	
L4	105 - 100 (4)	0.012	0.217	0.000	0.048	0.000	0.231	1.050	
L5	100 - 98.5 (5)	0.012	0.254	0.000	0.049	0.000	0.268	1.050	
L6	98.5 - 98.25 (6)	0.007	0.159	0.000	0.030	0.000	0.168	1.050	
L7	98.25 - 93.25 (7)	0.008	0.238	0.000	0.032	0.000	0.247	1.050	
L8	93.25 - 90 (8)	0.009	0.291	0.000	0.033	0.000	0.301	1.050	
L9	90 - 89.75 (9)	0.009	0.306	0.000	0.034	0.000	0.316	1.050	
L10	89.75 - 84.75 (10)	0.010	0.396	0.000	0.036	0.000	0.407	1.050	
L11	84.75 - 79.75 (11)	0.015	0.511	0.000	0.058	0.001	0.529	1.050	

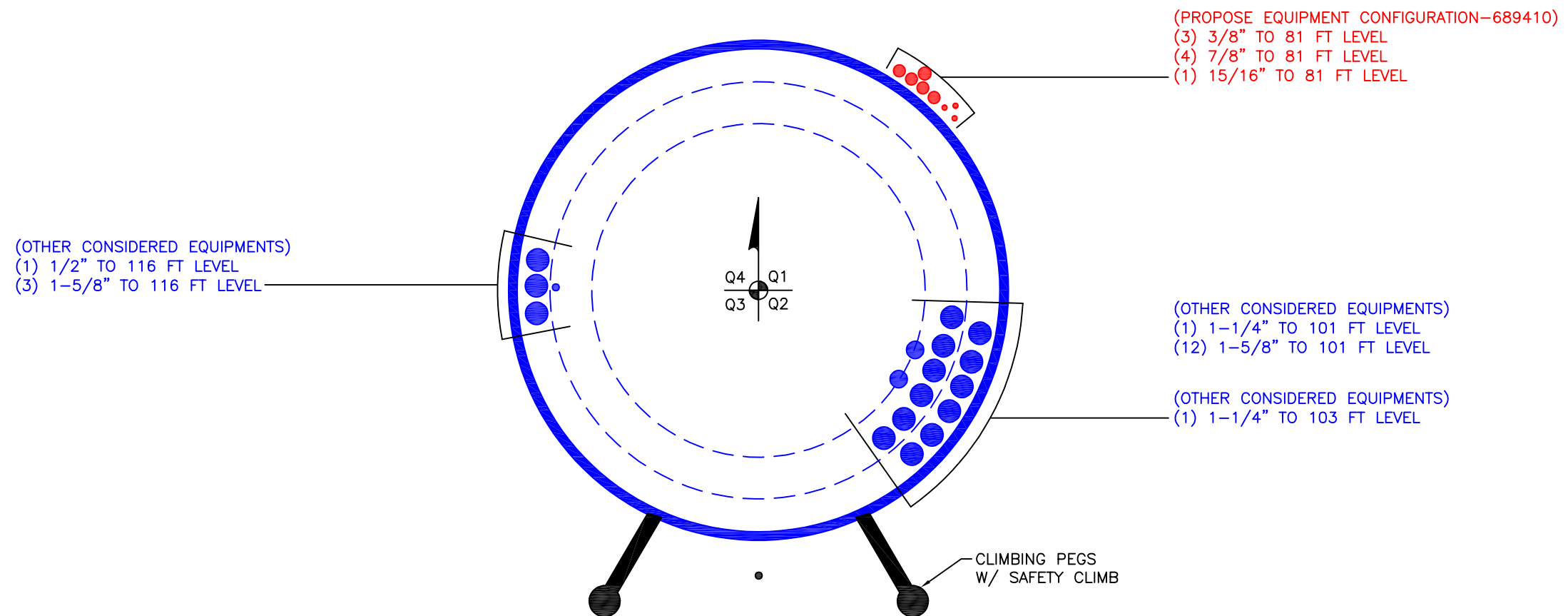
Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L12	79.75 - 79 (12)	0.015	0.533	0.000	0.058	0.001	0.551	1.050	
L13	79 - 78.75 (13)	0.011	0.374	0.000	0.042	0.001	0.386	1.050	
L14	78.75 - 74.0413 (14)	0.011	0.470	0.000	0.043	0.001	0.484	1.050	
L15	74.0413 - 73.7913 (15)	0.009	0.370	0.000	0.033	0.001	0.380	1.050	
L16	73.7913 - 68.7913 (16)	0.009	0.453	0.000	0.034	0.001	0.463	1.050	
L17	68.7913 - 63.7913 (17)	0.010	0.537	0.000	0.035	0.001	0.549	1.050	
L18	63.7913 - 60 (18)	0.011	0.603	0.000	0.036	0.001	0.615	1.050	
L19	60 - 59.75 (19)	0.012	0.500	0.000	0.039	0.000	0.514	1.050	
L20	59.75 - 54.75 (20)	0.013	0.579	0.000	0.040	0.000	0.594	1.050	
L21	54.75 - 49.75 (21)	0.013	0.661	0.000	0.041	0.000	0.676	1.050	
L22	49.75 - 47.83 (22)	0.014	0.692	0.000	0.042	0.000	0.708	1.050	
L23	47.83 - 47.58 (23)	0.011	0.555	0.000	0.034	0.000	0.567	1.050	
L24	47.58 - 43 (24)	0.012	0.616	0.000	0.035	0.000	0.629	1.050	
L25	43 - 42.75 (25)	0.010	0.508	0.000	0.029	0.000	0.519	1.050	
L26	42.75 - 37.75 (26)	0.010	0.565	0.000	0.029	0.000	0.576	1.050	
L27	37.75 - 34.5 (27)	0.011	0.602	0.000	0.030	0.000	0.613	1.050	
L28	34.5 - 34.25 (28)	0.013	0.737	0.000	0.037	0.000	0.751	1.050	
L29	34.25 - 30 (29)	0.014	0.797	0.000	0.037	0.000	0.812	1.050	
L30	30 - 29.75 (30)	0.015	0.689	0.000	0.040	0.000	0.705	1.050	
L31	29.75 - 25.583 (31)	0.016	0.745	0.000	0.040	0.000	0.762	1.050	
L32	25.583 - 25.333 (32)	0.013	0.618	0.000	0.034	0.000	0.633	1.050	
L33	25.333 - 20.75 (33)	0.014	0.670	0.000	0.035	0.000	0.685	1.050	
L34	20.75 - 20.5 (34)	0.011	0.544	0.000	0.029	0.000	0.556	1.050	
L35	20.5 - 17.583 (35)	0.012	0.571	0.000	0.029	0.000	0.583	1.050	
L36	17.583 - 17.333 (36)	0.012	0.582	0.000	0.030	0.000	0.595	1.050	
L37	17.333 - 17.083 (37)	0.012	0.584	0.000	0.030	0.000	0.597	1.050	
L38	17.083 - 13.667 (38)	0.012	0.617	0.000	0.030	0.000	0.630	1.050	
L39	13.667 - 13.417 (39)	0.015	0.739	0.000	0.035	0.000	0.755	1.050	
L40	13.417 - 8.417 (40)	0.015	0.797	0.000	0.036	0.000	0.814	1.050	
L41	8.417 - 6.083 (41)	0.016	0.825	0.000	0.036	0.000	0.842	1.050	
L42	6.083 - 5.833 (42)	0.011	0.564	0.000	0.025	0.000	0.576	1.050	
L43	5.833 - 5.5 (43)	0.011	0.567	0.000	0.025	0.000	0.579	1.050	
L44	5.5 - 5.25 (44)	0.012	0.615	0.000	0.027	0.000	0.627	1.050	
L45	5.25 - 0.25 (45)	0.012	0.658	0.000	0.027	0.000	0.672	1.050	
L46	0.25 - 0 (46)	0.012	0.661	0.000	0.027	0.000	0.674	1.050	

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	120 - 115	Pole	P24x0.25	1	-3.21	695.38	2.3	Pass
L2	115 - 110	Pole	P24x0.25	2	-3.63	695.38	7.8	Pass
L3	110 - 105	Pole	P24x0.25	3	-4.05	695.38	13.7	Pass
L4	105 - 100	Pole	P24x0.25	4	-7.87	695.38	22.0	Pass
L5	100 - 98.5	Pole	P24x0.25	5	-8.03	695.38	25.5	Pass
L6	98.5 - 98.25	Pole	P24x0.3875	6	-8.06	1140.89	16.0	Pass
L7	98.25 - 93.25	Pole	P24x0.3875	7	-8.78	1140.89	23.5	Pass
L8	93.25 - 90	Pole	P24x0.3875	8	-9.24	1140.89	28.6	Pass
L9	90 - 89.75	Pole	P24x0.375	9	-9.28	1104.67	30.1	Pass
L10	89.75 - 84.75	Pole	P24x0.375	10	-10.01	1104.67	38.7	Pass
L11	84.75 - 79.75	Pole	P24x0.375	11	-15.36	1104.67	50.4	Pass
L12	79.75 - 79	Pole	P24x0.375	12	-15.49	1104.67	52.5	Pass
L13	79 - 78.75	Pole	P24x0.51875	13	-15.54	1518.84	36.8	Pass
L14	78.75 - 74.0413	Pole	P24x0.51875	14	-16.46	1518.84	46.1	Pass
L15	74.0413 - 73.7913	Pole	P24x0.675	15	-16.53	1963.16	36.2	Pass
L16	73.7913 - 68.7913	Pole	P24x0.675	16	-17.69	1963.16	44.1	Pass
L17	68.7913 - 63.7913	Pole	P24x0.675	17	-18.87	1963.16	52.3	Pass
L18	63.7913 - 60	Pole	P24x0.675	18	-19.77	1963.16	58.6	Pass
L19	60 - 59.75	Pole	P30x0.53125	19	-22.40	1952.05	49.0	Pass
L20	59.75 - 54.75	Pole	P30x0.53125	20	-23.61	1952.05	56.6	Pass
L21	54.75 - 49.75	Pole	P30x0.53125	21	-24.84	1952.05	64.4	Pass
L22	49.75 - 47.83	Pole	P30x0.53125	22	-25.31	1952.05	67.4	Pass
L23	47.83 - 47.58	Pole	P30x0.65	23	-25.39	2378.78	54.0	Pass
L24	47.58 - 43	Pole	P30x0.65	24	-26.69	2378.78	59.9	Pass
L25	43 - 42.75	Pole	P30x0.8	25	-26.78	2912.75	49.4	Pass
L26	42.75 - 37.75	Pole	P30x0.8	26	-28.44	2912.75	54.8	Pass
L27	37.75 - 34.5	Pole	P30x0.8	27	-29.53	2912.75	58.4	Pass
L28	34.5 - 34.25	Pole	P30x0.65	28	-29.61	2378.78	71.5	Pass
L29	34.25 - 30	Pole	P30x0.65	29	-30.84	2378.78	77.3	Pass
L30	30 - 29.75	Pole	P36x0.55	30	-34.77	2431.14	67.2	Pass
L31	29.75 - 25.583	Pole	P36x0.55	31	-36.00	2431.14	72.6	Pass
L32	25.583 - 25.333	Pole	P36x0.65	32	-36.09	2865.06	60.3	Pass
L33	25.333 - 20.75	Pole	P36x0.65	33	-37.62	2865.06	65.3	Pass
L34	20.75 - 20.5	Pole	P36x0.7875	34	-37.73	3457.63	52.9	Pass
L35	20.5 - 17.583	Pole	P36x0.7875	35	-38.84	3457.63	55.6	Pass
L36	17.583 - 17.333	Pole	P36x0.775	36	-38.96	3403.95	56.6	Pass
L37	17.333 - 17.083	Pole	P36x0.775	37	-39.06	3403.95	56.9	Pass
L38	17.083 - 13.667	Pole	P36x0.775	38	-40.47	3403.95	60.0	Pass
L39	13.667 - 13.417	Pole	P36x0.6625	39	-40.57	2919.13	71.9	Pass
L40	13.417 - 8.417	Pole	P36x0.6625	40	-42.54	2919.13	77.5	Pass
L41	8.417 - 6.083	Pole	P36x0.6625	41	-43.47	2919.13	80.2	Pass
L42	6.083 - 5.833	Pole	P36x0.9625	42	-43.60	4204.99	54.9	Pass
L43	5.833 - 5.5	Pole	P36x0.9625	43	-43.75	4204.99	55.1	Pass
L44	5.5 - 5.25	Pole	P36x0.8875	44	-43.86	3885.63	59.7	Pass
L45	5.25 - 0.25	Pole	P36x0.8875	45	-45.84	3885.63	64.0	Pass
L46	0.25 - 0	Pole	P36x0.8875	46	-45.95	3885.63	64.2	Pass
							Summary	
							Pole (L41)	Pass
							RATING =	Pass

***NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Site BU: 876309
Work Order: 2350782



Pole Geometry

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	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	120	30		0	24	24	0.25		A53-B-42
2	90	30		0	24.00	24	0.375		A53-B-42
3	60	30		0	30.00	30	0.375		A53-B-42
4	30	30		0	36.00	36	0.375		A53-B-42

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	20.75	plate	FP 3.5 x 1.25 (1.1875)	3		22.5						143						263				
2	34.5	43	plate	FP 3.25 x 1.25 (1.1875)	3		22.5						143						263				
3	0	6.083	channel	MP3-05 (1.1875in)	1					90													
4	5.5	17.5	plate	CCI-SFP-040125	2				35		320												
5	13.667	30	channel	MP3-05 (1.1875in)	1					90													
6	0	30	channel	MP3-05 (1.1875in)	2											210						330	
7	30	60	channel	MP3-04 (1.1875in)	3					90						210						330	
8	60	74.0413	channel	MP3-03 (1.1875in)	3					90						210						330	
9	17.583	25.583	plate	CCI-SFP-040075	3			45						165						285			
10	30	47.83	plate	CCI-SFP-040075	3			45						165						285			
11	60	79	plate	CCI-SFP-040075	3			45						165						285			
12	90	98.5	plate	CFP-040075 (1.1875)	3					90						210						330	
13	0	6.083	plate	FP 1.25 x 4.25	3				43					156						290			
14	5.5	17.5	plate	CFP-040125 (1.1875)W	1	153																	
15																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	3.5	1.25	4.375	0.625	None	n/a	PC 8.8 - M20 (100)	15.000	24.000	2.813	1.1875	A572-65
2	3.25	1.25	4.0625	0.625	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	12.000	24.000	2.500	1.1875	A572-65
3	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
4	4	1.25	5	0.625	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	27.000	3.438	1.1875	A572-65
5	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
6	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
7	4.78	1.61	4.13	0.61	PC 8.8 - M20 (100)	17	PC 8.8 - M20 (100)	17.000	18.000	3.593	1.1875	A572-65
8	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
9	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
10	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
11	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
12	4	0.75	3	0.375	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	A572-65
13	1.25	4.25	5.3125	2.125	Welded	n/a	Welded	n/a	0.000	5.313	0.0000	A572-65
14	4	1.25	5	0.625	Welded	n/a	PC 8.8 - M20 (100)	18.000	27.000	3.438	1.1875	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
FP 3.25 x 1.25 (1.1875)	Top	4	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	5	N	3	3	-	-	-	-	-	-	-	-	-
FP 1.25 x 4.25	Top	-	-	-	-	80	None	-	-	-	-	41.25	0.375	-
	Bottom	-	-	-	-	80	CJP Groove	8.5	0.5	45	0.5	-	-	-
CFP-040075 (1.1875)	Top	6	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	8	N	3	3	-	-	-	-	-	-	-	-	-
CFP-040125 (1.1875)W	Top	6	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	80	Fillet	4	-	-	0.375	21	0.375	-
FP 3.5 x 1.25 (1.1875)	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	80	None	-	-	-	-	-	-	-

TNX Geometry Input

Increment (ft): 5 [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	120 - 115	5		0	24.000	24.000	0.25	A53-B-42	1.000
2	115 - 110	5		0	24.000	24.000	0.25	A53-B-42	1.000
3	110 - 105	5		0	24.000	24.000	0.25	A53-B-42	1.000
4	105 - 100	5		0	24.000	24.000	0.25	A53-B-42	1.000
5	100 - 98.5	1.5		0	24.000	24.000	0.25	A53-B-42	1.000
6	98.5 - 98.25	0.25		0	24.000	24.000	0.3875	A53-B-42	0.962
7	98.25 - 93.25	5		0	24.000	24.000	0.3875	A53-B-42	0.962
8	93.25 - 90	3.25	0	0	24.000	24.000	0.3875	A53-B-42	0.962
9	90 - 89.75	0.25		0	24.000	24.000	0.375	A53-B-42	1.000
10	89.75 - 84.75	5		0	24.000	24.000	0.375	A53-B-42	1.000
11	84.75 - 79.75	5		0	24.000	24.000	0.375	A53-B-42	1.000
12	79.75 - 79	0.75		0	24.000	24.000	0.375	A53-B-42	1.000
13	79 - 78.75	0.25		0	24.000	24.000	0.51875	A53-B-42	0.963
14	78.75 - 74.0413	4.7087		0	24.000	24.000	0.51875	A53-B-42	0.963
15	74.0413 - 73.7913	0.25		0	24.000	24.000	0.675	A53-B-42	0.922
16	73.7913 - 68.7913	5		0	24.000	24.000	0.675	A53-B-42	0.922
17	68.7913 - 63.7913	5		0	24.000	24.000	0.675	A53-B-42	0.922
18	63.7913 - 60	3.7913	0	0	24.000	24.000	0.675	A53-B-42	0.922
19	60 - 59.75	0.25		0	30.000	30.000	0.53125	A53-B-42	0.962
20	59.75 - 54.75	5		0	30.000	30.000	0.53125	A53-B-42	0.962
21	54.75 - 49.75	5		0	30.000	30.000	0.53125	A53-B-42	0.962
22	49.75 - 47.83	1.92		0	30.000	30.000	0.53125	A53-B-42	0.962
23	47.83 - 47.58	0.25		0	30.000	30.000	0.65	A53-B-42	0.939
24	47.58 - 43	4.58		0	30.000	30.000	0.65	A53-B-42	0.939
25	43 - 42.75	0.25		0	30.000	30.000	0.8	A53-B-42	0.933
26	42.75 - 37.75	5		0	30.000	30.000	0.8	A53-B-42	0.933
27	37.75 - 34.5	3.25		0	30.000	30.000	0.8	A53-B-42	0.933
28	34.5 - 34.25	0.25		0	30.000	30.000	0.65	A53-B-42	0.939
29	34.25 - 30	4.25	0	0	30.000	30.000	0.65	A53-B-42	0.939
30	30 - 29.75	0.25		0	36.000	36.000	0.55	A53-B-42	0.962
31	29.75 - 25.583	4.167		0	36.000	36.000	0.55	A53-B-42	0.962
32	25.583 - 25.333	0.25		0	36.000	36.000	0.65	A53-B-42	0.941
33	25.333 - 20.75	4.583		0	36.000	36.000	0.65	A53-B-42	0.941
34	20.75 - 20.5	0.25		0	36.000	36.000	0.7875	A53-B-42	0.930
35	20.5 - 17.583	2.917		0	36.000	36.000	0.7875	A53-B-42	0.930
36	17.583 - 17.333	0.25		0	36.000	36.000	0.775	A53-B-42	1.015
37	17.333 - 17.083	0.25		0	36.000	36.000	0.775	A53-B-42	1.015
38	17.083 - 13.667	3.416		0	36.000	36.000	0.775	A53-B-42	1.015
39	13.667 - 13.417	0.25		0	36.000	36.000	0.6625	A53-B-42	1.107
40	13.417 - 8.417	5		0	36.000	36.000	0.6625	A53-B-42	1.107
41	8.417 - 6.083	2.334		0	36.000	36.000	0.6625	A53-B-42	1.107
42	6.083 - 5.833	0.25		0	36.000	36.000	0.9625	A53-B-42	0.925
43	5.833 - 5.5	0.333		0	36.000	36.000	0.9625	A53-B-42	0.925
44	5.5 - 5.25	0.25		0	36.000	36.000	0.8875	A53-B-42	0.899
45	5.25 - 0.25	5		0	36.000	36.000	0.8875	A53-B-42	0.899
46	0.25 - 0	0.25		0	36.000	36.000	0.8875	A53-B-42	0.899

TNX Section Forces

Increment (ft):		TNX Output		
	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	120 - 115	3.21	7.42	4.38
2	115 - 110	3.63	30.10	4.69
3	110 - 105	4.05	54.34	5.00
4	105 - 100	7.87	86.05	9.65
5	100 - 98.5	8.03	100.65	9.82
6	98.5 - 98.25	8.06	103.11	9.85
7	98.25 - 93.25	8.78	153.83	10.44
8	93.25 - 90	9.24	188.42	10.85
9	90 - 89.75	9.28	191.14	10.89
10	89.75 - 84.75	10.01	247.00	11.46
11	84.75 - 79.75	15.36	318.67	18.19
12	79.75 - 79	15.49	332.32	18.22
13	79 - 78.75	15.54	336.88	18.24
14	78.75 - 74.0413	16.46	423.93	18.74
15	74.0413 - 73.7913	16.53	428.61	18.77
16	73.7913 - 68.7913	17.69	523.85	19.33
17	68.7913 - 63.7913	18.87	621.81	19.86
18	63.7913 - 60	19.78	697.81	20.25
19	60 - 59.75	22.40	703.29	21.92
20	59.75 - 54.75	23.61	814.37	22.52
21	54.75 - 49.75	24.84	928.35	23.09
22	49.75 - 47.83	25.31	972.87	23.32
23	47.83 - 47.58	25.39	978.70	23.33
24	47.58 - 43	26.69	1086.73	23.86
25	43 - 42.75	26.78	1092.69	23.88
26	42.75 - 37.75	28.44	1213.52	24.46
27	37.75 - 34.5	29.53	1293.56	24.82
28	34.5 - 34.25	29.61	1299.76	24.83
29	34.25 - 30	30.84	1406.14	25.25
30	30 - 29.75	34.77	1413.01	27.50
31	29.75 - 25.583	36.00	1528.56	27.97
32	25.583 - 25.333	36.09	1535.55	27.99
33	25.333 - 20.75	37.62	1664.95	28.50
34	20.75 - 20.5	37.73	1672.07	28.51
35	20.5 - 17.583	38.84	1755.72	28.85
36	17.583 - 17.333	38.96	1762.93	28.87
37	17.333 - 17.083	39.06	1770.15	28.90
38	17.083 - 13.667	40.47	1869.45	29.26
39	13.667 - 13.417	40.57	1876.77	29.27
40	13.417 - 8.417	42.54	2024.28	29.75
41	8.417 - 6.083	43.47	2093.92	29.96
42	6.083 - 5.833	43.60	2101.41	29.97
43	5.833 - 5.5	43.75	2111.39	30.00
44	5.5 - 5.25	43.86	2118.89	30.02
45	5.25 - 0.25	45.84	2270.09	30.47
46	0.25 - 0	45.95	2277.71	30.48

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
120 - 115	Pole	TP24x24x0.25	Pole	2.3%	Pass
115 - 110	Pole	TP24x24x0.25	Pole	7.8%	Pass
110 - 105	Pole	TP24x24x0.25	Pole	13.7%	Pass
105 - 100	Pole	TP24x24x0.25	Pole	22.0%	Pass
100 - 98.5	Pole	TP24x24x0.25	Pole	25.5%	Pass
98.5 - 98.25	Pole + Reinf.	TP24x24x0.3875	Reinf. 12 Tension Rupture	18.4%	Pass
98.25 - 93.25	Pole + Reinf.	TP24x24x0.3875	Reinf. 12 Tension Rupture	27.1%	Pass
93.25 - 90	Pole + Reinf.	TP24x24x0.3875	Reinf. 12 Tension Rupture	33.0%	Pass
90 - 89.75	Pole	TP24x24x0.375	Pole	30.1%	Pass
89.75 - 84.75	Pole	TP24x24x0.375	Pole	38.7%	Pass
84.75 - 79.75	Pole	TP24x24x0.375	Pole	50.4%	Pass
79.75 - 79	Pole	TP24x24x0.375	Pole	52.5%	Pass
79 - 78.75	Pole + Reinf.	TP24x24x0.5188	Reinf. 11 Tension Rupture	44.9%	Pass
78.75 - 74.04	Pole + Reinf.	TP24x24x0.5188	Reinf. 11 Tension Rupture	56.3%	Pass
74.04 - 73.79	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	45.0%	Pass
73.79 - 68.79	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	54.8%	Pass
68.79 - 63.79	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	64.9%	Pass
63.79 - 60	Pole + Reinf.	TP24x24x0.675	Reinf. 11 Tension Rupture	72.8%	Pass
60 - 59.75	Pole + Reinf.	TP30x30x0.5313	Pole	51.8%	Pass
59.75 - 54.75	Pole + Reinf.	TP30x30x0.5313	Pole	59.8%	Pass
54.75 - 49.75	Pole + Reinf.	TP30x30x0.5313	Pole	68.1%	Pass
49.75 - 47.83	Pole + Reinf.	TP30x30x0.5313	Pole	71.3%	Pass
47.83 - 47.58	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	66.1%	Pass
47.58 - 43	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	73.3%	Pass
43 - 42.75	Pole + Reinf.	TP30x30x0.8	Reinf. 2 Tension Rupture	67.7%	Pass
42.75 - 37.75	Pole + Reinf.	TP30x30x0.8	Reinf. 2 Tension Rupture	75.2%	Pass
37.75 - 34.5	Pole + Reinf.	TP30x30x0.8	Reinf. 2 Tension Rupture	80.1%	Pass
34.5 - 34.25	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	87.6%	Pass
34.25 - 30	Pole + Reinf.	TP30x30x0.65	Reinf. 10 Tension Rupture	94.7%	Pass
30 - 29.75	Pole + Reinf.	TP36x36x0.55	Pole	70.7%	Pass
29.75 - 25.58	Pole + Reinf.	TP36x36x0.55	Pole	76.4%	Pass
25.58 - 25.33	Pole + Reinf.	TP36x36x0.65	Reinf. 9 Tension Rupture	71.2%	Pass
25.33 - 20.75	Pole + Reinf.	TP36x36x0.65	Reinf. 9 Tension Rupture	77.1%	Pass
20.75 - 20.5	Pole + Reinf.	TP36x36x0.7875	Reinf. 1 Tension Rupture	69.6%	Pass
20.5 - 17.58	Pole + Reinf.	TP36x36x0.7875	Reinf. 1 Tension Rupture	73.0%	Pass
17.58 - 17.33	Pole + Reinf.	TP36x36x0.775	Reinf. 1 Tension Rupture	75.8%	Pass
17.33 - 17.08	Pole + Reinf.	TP36x36x0.775	Reinf. 1 Tension Rupture	76.1%	Pass
17.08 - 13.67	Pole + Reinf.	TP36x36x0.775	Reinf. 1 Tension Rupture	80.3%	Pass
13.67 - 13.42	Pole + Reinf.	TP36x36x0.6625	Reinf. 1 Tension Rupture	88.3%	Pass
13.42 - 8.42	Pole + Reinf.	TP36x36x0.6625	Reinf. 1 Tension Rupture	95.2%	Pass
8.42 - 6.08	Pole + Reinf.	TP36x36x0.6625	Reinf. 1 Tension Rupture	98.4%	Pass
6.08 - 5.83	Pole + Reinf.	TP36x36x0.9625	Reinf. 1 Tension Rupture	73.7%	Pass
5.83 - 5.5	Pole + Reinf.	TP36x36x0.9625	Reinf. 1 Tension Rupture	74.0%	Pass
5.5 - 5.25	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Tension Rupture	79.8%	Pass
5.25 - 0.25	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Tension Rupture	85.5%	Pass
0.25 - 0	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Tension Rupture	85.8%	Pass
				Summary	
			Pole	91.6%	Pass
			Reinforcement	98.4%	Pass
			Overall	98.4%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity*														
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
120 - 115	1315	n/a	1315	18.65	n/a	18.65	2.3%														
115 - 110	1315	n/a	1315	18.65	n/a	18.65	7.8%														
110 - 105	1315	n/a	1315	18.65	n/a	18.65	13.7%														
105 - 100	1315	n/a	1315	18.65	n/a	18.65	22.0%														
100 - 98.5	1315	n/a	1315	18.65	n/a	18.65	25.5%														
98.5 - 98.25	1315	695	2011	18.65	9.00	27.65	17.0%												18.4%		
98.25 - 93.25	1315	695	2011	18.65	9.00	27.65	25.0%												27.1%		
93.25 - 90	1315	695	2011	18.65	9.00	27.65	30.5%												33.0%		
90 - 89.75	1942	n/a	1942	27.83	n/a	27.83	30.1%														
89.75 - 84.75	1942	n/a	1942	27.83	n/a	27.83	38.7%														
84.75 - 79.75	1942	n/a	1942	27.83	n/a	27.83	50.4%														
79.75 - 79	1942	n/a	1942	27.83	n/a	27.83	52.5%														
79 - 78.75	1942	695	2638	27.83	9.00	36.83	39.0%												44.9%		
78.75 - 74.04	1942	695	2638	27.83	9.00	36.83	48.9%												56.3%		
74.04 - 73.79	1942	1392	3335	27.83	17.76	45.59	39.0%								38.1%				45.0%		
73.79 - 68.79	1942	1392	3335	27.83	17.76	45.59	47.5%								46.4%				54.8%		
68.79 - 63.79	1942	1392	3335	27.83	17.76	45.59	56.3%								55.0%				64.9%		
63.79 - 60	1942	1392	3335	27.83	17.76	45.59	63.1%								61.6%				72.8%		
60 - 59.75	3829	1516	5346	34.90	12.39	47.29	51.8%							48.0%							
59.75 - 54.75	3829	1516	5346	34.90	12.39	47.29	59.8%							55.5%							
54.75 - 49.75	3829	1516	5346	34.90	12.39	47.29	68.1%							63.2%							
49.75 - 47.83	3829	1516	5346	34.90	12.39	47.29	71.3%							66.2%							
47.83 - 47.58	3829	2586	6416	34.90	21.39	56.29	59.8%							55.4%			66.1%				
47.58 - 43	3829	2586	6416	34.90	21.39	56.29	66.3%							61.5%			73.3%				
43 - 42.75	3829	4073	7902	34.90	33.58	68.48	54.1%		67.7%					50.2%			59.8%				
42.75 - 37.75	3829	4073	7902	34.90	33.58	68.48	60.1%		75.2%					55.7%			66.4%				
37.75 - 34.5	3829	4073	7902	34.90	33.58	68.48	64.0%		80.1%					59.4%			70.7%				
34.5 - 34.25	3829	2586	6416	34.90	21.39	56.29	79.2%							73.4%			87.6%				
34.25 - 30	3829	2586	6416	34.90	21.39	56.29	85.6%							79.4%			94.7%				
30 - 29.75	6659	3003	9662	41.97	16.95	58.92	70.7%					62.1%	62.1%								
29.75 - 25.58	6659	3003	9662	41.97	16.95	58.92	76.4%					67.1%	67.1%								
25.58 - 25.33	6659	4529	11188	41.97	25.95	67.92	66.3%					58.2%	58.2%			71.2%					
25.33 - 20.75	6659	4529	11188	41.97	25.95	67.92	71.8%					63.0%	63.0%			77.1%					
20.75 - 20.5	6659	6802	13461	41.97	39.08	81.04	60.0%	69.6%				52.6%	52.6%			64.3%					
20.5 - 17.58	6659	6802	13461	41.97	39.08	81.04	62.9%	73.0%				55.2%	55.2%			67.5%					
17.58 - 17.33	6671	6703	13374	41.97	45.08	87.04	65.3%	75.8%			63.3%	53.8%	55.0%								60.4%
17.33 - 17.08	6671	6703	13374	41.97	45.08	87.04	65.6%	76.1%			63.6%	54.0%	55.3%								60.7%
17.08 - 13.67	6671	6703	13374	41.97	45.08	87.04	69.2%	80.3%			67.1%	57.0%	58.3%								64.1%
13.67 - 13.42	6681	4739	11420	41.97	39.43	81.39	82.2%	88.3%			77.0%		59.7%								70.4%
13.42 - 8.42	6681	4739	11420	41.97	39.43	81.39	88.6%	95.2%			83.0%		64.3%								75.9%
8.42 - 6.08	6681	4739	11420	41.97	39.43	81.39	91.6%	98.4%			85.9%		66.5%								78.5%
6.08 - 5.83	6670	9629	16299	41.97	56.01	97.98	64.1%	73.7%		53.8%	62.5%		58.2%						52.5%		
5.83 - 5.5	6670	9629	16299	41.97	56.01	97.98	64.4%	74.0%		54.0%	62.8%		58.5%						52.8%		
5.5 - 5.25	6661	8394	15055	41.97	46.01	87.98	68.9%	79.8%		58.7%			61.6%						57.1%		
5.25 - 0.25	6661	8394	15055	41.97	46.01	87.98	73.7%	85.5%		62.8%			65.9%						61.2%		
0.25 - 0	6661	8394	15055	41.97	46.01	87.98	74.0%	85.8%		63.0%			66.2%						69.1%		

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

Monopole Flange Plate Connection

Elevation = 90 ft.

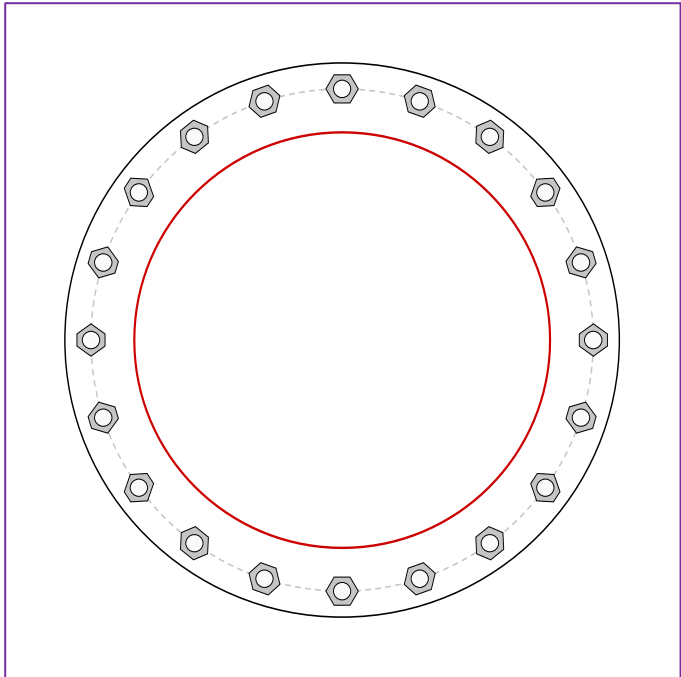


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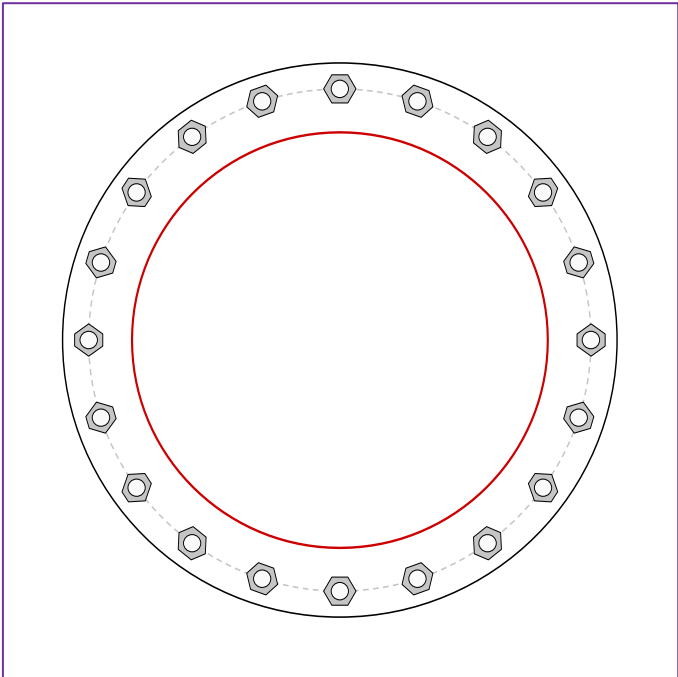
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	98.95	Moment (kip-ft)	89.47
Axial Force (kips)	9.24	Axial Force (kips)	0.00
Shear Force (kips)	10.85	Shear Force (kips)	0.00

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties	
Bolt Data	

(20) 1" $\varnothing$ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 29" BC

Top Plate Data	
32" OD x 1.5" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Top Stiffener Data	
N/A	

Top Pole Data	
24" x 0.25" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Bridge Stiffener Group 1 Data	
(3) Bolted, 4"x0.75", A572-65, Lu=16", Neglect Flange in MOI: No	

Bottom Plate Data	
32" OD x 1.5" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Bottom Stiffener Data	
N/A	

Bottom Pole Data	
24" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Analysis Results	
Bolt Capacity	

Max Load (kips)	7.72
Allowable (kips)	54.53
Stress Rating:	13.5% Pass

Top Plate Capacity			
Max Stress (ksi):	5.89	(Flexural)	
Allowable Stress (ksi):	32.40		
Stress Rating:	17.3%	Pass	
Tension Side Stress Rating:	7.7%	Pass	

Bottom Plate Capacity			
Max Stress (ksi):	5.89	(Flexural)	
Allowable Stress (ksi):	32.40		
Stress Rating:	17.3%	Pass	
Tension Side Stress Rating:	7.7%	Pass	

Bridge Stiffener Group 1 Analysis Capacity			
Max Compression (kip):	44.73		
Max Tension (kip):	44.73		
Comp. Capacity (kip):	104.43		
Tens. Capacity (kip):	123.75	(Rupture)	
Comp. Stress Rating:	40.8%	Pass	
Tens. Stress Rating:	34.4%	Pass	

Monopole Flange Plate Connection

Elevation = 60 ft.

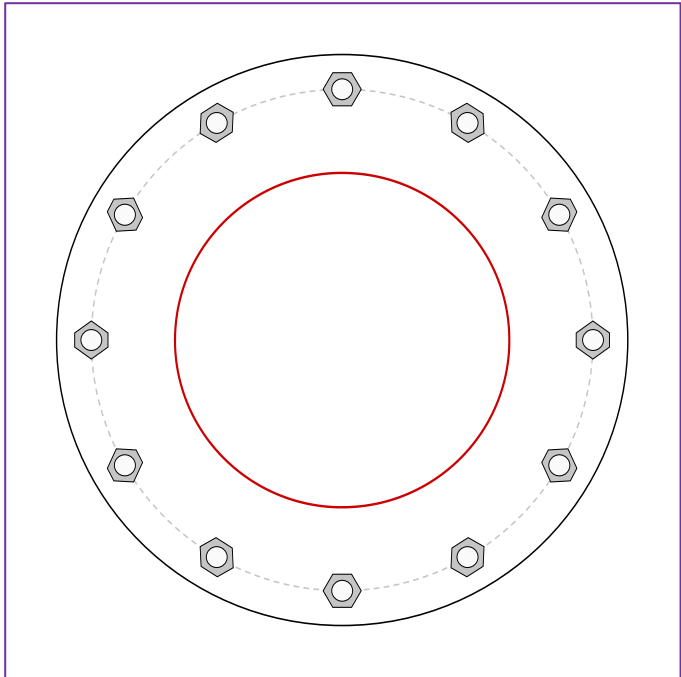


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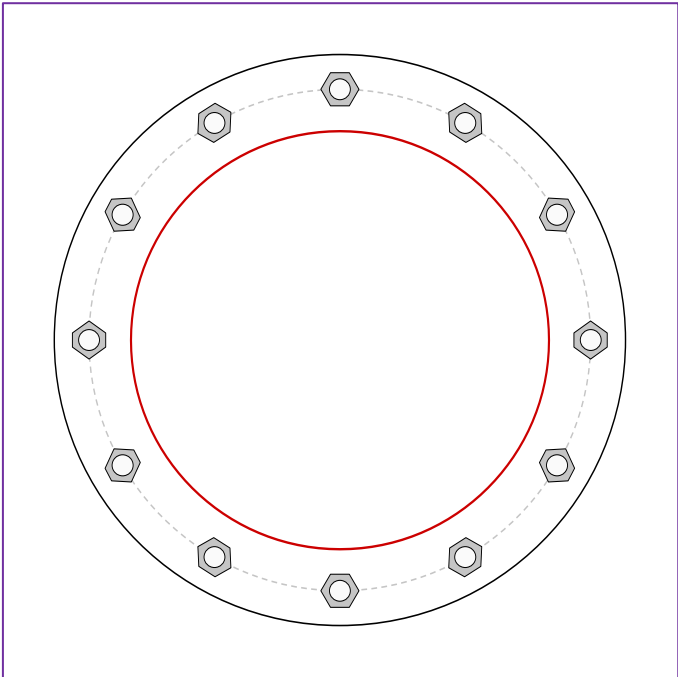
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	180.12	Moment (kip-ft)	517.70
Axial Force (kips)	19.78	Axial Force (kips)	0.00
Shear Force (kips)	20.25	Shear Force (kips)	0.00

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties	
Bolt Data	

(12) 1-1/2" Ø bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 36" BC

Top Plate Data	
41" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Top Stiffener Data	
N/A	

Top Pole Data	
24" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Bridge Stiffener Group 1 Data	
(3) Welded, 7"x1.25", A572-65, Lu=4.1", Upper Plate Width=16", Lower Plate Width=13", Neglect Flange in MOI: No	

Bottom Plate Data	
41" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Bottom Stiffener Data	
N/A	

Bottom Pole Data	
30" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Analysis Results	
Bolt Capacity	

Max Load (kips)	18.35
Allowable (kips)	126.87
Stress Rating:	13.8% Pass

Top Plate Capacity			
Max Stress (ksi):	9.91	(Flexural)	
Allowable Stress (ksi):	32.40		
Stress Rating:	29.1%	Pass	
Tension Side Stress Rating:	16.0%	Pass	

Bottom Plate Capacity			
Max Stress (ksi):	5.03	(Flexural)	
Allowable Stress (ksi):	32.40		
Stress Rating:	14.8%	Pass	
Tension Side Stress Rating:	5.3%	Pass	

Bridge Stiffener Group 1 Analysis Capacity			
Max Compression (kip):	169.04		
Max Tension (kip):	169.04		
Comp. Capacity (kip):	505.63		
Tens. Capacity (kip):	511.88	(Yield)	
Comp. Stress Rating:	31.8%	Pass	
Tens. Stress Rating:	31.5%	Pass	

Welded Bridge Stiffener Design

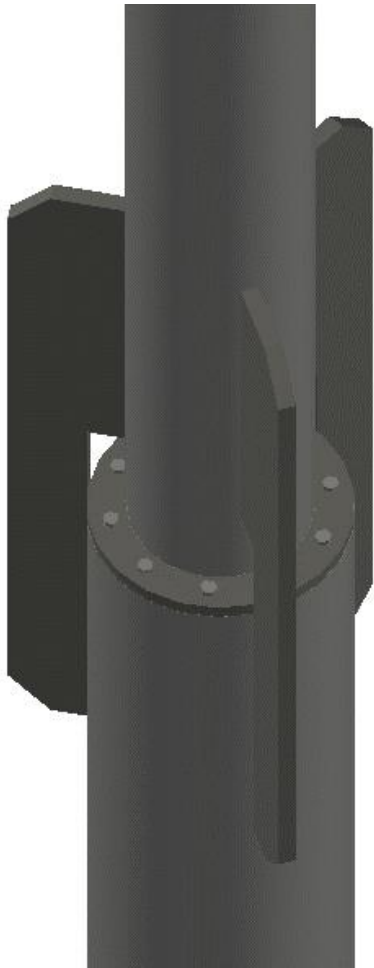
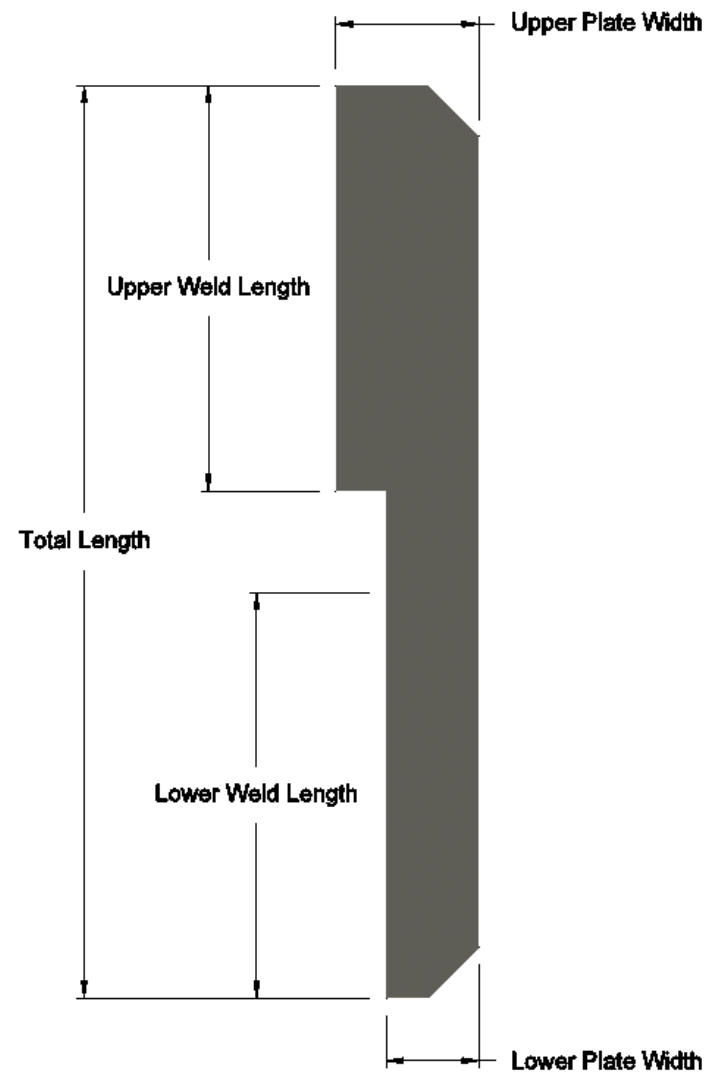
Elevation = 60 ft.



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Applied Loads to Design Groups	
Moment (kip-ft)	517.70
Axial Force (kips)	0.00
Shear Force (kips)	0.00

*TIA-222-H Section 15.5 Applied



Design Properties

Bridge Stiffener Group 1 Data

(3) Welded, 7"x1.25", A572-65, Lu=4.1", Upper Plate Width=16", Lower Plate Width=13", Neglect Flange in MOI: No

Total Length:	97	in	Upper Weld Size:	Good
Weld Type:	Fillet (both sides)		Upper Weld Rating:	22.17%
Weld Size:	0.375	in	Lower Weld Size:	Good
Exx:	80	ksi	Lower Weld Rating:	22.35%
Upper Weld Length:	48	in	Top Plate Lateral-Torsional Buckling Rating:	5.88%
Upper Plate Width:	16	in	Top Plate Tension Yield Rating:	6.88%
Lower Weld Length:	44.875	in	Top Plate Tension Rupture Rating:	7.45%
Lower Plate Width:	13	in	Top Plate Interaction Rating:	6.47%
Stiffener Front EPA (No Ice):	13.25	ft²	Bottom Plate Lateral-Torsional Buckling Rating:	4.83%
Stiffener Side EPA (No Ice):	1.68	ft²	Bottom Plate Tension Yield Rating:	7.36%
Stiffener Front EPA (1/2" Ice):	13.83	ft²	Bottom Plate Tension Rupture Rating:	7.97%
Stiffener Side EPA (1/2" Ice):	3.06	ft²	Bottom Plate Interaction Rating:	5.50%
Stiffener Weight (No Ice):	0.498	kip	Top Pole Punching Shear Rating:	18.49%
Stiffener Weight (1/2" Ice):	0.548	kip	Bottom Pole Punching Shear Rating:	16.07%

Monopole Flange Plate Connection

Elevation = 30 ft.

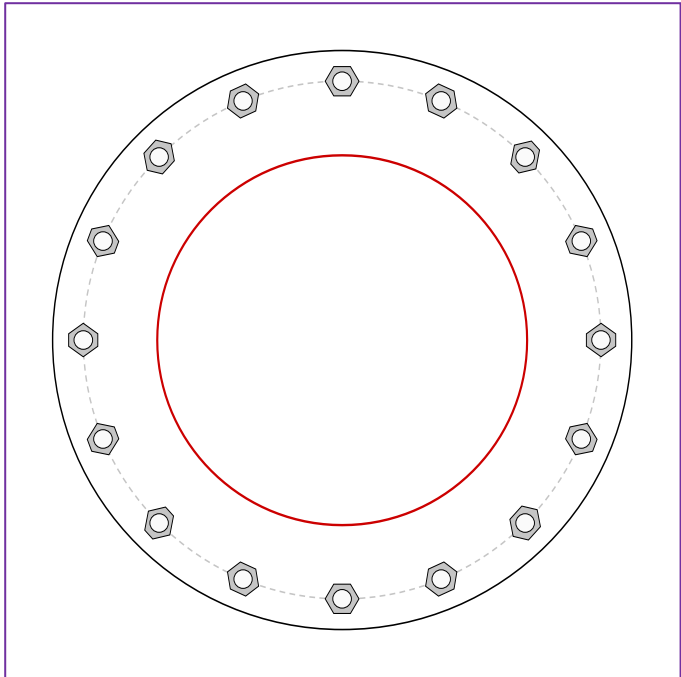


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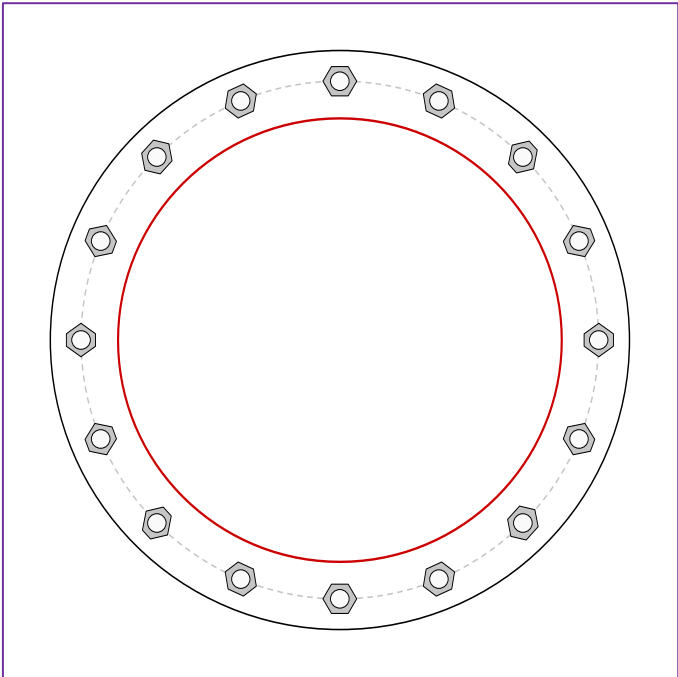
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	469.44	Moment (kip-ft)	936.70
Axial Force (kips)	30.84	Axial Force (kips)	0.00
Shear Force (kips)	25.25	Shear Force (kips)	0.00

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties	
Bolt Data	

(16) 1-1/2" Ø bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 42" BC

Top Plate Data	
47" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Top Stiffener Data	
N/A	

Top Pole Data	
30" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Bridge Stiffener Group 1 Data	
(3) Welded, 7"x1.25", A572-65, Lu=4.9", Upper Plate Width=16", Lower Plate Width=13", Neglect Flange in MOI: No	

Bottom Plate Data	
47" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Bottom Stiffener Data	
N/A	

Bottom Pole Data	
36" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Analysis Results	
Bolt Capacity	

Max Load (kips)	31.59
Allowable (kips)	126.88
Stress Rating:	23.7% Pass

Top Plate Capacity			
Max Stress (ksi):	18.24	(Flexural)	
Allowable Stress (ksi):	32.40		
Stress Rating:	53.6%	Pass	
Tension Side Stress Rating:	29.6%	Pass	

Bottom Plate Capacity			
Max Stress (ksi):	9.18	(Flexural)	
Allowable Stress (ksi):	32.40		
Stress Rating:	27.0%	Pass	
Tension Side Stress Rating:	10.3%	Pass	

Bridge Stiffener Group 1 Analysis Capacity			
Max Compression (kip):	272.49		
Max Tension (kip):	272.49		
Comp. Capacity (kip):	502.98		
Tens. Capacity (kip):	511.88	(Yield)	
Comp. Stress Rating:	51.6%	Pass	
Tens. Stress Rating:	50.7%	Pass	

Welded Bridge Stiffener Design

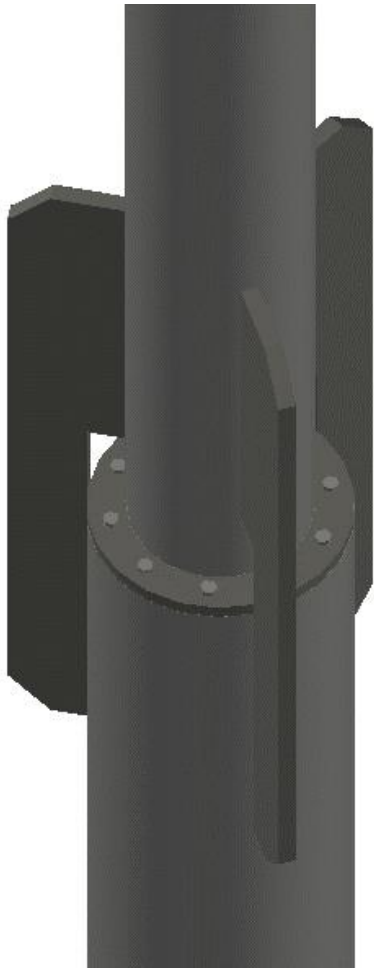
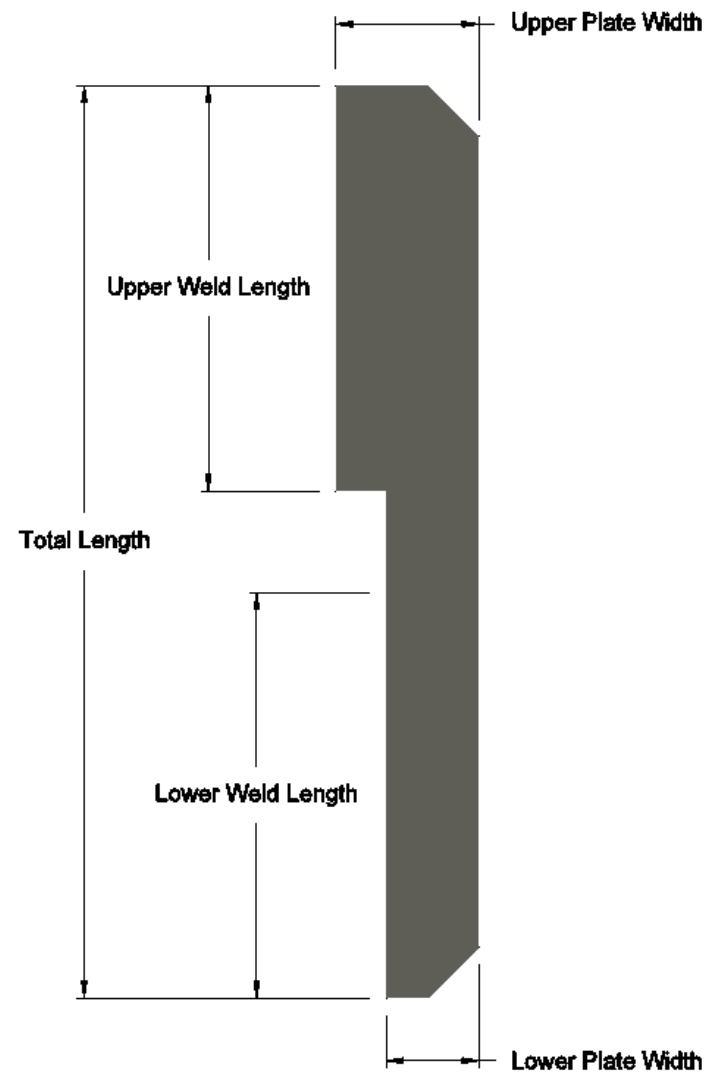
Elevation = 30 ft.



BU #	876309
Site Name	Milford Jai -Alai
Order #	
TIA-222 Revision	H

Applied Loads to Design Groups	
Moment (kip-ft)	936.70
Axial Force (kips)	0.00
Shear Force (kips)	0.00

*TIA-222-H Section 15.5 Applied



Design Properties

Bridge Stiffener Group 1 Data

(3) Welded, 7"x1.25", A572-65, Lu=4.9", Upper Plate Width=16", Lower Plate Width=13", Neglect Flange in MOI: No

Total Length:	97	in	Upper Weld Size:	Good
Weld Type:	Fillet (both sides)		Upper Weld Rating:	36.51%
Weld Size:	0.375	in	Lower Weld Size:	Good
Exx:	80	ksi	Lower Weld Rating:	36.03%
Upper Weld Length:	47.25	in	Top Plate Lateral-Torsional Buckling Rating:	9.75%
Upper Plate Width:	16	in	Top Plate Tension Yield Rating:	11.27%
Lower Weld Length:	44.875	in	Top Plate Tension Rupture Rating:	12.21%
Lower Plate Width:	13	in	Top Plate Interaction Rating:	11.31%
Stiffener Front EPA (No Ice):	13.23	ft²	Bottom Plate Lateral-Torsional Buckling Rating:	7.78%
Stiffener Side EPA (No Ice):	1.68	ft²	Bottom Plate Tension Yield Rating:	11.86%
Stiffener Front EPA (1/2" Ice):	13.81	ft²	Bottom Plate Tension Rupture Rating:	12.85%
Stiffener Side EPA (1/2" Ice):	3.06	ft²	Bottom Plate Interaction Rating:	9.52%
Stiffener Weight (No Ice):	0.497	kip	Top Pole Punching Shear Rating:	30.75%
Stiffener Weight (1/2" Ice):	0.548	kip	Bottom Pole Punching Shear Rating:	25.91%

Monopole Base Plate Connection

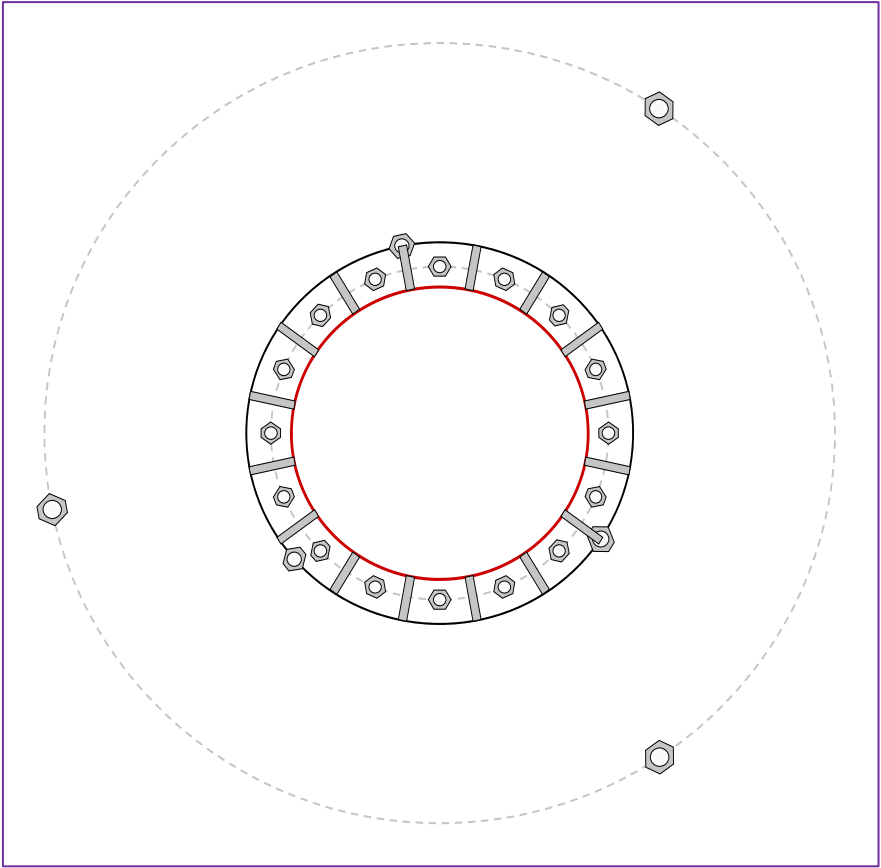


Site Info	
BU #	876309
Site Name	Milford Jai -Alai
Order #	

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
I_{ar} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	2277.71
Axial Force (kips)	45.95
Shear Force (kips)	30.48

*TIA-222-H Section 15.5 Applied



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary <i>(units of kips, kip-in)</i>	
GROUP 1: (16) 1-1/2" ϕ bolts (A354-BC N; F_y =109 ksi, F_u =125 ksi) on 41" BC		GROUP 1:	
GROUP 2: (2) 1-3/4" ϕ bolts (Dywidag N N; F_y =120 ksi, F_u =125 ksi) on 47" BC		Pu_t = 40.28	ϕPn_t = 132.19
<i>pos. (deg): 101.3, 221.3</i>		Vu = 1.9	ϕVn = 82.83
		Mu = n/a	ϕMn = n/a
GROUP 3: (1) 2" ϕ bolts (A193 Gr. B7 N N; F_y =105 ksi, F_u =125 ksi) on 47" BC			Stress Rating
<i>pos. (deg): 326.3</i>			29.0%
GROUP 4: (3) 2-1/4" ϕ bolts (Williams R71 N N; F_y =120 ksi, F_u =125 ksi) on 96" BC			Pass
<i>pos. (deg): 56.3, 191.3, 303.8</i>			
Base Plate Data		GROUP 2:	
47" OD x 2" Plate (A36; F_y =36 ksi, F_u =58 ksi)		Pu_t = 89.66	ϕPn_t = 245.63
		Vu = 0	ϕVn = 122.81
		Mu = n/a	ϕMn = n/a
			Stress Rating
			34.8%
			Pass
Stiffener Data		GROUP 3:	
(16) 18"H x 5.5"W x 1"T, Notch: 0.75"		Pu_t = 78.48	ϕPn_t = 234.38
plate: F_y = 50 ksi ; weld: F_y = 70 ksi		Vu = 0	ϕVn = 147.26
horiz. weld: 0.4375" fillet		Mu = n/a	ϕMn = n/a
vert. weld: 0.25" fillet			Stress Rating
			31.9%
			Pass
Pole Data		GROUP 4:	
36" x 0.375" round pole (A53-B-42; F_y =42 ksi, F_u =63 ksi)		Pu_t = 270.75	ϕPn_t = 382.5
		Vu = 0	ϕVn = 191.25
		Mu = n/a	ϕMn = n/a
			Stress Rating
			67.4%
			Pass
		Base Plate Summary	
		Max Stress (ksi):	9.74 (Roark's Flexural)
		Allowable Stress (ksi):	32.4
		Stress Rating:	28.6% Pass
		Stiffener Summary	
		Horizontal Weld:	28.5% Pass
		Vertical Weld:	14.9% Pass
		Plate Flexure+Shear:	1.9% Pass
		Plate Tension+Shear:	12.2% Pass
		Plate Compression:	12.4% Pass
		Pole Summary	
		Punching Shear:	3.9% Pass

Elevation (ft)

0

(Base)

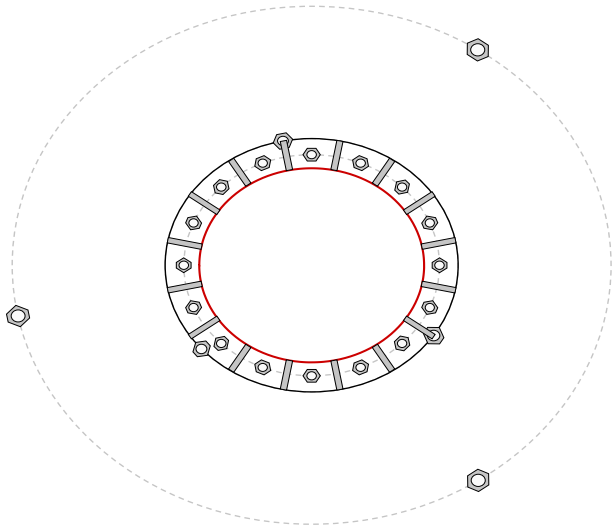
note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	No	No	
2	No	No	No	No	No	
3	No	No	No	No	No	
4	No	No	No	No	No	

Custom Bolt Connection										
Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	I _{br} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1.5	A354-BC	41	0.5	1	N-Included		No
2	1	22.5	1.5	A354-BC	41	0.5	1	N-Included		No
3	1	45	1.5	A354-BC	41	0.5	1	N-Included		No
4	1	67.5	1.5	A354-BC	41	0.5	1	N-Included		No
5	1	90	1.5	A354-BC	41	0.5	1	N-Included		No
6	1	112.5	1.5	A354-BC	41	0.5	1	N-Included		No
7	1	135	1.5	A354-BC	41	0.5	1	N-Included		No
8	1	157.5	1.5	A354-BC	41	0.5	1	N-Included		No
9	1	180	1.5	A354-BC	41	0.5	1	N-Included		No
10	1	202.5	1.5	A354-BC	41	0.5	1	N-Included		No
11	1	225	1.5	A354-BC	41	0.5	1	N-Included		No
12	1	247.5	1.5	A354-BC	41	0.5	1	N-Included		No
13	1	270	1.5	A354-BC	41	0.5	1	N-Included		No
14	1	292.5	1.5	A354-BC	41	0.5	1	N-Included		No
15	1	315	1.5	A354-BC	41	0.5	1	N-Included		No
16	1	337.5	1.5	A354-BC	41	0.5	1	N-Included		No
17	2	101.3	1.75	Dywidag N	47	0.5	0	N-Included	2.62	No
18	2	221.3	1.75	Dywidag N	47	0.5	0	N-Included	2.62	No
19	3	326.3	2	A193 Gr. B7 N	47	0.5	0	N-Included		No
20	4	56.3	2.25	Williams R71 N	96	0.5	0	N-Included	4.08	No
21	4	191.3	2.25	Williams R71 N	96	0.5	0	N-Included	4.08	No
22	4	303.8	2.25	Williams R71 N	96	0.5	0	N-Included	4.08	No

Custom Stiffener Connection														
Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	11.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
2	1	33.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
3	1	56.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
4	1	78.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
5	1	101.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
6	1	123.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
7	1	146.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
8	1	168.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
9	1	191.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
10	1	213.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
11	1	236.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
12	1	258.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
13	1	281.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
14	1	303.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
15	1	326.25	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70
16	1	348.75	5.5	18	1	0.75	0.75	50	Fillet			0.4375	0.25	70

Plot Graphic



Pier and Pad Foundation



BU #: 876309
 Site Name: MILFORD JAI-ALA
 App. Number: 689410 Rev.0

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?: ☐
 Block Foundation?: ☒
 Rectangular Pad?: ☒

Superstructure Analysis Reactions		
Compression, P_{comp} :	45.95	kips
Base Shear, V_u _comp:	30.48	kips
Moment, M_u :	2277.71	ft-kips
Tower Height, H :	120	ft
BP Dist. Above Fdn, bp_{dist} :	4	in
Bolt Circle / Bearing Plate Width, BC :	41	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	161.13	30.48	18.0%	Pass
Bearing Pressure (ksf)	22.50	8.74	38.9%	Pass
Overturning (kip*ft)	2707.53	2501.23	92.4%	Pass
Pad Flexure (kip*ft)	4766.69	1507.14	30.1%	Pass
Pad Shear - 1-way (kips)	1254.07	101.11	7.7%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.164	0.001	0.7%	Pass
Flexural 2-way (Comp) (kip*ft)	9533.38	0.00	0.0%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	30.1%
Soil Rating*:	92.4%

Pad Properties		
Depth, D :	5.5	ft
Pad Width, W_1 :	16	ft
Pad Width, W_2 :	21	ft
Pad Thickness, T :	7	ft
Pad Rebar Size (Bottom dir. 1), Sp_1 :	8	
Pad Rebar Quantity (Bottom dir. 1), mp_1 :	17	
Pad Rebar Size (Bottom dir. 2), Sp_2 :	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	17	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	130	pcf
Ultimate Gross Bearing, Q_{ult} :	30.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	40	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.35	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

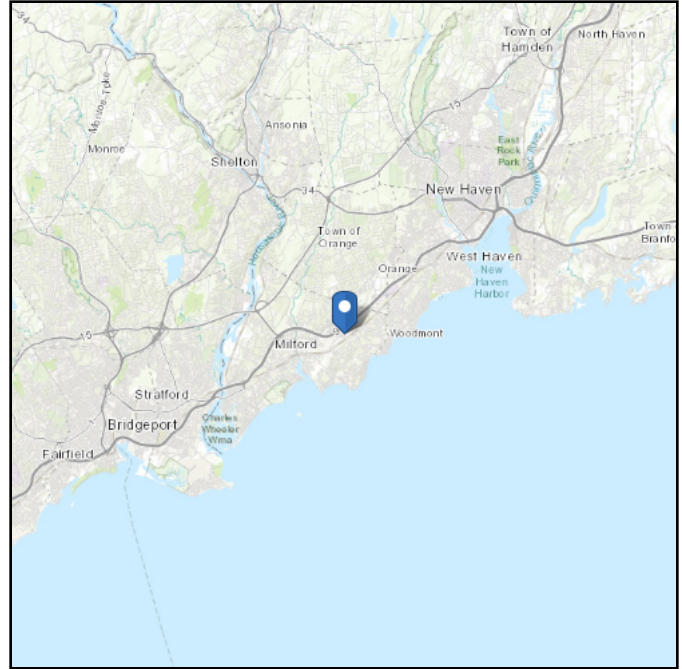
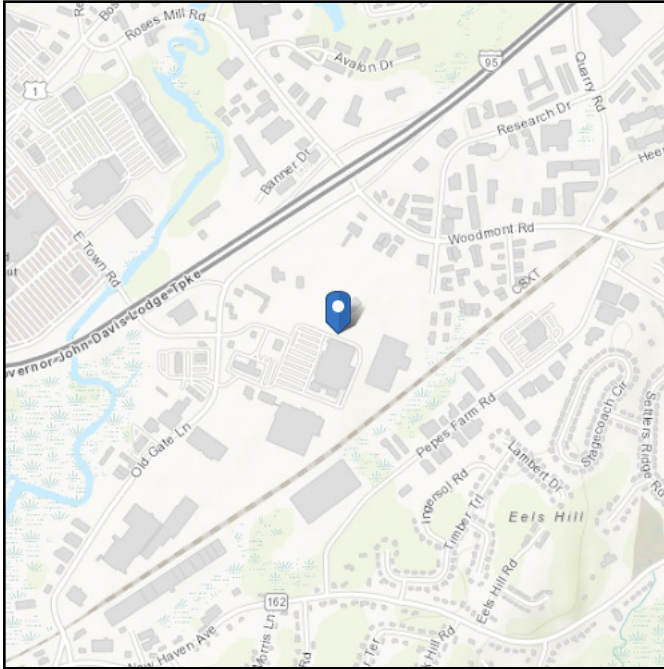
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ASCE Hazards Report

Address:
No Address at This Location

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

Latitude: 41.234053
Longitude: -73.022889
Elevation: 53.8585084327898 ft (NAVD
88)



Wind

Results:

Wind Speed	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	91 Vmph
100-year MRI	99 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: Tue Dec 31 2024

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).

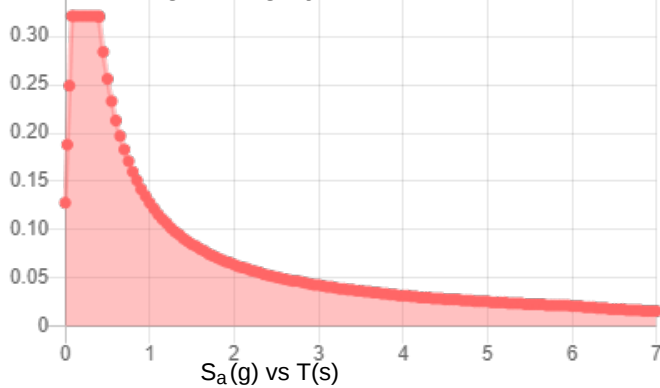
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

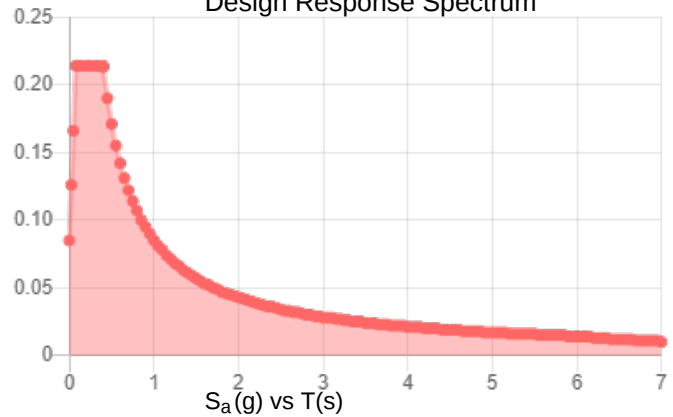
Results:

S_S :	0.2	S_{D1} :	0.085
S_1 :	0.053	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.177
S_{MS} :	0.321	F_{PGA} :	1.575
S_{M1} :	0.128	I_e :	1
S_{DS} :	0.214	C_v :	0.701

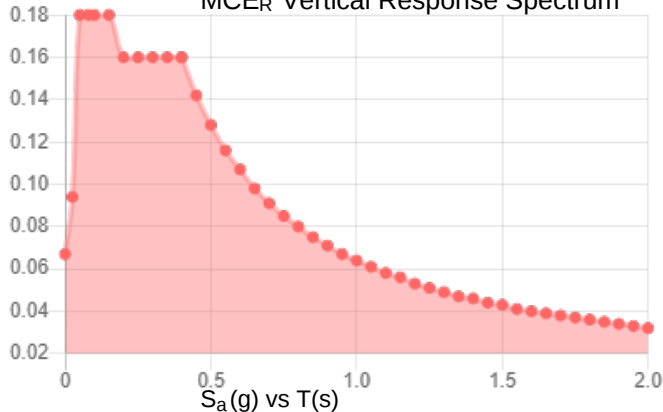
Seismic Design Category: B MCE_R Response Spectrum



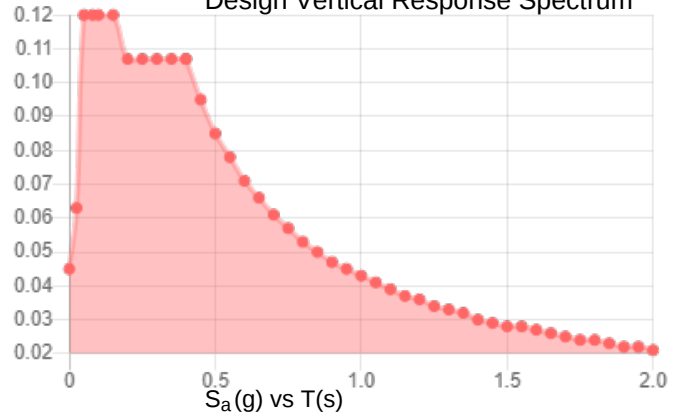
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Tue Dec 31 2024

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: Tue Dec 31 2024

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.

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Reviewed
Cody Smith
Jacobs

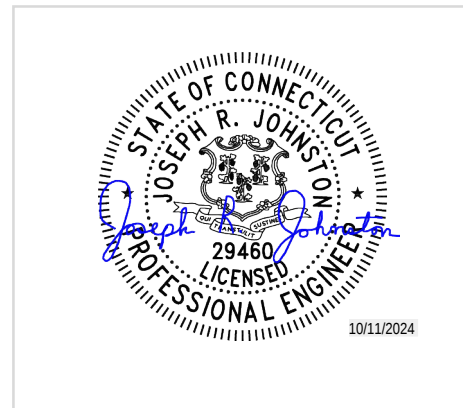
10/15/2024

Mount Analysis Report

October 11, 2024

AT&T FA #:	10546792
AT&T Site Name:	S2814
AT&T PTN #:	2051A1BKEK
Airosmith Project ID:	JAC NE MCA T6
Site Location	311 Old Gate Lane Milford, CT 06460 New Haven County 41° 14' 2.59" N NAD83 73° 1' 22.40" W NAD83
Mount Type	(3) 14.5-ft Sector Frames (Commscope P/N: MCG22HDX14-12)
Demand-Capacity Ratio (CSR)	47.3%
Overall Result	Conditional Pass
Note	The mount requires modifications per project scope to conform with AT&T Mobility's Macro Build Standard. See Section 5.0 Results and Conclusions for details.

PREPARED FOR:



APPROVED BY: Joseph R. Johnston, P.E.
CT License #: 29460



1.0 Scope

Airosmith Engineering has been requested to perform a mount analysis on the existing AT&T Mobility mounting frames with proposed modifications to conform with AT&T Mobility's Macro Build Standard for AT&T Mobility's upgrade. The mounting frames were analyzed using RISA-3D Version 22.0.1 analysis software. Selected output from the analysis is included in this report.

2.0 Supporting Documentation

Structural Analysis	Crown Castle, Project Number: 2183602, FA Number: 10546792 dated 12/06/2022
Site Photos	Ericsson via ESDT Portal, dated 03/21/2024
DE130 Scoping Document	Provided by Jacobs, FA Number: 10546792, dated 05/04/2024
Construction Drawings	Airosmith Project ID: JAC NE MCA T6, Rev A, dated 07/02/2024 with review comments provided by Jacobs, dated 07/10/2024
Mount Manufacturer Drawings	Commscope P/N: MCG22HDX, dated 10/29/2020

3.0 Analysis Code Requirements

Adopted Building Code	2022 Connecticut State Building Code/2021 IBC
Design Standard	ASCE 7-16 / ANSI/TIA-222-H
Basic Wind Speed w/o Ice	120 mph (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust)
Design Ice Thickness	1.0 in.
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 1, Category 1
Spectral Response	$S_s = 0.2 \text{ g} / S_1 = 0.053 \text{ g}$
Site Class	D – Default (Assumed)
Ground Elevation	54 ft. (AMSL)



4.0 Final Appurtenance Configuration

RAD Center (ft.)	Qty.	Appurtenance*	Mount Type
83.0	3	CCI DMP65R-BU8D	(3) 14.5' Sector Frames (Commscope P/N: MCG22HDX14-12)
	3	CCI TPA65RBU8D	
	3	ERICSSON AIR6472 B77G B77M	
	3	ERICSSON RADIO 4478 B14	
	3	ERICSSON RADIO 4415 B30	
	3	ERICSSON RADIO 4449 B5/B12	
	3	ERICSSON RADIO 8843 B2/B66A	
	1	RAYCAP DC9-48-60-24-8C-EV	
	1	RAYCAP DC9-48-60-24-8C-EV	
	1	SIMFQ-WCS-AMT-R40	

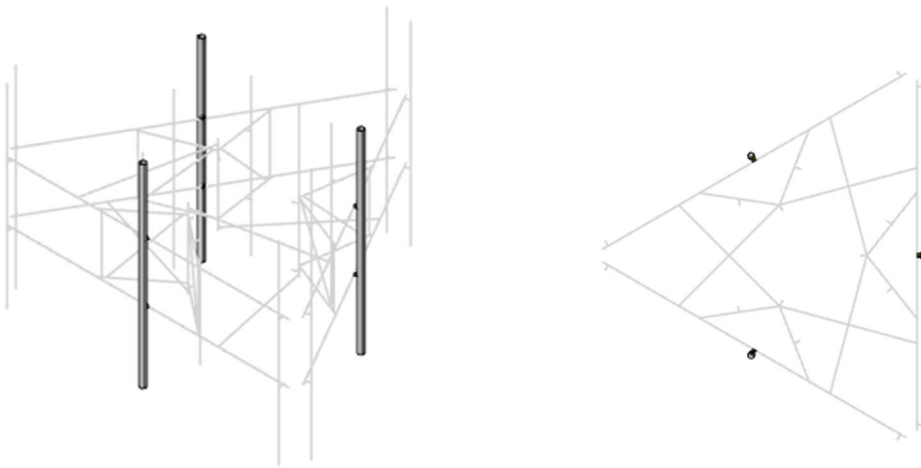
*Bold items denote appurtenances to be installed

5.0 Results and Conclusions

Upon reviewing the results of this analysis, it is our opinion that the existing mounts with modifications meet the specified code requirements. **Therefore, the existing mounts with modifications and their connections to the structure are considered acceptable to support the final AT&T Mobility appurtenance configuration** as listed within this report.

Required Mount Modifications:

Install new mount pipe 3.5" OD, 10-ft long (Commscope P/N: MT-547-126, CONMAT ANT. 57351) (1/sector, 3 total) attached to the existing mount horizontals utilizing SitePro1 P/N: SCX7-U (CONMAT ANT.16985) (2/sector, 6 total) in position 2 for all sectors.



The controlling structure and connection usages are displayed in the table below:

Final Structure Usages

Component	Controlling Usage
Mount Pipes	47.3%
Horizontal	45.9%
Standoff	30.5%
Tieback	8.4%
Connection	12.6%

We appreciate the opportunity to be of service on this project. If you have any questions, require additional information, or actual conditions differ from those as detailed in this report, please contact me via the information below:

Harrison Raesly
engineering@airosmithdevelopment.com

6.0 Assumptions & Limitations

The following assumptions have been made for this analysis:

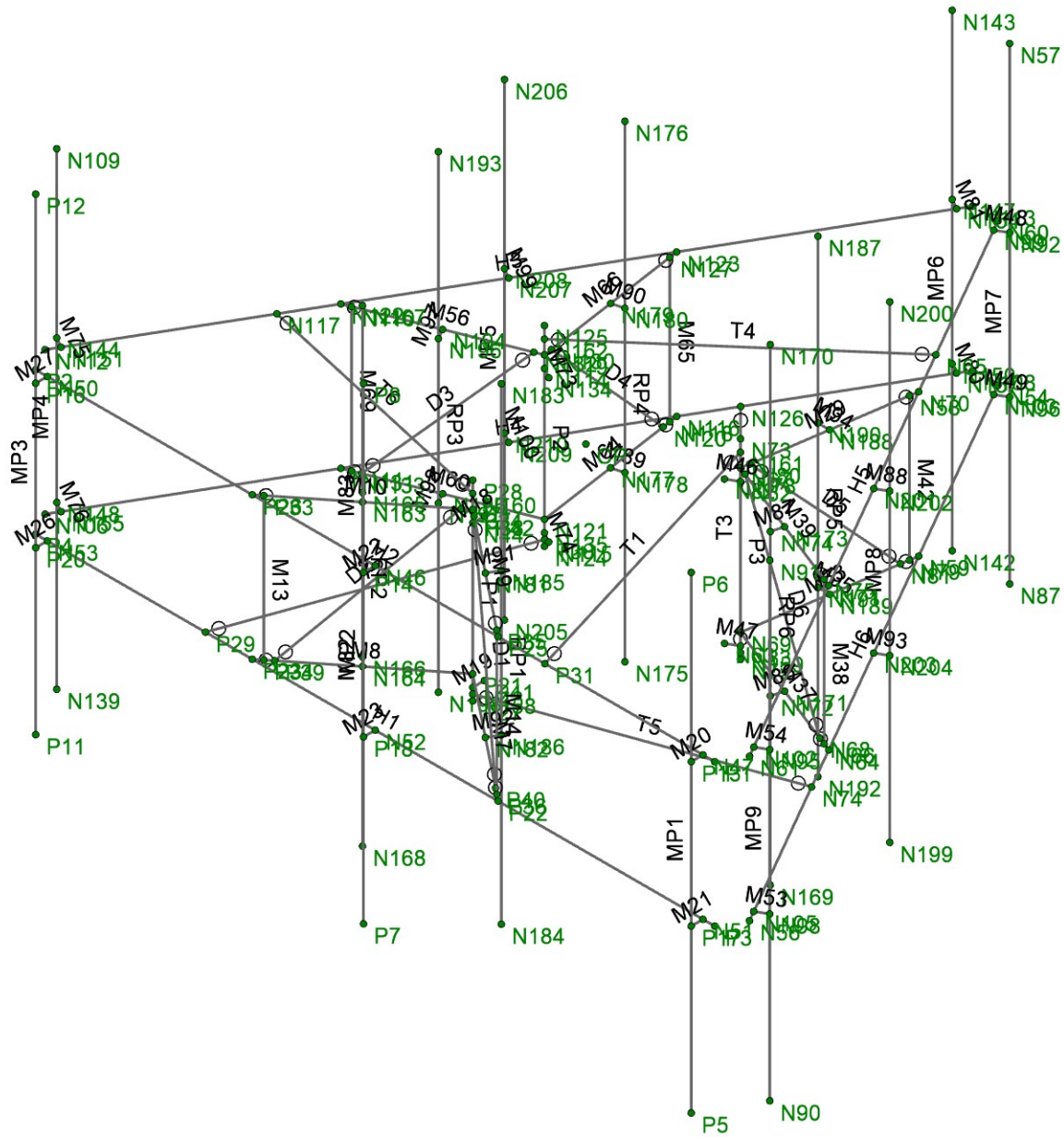
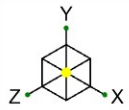
- Structural calculations are completed assuming all information provided to Airosmith Engineering is accurate and applicable to this site.
- The existing structures were designed, manufactured, and constructed in accordance with the applicable codes and standards in effect at that time
- The existing structures have been properly maintained in accordance with industry standards.
- All structural and foundation elements, unless otherwise noted, are in good condition, and are capable of supporting their original design capacity.
- Steel grades have been assumed as follows, unless otherwise noted
 - Channel, Solid Round, Angle & Plate ASTM A36 Gr. 36
 - HSS (Rectangular) ASTM A500 Gr. B
 - HSS (Pipe) ASTM A53 Gr. B
 - Threaded Rods ASTM A36 Gr. 36
- Calculation-specific assumptions are as noted in the attached appendix



Project Information	
Date:	10/11/2024
Carrier:	AT&T Mobility
Client:	Jacobs
Engineer:	HR
Site ID:	10546792
Site Information	
Structure Type:	Antenna Mount
Parent Structure:	Monopole
Parent Structure Height:	120.00 ft
Mount Centerline:	83.00 ft
Ground Elevation:	54.00 ft
Sector:	All Sectors
Code Information & Wind Data	
Antenna Load Standard:	Rev-H
Basic Wind Speed (Vult):	120 mph
Basic Wind Speed w/ Ice (V _I):	50 mph
Ice Thickness:	1.00 in
Exposure Category:	C
Risk Category:	II
Topo Factor Procedure:	Method 1
Topo Category:	1
Crest Height:	0.00 ft
Apply TIA-222-H Rooftop Wind Speed-Up Factor?	No
Apply TIA-222-H Annex 5 Factors?	No
Seismic Data	
Site Class:	D - Default
S _s :	0.200 g
S ₁ :	0.053 g
T _L :	6 sec

Mount Wind Load Factors	
I _w :	N/A
K _z :	0.90
K _s :	1.22
K _z :	1.10
K _g :	1.00
K _s :	1.00
K _e :	1.00
K _g :	0.95
G _h :	1.00
K _{es} (F _w):	1.00
K _{es} (f ₁):	1.00
q _z :	42.53 psf
Seismic Load Factors	
F _a :	1.600
F _v :	2.400
S _{DS} :	0.213
S _{D1} :	0.085
A _s :	1.2
R:	2.0
I _e :	1.0

Appurtenance Loading Information:											
Appurtenance Model	Rad Center (ft)	Height/Dia (in)	Width (in)	Depth (in)	Weight (lb)	q _z (psf)	EPA _N (ft ²)	EPA _T (ft ²)	F _N (lb)	F _T (lb)	Seismic F (lb)
CCI TPA65R-BU6D	83.00	71.20	20.70	7.70	68.30	42.53	12.71	5.62	535.19	236.45	8.74
ERICSSON AIR6472 B77G B77M	83.00	36.30	15.80	9.30	77.00	42.53	4.78	2.96	201.26	124.62	9.86
CCI DMP65R-BU8D	83.00	96.00	20.70	7.70	119.00	42.53	17.87	8.12	752.54	342.02	15.23
ERICSSON RADIO 4478 B14	83.00	16.50	13.50	7.70	60.00	42.53	1.86	1.06	61.37	61.37	7.68
ERICSSON RADIO 4415 B30	83.00	14.90	13.20	5.00	42.90	42.53	1.64	0.63	47.81	47.81	5.49
ERICSSON RADIO 4449 B5/B12	83.00	14.96	13.19	10.51	74.95	42.53	1.64	1.31	62.21	62.21	9.59
ERICSSON RADIO 8843 B2/B66A	83.00	14.96	13.19	11.10	75.00	42.53	1.64	1.38	63.76	63.76	9.60
RAYCAP DC9-48-60-24-8C-EV (Squid)	83.00	31.41	10.24	10.24	26.20	42.53	1.14	1.14	48.21	48.21	3.35
RAYCAP DC9-48-60-24-8C-EV (Squid)	83.00	31.41	10.24	10.24	26.20	42.53	1.14	1.14	48.21	48.21	3.35
CCI TPA65R-BU6D	83.00	71.20	20.70	7.70	68.30	42.53	12.71	5.62	311.14	460.50	8.74
ERICSSON AIR6472 B77G B77M	83.00	36.30	15.80	9.30	77.00	42.53	4.78	2.96	143.78	182.10	9.86
CCI DMP65R-BU8D	83.00	96.00	20.70	7.70	119.00	42.53	17.87	8.12	444.65	649.91	15.23
ERICSSON RADIO 4478 B14	83.00	16.50	13.50	7.70	60.00	42.53	1.86	1.06	46.83	75.92	7.68
ERICSSON RADIO 4415 B30	83.00	14.90	13.20	5.00	42.90	42.53	1.64	0.63	29.45	66.18	5.49
ERICSSON RADIO 4449 B5/B12	83.00	14.96	13.19	10.51	74.95	42.53	1.64	1.31	68.30	56.12	9.59
ERICSSON RADIO 8843 B2/B66A	83.00	14.96	13.19	11.10	75.00	42.53	1.64	1.38	68.51	59.01	9.60
CCI TPA65R-BU6D	83.00	71.20	20.70	7.70	68.30	42.53	12.71	5.62	311.14	460.50	8.74
ERICSSON AIR6472 B77G B77M	83.00	36.30	15.80	9.30	77.00	42.53	4.78	2.96	143.78	182.10	9.86
CCI DMP65R-BU8D	83.00	96.00	20.70	7.70	119.00	42.53	17.87	8.12	444.65	649.91	15.23
ERICSSON RADIO 4478 B14	83.00	16.50	13.50	7.70	60.00	42.53	1.86	1.06	75.92	46.83	7.68
ERICSSON RADIO 4415 B30	83.00	14.90	13.20	5.00	42.90	42.53	1.64	0.63	66.18	29.45	5.49
ERICSSON RADIO 4449 B5/B12	83.00	14.96	13.19	10.51	74.95	42.53	1.64	1.31	56.12	68.30	9.59
ERICSSON RADIO 8843 B2/B66A	83.00	14.96	13.19	11.10	75.00	42.53	1.64	1.38	59.01	68.51	9.60
SIMFQ-WCS-AMT-R40	83.00	6.38	8.11	6.93	17.86	42.53	0.43	0.37	16.17	17.49	2.29



Envelope Only Solution



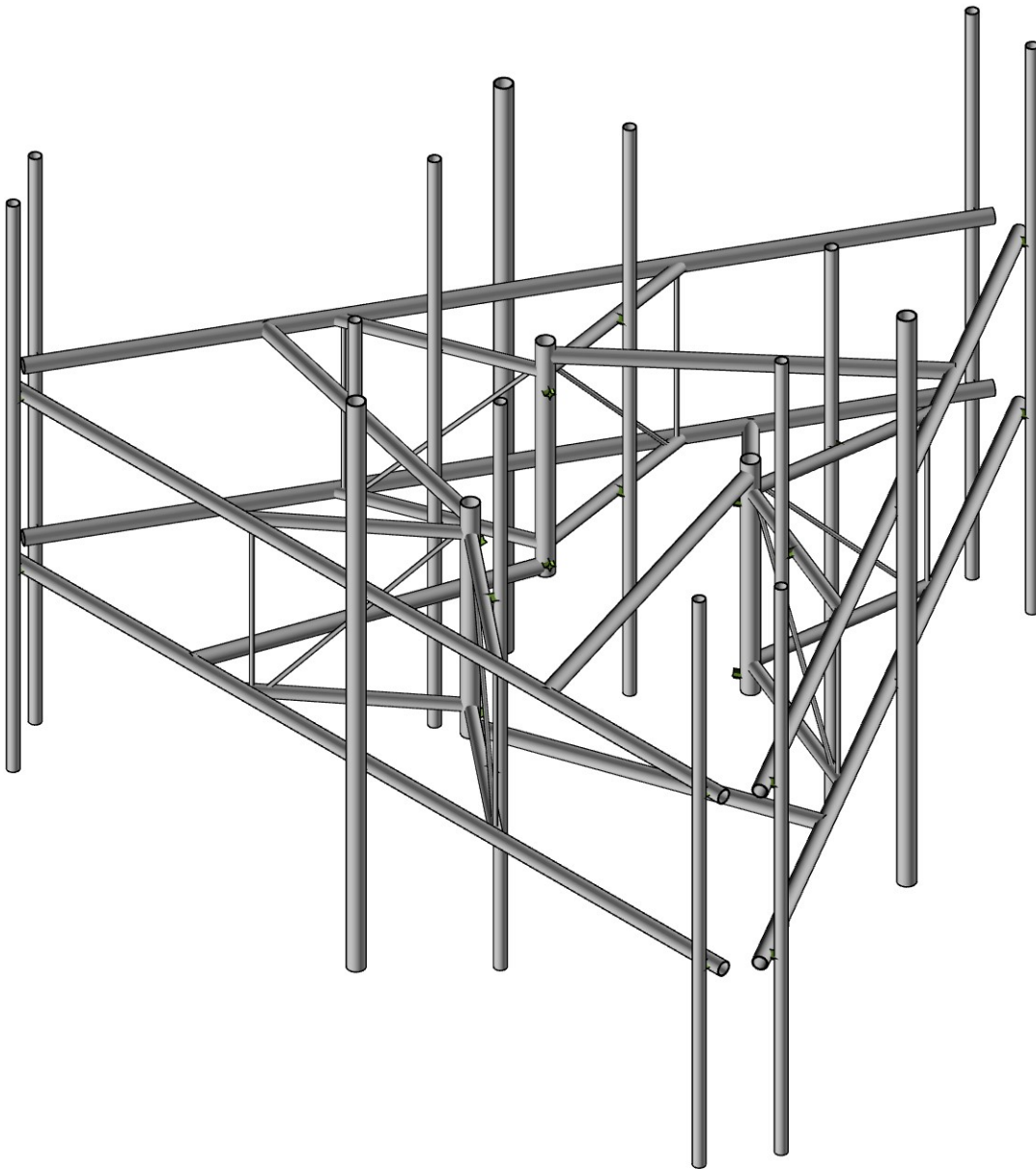
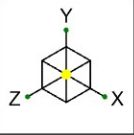
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10546792

WIREFRAME1

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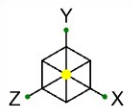
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JAC NE MCA T6

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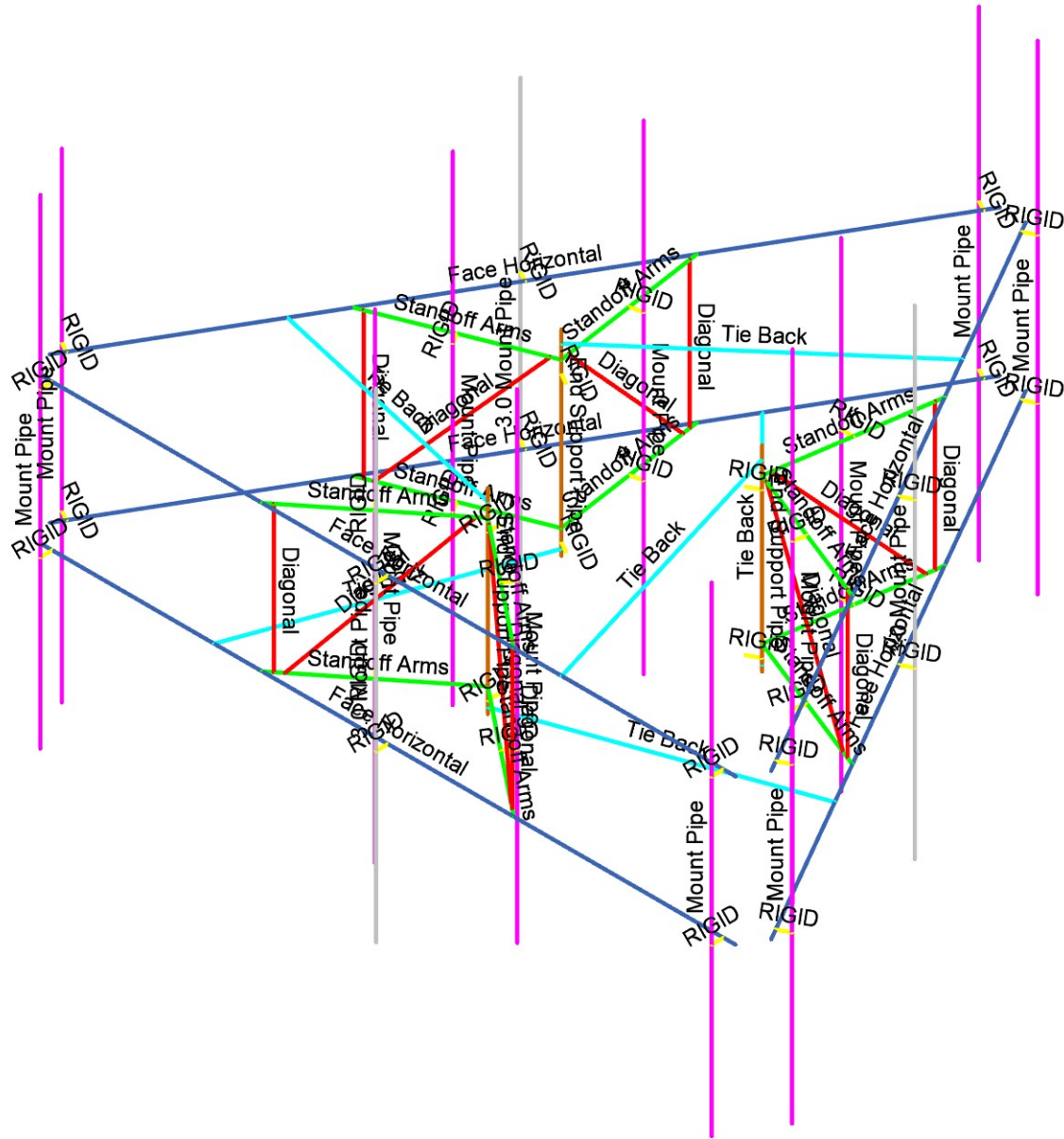
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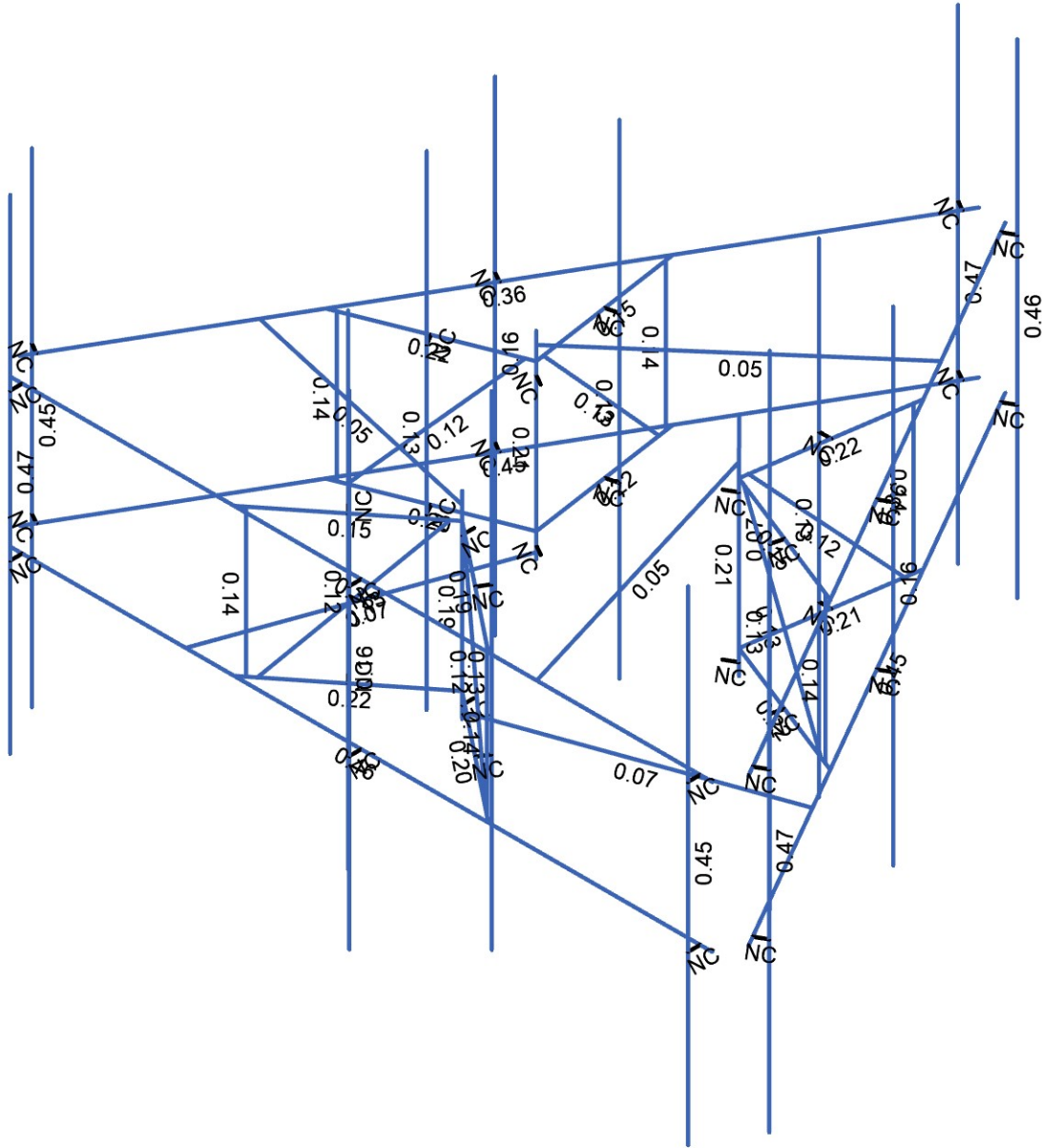
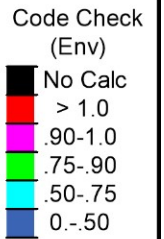
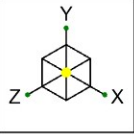
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Section Sets	
■	Face Horizontal
■	Standoff Arms
■	Diagonal
■	3.0 Mount Pipe
■	Mount Pipe
■	Tie Back
■	End Support Pipe
■	RIGID



Envelope Only Solution		10546792	SECTION SETS3	
 IRISA A NEMETSCHEK COMPANY	Airosmith Engineering		Oct 11, 2024 at 12:55 PM	
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Member Code Checks Displayed (Enveloped)
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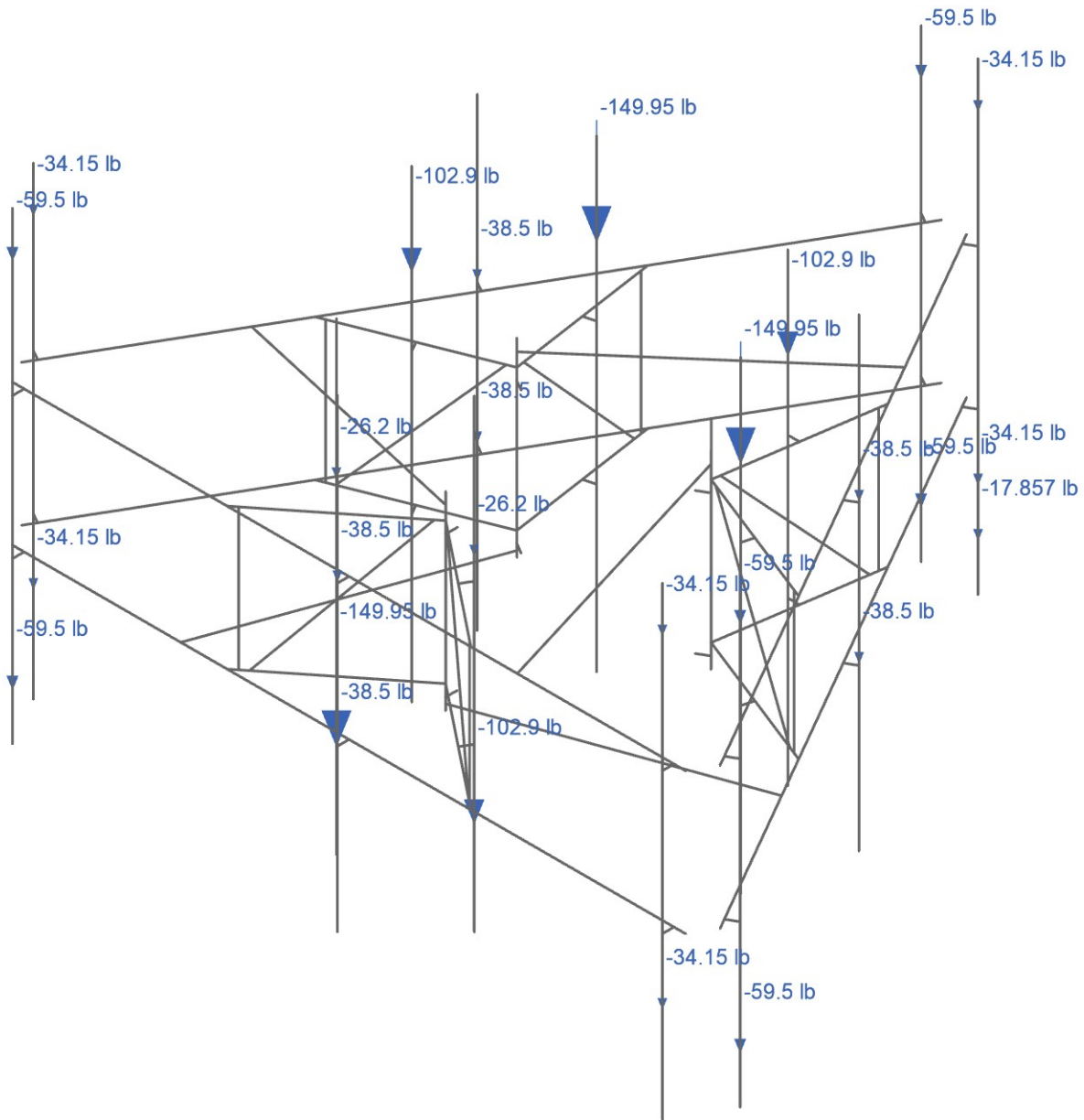
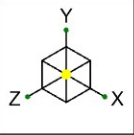
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BENDING CHECK4

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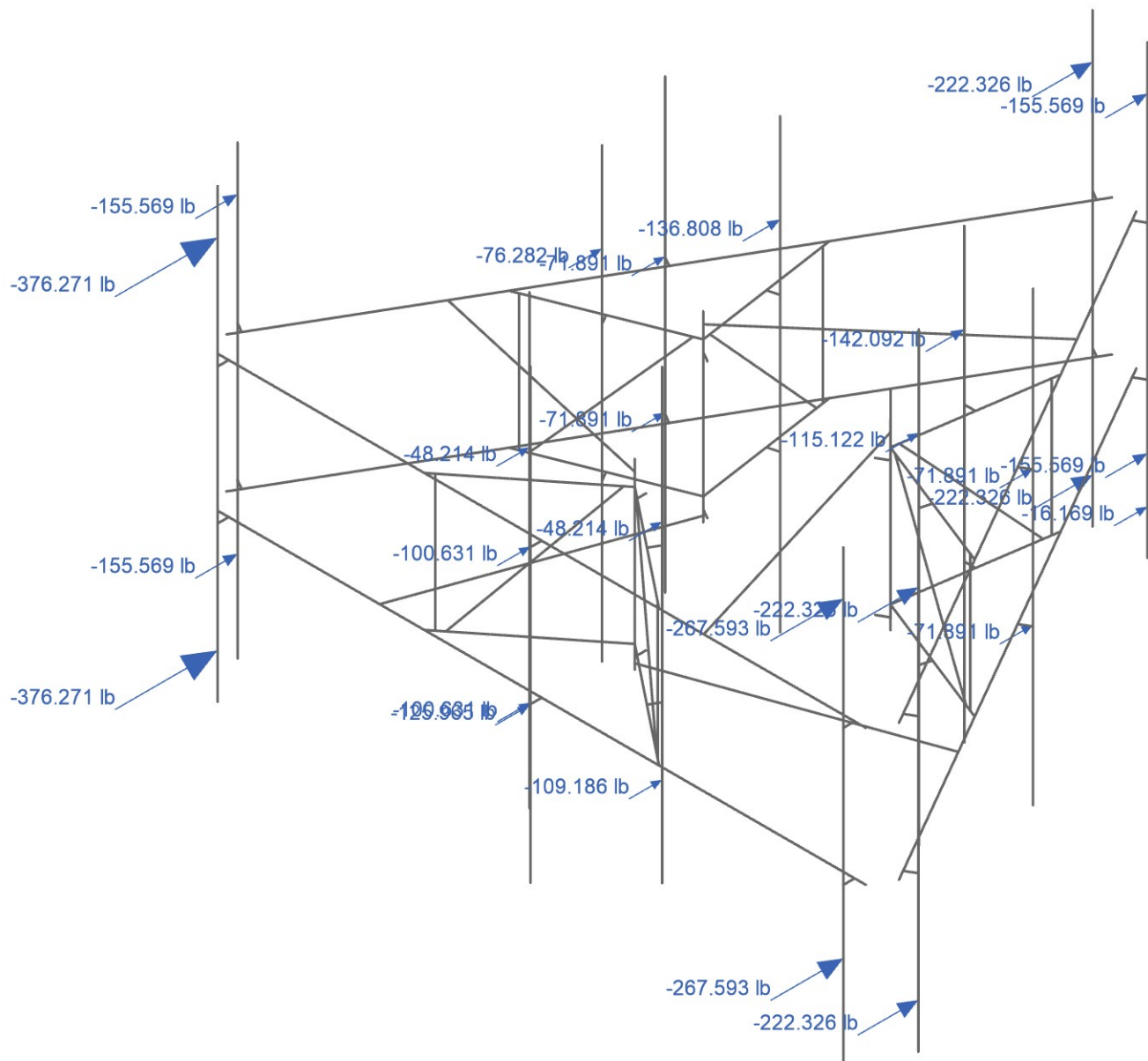
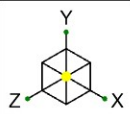
Loads: BLC 1, Self Weight
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10546792

SELF WEIGHT5
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Loads: BLC 2, Wind Load 0 AZI
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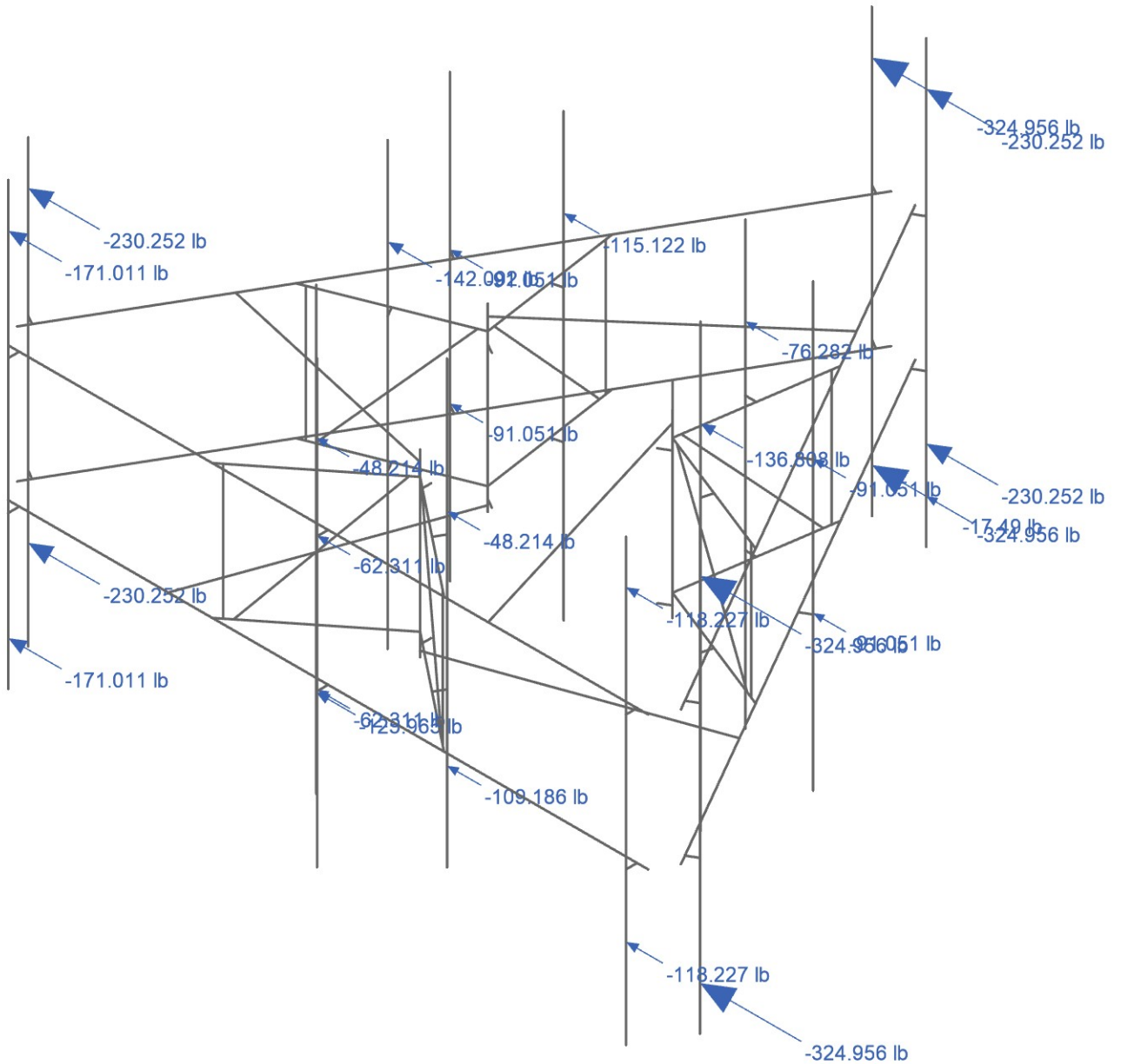
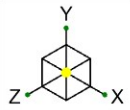
Airosmith Engineering
HR
JAC NE MCA T6

10546792

WIND LOAD7

Oct 11, 2024 at 12:58 PM

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Loads: BLC 6, Wind Load 90 AZI
Envelope Only Solution



Airosmith Engineering
HR
JAC NE MCA T6

10546792

WIND LOAD 90 8

Oct 11, 2024 at 12:58 PM

10546792-CT2814_loaded.r3d

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁻⁶ F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
2	A529 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
3	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	0.3	0.65	0.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	0.3	0.65	0.49	46	1.4	58	1.3
6	A53 Gr B	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	Face Horizontal	PIPE 2.5	Beam	HSS Pipe	A500 Gr.46	Typical	1.61	1.45	1.45	2.89
2	Standoff Arms	2.38"X0.120"	Beam	Pipe	A500 Gr.46	Typical	0.852	0.545	0.545	1.091
3	Diagonal	SR3/4	VBrace	BAR	A529 Gr.50	Typical	0.442	0.016	0.016	0.031
4	3.0 Mount Pipe	PIPE 3.0	VBrace	HSS Pipe	A500 Gr.46	Typical	2.07	2.85	2.85	5.69
5	Mount Pipe	2.38"X0.120"	VBrace	Pipe	A500 Gr.46	Typical	0.852	0.545	0.545	1.091
6	Tie Back	2.88"X0.120"	Beam	Pipe	A500 Gr.46	Typical	1.04	0.993	0.993	1.985
7	End Support Pipe	3.5"X0.120	VBrace	Pipe	A500 Gr.46	Typical	1.274	1.822	1.822	3.644

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	H2	P1	P2		Face Horizontal	Beam	HSS Pipe	A500 Gr.46	Typical
2	H1	P3	P4		Face Horizontal	Beam	HSS Pipe	A500 Gr.46	Typical
3	MP1	P5	P6	180	Mount Pipe	VBrace	Pipe	A500 Gr.46	Typical
4	MP2	P7	P8	180	3.0 Mount Pipe	VBrace	HSS Pipe	A500 Gr.46	Typical
5	MP3	P11	P12	180	Mount Pipe	VBrace	Pipe	A500 Gr.46	Typical
6	M7	P21	P22		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
7	M8	P21	P23		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
8	M9	P24	P25		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
9	M10	P24	P26		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
10	D2	P39	P37		Diagonal	VBrace	BAR	A529 Gr.50	Typical
11	D1	P40	P38		Diagonal	VBrace	BAR	A529 Gr.50	Typical
12	M13	P33	P34	180	Diagonal	VBrace	BAR	A529 Gr.50	Typical
13	M14	P35	P36	180	Diagonal	VBrace	BAR	A529 Gr.50	Typical
14	P1	P28	P27	180	End Support Pipe	VBrace	Pipe	A500 Gr.46	Typical
15	T2	P29	P30		Tie Back	Beam	Pipe	A500 Gr.46	Typical
16	T1	P31	N161		Tie Back	Beam	Pipe	A500 Gr.46	Typical
17	M18	N44	P42		RIGID	None	None	RIGID	Typical
18	M19	N43	P41		RIGID	None	None	RIGID	Typical
19	M20	N47	P13		RIGID	None	None	RIGID	Typical
20	M21	N51	P17		RIGID	None	None	RIGID	Typical
21	M22	N46	P14		RIGID	None	None	RIGID	Typical
22	M23	N52	P18		RIGID	None	None	RIGID	Typical
23	M26	N53	P20		RIGID	None	None	RIGID	Typical
24	M27	N50	P16		RIGID	None	None	RIGID	Typical
25	M29	N67	N70		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
26	MP9	N90	N91	180	Mount Pipe	VBrace	Pipe	A500 Gr.46	Typical
27	H5	N60	N61		Face Horizontal	Beam	HSS Pipe	A500 Gr.46	Typical
28	M33	N69	N59		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
29	H6	N54	N56		Face Horizontal	Beam	HSS Pipe	A500 Gr.46	Typical
30	MP7	N87	N57	180	Mount Pipe	VBrace	Pipe	A500 Gr.46	Typical
31	M37	N69	N64		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
32	M38	N75	N66	180	Diagonal	VBrace	BAR	A529 Gr.50	Typical
33	M39	N67	N71		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
34	D6	N68	N78		Diagonal	VBrace	BAR	A529 Gr.50	Typical
35	D5	N81	N80		Diagonal	VBrace	BAR	A529 Gr.50	Typical
36	M42	N58	N79	180	Diagonal	VBrace	BAR	A529 Gr.50	Typical
37	P3	N73	N72	180	End Support Pipe	VBrace	Pipe	A500 Gr.46	Typical
38	T5	N74	N158		Tie Back	Beam	Pipe	A500 Gr.46	Typical
39	T4	N65	N162		Tie Back	Beam	Pipe	A500 Gr.46	Typical
40	M46	N62	N82		RIGID	None	None	RIGID	Typical
41	M47	N83	N63		RIGID	None	None	RIGID	Typical
42	M48	N99	N92		RIGID	None	None	RIGID	Typical
43	M49	N103	N96		RIGID	None	None	RIGID	Typical
44	M53	N105	N98		RIGID	None	None	RIGID	Typical
45	M54	N102	N95		RIGID	None	None	RIGID	Typical
46	M56	N119	N122		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
47	MP6	N142	N143	180	Mount Pipe	VBrace	Pipe	A500 Gr.46	Typical
48	H3	N112	N113		Face Horizontal	Beam	HSS Pipe	A500 Gr.46	Typical
49	M60	N121	N111		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
50	H4	N106	N108		Face Horizontal	Beam	HSS Pipe	A500 Gr.46	Typical
51	MP4	N139	N109	180	Mount Pipe	VBrace	Pipe	A500 Gr.46	Typical
52	M64	N121	N116		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
53	M65	N127	N118	180	Diagonal	VBrace	BAR	A529 Gr.50	Typical
54	M66	N119	N123		Standoff Arms	Beam	Pipe	A500 Gr.46	Typical
55	D4	N120	N130		Diagonal	VBrace	BAR	A529 Gr.50	Typical

Member Primary Data (Continued)

Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
56	D3	N133	N132	Diagonal	VBrace	BAR	A529 Gr.50	Typical
57	M69	N110	N131	180	Diagonal	VBrace	BAR	Typical
58	P2	N125	N124	180	End Support Pipe	VBrace	Pipe	Typical
59	T3	N126	N159		Tie Back	Beam	Pipe	Typical
60	T6	N117	N160		Tie Back	Beam	Pipe	Typical
61	M73	N114	N134		RIGID	None	None	Typical
62	M74	N135	N115		RIGID	None	None	Typical
63	M75	N151	N144		RIGID	None	None	Typical
64	M76	N155	N148		RIGID	None	None	Typical
65	M80	N157	N150		RIGID	None	None	Typical
66	M81	N154	N147		RIGID	None	None	Typical
67	M82	N164	N166		RIGID	None	None	Typical
68	M83	N163	N165		RIGID	None	None	Typical
69	RP2	N167	N168		Mount Pipe	VBrace	Pipe	Typical
70	RP6	N170	N169		Mount Pipe	VBrace	Pipe	Typical
71	M86	N171	N172		RIGID	None	None	Typical
72	M87	N173	N174		RIGID	None	None	Typical
73	RP4	N176	N175		Mount Pipe	VBrace	Pipe	Typical
74	M89	N177	N178		RIGID	None	None	Typical
75	M90	N179	N180		RIGID	None	None	Typical
76	M91	N181	N185		RIGID	None	None	Typical
77	M92	N182	N186		RIGID	None	None	Typical
78	RP1	N183	N184		Mount Pipe	VBrace	Pipe	Typical
79	M94	N188	N190		RIGID	None	None	Typical
80	M95	N189	N191		RIGID	None	None	Typical
81	RP5	N187	N192		Mount Pipe	VBrace	Pipe	Typical
82	M97	N194	N196		RIGID	None	None	Typical
83	M98	N195	N197		RIGID	None	None	Typical
84	RP3	N193	N198		Mount Pipe	VBrace	Pipe	Typical
85	MP8	N199	N200	180	3.0 Mount Pipe	VBrace	HSS Pipe	Typical
86	M88	N201	N202		RIGID	None	None	Typical
87	M93	N203	N204		RIGID	None	None	Typical
88	MP5	N205	N206	180	3.0 Mount Pipe	VBrace	HSS Pipe	Typical
89	M99	N207	N208		RIGID	None	None	Typical
90	M100	N209	N210		RIGID	None	None	Typical

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed
1	Self Weight	DL		-1			33	
2	Wind Load 0 AZI	None					33	
3	Wind Load 30 AZI	None					66	
4	Wind Load 45 AZI	None					66	
5	Wind Load 60 AZI	None					66	
6	Wind Load 90 AZI	None					33	
7	Wind Load 120 AZI	None					66	
8	Wind Load 135 AZI	None					66	
9	Wind Load 150 AZI	None					66	
10	Structure Wind Z	WLZ						54
11	Structure Wind X	WLX						54
12	Ice Weight	OL1					33	54
13	Ice Wind Load 0 AZI	None					33	
14	Ice Wind Load 30 AZI	OL2					66	
15	Ice Wind Load 45 AZI	None					66	
16	Ice Wind Load 60 AZI	None					66	
17	Ice Wind Load 90 AZI	None					33	
18	Ice Wind Load 120 AZI	OL3					66	
19	Ice Wind Load 135 AZI	None					66	
20	Ice Wind Load 150 AZI	None					66	
21	Ice Structure Wind Z	OL2						54
22	Ice Structure Wind X	OL3						54
23	Seismic Load Z	ELZ			-0.128		33	
24	Seismic Load X	ELX	-0.128				33	
25	Lv1	LL					1	
26	Lv2	LL					1	
27	Lv3	LL					1	
28	Lv4	LL					1	
29	Lv5	LL					1	
30	Lv6	LL					1	
31	Lv7	LL					1	
32	Lv8	LL					1	
33	Lv9	LL					1	
34	Lm1	None				1		
35	Lm2	None				1		
36	Lm3	None				1		
37	Lm4	None				1		
38	Lm5	None				1		
39	Lm6	None				1		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed
40	Lm7	None				1		
41	Lm8	None				1		
42	Lm9	None				1		

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4DL	Yes	Y	DL	1.4								
2	1.2DL + 1WL 0 AZI	Yes	Y	DL	1.2	10	1	11		2	1		
3	1.2DL + 1WL 30 AZI	Yes	Y	DL	1.2	10	0.866	11	0.5	3	1		
4	1.2DL + 1WL 45 AZI	Yes	Y	DL	1.2	10	0.707	11	0.707	4	1		
5	1.2DL + 1WL 60 AZI	Yes	Y	DL	1.2	10	0.5	11	0.866	5	1		
6	1.2DL + 1WL 90 AZI	Yes	Y	DL	1.2	10		11	1	6	1		
7	1.2DL + 1WL 120 AZI	Yes	Y	DL	1.2	10	-0.5	11	0.866	7	1		
8	1.2DL + 1WL 135 AZI	Yes	Y	DL	1.2	10	-0.707	11	0.707	8	1		
9	1.2DL + 1WL 150 AZI	Yes	Y	DL	1.2	10	-0.866	11	0.5	9	1		
10	1.2DL + 1WL 180 AZI	Yes	Y	DL	1.2	10	-1	11		2	-1		
11	1.2DL + 1WL 210 AZI	Yes	Y	DL	1.2	10	-0.866	11	-0.5	3	-1		
12	1.2DL + 1WL 225 AZI	Yes	Y	DL	1.2	10	-0.707	11	-0.707	4	-1		
13	1.2DL + 1WL 240 AZI	Yes	Y	DL	1.2	10	-0.5	11	-0.866	5	-1		
14	1.2DL + 1WL 270 AZI	Yes	Y	DL	1.2	10		11	-1	6	-1		
15	1.2DL + 1WL 300 AZI	Yes	Y	DL	1.2	10	0.5	11	-0.866	7	-1		
16	1.2DL + 1WL 315 AZI	Yes	Y	DL	1.2	10	0.707	11	-0.707	8	-1		
17	1.2DL + 1WL 330 AZI	Yes	Y	DL	1.2	10	0.866	11	-0.5	9	-1		
18	0.9DL + 1WL 0 AZI	Yes	Y	DL	0.9	10	1	11		2	1		
19	0.9DL + 1WL 30 AZI	Yes	Y	DL	0.9	10	0.866	11	0.5	3	1		
20	0.9DL + 1WL 45 AZI	Yes	Y	DL	0.9	10	0.707	11	0.707	4	1		
21	0.9DL + 1WL 60 AZI	Yes	Y	DL	0.9	10	0.5	11	0.866	5	1		
22	0.9DL + 1WL 90 AZI	Yes	Y	DL	0.9	10		11	1	6	1		
23	0.9DL + 1WL 120 AZI	Yes	Y	DL	0.9	10	-0.5	11	0.866	7	1		
24	0.9DL + 1WL 135 AZI	Yes	Y	DL	0.9	10	-0.707	11	0.707	8	1		
25	0.9DL + 1WL 150 AZI	Yes	Y	DL	0.9	10	-0.866	11	0.5	9	1		
26	0.9DL + 1WL 180 AZI	Yes	Y	DL	0.9	10	-1	11		2	-1		
27	0.9DL + 1WL 210 AZI	Yes	Y	DL	0.9	10	-0.866	11	-0.5	3	-1		
28	0.9DL + 1WL 225 AZI	Yes	Y	DL	0.9	10	-0.707	11	-0.707	4	-1		
29	0.9DL + 1WL 240 AZI	Yes	Y	DL	0.9	10	-0.5	11	-0.866	5	-1		
30	0.9DL + 1WL 270 AZI	Yes	Y	DL	0.9	10		11	-1	6	-1		
31	0.9DL + 1WL 300 AZI	Yes	Y	DL	0.9	10	0.5	11	-0.866	7	-1		
32	0.9DL + 1WL 315 AZI	Yes	Y	DL	0.9	10	0.707	11	-0.707	8	-1		
33	0.9DL + 1WL 330 AZI	Yes	Y	DL	0.9	10	0.866	11	-0.5	9	-1		
34	1.2DL + 1DLi	Yes	Y	DL	1.2	OL1	1						
35	1.2DL + 1DLi + 1WL 0 AZI	Yes	Y	DL	1.2	OL1	1	21	1	22		13	1
36	1.2DL + 1DLi + 1WL 30 AZI	Yes	Y	DL	1.2	OL1	1	21	0.866	22	0.5	14	1
37	1.2DL + 1DLi + 1WL 45 AZI	Yes	Y	DL	1.2	OL1	1	21	0.707	22	0.707	15	1
38	1.2DL + 1DLi + 1WL 60 AZI	Yes	Y	DL	1.2	OL1	1	21	0.5	22	0.866	16	1
39	1.2DL + 1DLi + 1WL 90 AZI	Yes	Y	DL	1.2	OL1	1	21		22	1	17	1
40	1.2DL + 1DLi + 1WL 120 AZI	Yes	Y	DL	1.2	OL1	1	21	-0.5	22	0.866	18	1
41	1.2DL + 1DLi + 1WL 135 AZI	Yes	Y	DL	1.2	OL1	1	21	-0.707	22	0.707	19	1
42	1.2DL + 1DLi + 1WL 150 AZI	Yes	Y	DL	1.2	OL1	1	21	-0.866	22	0.5	20	1
43	1.2DL + 1DLi + 1WL 180 AZI	Yes	Y	DL	1.2	OL1	1	21	-1	22		13	-1
44	1.2DL + 1DLi + 1WL 210 AZI	Yes	Y	DL	1.2	OL1	1	21	-0.866	22	-0.5	14	-1
45	1.2DL + 1DLi + 1WL 225 AZI	Yes	Y	DL	1.2	OL1	1	21	-0.707	22	-0.707	15	-1
46	1.2DL + 1DLi + 1WL 240 AZI	Yes	Y	DL	1.2	OL1	1	21	-0.5	22	-0.866	16	-1
47	1.2DL + 1DLi + 1WL 270 AZI	Yes	Y	DL	1.2	OL1	1	21		22	-1	17	-1
48	1.2DL + 1DLi + 1WL 300 AZI	Yes	Y	DL	1.2	OL1	1	21	0.5	22	-0.866	18	-1
49	1.2DL + 1DLi + 1WL 315 AZI	Yes	Y	DL	1.2	OL1	1	21	0.707	22	-0.707	19	-1
50	1.2DL + 1DLi + 1WL 330 AZI	Yes	Y	DL	1.2	OL1	1	21	0.866	22	-0.5	20	-1
51	(1.2+0.2Sds)DL + 1E 0 AZI	Yes	Y	DL	1.243	23	1	24					
52	(1.2+0.2Sds)DL + 1E 30 AZI	Yes	Y	DL	1.243	23	0.866	24	0.5				
53	(1.2+0.2Sds)DL + 1E 45 AZI	Yes	Y	DL	1.243	23	0.707	24	0.707				
54	(1.2+0.2Sds)DL + 1E 60 AZI	Yes	Y	DL	1.243	23	0.5	24	0.866				
55	(1.2+0.2Sds)DL + 1E 90 AZI	Yes	Y	DL	1.243	23		24	1				
56	(1.2+0.2Sds)DL + 1E 120 AZI	Yes	Y	DL	1.243	23	-0.5	24	0.866				
57	(1.2+0.2Sds)DL + 1E 135 AZI	Yes	Y	DL	1.243	23	-0.707	24	0.707				
58	(1.2+0.2Sds)DL + 1E 150 AZI	Yes	Y	DL	1.243	23	-0.866	24	0.5				
59	(1.2+0.2Sds)DL + 1E 180 AZI	Yes	Y	DL	1.243	23	-1	24					
60	(1.2+0.2Sds)DL + 1E 210 AZI	Yes	Y	DL	1.243	23	-0.866	24	-0.5				
61	(1.2+0.2Sds)DL + 1E 225 AZI	Yes	Y	DL	1.243	23	-0.707	24	-0.707				
62	(1.2+0.2Sds)DL + 1E 240 AZI	Yes	Y	DL	1.243	23	-0.5	24	-0.866				
63	(1.2+0.2Sds)DL + 1E 270 AZI	Yes	Y	DL	1.243	23		24	-1				
64	(1.2+0.2Sds)DL + 1E 300 AZI	Yes	Y	DL	1.243	23	0.5	24	-0.866				
65	(1.2+0.2Sds)DL + 1E 315 AZI	Yes	Y	DL	1.243	23	0.707	24	-0.707				
66	(1.2+0.2Sds)DL + 1E 330 AZI	Yes	Y	DL	1.243	23	0.866	24	-0.5				
67	(0.9-0.2Sds)DL + 1E 0 AZI	Yes	Y	DL	0.857	23	1	24					
68	(0.9-0.2Sds)DL + 1E 30 AZI	Yes	Y	DL	0.857	23	0.866	24	0.5				
69	(0.9-0.2Sds)DL + 1E 45 AZI	Yes	Y	DL	0.857	23	0.707	24	0.707				
70	(0.9-0.2Sds)DL + 1E 60 AZI	Yes	Y	DL	0.857	23	0.5	24	0.866				
71	(0.9-0.2Sds)DL + 1E 90 AZI	Yes	Y	DL	0.857	23		24	1				

Load Combinations (Continued)

Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
72 (0.9-0.2Sds)DL + 1E 120 AZI	Yes	Y	DL	0.857	23	-0.5	24	0.866				
73 (0.9-0.2Sds)DL + 1E 135 AZI	Yes	Y	DL	0.857	23	-0.707	24	0.707				
74 (0.9-0.2Sds)DL + 1E 150 AZI	Yes	Y	DL	0.857	23	-0.866	24	0.5				
75 (0.9-0.2Sds)DL + 1E 180 AZI	Yes	Y	DL	0.857	23	-1	24					
76 (0.9-0.2Sds)DL + 1E 210 AZI	Yes	Y	DL	0.857	23	-0.866	24	-0.5				
77 (0.9-0.2Sds)DL + 1E 225 AZI	Yes	Y	DL	0.857	23	-0.707	24	-0.707				
78 (0.9-0.2Sds)DL + 1E 240 AZI	Yes	Y	DL	0.857	23	-0.5	24	-0.866				
79 (0.9-0.2Sds)DL + 1E 270 AZI	Yes	Y	DL	0.857	23		24	-1				
80 (0.9-0.2Sds)DL + 1E 300 AZI	Yes	Y	DL	0.857	23	0.5	24	-0.866				
81 (0.9-0.2Sds)DL + 1E 315 AZI	Yes	Y	DL	0.857	23	0.707	24	-0.707				
82 (0.9-0.2Sds)DL + 1E 330 AZI	Yes	Y	DL	0.857	23	0.866	24	-0.5				
83 1.2DL + 1.5Lv1	Yes	Y	DL	1.2	25	1.5						
84 1.2DL + 1.5Lv2	Yes	Y	DL	1.2	26	1.5						
85 1.2DL + 1.5Lv3	Yes	Y	DL	1.2	27	1.5						
86 1.2DL + 1.5Lv4	Yes	Y	DL	1.2	28	1.5						
87 1.2DL + 1.5Lv5	Yes	Y	DL	1.2	29	1.5						
88 1.2DL + 1.5Lv6	Yes	Y	DL	1.2	30	1.5						
89 1.2DL + 1.5Lv7	Yes	Y	DL	1.2	31	1.5						
90 1.2DL + 1.5Lv8	Yes	Y	DL	1.2	32	1.5						
91 1.2DL + 1.5Lv9	Yes	Y	DL	1.2	33	1.5						
92 1.2DL + 1.5Lm1 + 1Wm 0 AZI	Yes	Y	DL	1.2	34	1.5	10	0.062	11		2	0.062
93 1.2DL + 1.5Lm1 + 1Wm 30 AZI	Yes	Y	DL	1.2	34	1.5	10	0.054	11	0.031	3	0.062
94 1.2DL + 1.5Lm1 + 1Wm 45 AZI	Yes	Y	DL	1.2	34	1.5	10	0.044	11	0.044	4	0.062
95 1.2DL + 1.5Lm1 + 1Wm 60 AZI	Yes	Y	DL	1.2	34	1.5	10	0.031	11	0.054	5	0.062
96 1.2DL + 1.5Lm1 + 1Wm 90 AZI	Yes	Y	DL	1.2	34	1.5	10		11	0.062	6	0.062
97 1.2DL + 1.5Lm1 + 1Wm 120 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.031	11	0.054	7	0.062
98 1.2DL + 1.5Lm1 + 1Wm 135 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.044	11	0.044	8	0.062
99 1.2DL + 1.5Lm1 + 1Wm 150 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.054	11	0.031	9	0.062
100 1.2DL + 1.5Lm1 + 1Wm 180 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.062	11		2	-0.062
101 1.2DL + 1.5Lm1 + 1Wm 210 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.054	11	-0.031	3	-0.062
102 1.2DL + 1.5Lm1 + 1Wm 225 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.044	11	-0.044	4	-0.062
103 1.2DL + 1.5Lm1 + 1Wm 240 AZI	Yes	Y	DL	1.2	34	1.5	10	-0.031	11	-0.054	5	-0.062
104 1.2DL + 1.5Lm1 + 1Wm 270 AZI	Yes	Y	DL	1.2	34	1.5	10		11	-0.062	6	-0.062
105 1.2DL + 1.5Lm1 + 1Wm 300 AZI	Yes	Y	DL	1.2	34	1.5	10	0.031	11	-0.054	7	-0.062
106 1.2DL + 1.5Lm1 + 1Wm 315 AZI	Yes	Y	DL	1.2	34	1.5	10	0.044	11	-0.044	8	-0.062
107 1.2DL + 1.5Lm1 + 1Wm 330 AZI	Yes	Y	DL	1.2	34	1.5	10	0.054	11	-0.031	9	-0.062
108 1.2DL + 1.5Lm2 + 1Wm 0 AZI	Yes	Y	DL	1.2	35	1.5	10	0.062	11		2	0.062
109 1.2DL + 1.5Lm2 + 1Wm 30 AZI	Yes	Y	DL	1.2	35	1.5	10	0.054	11	0.031	3	0.062
110 1.2DL + 1.5Lm2 + 1Wm 45 AZI	Yes	Y	DL	1.2	35	1.5	10	0.044	11	0.044	4	0.062
111 1.2DL + 1.5Lm2 + 1Wm 60 AZI	Yes	Y	DL	1.2	35	1.5	10	0.031	11	0.054	5	0.062
112 1.2DL + 1.5Lm2 + 1Wm 90 AZI	Yes	Y	DL	1.2	35	1.5	10		11	0.062	6	0.062
113 1.2DL + 1.5Lm2 + 1Wm 120 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.031	11	0.054	7	0.062
114 1.2DL + 1.5Lm2 + 1Wm 135 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.044	11	0.044	8	0.062
115 1.2DL + 1.5Lm2 + 1Wm 150 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.054	11	0.031	9	0.062
116 1.2DL + 1.5Lm2 + 1Wm 180 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.062	11		2	-0.062
117 1.2DL + 1.5Lm2 + 1Wm 210 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.054	11	-0.031	3	-0.062
118 1.2DL + 1.5Lm2 + 1Wm 225 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.044	11	-0.044	4	-0.062
119 1.2DL + 1.5Lm2 + 1Wm 240 AZI	Yes	Y	DL	1.2	35	1.5	10	-0.031	11	-0.054	5	-0.062
120 1.2DL + 1.5Lm2 + 1Wm 270 AZI	Yes	Y	DL	1.2	35	1.5	10		11	-0.062	6	-0.062
121 1.2DL + 1.5Lm2 + 1Wm 300 AZI	Yes	Y	DL	1.2	35	1.5	10	0.031	11	-0.054	7	-0.062
122 1.2DL + 1.5Lm2 + 1Wm 315 AZI	Yes	Y	DL	1.2	35	1.5	10	0.044	11	-0.044	8	-0.062
123 1.2DL + 1.5Lm2 + 1Wm 330 AZI	Yes	Y	DL	1.2	35	1.5	10	0.054	11	-0.031	9	-0.062
124 1.2DL + 1.5Lm3 + 1Wm 0 AZI	Yes	Y	DL	1.2	36	1.5	10	0.062	11		2	0.062
125 1.2DL + 1.5Lm3 + 1Wm 30 AZI	Yes	Y	DL	1.2	36	1.5	10	0.054	11	0.031	3	0.062
126 1.2DL + 1.5Lm3 + 1Wm 45 AZI	Yes	Y	DL	1.2	36	1.5	10	0.044	11	0.044	4	0.062
127 1.2DL + 1.5Lm3 + 1Wm 60 AZI	Yes	Y	DL	1.2	36	1.5	10	0.031	11	0.054	5	0.062
128 1.2DL + 1.5Lm3 + 1Wm 90 AZI	Yes	Y	DL	1.2	36	1.5	10		11	0.062	6	0.062
129 1.2DL + 1.5Lm3 + 1Wm 120 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.031	11	0.054	7	0.062
130 1.2DL + 1.5Lm3 + 1Wm 135 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.044	11	0.044	8	0.062
131 1.2DL + 1.5Lm3 + 1Wm 150 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.054	11	0.031	9	0.062
132 1.2DL + 1.5Lm3 + 1Wm 180 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.062	11		2	-0.062
133 1.2DL + 1.5Lm3 + 1Wm 210 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.054	11	-0.031	3	-0.062
134 1.2DL + 1.5Lm3 + 1Wm 225 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.044	11	-0.044	4	-0.062
135 1.2DL + 1.5Lm3 + 1Wm 240 AZI	Yes	Y	DL	1.2	36	1.5	10	-0.031	11	-0.054	5	-0.062
136 1.2DL + 1.5Lm3 + 1Wm 270 AZI	Yes	Y	DL	1.2	36	1.5	10		11	-0.062	6	-0.062
137 1.2DL + 1.5Lm3 + 1Wm 300 AZI	Yes	Y	DL	1.2	36	1.5	10	0.031	11	-0.054	7	-0.062
138 1.2DL + 1.5Lm3 + 1Wm 315 AZI	Yes	Y	DL	1.2	36	1.5	10	0.044	11	-0.044	8	-0.062
139 1.2DL + 1.5Lm3 + 1Wm 330 AZI	Yes	Y	DL	1.2	36	1.5	10	0.054	11	-0.031	9	-0.062
140 1.2DL + 1.5Lm4 + 1Wm 0 AZI	Yes	Y	DL	1.2	37	1.5	10	0.062	11		2	0.062
141 1.2DL + 1.5Lm4 + 1Wm 30 AZI	Yes	Y	DL	1.2	37	1.5	10	0.054	11	0.031	3	0.062
142 1.2DL + 1.5Lm4 + 1Wm 45 AZI	Yes	Y	DL	1.2	37	1.5	10	0.044	11	0.044	4	0.062
143 1.2DL + 1.5Lm4 + 1Wm 60 AZI	Yes	Y	DL	1.2	37	1.5	10	0.031	11	0.054	5	0.062
144 1.2DL + 1.5Lm4 + 1Wm 90 AZI	Yes	Y	DL	1.2	37	1.5	10		11	0.062	6	0.062
145 1.2DL + 1.5Lm4 + 1Wm 120 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.031	11	0.054	7	0.062
146 1.2DL + 1.5Lm4 + 1Wm 135 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.044	11	0.044	8	0.062
147 1.2DL + 1.5Lm4 + 1Wm 150 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.054	11	0.031	9	0.062
148 1.2DL + 1.5Lm4 + 1Wm 180 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.062	11		2	-0.062

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
149	1.2DL + 1.5Lm4 + 1Wm 210 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.054	11	-0.031	3	-0.062
150	1.2DL + 1.5Lm4 + 1Wm 225 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.044	11	-0.044	4	-0.062
151	1.2DL + 1.5Lm4 + 1Wm 240 AZI	Yes	Y	DL	1.2	37	1.5	10	-0.031	11	-0.054	5	-0.062
152	1.2DL + 1.5Lm4 + 1Wm 270 AZI	Yes	Y	DL	1.2	37	1.5	10		11	-0.062	6	-0.062
153	1.2DL + 1.5Lm4 + 1Wm 300 AZI	Yes	Y	DL	1.2	37	1.5	10	0.031	11	-0.054	7	-0.062
154	1.2DL + 1.5Lm4 + 1Wm 315 AZI	Yes	Y	DL	1.2	37	1.5	10	0.044	11	-0.044	8	-0.062
155	1.2DL + 1.5Lm4 + 1Wm 330 AZI	Yes	Y	DL	1.2	37	1.5	10	0.054	11	-0.031	9	-0.062
156	1.2DL + 1.5Lm5 + 1Wm 0 AZI	Yes	Y	DL	1.2	38	1.5	10	0.062	11		2	0.062
157	1.2DL + 1.5Lm5 + 1Wm 30 AZI	Yes	Y	DL	1.2	38	1.5	10	0.054	11	0.031	3	0.062
158	1.2DL + 1.5Lm5 + 1Wm 45 AZI	Yes	Y	DL	1.2	38	1.5	10	0.044	11	0.044	4	0.062
159	1.2DL + 1.5Lm5 + 1Wm 60 AZI	Yes	Y	DL	1.2	38	1.5	10	0.031	11	0.054	5	0.062
160	1.2DL + 1.5Lm5 + 1Wm 90 AZI	Yes	Y	DL	1.2	38	1.5	10		11	0.062	6	0.062
161	1.2DL + 1.5Lm5 + 1Wm 120 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.031	11	0.054	7	0.062
162	1.2DL + 1.5Lm5 + 1Wm 135 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.044	11	0.044	8	0.062
163	1.2DL + 1.5Lm5 + 1Wm 150 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.054	11	0.031	9	0.062
164	1.2DL + 1.5Lm5 + 1Wm 180 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.062	11		2	-0.062
165	1.2DL + 1.5Lm5 + 1Wm 210 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.054	11	-0.031	3	-0.062
166	1.2DL + 1.5Lm5 + 1Wm 225 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.044	11	-0.044	4	-0.062
167	1.2DL + 1.5Lm5 + 1Wm 240 AZI	Yes	Y	DL	1.2	38	1.5	10	-0.031	11	-0.054	5	-0.062
168	1.2DL + 1.5Lm5 + 1Wm 270 AZI	Yes	Y	DL	1.2	38	1.5	10		11	-0.062	6	-0.062
169	1.2DL + 1.5Lm5 + 1Wm 300 AZI	Yes	Y	DL	1.2	38	1.5	10	0.031	11	-0.054	7	-0.062
170	1.2DL + 1.5Lm5 + 1Wm 315 AZI	Yes	Y	DL	1.2	38	1.5	10	0.044	11	-0.044	8	-0.062
171	1.2DL + 1.5Lm5 + 1Wm 330 AZI	Yes	Y	DL	1.2	38	1.5	10	0.054	11	-0.031	9	-0.062
172	1.2DL + 1.5Lm6 + 1Wm 0 AZI	Yes	Y	DL	1.2	39	1.5	10	0.062	11		2	0.062
173	1.2DL + 1.5Lm6 + 1Wm 30 AZI	Yes	Y	DL	1.2	39	1.5	10	0.054	11	0.031	3	0.062
174	1.2DL + 1.5Lm6 + 1Wm 45 AZI	Yes	Y	DL	1.2	39	1.5	10	0.044	11	0.044	4	0.062
175	1.2DL + 1.5Lm6 + 1Wm 60 AZI	Yes	Y	DL	1.2	39	1.5	10	0.031	11	0.054	5	0.062
176	1.2DL + 1.5Lm6 + 1Wm 90 AZI	Yes	Y	DL	1.2	39	1.5	10		11	0.062	6	0.062
177	1.2DL + 1.5Lm6 + 1Wm 120 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.031	11	0.054	7	0.062
178	1.2DL + 1.5Lm6 + 1Wm 135 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.044	11	0.044	8	0.062
179	1.2DL + 1.5Lm6 + 1Wm 150 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.054	11	0.031	9	0.062
180	1.2DL + 1.5Lm6 + 1Wm 180 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.062	11		2	-0.062
181	1.2DL + 1.5Lm6 + 1Wm 210 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.054	11	-0.031	3	-0.062
182	1.2DL + 1.5Lm6 + 1Wm 225 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.044	11	-0.044	4	-0.062
183	1.2DL + 1.5Lm6 + 1Wm 240 AZI	Yes	Y	DL	1.2	39	1.5	10	-0.031	11	-0.054	5	-0.062
184	1.2DL + 1.5Lm6 + 1Wm 270 AZI	Yes	Y	DL	1.2	39	1.5	10		11	-0.062	6	-0.062
185	1.2DL + 1.5Lm6 + 1Wm 300 AZI	Yes	Y	DL	1.2	39	1.5	10	0.031	11	-0.054	7	-0.062
186	1.2DL + 1.5Lm6 + 1Wm 315 AZI	Yes	Y	DL	1.2	39	1.5	10	0.044	11	-0.044	8	-0.062
187	1.2DL + 1.5Lm6 + 1Wm 330 AZI	Yes	Y	DL	1.2	39	1.5	10	0.054	11	-0.031	9	-0.062
188	1.2DL + 1.5Lm7 + 1Wm 0 AZI	Yes	Y	DL	1.2	40	1.5	10	0.062	11		2	0.062
189	1.2DL + 1.5Lm7 + 1Wm 30 AZI	Yes	Y	DL	1.2	40	1.5	10	0.054	11	0.031	3	0.062
190	1.2DL + 1.5Lm7 + 1Wm 45 AZI	Yes	Y	DL	1.2	40	1.5	10	0.044	11	0.044	4	0.062
191	1.2DL + 1.5Lm7 + 1Wm 60 AZI	Yes	Y	DL	1.2	40	1.5	10	0.031	11	0.054	5	0.062
192	1.2DL + 1.5Lm7 + 1Wm 90 AZI	Yes	Y	DL	1.2	40	1.5	10		11	0.062	6	0.062
193	1.2DL + 1.5Lm7 + 1Wm 120 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.031	11	0.054	7	0.062
194	1.2DL + 1.5Lm7 + 1Wm 135 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.044	11	0.044	8	0.062
195	1.2DL + 1.5Lm7 + 1Wm 150 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.054	11	0.031	9	0.062
196	1.2DL + 1.5Lm7 + 1Wm 180 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.062	11		2	-0.062
197	1.2DL + 1.5Lm7 + 1Wm 210 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.054	11	-0.031	3	-0.062
198	1.2DL + 1.5Lm7 + 1Wm 225 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.044	11	-0.044	4	-0.062
199	1.2DL + 1.5Lm7 + 1Wm 240 AZI	Yes	Y	DL	1.2	40	1.5	10	-0.031	11	-0.054	5	-0.062
200	1.2DL + 1.5Lm7 + 1Wm 270 AZI	Yes	Y	DL	1.2	40	1.5	10		11	-0.062	6	-0.062
201	1.2DL + 1.5Lm7 + 1Wm 300 AZI	Yes	Y	DL	1.2	40	1.5	10	0.031	11	-0.054	7	-0.062
202	1.2DL + 1.5Lm7 + 1Wm 315 AZI	Yes	Y	DL	1.2	40	1.5	10	0.044	11	-0.044	8	-0.062
203	1.2DL + 1.5Lm7 + 1Wm 330 AZI	Yes	Y	DL	1.2	40	1.5	10	0.054	11	-0.031	9	-0.062
204	1.2DL + 1.5Lm8 + 1Wm 0 AZI	Yes	Y	DL	1.2	41	1.5	10	0.062	11		2	0.062
205	1.2DL + 1.5Lm8 + 1Wm 30 AZI	Yes	Y	DL	1.2	41	1.5	10	0.054	11	0.031	3	0.062
206	1.2DL + 1.5Lm8 + 1Wm 45 AZI	Yes	Y	DL	1.2	41	1.5	10	0.044	11	0.044	4	0.062
207	1.2DL + 1.5Lm8 + 1Wm 60 AZI	Yes	Y	DL	1.2	41	1.5	10	0.031	11	0.054	5	0.062
208	1.2DL + 1.5Lm8 + 1Wm 90 AZI	Yes	Y	DL	1.2	41	1.5	10		11	0.062	6	0.062
209	1.2DL + 1.5Lm8 + 1Wm 120 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.031	11	0.054	7	0.062
210	1.2DL + 1.5Lm8 + 1Wm 135 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.044	11	0.044	8	0.062
211	1.2DL + 1.5Lm8 + 1Wm 150 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.054	11	0.031	9	0.062
212	1.2DL + 1.5Lm8 + 1Wm 180 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.062	11		2	-0.062
213	1.2DL + 1.5Lm8 + 1Wm 210 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.054	11	-0.031	3	-0.062
214	1.2DL + 1.5Lm8 + 1Wm 225 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.044	11	-0.044	4	-0.062
215	1.2DL + 1.5Lm8 + 1Wm 240 AZI	Yes	Y	DL	1.2	41	1.5	10	-0.031	11	-0.054	5	-0.062
216	1.2DL + 1.5Lm8 + 1Wm 270 AZI	Yes	Y	DL	1.2	41	1.5	10		11	-0.062	6	-0.062
217	1.2DL + 1.5Lm8 + 1Wm 300 AZI	Yes	Y	DL	1.2	41	1.5	10	0.031	11	-0.054	7	-0.062
218	1.2DL + 1.5Lm8 + 1Wm 315 AZI	Yes	Y	DL	1.2	41	1.5	10	0.044	11	-0.044	8	-0.062
219	1.2DL + 1.5Lm8 + 1Wm 330 AZI	Yes	Y	DL	1.2	41	1.5	10	0.054	11	-0.031	9	-0.062
220	1.2DL + 1.5Lm9 + 1Wm 0 AZI	Yes	Y	DL	1.2	42	1.5	10	0.062	11		2	0.062
221	1.2DL + 1.5Lm9 + 1Wm 30 AZI	Yes	Y	DL	1.2	42	1.5	10	0.054	11	0.031	3	0.062
222	1.2DL + 1.5Lm9 + 1Wm 45 AZI	Yes	Y	DL	1.2	42	1.5	10	0.044	11	0.044	4	0.062
223	1.2DL + 1.5Lm9 + 1Wm 60 AZI	Yes	Y	DL	1.2	42	1.5	10	0.031	11	0.054	5	0.062
224	1.2DL + 1.5Lm9 + 1Wm 90 AZI	Yes	Y	DL	1.2	42	1.5	10		11	0.062	6	0.062
225	1.2DL + 1.5Lm9 + 1Wm 120 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.031	11	0.054	7	0.062

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
226	1.2DL + 1.5Lm9 + 1Wm 135 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.044	11	0.044	8	0.062
227	1.2DL + 1.5Lm9 + 1Wm 150 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.054	11	0.031	9	0.062
228	1.2DL + 1.5Lm9 + 1Wm 180 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.062	11		2	-0.062
229	1.2DL + 1.5Lm9 + 1Wm 210 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.054	11	-0.031	3	-0.062
230	1.2DL + 1.5Lm9 + 1Wm 225 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.044	11	-0.044	4	-0.062
231	1.2DL + 1.5Lm9 + 1Wm 240 AZI	Yes	Y	DL	1.2	42	1.5	10	-0.031	11	-0.054	5	-0.062
232	1.2DL + 1.5Lm9 + 1Wm 270 AZI	Yes	Y	DL	1.2	42	1.5	10		11	-0.062	6	-0.062
233	1.2DL + 1.5Lm9 + 1Wm 300 AZI	Yes	Y	DL	1.2	42	1.5	10	0.031	11	-0.054	7	-0.062
234	1.2DL + 1.5Lm9 + 1Wm 315 AZI	Yes	Y	DL	1.2	42	1.5	10	0.044	11	-0.044	8	-0.062
235	1.2DL + 1.5Lm9 + 1Wm 330 AZI	Yes	Y	DL	1.2	42	1.5	10	0.054	11	-0.031	9	-0.062

Node Loads and Enforced Displacements (BLC 34 : Lm1)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N51	L	Y	-500

Node Loads and Enforced Displacements (BLC 35 : Lm2)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N52	L	Y	-500

Node Loads and Enforced Displacements (BLC 36 : Lm3)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N53	L	Y	-500

Node Loads and Enforced Displacements (BLC 37 : Lm4)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N155	L	Y	-500

Node Loads and Enforced Displacements (BLC 38 : Lm5)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N209	L	Y	-500

Node Loads and Enforced Displacements (BLC 39 : Lm6)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N157	L	Y	-500

Node Loads and Enforced Displacements (BLC 40 : Lm7)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N103	L	Y	-500

Node Loads and Enforced Displacements (BLC 41 : Lm8)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N203	L	Y	-500

Node Loads and Enforced Displacements (BLC 42 : Lm9)

	Node Label	L, D, M	Direction	Magnitude [(lb, k-ft), (in, rad), (lb*s ² /in, lb*s ² *in)]
1	N105	L	Y	-500

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Y	-34.15	24.4
2	MP1	Y	-34.15	108
3	MP2	Y	-38.5	41.85
4	MP2	Y	-38.5	78.15
5	MP3	Y	-59.5	12
6	MP3	Y	-59.5	108
7	RP1	Y	-60	96
8	RP1	Y	-42.9	96
9	RP2	Y	-74.95	96
10	RP2	Y	-75	96
11	RP1	Y	-26.2	36
12	RP2	Y	-26.2	36
13	MP4	Y	-34.15	24.4
14	MP4	Y	-34.15	108

Member Point Loads (BLC 1 : Self Weight) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
15	MP5	Y	-38.5	41.85
16	MP5	Y	-38.5	78.15
17	MP6	Y	-59.5	12
18	MP6	Y	-59.5	108
19	RP3	Y	-60	24
20	RP3	Y	-42.9	24
21	RP4	Y	-74.95	24
22	RP4	Y	-75	24
23	MP7	Y	-34.15	24.4
24	MP7	Y	-34.15	108
25	MP8	Y	-38.5	41.85
26	MP8	Y	-38.5	78.15
27	MP9	Y	-59.5	12
28	MP9	Y	-59.5	108
29	RP5	Y	-60	24
30	RP5	Y	-42.9	24
31	RP6	Y	-74.95	24
32	RP6	Y	-75	24
33	MP7	Y	-17.857	12

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-267.593	24.4
2	MP1	Z	-267.593	108
3	MP2	Z	-100.631	41.85
4	MP2	Z	-100.631	78.15
5	MP3	Z	-376.271	12
6	MP3	Z	-376.271	108
7	RP1	Z	-61.374	96
8	RP1	Z	-47.812	96
9	RP2	Z	-62.208	96
10	RP2	Z	-63.757	96
11	RP1	Z	-48.214	36
12	RP2	Z	-48.214	36
13	MP4	Z	-155.569	24.4
14	MP4	Z	-155.569	108
15	MP5	Z	-71.891	41.85
16	MP5	Z	-71.891	78.15
17	MP6	Z	-222.326	12
18	MP6	Z	-222.326	108
19	RP3	Z	-46.833	24
20	RP3	Z	-29.449	24
21	RP4	Z	-68.3	24
22	RP4	Z	-68.508	24
23	MP7	Z	-155.569	24.4
24	MP7	Z	-155.569	108
25	MP8	Z	-71.891	41.85
26	MP8	Z	-71.891	78.15
27	MP9	Z	-222.326	12
28	MP9	Z	-222.326	108
29	RP5	Z	-75.916	24
30	RP5	Z	-66.176	24
31	RP6	Z	-56.116	24
32	RP6	Z	-59.006	24
33	MP7	Z	-16.169	12

Member Point Loads (BLC 3 : Wind Load 30 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-199.404	24.4
2	MP1	Z	-199.404	108
3	MP2	Z	-78.852	41.85
4	MP2	Z	-78.852	78.15
5	MP3	Z	-281.42	12
6	MP3	Z	-281.42	108
7	RP1	Z	-65.745	96
8	RP1	Z	-57.31	96
9	RP2	Z	-48.598	96
10	RP2	Z	-51.101	96
11	RP1	Z	-41.754	36
12	RP2	Z	-41.754	36
13	MP4	Z	-199.404	24.4
14	MP4	Z	-199.404	108
15	MP5	Z	-78.852	41.85
16	MP5	Z	-78.852	78.15
17	MP6	Z	-281.42	12

Member Point Loads (BLC 3 : Wind Load 30 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
18	MP6	Z	-281.42	108
19	RP3	Z	-40.558	24
20	RP3	Z	-25.503	24
21	RP4	Z	-59.15	24
22	RP4	Z	-59.329	24
23	MP7	Z	-102.388	24.4
24	MP7	Z	-102.388	108
25	MP8	Z	-53.962	41.85
26	MP8	Z	-53.962	78.15
27	MP9	Z	-148.1	12
28	MP9	Z	-148.1	108
29	RP5	Z	-53.152	24
30	RP5	Z	-41.407	24
31	RP6	Z	-53.874	24
32	RP6	Z	-55.215	24
33	MP7	Z	-13.43	12
34	MP1	X	-115.126	24.4
35	MP1	X	-115.126	108
36	MP2	X	-45.525	41.85
37	MP2	X	-45.525	78.15
38	MP3	X	-162.478	12
39	MP3	X	-162.478	108
40	RP1	X	-37.958	96
41	RP1	X	-33.088	96
42	RP2	X	-28.058	96
43	RP2	X	-29.503	96
44	RP1	X	-24.107	36
45	RP2	X	-24.107	36
46	MP4	X	-115.126	24.4
47	MP4	X	-115.126	108
48	MP5	X	-45.525	41.85
49	MP5	X	-45.525	78.15
50	MP6	X	-162.478	12
51	MP6	X	-162.478	108
52	RP3	X	-23.416	24
53	RP3	X	-14.724	24
54	RP4	X	-34.15	24
55	RP4	X	-34.254	24
56	MP7	X	-59.114	24.4
57	MP7	X	-59.114	108
58	MP8	X	-31.155	41.85
59	MP8	X	-31.155	78.15
60	MP9	X	-85.505	12
61	MP9	X	-85.505	108
62	RP5	X	-30.687	24
63	RP5	X	-23.906	24
64	RP6	X	-31.104	24
65	RP6	X	-31.878	24
66	MP7	X	-7.754	12

Member Point Loads (BLC 4 : Wind Load 45 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-136.408	24.4
2	MP1	Z	-136.408	108
3	MP2	Z	-57.608	41.85
4	MP2	Z	-57.608	78.15
5	MP3	Z	-193.493	12
6	MP3	Z	-193.493	108
7	RP1	Z	-55.271	96
8	RP1	Z	-48.803	96
9	RP2	Z	-39.014	96
10	RP2	Z	-41.204	96
11	RP1	Z	-34.092	36
12	RP2	Z	-34.092	36
13	MP4	Z	-182.142	24.4
14	MP4	Z	-182.142	108
15	MP5	Z	-69.342	41.85
16	MP5	Z	-69.342	78.15
17	MP6	Z	-256.341	12
18	MP6	Z	-256.341	108
19	RP3	Z	-37.462	24
20	RP3	Z	-26.312	24
21	RP4	Z	-46.475	24
22	RP4	Z	-47.022	24
23	MP7	Z	-90.674	24.4
24	MP7	Z	-90.674	108
25	MP8	Z	-45.875	41.85

Member Point Loads (BLC 4 : Wind Load 45 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
26	MP8	Z	-45.875	78.15
27	MP9	Z	-130.646	12
28	MP9	Z	-130.646	108
29	RP5	Z	-37.462	24
30	RP5	Z	-26.312	24
31	RP6	Z	-46.475	24
32	RP6	Z	-47.022	24
33	MP7	Z	-11.091	12
34	MP1	X	-136.408	24.4
35	MP1	X	-136.408	108
36	MP2	X	-57.608	41.85
37	MP2	X	-57.608	78.15
38	MP3	X	-193.493	12
39	MP3	X	-193.493	108
40	RP1	X	-55.271	96
41	RP1	X	-48.803	96
42	RP2	X	-39.014	96
43	RP2	X	-41.204	96
44	RP1	X	-34.092	36
45	RP2	X	-34.092	36
46	MP4	X	-182.142	24.4
47	MP4	X	-182.142	108
48	MP5	X	-69.342	41.85
49	MP5	X	-69.342	78.15
50	MP6	X	-256.341	12
51	MP6	X	-256.341	108
52	RP3	X	-37.462	24
53	RP3	X	-26.312	24
54	RP4	X	-46.475	24
55	RP4	X	-47.022	24
56	MP7	X	-90.674	24.4
57	MP7	X	-90.674	108
58	MP8	X	-45.875	41.85
59	MP8	X	-45.875	78.15
60	MP9	X	-130.646	12
61	MP9	X	-130.646	108
62	RP5	X	-37.462	24
63	RP5	X	-26.312	24
64	RP6	X	-46.475	24
65	RP6	X	-47.022	24
66	MP7	X	-11.091	12

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-77.784	24.4
2	MP1	Z	-77.784	108
3	MP2	Z	-35.945	41.85
4	MP2	Z	-35.945	78.15
5	MP3	Z	-111.163	12
6	MP3	Z	-111.163	108
7	RP1	Z	-37.958	96
8	RP1	Z	-33.088	96
9	RP2	Z	-28.058	96
10	RP2	Z	-29.503	96
11	RP1	Z	-24.107	36
12	RP2	Z	-24.107	36
13	MP4	Z	-133.796	24.4
14	MP4	Z	-133.796	108
15	MP5	Z	-50.315	41.85
16	MP5	Z	-50.315	78.15
17	MP6	Z	-188.135	12
18	MP6	Z	-188.135	108
19	RP3	Z	-30.687	24
20	RP3	Z	-23.906	24
21	RP4	Z	-31.104	24
22	RP4	Z	-31.878	24
23	MP7	Z	-77.784	24.4
24	MP7	Z	-77.784	108
25	MP8	Z	-35.945	41.85
26	MP8	Z	-35.945	78.15
27	MP9	Z	-111.163	12
28	MP9	Z	-111.163	108
29	RP5	Z	-23.416	24
30	RP5	Z	-14.724	24
31	RP6	Z	-34.15	24
32	RP6	Z	-34.254	24
33	MP7	Z	-8.084	12

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
34	MP1	X	-134.726	24.4
35	MP1	X	-134.726	108
36	MP2	X	-62.259	41.85
37	MP2	X	-62.259	78.15
38	MP3	X	-192.54	12
39	MP3	X	-192.54	108
40	RP1	X	-65.745	96
41	RP1	X	-57.31	96
42	RP2	X	-48.598	96
43	RP2	X	-51.101	96
44	RP1	X	-41.754	36
45	RP2	X	-41.754	36
46	MP4	X	-231.742	24.4
47	MP4	X	-231.742	108
48	MP5	X	-87.149	41.85
49	MP5	X	-87.149	78.15
50	MP6	X	-325.86	12
51	MP6	X	-325.86	108
52	RP3	X	-53.152	24
53	RP3	X	-41.407	24
54	RP4	X	-53.874	24
55	RP4	X	-55.215	24
56	MP7	X	-134.726	24.4
57	MP7	X	-134.726	108
58	MP8	X	-62.259	41.85
59	MP8	X	-62.259	78.15
60	MP9	X	-192.54	12
61	MP9	X	-192.54	108
62	RP5	X	-40.558	24
63	RP5	X	-25.503	24
64	RP6	X	-59.15	24
65	RP6	X	-59.329	24
66	MP7	X	-14.003	12

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	X	-118.227	24.4
2	MP1	X	-118.227	108
3	MP2	X	-62.311	41.85
4	MP2	X	-62.311	78.15
5	MP3	X	-171.011	12
6	MP3	X	-171.011	108
7	RP1	X	-61.374	96
8	RP1	X	-47.812	96
9	RP2	X	-62.208	96
10	RP2	X	-63.757	96
11	RP1	X	-48.214	36
12	RP2	X	-48.214	36
13	MP4	X	-230.252	24.4
14	MP4	X	-230.252	108
15	MP5	X	-91.051	41.85
16	MP5	X	-91.051	78.15
17	MP6	X	-324.956	12
18	MP6	X	-324.956	108
19	RP3	X	-75.916	24
20	RP3	X	-66.176	24
21	RP4	X	-56.116	24
22	RP4	X	-59.006	24
23	MP7	X	-230.252	24.4
24	MP7	X	-230.252	108
25	MP8	X	-91.051	41.85
26	MP8	X	-91.051	78.15
27	MP9	X	-324.956	12
28	MP9	X	-324.956	108
29	RP5	X	-46.833	24
30	RP5	X	-29.449	24
31	RP6	X	-68.3	24
32	RP6	X	-68.508	24
33	MP7	X	-17.49	12

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	77.784	24.4
2	MP1	Z	77.784	108
3	MP2	Z	35.945	41.85

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
4	MP2	Z	35.945	78.15
5	MP3	Z	111.163	12
6	MP3	Z	111.163	108
7	RP1	Z	23.416	96
8	RP1	Z	14.724	96
9	RP2	Z	34.15	96
10	RP2	Z	34.254	96
11	RP1	Z	24.107	36
12	RP2	Z	24.107	36
13	MP4	Z	77.784	24.4
14	MP4	Z	77.784	108
15	MP5	Z	35.945	41.85
16	MP5	Z	35.945	78.15
17	MP6	Z	111.163	12
18	MP6	Z	111.163	108
19	RP3	Z	37.958	24
20	RP3	Z	33.088	24
21	RP4	Z	28.058	24
22	RP4	Z	29.503	24
23	MP7	Z	133.796	24.4
24	MP7	Z	133.796	108
25	MP8	Z	50.315	41.85
26	MP8	Z	50.315	78.15
27	MP9	Z	188.135	12
28	MP9	Z	188.135	108
29	RP5	Z	30.687	24
30	RP5	Z	23.906	24
31	RP6	Z	31.104	24
32	RP6	Z	31.878	24
33	MP7	Z	9.076	12
34	MP1	X	-134.726	24.4
35	MP1	X	-134.726	108
36	MP2	X	-62.259	41.85
37	MP2	X	-62.259	78.15
38	MP3	X	-192.54	12
39	MP3	X	-192.54	108
40	RP1	X	-40.558	96
41	RP1	X	-25.503	96
42	RP2	X	-59.15	96
43	RP2	X	-59.329	96
44	RP1	X	-41.754	36
45	RP2	X	-41.754	36
46	MP4	X	-134.726	24.4
47	MP4	X	-134.726	108
48	MP5	X	-62.259	41.85
49	MP5	X	-62.259	78.15
50	MP6	X	-192.54	12
51	MP6	X	-192.54	108
52	RP3	X	-65.745	24
53	RP3	X	-57.31	24
54	RP4	X	-48.598	24
55	RP4	X	-51.101	24
56	MP7	X	-231.742	24.4
57	MP7	X	-231.742	108
58	MP8	X	-87.149	41.85
59	MP8	X	-87.149	78.15
60	MP9	X	-325.86	12
61	MP9	X	-325.86	108
62	RP5	X	-53.152	24
63	RP5	X	-41.407	24
64	RP6	X	-53.874	24
65	RP6	X	-55.215	24
66	MP7	X	-15.719	12

Member Point Loads (BLC 8 : Wind Load 135 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	136.408	24.4
2	MP1	Z	136.408	108
3	MP2	Z	57.608	41.85
4	MP2	Z	57.608	78.15
5	MP3	Z	193.493	12
6	MP3	Z	193.493	108
7	RP1	Z	31.525	96
8	RP1	Z	18.814	96
9	RP2	Z	48.962	96
10	RP2	Z	48.962	96
11	RP1	Z	34.092	36

Member Point Loads (BLC 8 : Wind Load 135 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
12	RP2	Z	34.092	36
13	MP4	Z	90.674	24.4
14	MP4	Z	90.674	108
15	MP5	Z	45.875	41.85
16	MP5	Z	45.875	78.15
17	MP6	Z	130.646	12
18	MP6	Z	130.646	108
19	RP3	Z	49.335	24
20	RP3	Z	41.306	24
21	RP4	Z	41.501	24
22	RP4	Z	43.143	24
23	MP7	Z	182.142	24.4
24	MP7	Z	182.142	108
25	MP8	Z	69.342	41.85
26	MP8	Z	69.342	78.15
27	MP9	Z	256.341	12
28	MP9	Z	256.341	108
29	RP5	Z	49.335	24
30	RP5	Z	41.306	24
31	RP6	Z	41.501	24
32	RP6	Z	43.143	24
33	MP7	Z	12.71	12
34	MP1	X	-136.408	24.4
35	MP1	X	-136.408	108
36	MP2	X	-57.608	41.85
37	MP2	X	-57.608	78.15
38	MP3	X	-193.493	12
39	MP3	X	-193.493	108
40	RP1	X	-31.525	96
41	RP1	X	-18.814	96
42	RP2	X	-48.962	96
43	RP2	X	-48.962	96
44	RP1	X	-34.092	36
45	RP2	X	-34.092	36
46	MP4	X	-90.674	24.4
47	MP4	X	-90.674	108
48	MP5	X	-45.875	41.85
49	MP5	X	-45.875	78.15
50	MP6	X	-130.646	12
51	MP6	X	-130.646	108
52	RP3	X	-49.335	24
53	RP3	X	-41.306	24
54	RP4	X	-41.501	24
55	RP4	X	-43.143	24
56	MP7	X	-182.142	24.4
57	MP7	X	-182.142	108
58	MP8	X	-69.342	41.85
59	MP8	X	-69.342	78.15
60	MP9	X	-256.341	12
61	MP9	X	-256.341	108
62	RP5	X	-49.335	24
63	RP5	X	-41.306	24
64	RP6	X	-41.501	24
65	RP6	X	-43.143	24
66	MP7	X	-12.71	12

Member Point Loads (BLC 9 : Wind Load 150 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	199.404	24.4
2	MP1	Z	199.404	108
3	MP2	Z	78.852	41.85
4	MP2	Z	78.852	78.15
5	MP3	Z	281.42	12
6	MP3	Z	281.42	108
7	RP1	Z	40.558	96
8	RP1	Z	25.503	96
9	RP2	Z	59.15	96
10	RP2	Z	59.329	96
11	RP1	Z	41.754	36
12	RP2	Z	41.754	36
13	MP4	Z	102.388	24.4
14	MP4	Z	102.388	108
15	MP5	Z	53.962	41.85
16	MP5	Z	53.962	78.15
17	MP6	Z	148.1	12
18	MP6	Z	148.1	108
19	RP3	Z	53.152	24

Member Point Loads (BLC 9 : Wind Load 150 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
20	RP3	Z	41.407	24
21	RP4	Z	53.874	24
22	RP4	Z	55.215	24
23	MP7	Z	199.404	24.4
24	MP7	Z	199.404	108
25	MP8	Z	78.852	41.85
26	MP8	Z	78.852	78.15
27	MP9	Z	281.42	12
28	MP9	Z	281.42	108
29	RP5	Z	65.745	24
30	RP5	Z	57.31	24
31	RP6	Z	48.598	24
32	RP6	Z	51.101	24
33	MP7	Z	15.147	12
34	MP1	X	-115.126	24.4
35	MP1	X	-115.126	108
36	MP2	X	-45.525	41.85
37	MP2	X	-45.525	78.15
38	MP3	X	-162.478	12
39	MP3	X	-162.478	108
40	RP1	X	-23.416	96
41	RP1	X	-14.724	96
42	RP2	X	-34.15	96
43	RP2	X	-34.254	96
44	RP1	X	-24.107	36
45	RP2	X	-24.107	36
46	MP4	X	-59.114	24.4
47	MP4	X	-59.114	108
48	MP5	X	-31.155	41.85
49	MP5	X	-31.155	78.15
50	MP6	X	-85.505	12
51	MP6	X	-85.505	108
52	RP3	X	-30.687	24
53	RP3	X	-23.906	24
54	RP4	X	-31.104	24
55	RP4	X	-31.878	24
56	MP7	X	-115.126	24.4
57	MP7	X	-115.126	108
58	MP8	X	-45.525	41.85
59	MP8	X	-45.525	78.15
60	MP9	X	-162.478	12
61	MP9	X	-162.478	108
62	RP5	X	-37.958	24
63	RP5	X	-33.088	24
64	RP6	X	-28.058	24
65	RP6	X	-29.503	24
66	MP7	X	-8.745	12

Member Point Loads (BLC 12 : Ice Weight)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Y	-85.461	24.4
2	MP1	Y	-85.461	108
3	MP2	Y	-42.559	41.85
4	MP2	Y	-42.559	78.15
5	MP3	Y	-112.424	12
6	MP3	Y	-112.424	108
7	RP1	Y	-38.47	96
8	RP1	Y	-29.468	96
9	RP2	Y	-41.422	96
10	RP2	Y	-42.695	96
11	RP1	Y	-61.606	36
12	RP2	Y	-61.606	36
13	MP4	Y	-85.461	24.4
14	MP4	Y	-85.461	108
15	MP5	Y	-42.559	41.85
16	MP5	Y	-42.559	78.15
17	MP6	Y	-112.424	12
18	MP6	Y	-112.424	108
19	RP3	Y	-38.47	24
20	RP3	Y	-29.468	24
21	RP4	Y	-41.422	24
22	RP4	Y	-42.695	24
23	MP7	Y	-85.461	24.4
24	MP7	Y	-85.461	108
25	MP8	Y	-42.559	41.85
26	MP8	Y	-42.559	78.15
27	MP9	Y	-112.424	12

Member Point Loads (BLC 12 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
28	MP9	Y	-112.424	108
29	RP5	Y	-38.47	24
30	RP5	Y	-29.468	24
31	RP6	Y	-41.422	24
32	RP6	Y	-42.695	24
33	MP7	Y	-14.492	12

Member Point Loads (BLC 13 : Ice Wind Load 0 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-27.507	24.4
2	MP1	Z	-27.507	108
3	MP2	Z	-11.09	41.85
4	MP2	Z	-11.09	78.15
5	MP3	Z	-38.039	12
6	MP3	Z	-38.039	108
7	RP1	Z	-7.659	96
8	RP1	Z	-6.182	96
9	RP2	Z	-7.714	96
10	RP2	Z	-7.876	96
11	RP1	Z	-13.466	36
12	RP2	Z	-13.466	36
13	MP4	Z	-16.958	24.4
14	MP4	Z	-16.958	108
15	MP5	Z	-8.229	41.85
16	MP5	Z	-8.229	78.15
17	MP6	Z	-23.926	12
18	MP6	Z	-23.926	108
19	RP3	Z	-6.155	24
20	RP3	Z	-4.238	24
21	RP4	Z	-8.352	24
22	RP4	Z	-8.373	24
23	MP7	Z	-16.958	24.4
24	MP7	Z	-16.958	108
25	MP8	Z	-8.229	41.85
26	MP8	Z	-8.229	78.15
27	MP9	Z	-23.926	12
28	MP9	Z	-23.926	108
29	RP5	Z	-9.162	24
30	RP5	Z	-8.126	24
31	RP6	Z	-7.077	24
32	RP6	Z	-7.379	24
33	MP7	Z	-2.585	12

Member Point Loads (BLC 14 : Ice Wind Load 30 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-20.776	24.4
2	MP1	Z	-20.776	108
3	MP2	Z	-8.778	41.85
4	MP2	Z	-8.778	78.15
5	MP3	Z	-28.869	12
6	MP3	Z	-28.869	108
7	RP1	Z	-7.935	96
8	RP1	Z	-7.037	96
9	RP2	Z	-6.129	96
10	RP2	Z	-6.391	96
11	RP1	Z	-11.662	36
12	RP2	Z	-11.662	36
13	MP4	Z	-20.776	24.4
14	MP4	Z	-20.776	108
15	MP5	Z	-8.778	41.85
16	MP5	Z	-8.778	78.15
17	MP6	Z	-28.869	12
18	MP6	Z	-28.869	108
19	RP3	Z	-5.33	24
20	RP3	Z	-3.67	24
21	RP4	Z	-7.233	24
22	RP4	Z	-7.252	24
23	MP7	Z	-11.641	24.4
24	MP7	Z	-11.641	108
25	MP8	Z	-6.3	41.85
26	MP8	Z	-6.3	78.15
27	MP9	Z	-16.647	12
28	MP9	Z	-16.647	108
29	RP5	Z	-6.633	24
30	RP5	Z	-5.354	24

Member Point Loads (BLC 14 : Ice Wind Load 30 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
31	RP6	Z	-6.681	24
32	RP6	Z	-6.821	24
33	MP7	Z	-2.168	12
34	MP1	X	-11.995	24.4
35	MP1	X	-11.995	108
36	MP2	X	-5.068	41.85
37	MP2	X	-5.068	78.15
38	MP3	X	-16.667	12
39	MP3	X	-16.667	108
40	RP1	X	-4.581	96
41	RP1	X	-4.063	96
42	RP2	X	-3.538	96
43	RP2	X	-3.69	96
44	RP1	X	-6.733	36
45	RP2	X	-6.733	36
46	MP4	X	-11.995	24.4
47	MP4	X	-11.995	108
48	MP5	X	-5.068	41.85
49	MP5	X	-5.068	78.15
50	MP6	X	-16.667	12
51	MP6	X	-16.667	108
52	RP3	X	-3.078	24
53	RP3	X	-2.119	24
54	RP4	X	-4.176	24
55	RP4	X	-4.187	24
56	MP7	X	-6.721	24.4
57	MP7	X	-6.721	108
58	MP8	X	-3.637	41.85
59	MP8	X	-3.637	78.15
60	MP9	X	-9.611	12
61	MP9	X	-9.611	108
62	RP5	X	-3.829	24
63	RP5	X	-3.091	24
64	RP6	X	-3.857	24
65	RP6	X	-3.938	24
66	MP7	X	-1.252	12

Member Point Loads (BLC 15 : Ice Wind Load 45 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-14.478	24.4
2	MP1	Z	-14.478	108
3	MP2	Z	-6.493	41.85
4	MP2	Z	-6.493	78.15
5	MP3	Z	-20.245	12
6	MP3	Z	-20.245	108
7	RP1	Z	-6.643	96
8	RP1	Z	-5.958	96
9	RP2	Z	-4.934	96
10	RP2	Z	-5.163	96
11	RP1	Z	-9.522	36
12	RP2	Z	-9.522	36
13	MP4	Z	-18.784	24.4
14	MP4	Z	-18.784	108
15	MP5	Z	-7.661	41.85
16	MP5	Z	-7.661	78.15
17	MP6	Z	-26.007	12
18	MP6	Z	-26.007	108
19	RP3	Z	-4.802	24
20	RP3	Z	-3.578	24
21	RP4	Z	-5.715	24
22	RP4	Z	-5.772	24
23	MP7	Z	-10.171	24.4
24	MP7	Z	-10.171	108
25	MP8	Z	-5.325	41.85
26	MP8	Z	-5.325	78.15
27	MP9	Z	-14.483	12
28	MP9	Z	-14.483	108
29	RP5	Z	-4.802	24
30	RP5	Z	-3.578	24
31	RP6	Z	-5.715	24
32	RP6	Z	-5.772	24
33	MP7	Z	-1.786	12
34	MP1	X	-14.478	24.4
35	MP1	X	-14.478	108
36	MP2	X	-6.493	41.85
37	MP2	X	-6.493	78.15
38	MP3	X	-20.245	12

Member Point Loads (BLC 15 : Ice Wind Load 45 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
39	MP3	X	-20.245	108
40	RP1	X	-6.643	96
41	RP1	X	-5.958	96
42	RP2	X	-4.934	96
43	RP2	X	-5.163	96
44	RP1	X	-9.522	36
45	RP2	X	-9.522	36
46	MP4	X	-18.784	24.4
47	MP4	X	-18.784	108
48	MP5	X	-7.661	41.85
49	MP5	X	-7.661	78.15
50	MP6	X	-26.007	12
51	MP6	X	-26.007	108
52	RP3	X	-4.802	24
53	RP3	X	-3.578	24
54	RP4	X	-5.715	24
55	RP4	X	-5.772	24
56	MP7	X	-10.171	24.4
57	MP7	X	-10.171	108
58	MP8	X	-5.325	41.85
59	MP8	X	-5.325	78.15
60	MP9	X	-14.483	12
61	MP9	X	-14.483	108
62	RP5	X	-4.802	24
63	RP5	X	-3.578	24
64	RP6	X	-5.715	24
65	RP6	X	-5.772	24
66	MP7	X	-1.786	12

Member Point Loads (BLC 16 : Ice Wind Load 60 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-8.479	24.4
2	MP1	Z	-8.479	108
3	MP2	Z	-4.114	41.85
4	MP2	Z	-4.114	78.15
5	MP3	Z	-11.963	12
6	MP3	Z	-11.963	108
7	RP1	Z	-4.581	96
8	RP1	Z	-4.063	96
9	RP2	Z	-3.538	96
10	RP2	Z	-3.69	96
11	RP1	Z	-6.733	36
12	RP2	Z	-6.733	36
13	MP4	Z	-13.753	24.4
14	MP4	Z	-13.753	108
15	MP5	Z	-5.545	41.85
16	MP5	Z	-5.545	78.15
17	MP6	Z	-19.02	12
18	MP6	Z	-19.02	108
19	RP3	Z	-3.829	24
20	RP3	Z	-3.091	24
21	RP4	Z	-3.857	24
22	RP4	Z	-3.938	24
23	MP7	Z	-8.479	24.4
24	MP7	Z	-8.479	108
25	MP8	Z	-4.114	41.85
26	MP8	Z	-4.114	78.15
27	MP9	Z	-11.963	12
28	MP9	Z	-11.963	108
29	RP5	Z	-3.078	24
30	RP5	Z	-2.119	24
31	RP6	Z	-4.176	24
32	RP6	Z	-4.187	24
33	MP7	Z	-1.293	12
34	MP1	X	-14.686	24.4
35	MP1	X	-14.686	108
36	MP2	X	-7.126	41.85
37	MP2	X	-7.126	78.15
38	MP3	X	-20.721	12
39	MP3	X	-20.721	108
40	RP1	X	-7.935	96
41	RP1	X	-7.037	96
42	RP2	X	-6.129	96
43	RP2	X	-6.391	96
44	RP1	X	-11.662	36
45	RP2	X	-11.662	36
46	MP4	X	-23.822	24.4

Member Point Loads (BLC 16 : Ice Wind Load 60 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
47	MP4	X	-23.822	108
48	MP5	X	-9.605	41.85
49	MP5	X	-9.605	78.15
50	MP6	X	-32.943	12
51	MP6	X	-32.943	108
52	RP3	X	-6.633	24
53	RP3	X	-5.354	24
54	RP4	X	-6.681	24
55	RP4	X	-6.821	24
56	MP7	X	-14.686	24.4
57	MP7	X	-14.686	108
58	MP8	X	-7.126	41.85
59	MP8	X	-7.126	78.15
60	MP9	X	-20.721	12
61	MP9	X	-20.721	108
62	RP5	X	-5.33	24
63	RP5	X	-3.67	24
64	RP6	X	-7.233	24
65	RP6	X	-7.252	24
66	MP7	X	-2.239	12

Member Point Loads (BLC 17 : Ice Wind Load 90 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	X	-13.442	24.4
2	MP1	X	-13.442	108
3	MP2	X	-7.275	41.85
4	MP2	X	-7.275	78.15
5	MP3	X	-19.222	12
6	MP3	X	-19.222	108
7	RP1	X	-7.659	96
8	RP1	X	-6.182	96
9	RP2	X	-7.714	96
10	RP2	X	-7.876	96
11	RP1	X	-13.466	36
12	RP2	X	-13.466	36
13	MP4	X	-23.991	24.4
14	MP4	X	-23.991	108
15	MP5	X	-10.137	41.85
16	MP5	X	-10.137	78.15
17	MP6	X	-33.335	12
18	MP6	X	-33.335	108
19	RP3	X	-9.162	24
20	RP3	X	-8.126	24
21	RP4	X	-7.077	24
22	RP4	X	-7.379	24
23	MP7	X	-23.991	24.4
24	MP7	X	-23.991	108
25	MP8	X	-10.137	41.85
26	MP8	X	-10.137	78.15
27	MP9	X	-33.335	12
28	MP9	X	-33.335	108
29	RP5	X	-6.155	24
30	RP5	X	-4.238	24
31	RP6	X	-8.352	24
32	RP6	X	-8.373	24
33	MP7	X	-2.747	12

Member Point Loads (BLC 18 : Ice Wind Load 120 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	8.479	24.4
2	MP1	Z	8.479	108
3	MP2	Z	4.114	41.85
4	MP2	Z	4.114	78.15
5	MP3	Z	11.963	12
6	MP3	Z	11.963	108
7	RP1	Z	3.078	96
8	RP1	Z	2.119	96
9	RP2	Z	4.176	96
10	RP2	Z	4.187	96
11	RP1	Z	6.733	36
12	RP2	Z	6.733	36
13	MP4	Z	8.479	24.4
14	MP4	Z	8.479	108
15	MP5	Z	4.114	41.85
16	MP5	Z	4.114	78.15

Member Point Loads (BLC 18 : Ice Wind Load 120 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
17	MP6	Z	11.963	12
18	MP6	Z	11.963	108
19	RP3	Z	4.581	24
20	RP3	Z	4.063	24
21	RP4	Z	3.538	24
22	RP4	Z	3.69	24
23	MP7	Z	13.753	24.4
24	MP7	Z	13.753	108
25	MP8	Z	5.545	41.85
26	MP8	Z	5.545	78.15
27	MP9	Z	19.02	12
28	MP9	Z	19.02	108
29	RP5	Z	3.829	24
30	RP5	Z	3.091	24
31	RP6	Z	3.857	24
32	RP6	Z	3.938	24
33	MP7	Z	1.414	12
34	MP1	X	-14.686	24.4
35	MP1	X	-14.686	108
36	MP2	X	-7.126	41.85
37	MP2	X	-7.126	78.15
38	MP3	X	-20.721	12
39	MP3	X	-20.721	108
40	RP1	X	-5.33	96
41	RP1	X	-3.67	96
42	RP2	X	-7.233	96
43	RP2	X	-7.252	96
44	RP1	X	-11.662	36
45	RP2	X	-11.662	36
46	MP4	X	-14.686	24.4
47	MP4	X	-14.686	108
48	MP5	X	-7.126	41.85
49	MP5	X	-7.126	78.15
50	MP6	X	-20.721	12
51	MP6	X	-20.721	108
52	RP3	X	-7.935	24
53	RP3	X	-7.037	24
54	RP4	X	-6.129	24
55	RP4	X	-6.391	24
56	MP7	X	-23.822	24.4
57	MP7	X	-23.822	108
58	MP8	X	-9.605	41.85
59	MP8	X	-9.605	78.15
60	MP9	X	-32.943	12
61	MP9	X	-32.943	108
62	RP5	X	-6.633	24
63	RP5	X	-5.354	24
64	RP6	X	-6.681	24
65	RP6	X	-6.821	24
66	MP7	X	-2.449	12

Member Point Loads (BLC 19 : Ice Wind Load 135 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	14.478	24.4
2	MP1	Z	14.478	108
3	MP2	Z	6.493	41.85
4	MP2	Z	6.493	78.15
5	MP3	Z	20.245	12
6	MP3	Z	20.245	108
7	RP1	Z	4.188	96
8	RP1	Z	2.784	96
9	RP2	Z	5.975	96
10	RP2	Z	5.975	96
11	RP1	Z	9.522	36
12	RP2	Z	9.522	36
13	MP4	Z	10.171	24.4
14	MP4	Z	10.171	108
15	MP5	Z	5.325	41.85
16	MP5	Z	5.325	78.15
17	MP6	Z	14.483	12
18	MP6	Z	14.483	108
19	RP3	Z	6.029	24
20	RP3	Z	5.165	24
21	RP4	Z	5.195	24
22	RP4	Z	5.366	24
23	MP7	Z	18.784	24.4
24	MP7	Z	18.784	108

Member Point Loads (BLC 19 : Ice Wind Load 135 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
25	MP8	Z	7.661	41.85
26	MP8	Z	7.661	78.15
27	MP9	Z	26.007	12
28	MP9	Z	26.007	108
29	RP5	Z	6.029	24
30	RP5	Z	5.165	24
31	RP6	Z	5.195	24
32	RP6	Z	5.366	24
33	MP7	Z	1.984	12
34	MP1	X	-14.478	24.4
35	MP1	X	-14.478	108
36	MP2	X	-6.493	41.85
37	MP2	X	-6.493	78.15
38	MP3	X	-20.245	12
39	MP3	X	-20.245	108
40	RP1	X	-4.188	96
41	RP1	X	-2.784	96
42	RP2	X	-5.975	96
43	RP2	X	-5.975	96
44	RP1	X	-9.522	36
45	RP2	X	-9.522	36
46	MP4	X	-10.171	24.4
47	MP4	X	-10.171	108
48	MP5	X	-5.325	41.85
49	MP5	X	-5.325	78.15
50	MP6	X	-14.483	12
51	MP6	X	-14.483	108
52	RP3	X	-6.029	24
53	RP3	X	-5.165	24
54	RP4	X	-5.195	24
55	RP4	X	-5.366	24
56	MP7	X	-18.784	24.4
57	MP7	X	-18.784	108
58	MP8	X	-7.661	41.85
59	MP8	X	-7.661	78.15
60	MP9	X	-26.007	12
61	MP9	X	-26.007	108
62	RP5	X	-6.029	24
63	RP5	X	-5.165	24
64	RP6	X	-5.195	24
65	RP6	X	-5.366	24
66	MP7	X	-1.984	12

Member Point Loads (BLC 20 : Ice Wind Load 150 AZI)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	20.776	24.4
2	MP1	Z	20.776	108
3	MP2	Z	8.778	41.85
4	MP2	Z	8.778	78.15
5	MP3	Z	28.869	12
6	MP3	Z	28.869	108
7	RP1	Z	5.33	96
8	RP1	Z	3.67	96
9	RP2	Z	7.233	96
10	RP2	Z	7.252	96
11	RP1	Z	11.662	36
12	RP2	Z	11.662	36
13	MP4	Z	11.641	24.4
14	MP4	Z	11.641	108
15	MP5	Z	6.3	41.85
16	MP5	Z	6.3	78.15
17	MP6	Z	16.647	12
18	MP6	Z	16.647	108
19	RP3	Z	6.633	24
20	RP3	Z	5.354	24
21	RP4	Z	6.681	24
22	RP4	Z	6.821	24
23	MP7	Z	20.776	24.4
24	MP7	Z	20.776	108
25	MP8	Z	8.778	41.85
26	MP8	Z	8.778	78.15
27	MP9	Z	28.869	12
28	MP9	Z	28.869	108
29	RP5	Z	7.935	24
30	RP5	Z	7.037	24
31	RP6	Z	6.129	24
32	RP6	Z	6.391	24

Member Point Loads (BLC 20 : Ice Wind Load 150 AZI) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
33	MP7	Z	2.379	12
34	MP1	X	-11.995	24.4
35	MP1	X	-11.995	108
36	MP2	X	-5.068	41.85
37	MP2	X	-5.068	78.15
38	MP3	X	-16.667	12
39	MP3	X	-16.667	108
40	RP1	X	-3.078	96
41	RP1	X	-2.119	96
42	RP2	X	-4.176	96
43	RP2	X	-4.187	96
44	RP1	X	-6.733	36
45	RP2	X	-6.733	36
46	MP4	X	-6.721	24.4
47	MP4	X	-6.721	108
48	MP5	X	-3.637	41.85
49	MP5	X	-3.637	78.15
50	MP6	X	-9.611	12
51	MP6	X	-9.611	108
52	RP3	X	-3.829	24
53	RP3	X	-3.091	24
54	RP4	X	-3.857	24
55	RP4	X	-3.938	24
56	MP7	X	-11.995	24.4
57	MP7	X	-11.995	108
58	MP8	X	-5.068	41.85
59	MP8	X	-5.068	78.15
60	MP9	X	-16.667	12
61	MP9	X	-16.667	108
62	RP5	X	-4.581	24
63	RP5	X	-4.063	24
64	RP6	X	-3.538	24
65	RP6	X	-3.69	24
66	MP7	X	-1.374	12

Member Point Loads (BLC 23 : Seismic Load Z)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	Z	-4.371	24.4
2	MP1	Z	-4.371	108
3	MP2	Z	-4.928	41.85
4	MP2	Z	-4.928	78.15
5	MP3	Z	-7.616	12
6	MP3	Z	-7.616	108
7	RP1	Z	-7.68	96
8	RP1	Z	-5.491	96
9	RP2	Z	-9.594	96
10	RP2	Z	-9.6	96
11	RP1	Z	-3.354	36
12	RP2	Z	-3.354	36
13	MP4	Z	-4.371	24.4
14	MP4	Z	-4.371	108
15	MP5	Z	-4.928	41.85
16	MP5	Z	-4.928	78.15
17	MP6	Z	-7.616	12
18	MP6	Z	-7.616	108
19	RP3	Z	-7.68	24
20	RP3	Z	-5.491	24
21	RP4	Z	-9.594	24
22	RP4	Z	-9.6	24
23	MP7	Z	-4.371	24.4
24	MP7	Z	-4.371	108
25	MP8	Z	-4.928	41.85
26	MP8	Z	-4.928	78.15
27	MP9	Z	-7.616	12
28	MP9	Z	-7.616	108
29	RP5	Z	-7.68	24
30	RP5	Z	-5.491	24
31	RP6	Z	-9.594	24
32	RP6	Z	-9.6	24
33	MP7	Z	-2.286	12

Member Point Loads (BLC 24 : Seismic Load X)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	MP1	X	-4.371	24.4
2	MP1	X	-4.371	108
3	MP2	X	-4.928	41.85
4	MP2	X	-4.928	78.15
5	MP3	X	-7.616	12
6	MP3	X	-7.616	108
7	RP1	X	-7.68	96
8	RP1	X	-5.491	96
9	RP2	X	-9.594	96
10	RP2	X	-9.6	96
11	RP1	X	-3.354	36
12	RP2	X	-3.354	36
13	MP4	X	-4.371	24.4
14	MP4	X	-4.371	108
15	MP5	X	-4.928	41.85
16	MP5	X	-4.928	78.15
17	MP6	X	-7.616	12
18	MP6	X	-7.616	108
19	RP3	X	-7.68	24
20	RP3	X	-5.491	24
21	RP4	X	-9.594	24
22	RP4	X	-9.6	24
23	MP7	X	-4.371	24.4
24	MP7	X	-4.371	108
25	MP8	X	-4.928	41.85
26	MP8	X	-4.928	78.15
27	MP9	X	-7.616	12
28	MP9	X	-7.616	108
29	RP5	X	-7.68	24
30	RP5	X	-5.491	24
31	RP6	X	-9.594	24
32	RP6	X	-9.6	24
33	MP7	X	-2.286	12

Member Point Loads (BLC 25 : Lv1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H1	Y	-250	0

Member Point Loads (BLC 26 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H1	Y	-250	%50

Member Point Loads (BLC 27 : Lv3)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H1	Y	-250	%100

Member Point Loads (BLC 28 : Lv4)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H4	Y	-250	0

Member Point Loads (BLC 29 : Lv5)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H4	Y	-250	%50

Member Point Loads (BLC 30 : Lv6)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H4	Y	-250	%100

Member Point Loads (BLC 31 : Lv7)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H6	Y	-250	0

Member Point Loads (BLC 32 : Lv8)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H6	Y	-250	%50

Member Point Loads (BLC 33 : Lv9)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(in, %)]
1	H6	Y	-250	%100

Member Distributed Loads (BLC 10 : Structure Wind Z)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	H2	SZ	-45.938	-45.938	0	%100
2	H1	SZ	-45.938	-45.938	0	%100
3	MP1	SZ	-45.938	-45.938	0	%100
4	MP2	SZ	-45.938	-45.938	0	%100
5	MP3	SZ	-45.938	-45.938	0	%100
6	M7	SZ	-45.938	-45.938	0	%100
7	M8	SZ	-45.938	-45.938	0	%100
8	M9	SZ	-45.938	-45.938	0	%100
9	M10	SZ	-45.938	-45.938	0	%100
10	D2	SZ	-45.938	-45.938	0	%100
11	D1	SZ	-45.938	-45.938	0	%100
12	M13	SZ	-45.938	-45.938	0	%100
13	M14	SZ	-45.938	-45.938	0	%100
14	P1	SZ	-45.938	-45.938	0	%100
15	T2	SZ	-45.938	-45.938	0	%100
16	T1	SZ	-45.938	-45.938	0	%100
17	M29	SZ	-45.938	-45.938	0	%100
18	MP9	SZ	-45.938	-45.938	0	%100
19	H5	SZ	-45.938	-45.938	0	%100
20	M33	SZ	-45.938	-45.938	0	%100
21	H6	SZ	-45.938	-45.938	0	%100
22	MP7	SZ	-45.938	-45.938	0	%100
23	M37	SZ	-45.938	-45.938	0	%100
24	M38	SZ	-45.938	-45.938	0	%100
25	M39	SZ	-45.938	-45.938	0	%100
26	D6	SZ	-45.938	-45.938	0	%100
27	D5	SZ	-45.938	-45.938	0	%100
28	M42	SZ	-45.938	-45.938	0	%100
29	P3	SZ	-45.938	-45.938	0	%100
30	T5	SZ	-45.938	-45.938	0	%100
31	T4	SZ	-45.938	-45.938	0	%100
32	M56	SZ	-45.938	-45.938	0	%100
33	MP6	SZ	-45.938	-45.938	0	%100
34	H3	SZ	-45.938	-45.938	0	%100
35	M60	SZ	-45.938	-45.938	0	%100
36	H4	SZ	-45.938	-45.938	0	%100
37	MP4	SZ	-45.938	-45.938	0	%100
38	M64	SZ	-45.938	-45.938	0	%100
39	M65	SZ	-45.938	-45.938	0	%100
40	M66	SZ	-45.938	-45.938	0	%100
41	D4	SZ	-45.938	-45.938	0	%100
42	D3	SZ	-45.938	-45.938	0	%100
43	M69	SZ	-45.938	-45.938	0	%100
44	P2	SZ	-45.938	-45.938	0	%100
45	T3	SZ	-45.938	-45.938	0	%100
46	T6	SZ	-45.938	-45.938	0	%100
47	RP2	SZ	-45.938	-45.938	0	%100
48	RP6	SZ	-45.938	-45.938	0	%100
49	RP4	SZ	-45.938	-45.938	0	%100
50	RP1	SZ	-45.938	-45.938	0	%100
51	RP5	SZ	-45.938	-45.938	0	%100
52	RP3	SZ	-45.938	-45.938	0	%100
53	MP8	SZ	-45.938	-45.938	0	%100
54	MP5	SZ	-45.938	-45.938	0	%100

Member Distributed Loads (BLC 11 : Structure Wind X)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	H2	SX	-45.938	-45.938	0	%100
2	H1	SX	-45.938	-45.938	0	%100
3	MP1	SX	-45.938	-45.938	0	%100
4	MP2	SX	-45.938	-45.938	0	%100
5	MP3	SX	-45.938	-45.938	0	%100
6	M7	SX	-45.938	-45.938	0	%100
7	M8	SX	-45.938	-45.938	0	%100
8	M9	SX	-45.938	-45.938	0	%100

Member Distributed Loads (BLC 11 : Structure Wind X) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
9	M10	SX	-45.938	-45.938	0	%100
10	D2	SX	-45.938	-45.938	0	%100
11	D1	SX	-45.938	-45.938	0	%100
12	M13	SX	-45.938	-45.938	0	%100
13	M14	SX	-45.938	-45.938	0	%100
14	P1	SX	-45.938	-45.938	0	%100
15	T2	SX	-45.938	-45.938	0	%100
16	T1	SX	-45.938	-45.938	0	%100
17	M29	SX	-45.938	-45.938	0	%100
18	MP9	SX	-45.938	-45.938	0	%100
19	H5	SX	-45.938	-45.938	0	%100
20	M33	SX	-45.938	-45.938	0	%100
21	H6	SX	-45.938	-45.938	0	%100
22	MP7	SX	-45.938	-45.938	0	%100
23	M37	SX	-45.938	-45.938	0	%100
24	M38	SX	-45.938	-45.938	0	%100
25	M39	SX	-45.938	-45.938	0	%100
26	D6	SX	-45.938	-45.938	0	%100
27	D5	SX	-45.938	-45.938	0	%100
28	M42	SX	-45.938	-45.938	0	%100
29	P3	SX	-45.938	-45.938	0	%100
30	T5	SX	-45.938	-45.938	0	%100
31	T4	SX	-45.938	-45.938	0	%100
32	M56	SX	-45.938	-45.938	0	%100
33	MP6	SX	-45.938	-45.938	0	%100
34	H3	SX	-45.938	-45.938	0	%100
35	M60	SX	-45.938	-45.938	0	%100
36	H4	SX	-45.938	-45.938	0	%100
37	MP4	SX	-45.938	-45.938	0	%100
38	M64	SX	-45.938	-45.938	0	%100
39	M65	SX	-45.938	-45.938	0	%100
40	M66	SX	-45.938	-45.938	0	%100
41	D4	SX	-45.938	-45.938	0	%100
42	D3	SX	-45.938	-45.938	0	%100
43	M69	SX	-45.938	-45.938	0	%100
44	P2	SX	-45.938	-45.938	0	%100
45	T3	SX	-45.938	-45.938	0	%100
46	T6	SX	-45.938	-45.938	0	%100
47	RP2	SX	-45.938	-45.938	0	%100
48	RP6	SX	-45.938	-45.938	0	%100
49	RP4	SX	-45.938	-45.938	0	%100
50	RP1	SX	-45.938	-45.938	0	%100
51	RP5	SX	-45.938	-45.938	0	%100
52	RP3	SX	-45.938	-45.938	0	%100
53	MP8	SX	-45.938	-45.938	0	%100
54	MP5	SX	-45.938	-45.938	0	%100

Member Distributed Loads (BLC 12 : Ice Weight)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	H2	Y	-5.321	-5.321	0	%100
2	H1	Y	-5.321	-5.321	0	%100
3	MP1	Y	-4.658	-4.658	0	%100
4	MP2	Y	-6.158	-6.158	0	%100
5	MP3	Y	-4.658	-4.658	0	%100
6	M7	Y	-4.658	-4.658	0	%100
7	M8	Y	-4.658	-4.658	0	%100
8	M9	Y	-4.658	-4.658	0	%100
9	M10	Y	-4.658	-4.658	0	%100
10	D2	Y	-2.474	-2.474	0	%100
11	D1	Y	-2.474	-2.474	0	%100
12	M13	Y	-2.474	-2.474	0	%100
13	M14	Y	-2.474	-2.474	0	%100
14	P1	Y	-6.158	-6.158	0	%100
15	T2	Y	-5.328	-5.328	0	%100
16	T1	Y	-5.328	-5.328	0	%100
17	M29	Y	-4.658	-4.658	0	%100
18	MP9	Y	-4.658	-4.658	0	%100
19	H5	Y	-5.321	-5.321	0	%100
20	M33	Y	-4.658	-4.658	0	%100
21	H6	Y	-5.321	-5.321	0	%100
22	MP7	Y	-4.658	-4.658	0	%100
23	M37	Y	-4.658	-4.658	0	%100
24	M38	Y	-2.474	-2.474	0	%100
25	M39	Y	-4.658	-4.658	0	%100
26	D6	Y	-2.474	-2.474	0	%100
27	D5	Y	-2.474	-2.474	0	%100
28	M42	Y	-2.474	-2.474	0	%100

Member Distributed Loads (BLC 12 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
29	P3	Y	-6.158	-6.158	0	%100
30	T5	Y	-5.328	-5.328	0	%100
31	T4	Y	-5.328	-5.328	0	%100
32	M56	Y	-4.658	-4.658	0	%100
33	MP6	Y	-4.658	-4.658	0	%100
34	H3	Y	-5.321	-5.321	0	%100
35	M60	Y	-4.658	-4.658	0	%100
36	H4	Y	-5.321	-5.321	0	%100
37	MP4	Y	-4.658	-4.658	0	%100
38	M64	Y	-4.658	-4.658	0	%100
39	M65	Y	-2.474	-2.474	0	%100
40	M66	Y	-4.658	-4.658	0	%100
41	D4	Y	-2.474	-2.474	0	%100
42	D3	Y	-2.474	-2.474	0	%100
43	M69	Y	-2.474	-2.474	0	%100
44	P2	Y	-6.158	-6.158	0	%100
45	T3	Y	-5.328	-5.328	0	%100
46	T6	Y	-5.328	-5.328	0	%100
47	RP2	Y	-4.658	-4.658	0	%100
48	RP6	Y	-4.658	-4.658	0	%100
49	RP4	Y	-4.658	-4.658	0	%100
50	RP1	Y	-4.658	-4.658	0	%100
51	RP5	Y	-4.658	-4.658	0	%100
52	RP3	Y	-4.658	-4.658	0	%100
53	MP8	Y	-6.158	-6.158	0	%100
54	MP5	Y	-6.158	-6.158	0	%100

Member Distributed Loads (BLC 21 : Ice Structure Wind Z)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	H2	SZ	-12.669	-12.669	0	%100
2	H1	SZ	-12.669	-12.669	0	%100
3	MP1	SZ	-13.81	-13.81	0	%100
4	MP2	SZ	-11.69	-11.69	0	%100
5	MP3	SZ	-13.81	-13.81	0	%100
6	M7	SZ	-13.81	-13.81	0	%100
7	M8	SZ	-13.81	-13.81	0	%100
8	M9	SZ	-13.81	-13.81	0	%100
9	M10	SZ	-13.81	-13.81	0	%100
10	D2	SZ	-28.203	-28.203	0	%100
11	D1	SZ	-28.203	-28.203	0	%100
12	M13	SZ	-28.203	-28.203	0	%100
13	M14	SZ	-28.203	-28.203	0	%100
14	P1	SZ	-11.69	-11.69	0	%100
15	T2	SZ	-12.66	-12.66	0	%100
16	T1	SZ	-12.66	-12.66	0	%100
17	M29	SZ	-13.81	-13.81	0	%100
18	MP9	SZ	-13.81	-13.81	0	%100
19	H5	SZ	-12.669	-12.669	0	%100
20	M33	SZ	-13.81	-13.81	0	%100
21	H6	SZ	-12.669	-12.669	0	%100
22	MP7	SZ	-13.81	-13.81	0	%100
23	M37	SZ	-13.81	-13.81	0	%100
24	M38	SZ	-28.203	-28.203	0	%100
25	M39	SZ	-13.81	-13.81	0	%100
26	D6	SZ	-28.203	-28.203	0	%100
27	D5	SZ	-28.203	-28.203	0	%100
28	M42	SZ	-28.203	-28.203	0	%100
29	P3	SZ	-11.69	-11.69	0	%100
30	T5	SZ	-12.66	-12.66	0	%100
31	T4	SZ	-12.66	-12.66	0	%100
32	M56	SZ	-13.81	-13.81	0	%100
33	MP6	SZ	-13.81	-13.81	0	%100
34	H3	SZ	-12.669	-12.669	0	%100
35	M60	SZ	-13.81	-13.81	0	%100
36	H4	SZ	-12.669	-12.669	0	%100
37	MP4	SZ	-13.81	-13.81	0	%100
38	M64	SZ	-13.81	-13.81	0	%100
39	M65	SZ	-28.203	-28.203	0	%100
40	M66	SZ	-13.81	-13.81	0	%100
41	D4	SZ	-28.203	-28.203	0	%100
42	D3	SZ	-28.203	-28.203	0	%100
43	M69	SZ	-28.203	-28.203	0	%100
44	P2	SZ	-11.69	-11.69	0	%100
45	T3	SZ	-12.66	-12.66	0	%100
46	T6	SZ	-12.66	-12.66	0	%100
47	RP2	SZ	-13.81	-13.81	0	%100
48	RP6	SZ	-13.81	-13.81	0	%100

Member Distributed Loads (BLC 21 : Ice Structure Wind Z) (Continued)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
49	RP4	SZ	-13.81	0	%100
50	RP1	SZ	-13.81	0	%100
51	RP5	SZ	-13.81	0	%100
52	RP3	SZ	-13.81	0	%100
53	MP8	SZ	-11.69	0	%100
54	MP5	SZ	-11.69	0	%100

Member Distributed Loads (BLC 22 : Ice Structure Wind X)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, k-ft/in]	End Magnitude [lb/ft, F, psf, k-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	H2	SX	-12.669	0	%100
2	H1	SX	-12.669	0	%100
3	MP1	SX	-13.81	0	%100
4	MP2	SX	-11.69	0	%100
5	MP3	SX	-13.81	0	%100
6	M7	SX	-13.81	0	%100
7	M8	SX	-13.81	0	%100
8	M9	SX	-13.81	0	%100
9	M10	SX	-13.81	0	%100
10	D2	SX	-28.203	0	%100
11	D1	SX	-28.203	0	%100
12	M13	SX	-28.203	0	%100
13	M14	SX	-28.203	0	%100
14	P1	SX	-11.69	0	%100
15	T2	SX	-12.66	0	%100
16	T1	SX	-12.66	0	%100
17	M29	SX	-13.81	0	%100
18	MP9	SX	-13.81	0	%100
19	H5	SX	-12.669	0	%100
20	M33	SX	-13.81	0	%100
21	H6	SX	-12.669	0	%100
22	MP7	SX	-13.81	0	%100
23	M37	SX	-13.81	0	%100
24	M38	SX	-28.203	0	%100
25	M39	SX	-13.81	0	%100
26	D6	SX	-28.203	0	%100
27	D5	SX	-28.203	0	%100
28	M42	SX	-28.203	0	%100
29	P3	SX	-11.69	0	%100
30	T5	SX	-12.66	0	%100
31	T4	SX	-12.66	0	%100
32	M56	SX	-13.81	0	%100
33	MP6	SX	-13.81	0	%100
34	H3	SX	-12.669	0	%100
35	M60	SX	-13.81	0	%100
36	H4	SX	-12.669	0	%100
37	MP4	SX	-13.81	0	%100
38	M64	SX	-13.81	0	%100
39	M65	SX	-28.203	0	%100
40	M66	SX	-13.81	0	%100
41	D4	SX	-28.203	0	%100
42	D3	SX	-28.203	0	%100
43	M69	SX	-28.203	0	%100
44	P2	SX	-11.69	0	%100
45	T3	SX	-12.66	0	%100
46	T6	SX	-12.66	0	%100
47	RP2	SX	-13.81	0	%100
48	RP6	SX	-13.81	0	%100
49	RP4	SX	-13.81	0	%100
50	RP1	SX	-13.81	0	%100
51	RP5	SX	-13.81	0	%100
52	RP3	SX	-13.81	0	%100
53	MP8	SX	-11.69	0	%100
54	MP5	SX	-11.69	0	%100

Member Area Loads

No Data to Print...					
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Envelope Node Reactions

Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	P41	max	2537.611	23	2366.185	44	1974.075	15	0	235	0	235	0
2		min	-2816.749	15	-399.743	19	-607.766	23	0	1	0	1	0
3	P42	max	2654.445	5	1324.206	3	615.722	21	0	235	0	235	0
4		min	-2365.888	29	-955.34	27	-1981.781	13	0	1	0	1	0
5	N63	max	2968.964	5	2418.644	17	1410.521	21	0	235	0	235	0
6		min	-1696.942	29	-635.01	25	-2102.817	199	0	1	0	1	0

Envelope Node Reactions (Continued)

Node Label			X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
7	N82	max	-258.797	19	1521.197	9	3550.618	2	0	235	0	235	0	235
8		min	-2019.633	229	-1200.495	33	-3045.616	26	0	1	0	1	0	1
9	N115	max	461.964	29	2488.307	6	2251.93	18	0	235	0	235	0	235
10		min	-1930.381	143	-733.002	30	-3162.395	10	0	1	0	1	0	1
11	N134	max	3383.489	7	1602.409	14	2402.509	15	0	235	0	235	0	235
12		min	-2371.457	31	-1291.029	22	-1491.406	23	0	1	0	1	0	1
13	Totals:	max	6875.05	22	7423.477	36	6994.393	18						
14		min	-6875.049	30	2587.329	72	-6994.394	10						

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

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
1	MP9	2.38"X0.120"	0.473	77.5	232	0.077	77.5	233	8550.152	35272.8	2.115	2.115	1	H1-1b
2	MP3	2.38"X0.120"	0.472	77.5	131	0.077	77.5	132	8550.152	35272.8	2.115	2.115	1	H1-1b
3	MP6	2.38"X0.120"	0.472	77.5	173	0.077	77.5	175	8550.152	35272.8	2.115	2.115	1	H1-1b
4	MP7	2.38"X0.120"	0.464	77.5	192	0.077	42.5	193	8550.152	35272.8	2.115	2.115	1	H1-1b
5	H1	PIPE 2.5	0.459	130.5	10	0.089	130.5	10	10819.554	66654	4.727	4.727	1	H1-1b
6	H4	PIPE 2.5	0.455	130.5	5	0.091	130.5	5	10819.554	66654	4.727	4.727	1	H1-1b
7	MP1	2.38"X0.120"	0.453	77.5	106	0.076	42.5	92	8550.152	35272.8	2.115	2.115	1	H1-1b
8	MP4	2.38"X0.120"	0.453	77.5	149	0.076	42.5	151	8550.152	35272.8	2.115	2.115	1	H1-1b
9	H6	PIPE 2.5	0.45	130.5	15	0.089	130.5	16	10819.554	66654	4.727	4.727	1	H1-1b
10	H5	PIPE 2.5	0.364	43.5	31	0.154	119.625	7	10819.554	66654	4.727	4.727	1	H1-1b
11	H2	PIPE 2.5	0.361	43.5	26	0.157	119.625	2	10819.554	66654	4.727	4.727	1	H1-1b
12	H3	PIPE 2.5	0.358	43.5	20	0.155	119.625	13	10819.554	66654	4.727	4.727	1	H1-1b
13	M56	2.38"X0.120"	0.224	0	15	0.162	0	142	29756.333	35272.8	2.115	2.115	1	H1-1b
14	M8	2.38"X0.120"	0.221	36.026	137	0.194	36.445	128	29756.333	35272.8	2.115	2.115	1	H1-1b
15	M64	2.38"X0.120"	0.22	36.026	180	0.194	36.445	175	29756.333	35272.8	2.115	2.115	1	H1-1b
16	M37	2.38"X0.120"	0.218	36.026	223	0.194	36.445	233	29756.333	35272.8	2.115	2.115	1	H1-1b
17	M29	2.38"X0.120"	0.217	0	10	0.165	0	201	29756.333	35272.8	2.115	2.115	1	H1-1b
18	P2	3.5"X0.120	0.212	9.188	6	0.305	9.188	7	47118.557	52753.122	4.732	4.732	1	H1-1b
19	M33	2.38"X0.120"	0.206	36.026	202	0.198	36.445	201	29756.333	35272.8	2.115	2.115	1	H1-1b
20	P3	3.5"X0.120	0.205	9.188	17	0.299	9.188	2	47118.557	52753.122	4.732	4.732	1	H1-1b
21	M7	2.38"X0.120"	0.202	36.026	100	0.193	36.445	100	29756.333	35272.8	2.115	2.115	1	H1-1b
22	M60	2.38"X0.120"	0.201	36.026	143	0.194	36.445	143	29756.333	35272.8	2.115	2.115	1	H1-1b
23	P1	3.5"X0.120	0.192	9.188	12	0.276	45.938	15	47118.557	52753.122	4.732	4.732	1	H1-1b
24	M9	2.38"X0.120"	0.19	0	5	0.165	0	100	29756.333	35272.8	2.115	2.115	1	H1-1b
25	MP5	PIPE 3.0	0.16	77.5	5	0.077	77.5	13	42405.505	85698	7.555	7.555	1	H1-1b
26	MP8	PIPE 3.0	0.16	77.5	15	0.076	77.5	7	42405.505	85698	7.555	7.555	1	H1-1b
27	MP2	PIPE 3.0	0.158	77.5	10	0.077	77.5	2	42405.505	85698	7.555	7.555	1	H1-1b
28	M66	2.38"X0.120"	0.154	2.095	185	0.183	0	183	29756.333	35272.8	2.115	2.115	1	H1-1b
29	M39	2.38"X0.120"	0.151	2.095	228	0.182	0	225	29756.333	35272.8	2.115	2.115	1	H1-1b
30	M10	2.38"X0.120"	0.151	2.095	126	0.184	0	124	29756.333	35272.8	2.115	2.115	1	H1-1b
31	M65	SR3/4	0.142	36.5	177	0.026	0	5	5867.214	19880.37	0.249	0.249	1	H1-1b
32	M38	SR3/4	0.141	36.5	235	0.026	36.5	15	5867.214	19880.37	0.249	0.249	1	H1-1b
33	M13	SR3/4	0.141	36.5	133	0.031	36.5	10	5867.214	19880.37	0.249	0.249	1	H1-1b
34	M42	SR3/4	0.14	36.5	195	0.03	36.5	7	5867.214	19880.37	0.249	0.249	1	H1-1b
35	M69	SR3/4	0.137	36.5	140	0.03	0	13	5867.214	19880.37	0.249	0.249	1	H1-1b
36	M14	SR3/4	0.136	36.5	93	0.027	0	2	5867.214	19880.37	0.249	0.249	1	H1-1b
37	D2	SR3/4	0.133	49.889	124	0.026	49.889	11	2877.123	19880.37	0.249	0.249	1	H1-1b*
38	D4	SR3/4	0.132	49.889	183	0.025	49.889	6	2877.123	19880.37	0.249	0.249	1	H1-1b*
39	D6	SR3/4	0.131	49.889	225	0.024	49.889	17	2877.123	19880.37	0.249	0.249	1	H1-1b*
40	RP5	2.38"X0.120"	0.13	41.25	2	0.067	42.5	7	8550.152	35272.8	2.115	2.115	1	H1-1b
41	RP3	2.38"X0.120"	0.13	41.25	7	0.066	42.5	13	8550.152	35272.8	2.115	2.115	1	H1-1b
42	RP4	2.38"X0.120"	0.13	41.25	3	0.066	77.5	13	8550.152	35272.8	2.115	2.115	1	H1-1b
43	RP6	2.38"X0.120"	0.13	41.25	14	0.066	77.5	15	8550.152	35272.8	2.115	2.115	1	H1-1b
44	RP1	2.38"X0.120"	0.127	78.75	12	0.066	42.5	2	8550.152	35272.8	2.115	2.115	1	H1-1b
45	D5	SR3/4	0.123	49.889	202	0.016	49.889	11	2877.123	19880.37	0.249	0.249	1	H1-1b*
46	RP2	2.38"X0.120"	0.122	78.75	8	0.066	77.5	10	8550.152	35272.8	2.115	2.115	1	H1-1b
47	D1	SR3/4	0.121	49.889	100	0.015	49.889	6	2877.123	19880.37	0.249	0.249	1	H1-1b*
48	D3	SR3/4	0.121	49.889	143	0.017	49.889	16	2877.123	19880.37	0.249	0.249	1	H1-1b*
49	T5	2.88"X0.120"	0.069	71.067	24	0.084	71.067	232	30165.041	43056	3.157	3.157	1	H1-1b*
50	T3	2.88"X0.120"	0.068	71.067	30	0.084	71.067	174	30165.041	43056	3.157	3.157	1	H1-1b*
51	T2	2.88"X0.120"	0.066	71.067	18	0.084	71.067	132	30165.041	43056	3.157	3.157	1	H1-1b*
52	T4	2.88"X0.120"	0.054	71.011	22	0.071	71.011	194	30182.048	43056	3.157	3.157	1	H1-1b*
53	T6	2.88"X0.120"	0.053	71.011	28	0.069	71.011	151	30182.048	43056	3.157	3.157	1	H1-1b*
54	T1	2.88"X0.120"	0.051	71.011	33	0.069	71.011	97	30182.048	43056	3.157	3.157	1	H1-1b*

ANSI/TIA-222 - BOLT CONNECTION CHECK



ANSI/TIA-222-H

Airosmith Bolt Connection Check v3.0

Site ID: 10546792
 Carrier: AT&T Mobility
 Engineer: HR
 Date: 10/11/2024

Connection Location: Standoff Connection to Collar

Connection Data

Quantity	n	2		
Type		U-Bolt		
Diameter	D	0.625	in	
Net area through threaded part	A _n	0.226	in ²	
Nominal unthreaded body area	A _b	0.307	in ²	
Threads Included/Excluded		N		
Grade		A307		
Min. Yield Stress	F _y	36	ksi	AISC Table 2-6
Tensile Stress	F _u	60	ksi	AISC Table 2-6

Loading Data

Maximum Tensile Force/Bolt	T _{max}	0.00	k
Maximum Shear Force/Bolt	V _{max}	0.87	k
Member		M73	
Load Case		15	

Tensile Strength of Bolts or Threaded Parts

Phi (LFRD)	Φ	0.75		ANSI/TIA-222-H 4.9.6.1
Nom. Tensile Strength	R _{nt}	13.56	k	ANSI/TIA-222-H 4.9.6.1
Design Tensile Strength	ΦR _{nt}	10.17	k	

Shear Strength of Bolts or Threaded Parts

Phi (LFRD)	Φ	0.75		ANSI/TIA-222-H 4.9.6.3
Nom. Shear Strength	R _{nv}	9.20	k	ANSI/TIA-222-H 4.9.6.3
Design Shear Strength	ΦR _{nv}	6.90	k	

Combined Shear & Tension in Bearing-Type Connections

$$\left(\frac{V_{ub}}{\Phi R_{nv}}\right)^2 + \left(\frac{T_{ub}}{\Phi R_{nt}}\right)^2 \leq 1.0 \quad \text{ANSI/TIA-222-H 4.9.6.4}$$

Tension Capacity	0.0%	PASS
Shear Capacity	12.6%	PASS
Interaction Capacity	1.6%	PASS

Notes/Comments

--



City of Milford, CT

Property Listing Report

Map Block Lot

079 810 13

Bldg #

1

Sec #

1

PID

100282

Account

023045

Property Information

Property Location	311 OLD GATE LN #UNIT 4
Owner	BVS JAI ALAI LLC
Co-Owner	na
Mailing Address	1720 POST RD FAIRFIELD CT 06824
Land Use	434V CELL TOWER MDL-00
Land Class	I
Zoning Code	ID
Census Tract	AB 2360

Neighborhood	F
Acreage	0.09
Utilities	
Lot Setting/Desc	Urban Level
Book / Page	03138/0001
Fire District	

Primary Construction Details

Year Built	0
Building Desc.	CELL TOWER
Building Style	UNKNOWN
Building Grade	
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	NA
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	NA
Interior Floors 1	
Interior Floors 2	NA

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	
Fireplaces	0

Photo



Sketch



(*Industrial / Commercial Details)

Building Use	Vacant
Building Condition	
Sprinkler %	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA
Foundation	NA

Report Created On

1/17/2025

Valuation Summary (Assessed value = 70% of Appraised Value)

Sub Areas

Item	Appraised	Assessed	Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Buildings	0	0			
Extras	0	0			
Improvements					
Outbuildings	270000	189000			
Land	20250	14180			
Total	290250	203180			

Outbuilding and Extra Features

[illegible][illegible]

Sales History

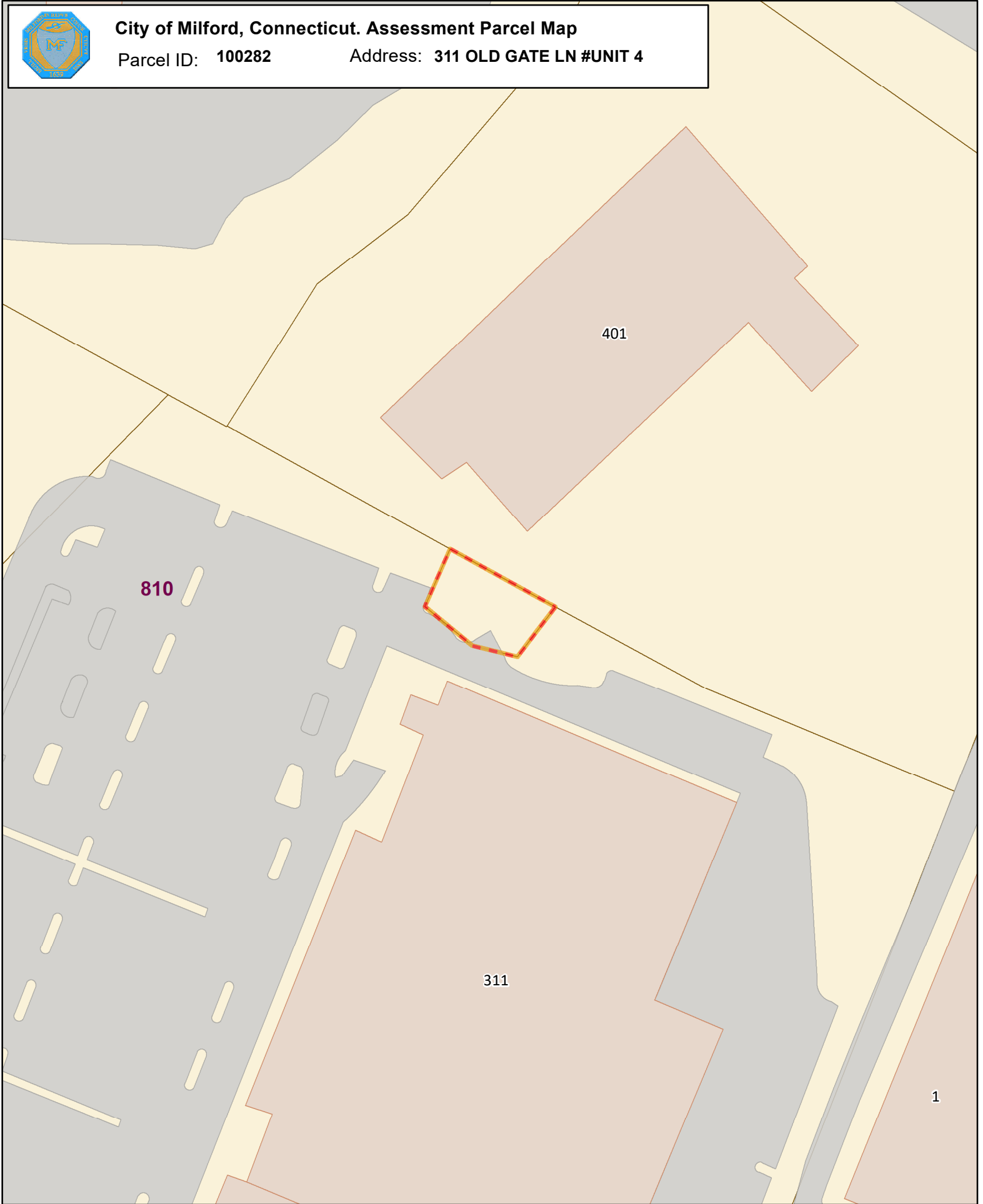
Owner of Record	Book/ Page	Sale Date	Sale Price
BVS JAI ALAI LLC	03138/0001	2006-12-19	14000000
CITY OF MILFORD (TAXABLE)	02955/0591	2005-01-20	0
JAI ALAI ASSOCIATES LLC	02407/0500	2000-05-22	0
JAI ALAI ASSOCIATES LIMITED	01191/0215	1983-02-08	0



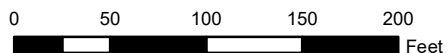
City of Milford, Connecticut. Assessment Parcel Map

Parcel ID: 100282

Address: 311 OLD GATE LN #UNIT 4



1 inch = 100 feet



Disclaimer: This map is for informational purposes only All information is subject to verification by any user. The City of Milford and its mapping contractors assume no legal responsibility for the information contained herein.

Map Produced: May 2023



City of Milford, Connecticut

Founded 1639

PLANNING AND ZONING BOARD

70 WEST RIVER STREET
MILFORD, CONNECTICUT 06460
TELEPHONE 783-3245

November 7, 1996

Lewis A. Hurwitz, Esq.
Hurwitz & Sagarin, P.C.
147 North Broad Street
P. O. Box 112
Milford, CT 06460

RE: 311 OLD GATE LANE

Dear Atty. Hurwitz:

At its meeting held Wednesday, November 6, 1996, the Planning & Zoning Board moved to grant the petition of Sprint PCS for an amendment to a Special Permit and Site Plan Review for the construction of a 120' monopole PCS antenna, at 311 Old Gate Lane, parcel 13G, block 810, Assessor's map 79, of which Jai Alai Associates is the owner. This approval shall be in accordance with plans prepared by Grenier, Inc., received by the Planning & Zoning Board 10/3/96, entitled Lucent Technologies/Bechtel Alliance SSLP Project - Cover Sheet, Notes and Details and Partial Topographic Survey, Land of Jai Alai Associates Limited Partnership.

The four to five parking spaces to be removed to allow the construction and location of this communications tower will not result in a deficiency of parking spaces. The site includes excess parking spaces over and above the zoning requirement.

A certificate, which must be filed on the land records in the City Clerk's Office prior to the issuance of a zoning permit, will be retained in this office for your retrieval.

Very truly yours,

WADE E. PIERCE
Executive Secretary
Planning & Zoning Board

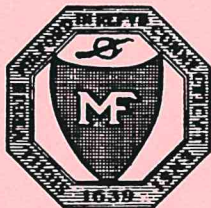
BEFORE THE MONDAY FOLLOWING THE TUESDAY MEETING
(PTIONS)

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to Lewis A. Hurwitz Esq.	
Street & Number 147 North Broad Street	
Post Office, State, & ZIP Code PO Box 112 Milford CT 06460	
Postage \$.32	
Certified Fee 1.10	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees \$ 1.42	
Postmark of Date MILFORD CT NOV 7 1996	

P 545 292 485



City of Milford, Connecticut

THIS IS TO CERTIFY THAT SPRINT PCS
WAS GRANTED A SPECIAL PERMIT AMENDMENT BY THE MILFORD PLANNING & ZONING BOARD ON
NOVEMBER 6, 1996 FOR PROPERTY LOCATED AT
311 OLD GATE LANE
MAP 79 BLOCK 810 PARCEL 13G
IN THE CITY OF MILFORD, COUNTY OF NEW HAVEN, STATE OF CONNECTICUT
FOR WHICH JAI ALAI ASSOCIATES LTD. PARTNERSHIP IS THE OWNER.

THE SPECIAL PERMIT WAS GRANTED TO:

construct a 120' monopole PCS antenna, at 311 Old Gate Lane, parcel 13G, block 810, Assessor's map 79, of which Jai Alai Associates is the owner. This approval shall be in accordance with plans prepared by Grenier, Inc., received by the Planning & Zoning Board 10/3/96, entitled Lucent Technologies/Bechtel Alliance SSLP Project - Cover Sheet, Notes and Details and Partial Topographic Survey, Land of Jai Alai Associates Limited Partnership. The four to five parking spaces to be removed to allow the construction and location of this communications tower will not result in a deficiency of parking spaces. The site includes excess parking spaces over and above the zoning requirement.

"NO VARIANCE, SPECIAL PERMIT OR SPECIAL EXCEPTION GRANTED PURSUANT TO CHAPTER 124 OF ANY SPECIAL ACT SHALL BE EFFECTIVE UNTIL A COPY THEREOF...IS RECORDED IN THE LAND RECORDS OF THE TOWN IN WHICH SUCH PREMISES ARE LOCATED."
P.A. 75-317

RECORDED _____

CITY CLERK REC. NO. _____

PLANNING & ZONING BOARD

BY: _____

WADE E. PIERCE
EXECUTIVE SECRETARY



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

Web Site: portal.ct.gov/csc

VIA ELECTRONIC & CERTIFIED MAIL RETURN RECEIPT REQUESTED

February 25, 2022

Denise Sabo
Northeast Site Solutions
Agent for AT&T
420 Main Street, Suite 1
Sturbridge, MA 01566-1359
denise@northeastsitesolutions.com

RE: **PETITION NO. 1473** - New Cingular Wireless PCS, LLC (AT&T) petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for proposed modifications to an existing telecommunications facility located at 311 Old Gate Lane, Milford, Connecticut.

Dear Ms. Sabo:

At a public meeting held on February 24, 2022, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

1. Approval of any project changes be delegated to Council staff;
2. Prior to AT&T's antenna installation, tower modification shall be installed in accordance with the Structural Modification Report prepared by Paul J. Ford & Company, dated July 1, 2021, and stamped and signed by Justin Kline;
3. Within 45 days following completion of proposed modifications, AT&T shall provide documentation that its installation complied with the recommendations of the Structural Modification Report;
4. Deployment of any 5G services must comply with FCC and FAA guidance relative to air navigation, as applicable;
5. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
6. Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the City of Milford;

7. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
8. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
9. The facility owner/operator shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v;
10. This Declaratory Ruling may be transferred, provided the facility owner/operator/transferor is current with payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v and the transferee provides written confirmation that the transferee agrees to comply with the terms, limitations and conditions contained in the Declaratory Ruling, including timely payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v; and
11. If the facility owner/operator is a wholly owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated November 19, 2021, and additional information received on February 15, 2022.

Enclosed for your information is a copy of the staff report on this project.

Sincerely,



Melanie A. Bachman
Executive Director

MAB/MP/lm

Enclosure: Staff Report dated February 24, 2022

c: The Honorable Benjamin G. Blake, Mayor, City of Milford (bblake@ci.milford.ct.us)



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Data provided by USPS

Mayor of Milford Copy



Tracking number 9405530109355089493967

Expected delivery

January 21, 08:00PM

Tracking number created

January 17, 08:00AM

Salem, NH



In transit

January 17, 03:23PM

Meriden, CT



Out for delivery



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Expected delivery

January 21, 08:00PM

Tracking number created

January 17, 08:00AM

Salem, NH



In transit

January 17, 03:23PM

Meriden, CT



Out for delivery



Delivered



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Property Owner Copy



Tracking number 9405530109355089493950

Expected delivery

January 21, 08:00PM

Tracking number created

January 17, 08:00AM

Salem, NH



In transit

January 17, 03:23PM

Meriden, CT



Out for delivery



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Tower Owner Copy

Tracking Number:

Remove X

9405530109355089493929

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

Expected Delivery by

TUESDAY**21**January
2025 ⓘ

by

9:00pm ⓘ

Feedback

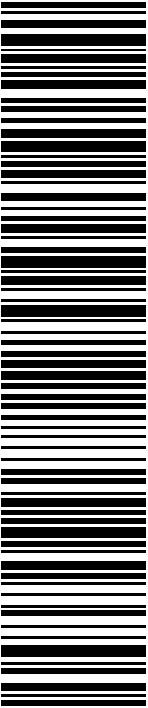
USPS is now in possession of your item as of 12:47 pm on January 17, 2025 in MERIDEN, CT 06450.

Get More Out of USPS Tracking:

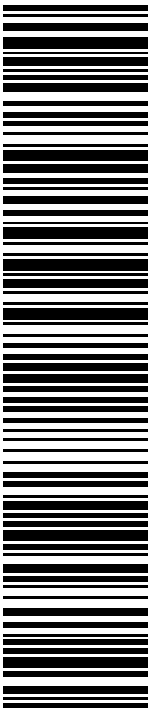
USPS Tracking Plus®

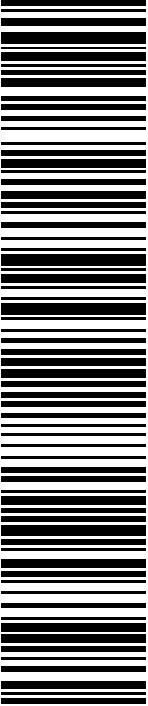
Delivered

Out for Delivery

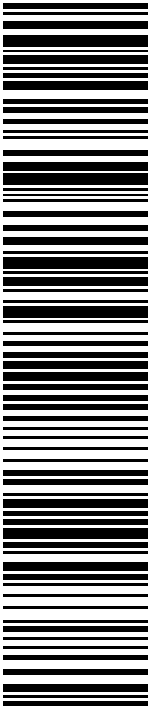
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01/17/2025		Mailed from 03079 74643247100284	
PRIORITY MAIL®			
SAI GROUP HOLLIS REDDING 12 INDUSTRIAL WAY SALEM NH 03079-2837		01/21/2025 Legal Flat Rate Envelope RDC 03 C006	
		CT SITING COUNCIL MELANIE BACHMAN EXECUTIVE DIRECTOR 10 FRANKLIN SQ NEW BRITAIN CT 06051-2655	
USPS TRACKING #			
			
9405 5301 0935 5089 4939 36			
CT2814			
			

Cut on dotted line.

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PRIORITY MAIL®			
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		CROWN CASTLE VERONICA CHAPMAN, PROJECT MGR -NER 300 BARR HARBOR DR CONSHOHOCKEN PA 19428-2998	
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CT2814			
			

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PRIORITY MAIL®			
SAI GROUP HOLLIS REDDING 12 INDUSTRIAL WAY SALEM NH 03079-2837		01/21/2025 Flat Rate Envelope RDC 03 C012	
		BVS JAI ALA LLC 1720 POST RD FAIRFIELD CT 06824-5741	
USPS TRACKING #			
			
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CT2841			
			

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PRIORITY MAIL®			
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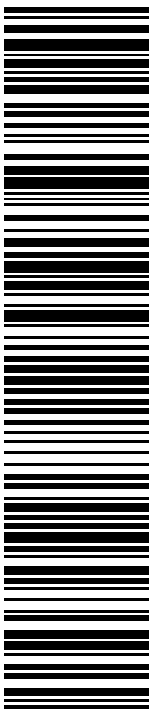
SAI GROUP
HOLLIS REDDING
12 INDUSTRIAL WAY
SALEM NH 03079-2837

01/21/2025
Flat Rate Envelope
RDC 03
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CITY OF MILFORD
MR. DAVID B SULKIS
70 W RIVER ST
MILFORD CT 06460-3317

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